



รายงานวิจัยฉบับสมบูรณ์

โครงการ การเปรียบเทียบประสิทธิภาพของแผนแบบ
พื้นผิวผลตอบบนตัวแบบลดรูปในขอบเขตทรงกลม

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สนับสนุนโดยสำนักงานคณะกรรมการการอุดมศึกษา และสำนักงานกองทุนสนับสนุนการวิจัย
(ความเห็นในรายงานนี้เป็นของผู้วิจัย สกอ. และ สกว. ไม่จำเป็นต้องเห็นด้วยเสมอไป)

การเปรียบเทียบประสิทธิภาพของแผนแบบพื้นผิวผลตอบบนตัวแบบลดรูป ในขอบเขตทรงกลม

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บทคัดย่อ

การศึกษานี้มีวัตถุประสงค์เพื่อเปรียบเทียบแผนแบบพื้นผิวผลตอบบนตัวแบบลดรูปในขอบเขตทรงกลมสำหรับ 5 ปัจจัย โดยพิจารณาจากเกณฑ์แผนแบบที่เหมาะสม 3 วิธี คือ D, G, IV และ Variance Dispersion Graph (VDG) แผนแบบที่ศึกษาเปรียบเทียบได้แก่ Central composite design (CCDs), Box-Behnken design (BBDs), Small composite design (SCDs), Plackett-Burmann design (PBDs) and Uniform Shell design (USDs) ซึ่งมีการทำซ้ำในส่วนของ axial points หรือ star points ($r_s = 1, 2$) และทำซ้ำในส่วน center points ($(n_0 = 0, 1, 3)$) ผลการศึกษาด้าน robustness และแผนแบบที่เหมาะสมสำหรับแต่ละเกณฑ์ที่พิจารณาจะถูกนำเสนอ

คำสำคัญ: แผนแบบพื้นผิวผลตอบ ขอบเขตทรงกลม เกณฑ์แผนแบบที่เหมาะสม กราฟการกระจายของความแปรปรวน

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Efficient Comparison of Response Surface Designs on Reduced Models in a Spherical Design Region

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Abstract

The objective of the research is to compare the 5 factor response surface designs in a spherical design region by considering the 3 design optimality criteria which are D, G, IV-criteria over sets of reduced models and Variance Dispersion Graph(VDG) for the full second order model. These 5 factor response surface designs are Central composite design(CCDs), Box-Behnken design(BBDs), Small composite design(SCDs), Plackett-Burmann design(PBDs) and Uniform Shell design(USDs) with 1 and 3 center points, 1 and 2 replicated of axial points. Thus, robustness results of the spherical response surface designs, the comparison of design optimality criteria and VDG of the response surface designs across the full second order model and sets of reduced models for the 5 design variables based on the three optimality criteria(D, G, IV-criteria) and VDG are presented.

Keywords: Response surface design, spherical region, optimality criterion, variance dispersion graph

Outputs

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หน้าสรุปโครงการ (Executive Summary)
ทุนพัฒนาศักยภาพในการทำงานวิจัยของอาจารย์รุ่นใหม่

1. ชื่อโครงการ (ภาษาไทย) การเปรียบเทียบประสิทธิภาพของแผนแบบพื้นผิวผลตอบบนตัวแบบลดรูปในขอบเขตทรงกลม

(ภาษาอังกฤษ) Comparison of Reduced Model Response Surface Design Efficiencies on the Hypersphere

2. หัวหน้าโครงการ ผศ.ดร. บุญอ้อม โฉมทิ

หน่วยงานที่สังกัด ภาควิชาสถิติ คณะวิทยาศาสตร์ มหาวิทยาลัยเกษตรศาสตร์ บางเขน
จังหวัด กรุงเทพฯ

ที่อยู่(ที่บ้าน) 45/76 หมู่บ้านบุธรรมย์-คู่บอน ถ.เลียบคลองสอง แขวงบางชั้น เขตคลองสามวา
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3. สาขาวิชาที่ทำการวิจัย วิธีการพื้นผิวผลตอบ การวางแผนการทดลอง
และการวิเคราะห์การถดถอย

5. ระยะเวลาดำเนินงาน 2 ปี

6. ได้เสนอโครงการนี้ หรือโครงการที่มีส่วนเหมือนกับเรื่องนี้บางส่วนเพื่อขอทุนต่อแหล่งทุนอื่นที่ใดบ้าง

⊗ ไม่ได้เสนอต่อแหล่งทุนอื่น

7. ปัญหาที่ทำการวิจัย และความสำคัญของปัญหา

วิธีการพื้นผิวผลตอบ (Response Surface Methodology--RSM) เป็นการรวมเทคนิคทางคณิตศาสตร์และทางสถิติและนำมาประยุกต์ใช้ในการพัฒนา ปรับปรุงกระบวนการ(processes) หรือการทดลองเพื่อให้ได้ค่าผลตอบที่ต้องการ ซึ่งค่าผลตอบนี้อาจจะเป็นค่ามากที่สุด(maximum response) ค่าต่ำที่สุด(minimum response) หรือค่าที่เหมาะสม(optimum response) ซึ่งขั้นตอนการปรับปรุงกระบวนการต่างๆ นั้นมีความสำคัญอย่างมากในการพัฒนาผลิตภัณฑ์ใหม่ๆ อีกทั้งมีการนำวิธีการพื้นผิวผลตอบมาใช้ในการสร้างตัวแบบที่เหมาะสมและช่วยในการวิเคราะห์ปัญหาด้าน

วิทยาศาสตร์อย่างกว้างขวางเช่น ด้านการเกษตร อุตสาหกรรม ฟิสิกส์ และเคมี เป็นต้น โดยปัญหาที่ต้องการวิเคราะห์นั้นมักขึ้นอยู่กับปัจจัยหลายๆปัจจัยและปัจจัยเหล่านั้นมีหลายระดับ โดยมีวัตถุประสงค์เพื่อหาค่าผลตอบที่ดีที่สุด

ตัวแบบลดรูป/ (Reduced Models) ในการวิเคราะห์ด้านพื้นผิวผลตอบนั้น นิยมใช้แผนการทดลองพื้นผิวผลตอบกับตัวแบบกำลังสอง (the second order model) ซึ่งผลการวิจัยโดยทั่วไปมักพบว่าตัวแบบสุดท้ายที่จะนำไปใช้นั้น จะไม่อยู่ในรูปของตัวแบบกำลังสองเต็ม (the full second order model) แต่จะอยู่ในรูปของตัวแบบลดรูป โดยที่ the full second order model เขียนได้เป็น

$$y = \beta_0 + \sum_{i=1}^k \beta_i x_i + \sum_{i=1}^k \beta_{ii} x_i^2 + \sum_{1 \leq i < j}^k \beta_{ij} x_i x_j + \varepsilon$$

และ the full second order model นี้จะมีจำนวนพารามิเตอร์(p) เท่ากับ $\binom{k+2}{2}$; k คือจำนวนปัจจัยที่ศึกษา ดังนั้น จะเป็นประโยชน์อย่างมาก ถ้าจะมีการศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบโดยการพิจารณาครอบคลุมตัวแบบกำลังสองทุกรูปแบบที่เป็นไปได้ทั้งหมด

ถ้าให้ “1” และ “0” แทนการปรากฏและไม่ปรากฏเทอมของ x_i ในตัวแบบ ตามลำดับ และให้ l, c, q แทน linear, cross-product, quadratic terms ในตัวแบบ ตามลำดับ และจะสร้างตัวแบบที่มีการลดรูปด้วยหลักการ hierarchy ดังนี้ (i) ถ้าในตัวแบบมี x_i^2 แล้ว ตัวแบบนั้นต้องมี x_i และ (ii) ถ้าในตัวแบบมี $x_i x_j$ แล้ว ตัวแบบนั้นต้องมี x_i และ/หรือ x_j ดังนั้นจากหลักการดังกล่าวสร้างตัวแบบลดรูปสำหรับขนาด 5 ปัจจัยแล้ว จะได้ตัวแบบจำนวน 839 ตัวแบบ ดังนี้

Model	p	dv	x_1	x_2	x_3	x_4	x_5	x_1^2	x_2^2	x_3^2	x_4^2	x_5^2
1	21	5	1	1	1	1	1	1	1	1	1	1
2	20	5	1	1	1	1	1	1	1	1	1	1
3	20	5	1	1	1	1	1	0	1	1	1	1
⋮												
838	3	1	0	0	0	0	1	0	0	0	0	1
839	2	1	0	0	0	0	1	0	0	0	0	0

Model	p	dv	$x_1 x_2$	$x_1 x_3$	$x_1 x_4$	$x_1 x_5$	$x_2 x_3$	$x_2 x_4$	$x_2 x_5$	$x_3 x_4$	$x_3 x_5$	$x_4 x_5$	l	c	q
1	21	5	1	1	1	1	1	1	1	1	1	1	5	10	5
2	20	5	0	1	1	1	1	1	1	1	1	1	5	9	5
3	20	5	1	1	1	1	1	1	1	1	1	1	5	10	4
⋮															
838	3	1	0	0	0	0	0	0	0	0	0	0	1	0	1
839	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0

เมื่อ p คือจำนวนพารามิเตอร์ในตัวแบบ และ dv คือจำนวนตัวแปรแผนแบบ(design variables)

ขอบเขตทรงกลม (Spherical Region) การศึกษาทางด้าน RSM จะมีการศึกษาแผนการทดลองที่สร้างขึ้นในขอบเขตทรงลูกบาศก์ (Cuboidal region) ขอบเขตทรงกลม (Spherical region) หรือ ขอบเขตหลายด้าน (Polyhedral region) ซึ่งโครงการวิจัยนี้ต้องการศึกษาเฉพาะแผนการทดลองที่สร้างขึ้นใน Spherical region ซึ่งมีหลักการดังนี้ ถ้าให้ $x_1, x_2, \dots, x_k$ เป็นตัวแปรแผนแบบ (design variables) สำหรับแผนแบบพื้นผิวผลตอบในขอบเขตทรงกลม จะได้ว่า $\sum_{i=1}^k x_i^2 \leq k$ เมื่อ k คือจำนวนตัวแปรหรือปัจจัยที่ศึกษา ดังนั้น แผนการทดลองใน Spherical region จะประกอบด้วยทุกๆค่าของ $x_i; i=1, 2, \dots, k$ ที่อยู่บนหรืออยู่ภายในขอบเขตทรงกลมที่มีรัศมีเท่ากับ k

เกณฑ์แผนแบบที่เหมาะสม (Design Optimality Criteria) เป็นการศึกษาเกี่ยวกับคุณสมบัติของเมทริกซ์ $X'X$ สำหรับแต่ละเมทริกซ์แผนแบบ X (design matrix X) ของแผนการทดลองใดๆ เพื่อเปรียบเทียบและหาแผนแบบพื้นผิวผลตอบที่ดีที่สุดและเหมาะสมก่อนที่ผู้ทดลองจะลงมือปฏิบัติการทดลองจริง ซึ่งเป็นการประหยัดงบประมาณ เวลา และกำลังคน ในกรณีที่ผู้ทดลองมีแผนแบบการทดลองแบบต่างๆให้เลือกใช้หลายๆแบบ

ในการวิจัยครั้งนี้ จะศึกษาเกณฑ์แผนแบบที่เหมาะสม 3 วิธี ดังนี้

1. **D-optimality** เป็นเกณฑ์ที่เกี่ยวข้องกับ $|X'X|$ โดยมีเป้าหมายเพื่อทำให้ $|X'X|$ มีค่าสูงที่สุด หรืออีกนัยหนึ่งเพื่อให้ $|(X'X)^{-1}|$ มีค่าต่ำที่สุด

maximize $|X'X|$ หรือ minimize $|(X'X)^{-1}|$ โดยที่ X คือ design matrix

2. **G-optimality** เป็นเกณฑ์ที่เกี่ยวข้องกับความแปรปรวนที่ถูกสเกล (scaled prediction variance-- $V(x)$) เมื่อ $V(x) = N f'(x) (X'X)^{-1} f(x)$ โดยมีเป้าหมายเพื่อทำให้ความแปรปรวนที่ถูกสเกลที่มากที่สุดมีค่าน้อยที่สุดในขอบเขตของแผนแบบการทดลอง

$$\text{minimize } \max_{x \in X} [N f'(x) (X'X)^{-1} f(x)]$$

โดยที่ X คือ design matrix , x คือจุดใดๆในขอบเขตของแผนการทดลอง X ,

$f(x) = [f_1(x), \dots, f_p(x)]'$ คือเวกเตอร์ของฟังก์ชันค่าจริง p ค่าจากพารามิเตอร์จำนวน p ตัวบนตัวแบบ และ N คือขนาดของแผนแบบการทดลอง

3. **IV-optimality** เป็นเกณฑ์ที่เกี่ยวข้องกับความแปรปรวนที่ถูกสเกลเช่นเดียวกับ **G-optimality** โดยมีเป้าหมายเพื่อทำให้ความแปรปรวนที่ถูกสเกลเฉลี่ยมีค่าน้อยที่สุดในขอบเขตของแผนการทดลอง

$$\text{Minimize average } [N f'(x) (X'X)^{-1} f(x)]$$

$x \in X$

โดยที่ X คือ design matrix , x คือจุดใด ๆ ในขอบเขตของแผนการทดลอง X ,
 $f(x) = [f_1(x), \dots, f_p(x)]'$ คือเวกเตอร์ของฟังก์ชันค่าจริง p ค่าจากพารามิเตอร์จำนวน p ตัวบนตัว
แบบ และ N คือขนาดของแผนแบบการทดลอง

Variance Dispersion Graphic (VDG) เป็นเกณฑ์การประเมินประสิทธิภาพของแผนการ
ทดลองอีกแบบหนึ่งซึ่งถูกนำเสนอโดย Giovannitti-Jensen and Myers (1989) ซึ่งเป็นการพล็อต
กราฟ 2 มิติ เพื่อแสดงค่าประมาณความแปรปรวนที่สูงที่สุดและค่าที่ต่ำที่สุด (maximum and
minimum prediction variances) บนขอบเขตทรงกลมที่มีรัศมีขนาดต่าง ๆ ในขอบเขตของแผนแบบ
พื้นผิวผลตอบที่สนใจศึกษา

ในการทำการวิจัยหรือการทดลองหนึ่ง ๆ นั้น การพิจารณาว่าควรจะใช้แผนแบบการทดลอง
แบบใด สามารถพิจารณาหรือประเมินได้จากค่าประสิทธิภาพของแผนแบบการทดลอง (design
efficiency) ซึ่งค่าประสิทธิภาพของแผนแบบการทดลองเป็นค่าที่บ่งบอกถึงคุณสมบัติหลาย ๆ
คุณสมบัติของแผนแบบการทดลอง จากการศึกษาของ Borkowski และ Valeroso (2001) พบว่าใน
การคำนวณค่าประสิทธิภาพของแผนแบบนั้น จะต้องมียุคที่เหมาะสม (optimal values) ก่อน นั่นคือ
ค่าของเกณฑ์แผนแบบที่เหมาะสมของแต่ละแผนแบบการทดลองควรมีค่าใกล้เคียงกับค่าที่
เหมาะสมสำหรับแผนแบบการทดลองที่เหมาะสมในทางทฤษฎี สำหรับค่าประสิทธิภาพ D และ G
(D, G efficiencies) ค่าที่สูงจะบ่งชี้ว่าแผนแบบการทดลองนั้นเป็นแผนแบบที่ดี ส่วนค่า
ประสิทธิภาพ IV (IV criterion) ค่าที่ต่ำจะบ่งชี้ว่าแผนแบบการทดลองนั้นเป็นแผนแบบที่ด้อย

Borkowski และ Valeroso (2001) ทำการศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบขนาด
3, 4 และ 5 ตัวแปรในขอบเขตทรงลูกบาศก์ โดยใช้เกณฑ์ D, A, G และ IV สำหรับตัวแบบลดรูป
ต่อมา Chomtee (2003) ทำการศึกษาย้ายผลการวิจัยของ Borkowski และ Valeroso (2001) โดย
ศึกษาในขอบเขตทรงกลม เพื่อเปรียบเทียบแผนแบบพื้นผิวผลตอบขนาด 3 และ 4 ตัวแปร
($k = 3, 4$) สำหรับตัวแบบลดรูปเมื่อพิจารณาจากเกณฑ์ D, A, G และ IV โดยเปรียบเทียบแผนแบบ
Central composite, Box-Behnken, Small composite, Plackett-Burman, Uniform Shell และ
Hybrid

อย่างไรก็ตาม สำหรับการเปรียบเทียบแผนแบบพื้นผิวผลตอบขนาด 5 ตัวแปรสำหรับตัว
แบบลดรูปในขอบเขตทรงกลมนั้น จนกระทั่งปัจจุบัน ยังไม่มีผู้ใดทำการศึกษา ดังนั้น คณะผู้วิจัยจึงมี
ความประสงค์ที่จะศึกษาในเรื่องนี้ เพื่อที่จะสามารถตอบคำถามด้านแผนแบบพื้นผิวผลตอบใน
ขอบเขตทรงกลมที่สมบูรณ์ยิ่งขึ้น และสามารถนำผลการวิจัยที่ได้ไปประยุกต์ใช้กับงานวิจัยสาขา
ต่าง ๆ ได้อย่างกว้างขวางหลากหลายมากขึ้น ทั้งนี้เนื่องจากโดยส่วนใหญ่ในวงการวิศวกรรมศาสตร์
วิทยาศาสตร์ ได้แก่ ด้านเคมี ด้านฟิสิกส์ เป็นต้น ด้านอุตสาหกรรม อุตสาหกรรมเกษตร และด้าน
เกษตรกรรม นั้น การศึกษาวิจัย ค้นคว้า และการทำการทดลองเพื่อพัฒนาและปรับปรุงกระบวนการ

ต่างๆ มักจะเกี่ยวข้องกับปัจจัยขนาด 3, 4 และ 5 ตัวแปร ($k = 3, 4, 5$) ที่มีผลกระทบต่อตัวแปรผลตอบ (response variable) ซึ่งงานวิจัยในสาขาต่างๆ เหล่านี้ล้วนแล้วแต่ต้องอาศัยแผนแบบพื้นผิวผลตอบ (response surface design) และวิธีการวิเคราะห์พื้นผิวผลตอบ (response surface analysis) ช่วยในการวิเคราะห์ข้อมูลและการวางแผนการทดลองในการทำการวิจัยทั้งสิ้น

ดังนั้นโครงการวิจัยนี้ คณะผู้วิจัยจะทำการศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบขนาด 5 ตัวแปร ($k = 5$) ซึ่งประกอบด้วย Central composite design (CCDs) Box-Behnken design (BBDs) Small composite design (SCDs) Plackett-Burmann design (PBDs) และ Uniform Shell design (USDs) ในขอบเขตทรงกลม (Spherical region) โดยพิจารณาเกณฑ์แผนแบบที่เหมาะสม 3 วิธี คือ เกณฑ์ D, G และ IV และจะศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบในขอบเขตทรงกลม คือ CCDs, BBDs, SCDs, PBDs, USDs ขนาด 5 ปัจจัยกับ Variance Dispersion Graph (VDG) สำหรับ the full second order model และ reduced models

8. วัตถุประสงค์

คณะผู้วิจัยได้ตั้งวัตถุประสงค์สำหรับการวิจัยไว้ 2 ข้อคือ

1. เพื่อศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบในขอบเขตทรงกลม คือ CCDs, BBDs, SCDs, PBDs, USDs ขนาด 5 ปัจจัย กับเกณฑ์ที่เหมาะสม 3 วิธี คือ เกณฑ์ D, G และ IV บน the full second order model และบน reduced models โดยหลักการ hierarchy ของ Borkowski และ Valeroso (2001)
2. เพื่อศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบในขอบเขตทรงกลม คือ CCDs, BBDs, SCDs, PBDs, USDs ขนาด 5 ปัจจัย กับ Variance Dispersion Graph (VDG) สำหรับ the full second order model

9. ระเบียบวิธีวิจัย

9.1 ศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบในขอบเขตทรงกลม คือ CCDs, BBDs, SCDs, PBDs, และ USDs ขนาด 5 ปัจจัยกับเกณฑ์ที่เหมาะสม 3 แบบคือ เกณฑ์ D, G และ IV บน the full second order model และ reduced models

ขั้นตอนการวิจัย

- สร้างตัวแบบลดรูปโดยใช้หลักการ hierarchy
- สร้างเมตริกซ์แผนแบบ (design matrix) ในขอบเขตทรงกลม สำหรับแต่ละแผนการทดลองพื้นผิวผลตอบที่จะศึกษา โดยกำหนดการทำซ้ำในส่วนของ star points (r_s) เท่ากับ 1 และ 2 ซ้ำ และทำซ้ำในส่วนของ center points (n_0) เท่ากับ 0, 1 และ 3 ซ้ำ

- คำนวณเกณฑ์แผนแบบที่เหมาะสม 3 วิธี สำหรับตัวแบบลดรูป ดังนี้

$$D\text{-efficiency} = 100 \frac{|X'X|^{1/p}}{N}, G\text{-efficiency} = 100 \frac{p}{N\sigma_{\max}^2},$$

$$IV\text{-criterion} = N\sigma_{ave}^2$$

โดยที่ X คือ design matrix, p คือจำนวนพารามิเตอร์ในตัวแบบ, N คือขนาดของแผนแบบการทดลอง, $\sigma_{\max}^2$ คือค่าประมาณของ $f'(x)(X'X)^{-1}f(x)$ ที่สูงที่สุดบนเซตของค่าของ x ที่เป็นไปได้ และ σ_{ave}^2 คือค่าเฉลี่ยของ $f'(x)(X'X)^{-1}f(x)$ ที่ครอบคลุมขอบเขตที่เป็นไปได้ของแผนแบบ (design space) ซึ่งจะต้องคำนวณ IV-criterion จาก $\omega^{-1} \int V(x) dx$ เมื่อ $\omega = \int dx$ เป็นปริมาตรของ

ขอบเขตของ spherical response surface design

- วิเคราะห์ สรุปผลการวิจัย และทำรายงานผลการวิเคราะห์

9.2 ศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบในขอบเขตทรงกลม คือ CCDs, BBDs, SCDs, PBDs, และ USDs ขนาด 5 ปัจจัยกับ Variance Dispersion Graph (VDG) บน the full second order model ซึ่งจะช่วยให้ผู้ศึกษาทราบเกี่ยวกับความคงที่ของค่า Prediction Variance: $V(x) = N\text{Var}[\hat{y}(x)]/\sigma^2$ เมื่อ $\text{Var}[\hat{y}(x)] = f'(x)(X'X)^{-1}f(x)$ โดยที่ $f(x)$ เป็นฟังก์ชันแสดงตัวแปรที่มีอยู่ในตัวแบบ นั่นคือ สำหรับ the Full Second-order Model ($k=5$) จะได้ว่า $f'(x) = [1, x_1, x_2, \dots, x_5, x_{12}, x_{13}, \dots, x_{35}, x_{45}, x_1^2, \dots, x_5^2]$, X คือเมตริกซ์แผนแบบ (design matrix)

ขั้นตอนการวิจัย

- สำหรับ $k=5$ และ design matrix ในขอบเขตทรงกลมสำหรับแต่ละแผนการทดลองพื้นผิวผลตอบที่จะศึกษา โดยกำหนดการทำซ้ำในส่วนของ star points (r_s) เท่ากับ 1 และ 2 ซ้ำ และทำซ้ำในส่วนของ center points (n_0) เท่ากับ 0, 1 และ 3 ซ้ำ ทำการคำนวณ VDG สำหรับ the full second order model

- เพื่อความสะดวกในการเปรียบเทียบสำหรับทุก ๆ แผนแบบ จะคำนวณ Prediction Variance (PV) ในรูปของ Scaled Prediction Variance (SPV) ซึ่งเป็นการสเกลด้วยขนาดของแผนแบบ (N) สามารถคำนวณได้ดังนี้

$$SPV(x) = \frac{N\text{Var}[\hat{y}(x)]}{\sigma^2} = N f'(x)(X'X)^{-1}f(x)$$

เมื่อ X คือเมตริกซ์แผนแบบ (design matrix), N คือขนาดของแผนแบบ

- VDG ประกอบด้วยกราฟ 3 ส่วน ดังนี้

1. การพล็อต the spherical variance V^r against the radius r : ซึ่งเป็นการคำนวณ averaged spherical variance $V(x)$ บนพื้นผิวทรงกลมที่มี radius r ดังนี้

$$V^r = \frac{N\omega}{\sigma^2} \int_{U_r} \text{Var}[\hat{y}(\mathbf{x})] d\mathbf{x}$$

เมื่อ U_r เป็นการอินทิเกรตบนพื้นผิวทรงกลมที่มี radius r และ $\omega = (\int_{U_r} d\mathbf{x})^{-1}$

2. การพล็อต the maximum $V(x)$ บน radius r against r : ซึ่งคำนวณจาก

$$\max_{\mathbf{x} \in U_r} \left[\frac{N \text{Var}[\hat{y}(\mathbf{x})]}{\sigma^2} \right] = \max_{\mathbf{x} \in U_r} [V(\mathbf{x})]$$

3. การพล็อต the minimum $V(x)$ บน radius r against r

เมื่อ $V(\mathbf{x}) = \mathbf{f}'(\mathbf{x})(\mathbf{X}'\mathbf{X})^{-1}\mathbf{f}(\mathbf{x})$, $\mathbf{x} \in U_r$ และ $U_r = \left\{ \mathbf{x} : \sum_{i=1}^k x_i^2 = \rho^2 \right\}$, $\omega = \int_{U_r} d\mathbf{x} = \frac{2\rho^{k-1}(\sqrt{\pi})^k}{\Gamma\left(\frac{k}{2}\right)}$

โดยที่ เมื่อ k เป็นเลขคู่: $\Gamma\left(\frac{k}{2}\right)$ เท่ากับ $\left(\frac{k-2}{2}\right)!$ และ

$$\text{เมื่อ } k \text{ เป็นเลขคี่: } \Gamma\left(\frac{k}{2}\right) \text{ เท่ากับ } \frac{(k-2)(k-4)\cdots(3)(1)}{2^{(k-1)/2}} \sqrt{\pi}$$

- วิเคราะห์ VDG ซึ่งแสดงในรูปกราฟ 2 มิติ สรุปผลการวิจัย และจัดทำรายงานผลการวิเคราะห์วิจัย

10. ผลการศึกษา

สำหรับการเปรียบเทียบแผนแบบแต่ละคู่ นั้น จะแสดงค่าร้อยละที่ Design 1 ดีกว่า Design 2 เมื่อพิจารณาจากเกณฑ์ D, G, IV โดยที่ “ ดีกว่า ” หมายถึง ค่าความแตกต่างของเกณฑ์ที่พิจารณา มีค่ามากกว่าหรือเท่ากับศูนย์ สำหรับเกณฑ์ D และ G ส่วนเกณฑ์ IV นั้น จะหมายถึง ค่าความแตกต่างของเกณฑ์ IV มีค่าน้อยกว่าหรือเท่ากับศูนย์ และในกรณีที่ค่าเกณฑ์ที่พิจารณามีค่าเท่ากัน แสดงว่า Design 1 ดีกว่า Design 2 และ Design 2 ดีกว่า Design 1 ดังนั้น ในที่นี้เมื่อเกณฑ์ที่พิจารณาของทั้งสอง Designs มีค่าเท่ากัน แสดงว่าแต่ละ Design จะถูกพิจารณาว่า “ ดีกว่า ” อีก Design หนึ่ง ซึ่งอาจจะมีผลทำให้ผลรวมค่าร้อยละสามารถมีค่าเกิน 100% ได้ สำหรับการเปรียบเทียบ Design 1 กับ Design 2 หรือ การเปรียบเทียบ Design 2 กับ Design 1

ผลการศึกษาเปรียบเทียบแผนแบบอีกส่วนหนึ่ง จะแสดงในรูปแบบการจัดอันดับแผนแบบพื้นผิวผลตอบที่มีขนาดการทดลองที่เท่ากันหรือใกล้เคียงกัน โดยจัดอันดับ r_0, r_1, r_2, r_3 แต่ละแผนแบบจะถูกจัดอันดับจาก 1 ('ดีที่สุด') ถึง จำนวนของแผนแบบที่นำมาเปรียบเทียบกัน ('ไม่ดีที่สุด') เมื่ออันดับ r_0, r_1, r_2, r_3 แทน อันดับของแผนแบบนั้นๆ เมื่อเปรียบเทียบใน the full set of reduced models (839 ตัวแบบ), the set of reduced models with $q \geq 1$ (736 ตัวแบบ), the set of reduced models with $q \geq 2$ (525 ตัวแบบ), และ the set of reduced models with $q \geq 3$ (289 ตัวแบบ) ตามลำดับ ในกรณีที่มีค่าอันดับเท่ากัน จะใช้ค่าเฉลี่ยของอันดับแสดงการจัดอันดับให้แก่แผนแบบนั้นๆ

สำหรับเกณฑ์ IV มีแผนแบบพื้นผิวผลตอบบางแผนแบบที่ไม่สามารถคำนวณค่า IV ได้ เนื่องจากไม่สามารถหาค่าอินเวอร์สของ design matrix $\mathbf{X}$ ได้ (singular design matrix) ดังนั้นในการศึกษานี้ การเปรียบเทียบแผนแบบพื้นผิวผลตอบแต่ละคู่ จะเปรียบเทียบระหว่างแผนแบบพื้นผิวผลตอบและตัวแบบลดรูปที่สามารถคำนวณค่า IV ได้เท่านั้น

10.1 การเปรียบเทียบ Design Optimality Criteria สำหรับ the Full Second-order Model

สำหรับ the Full Second-order Model แสดงผลค่าเกณฑ์ D , G และ IV ในตารางที่ 1 และสรุปผลได้ดังนี้

1. เมื่อพิจารณาเกณฑ์ D พบว่า CCD ($r_s = 1, n_0 = 3$) เป็นแผนแบบพื้นผิวผลตอบที่เหมาะสมที่สุด โดยมีขนาดของแผนแบบเท่ากับ 45 ($N = 45$) รองลงมาคือ CCD ($r_s = 1, n_0 = 1, N = 43$)
2. เมื่อพิจารณาเกณฑ์ G พบว่า CCD ($r_s = 2, n_0 = 3$) เป็นแผนแบบพื้นผิวผลตอบที่เหมาะสมที่สุด โดยมีขนาดของแผนแบบเท่ากับ 55 ($N = 55$) รองลงมาคือ SCD ($r_s = 1, n_0 = 3, N = 29$)
3. เมื่อพิจารณาเกณฑ์ IV พบว่า SCD ($r_s = 1, n_0 = 3$) เป็นแผนแบบพื้นผิวผลตอบที่เหมาะสมที่สุด โดยมีขนาดของแผนแบบเท่ากับ 29 ($N = 29$) รองลงมาคือ BBD ($n_0 = 3, N = 43$)
4. การทำซ้ำที่ r_s มีแนวโน้มทำให้ค่า D และ G criteria ลดลง ยกเว้นสำหรับ CCD ($n_0 = 3$)

และมีแนวโน้มทำให้ค่า IV เพิ่มขึ้น ยกเว้นสำหรับ BBD

5. การทำซ้ำที่ n_0 มีแนวโน้มทำให้ค่า D และ G criteria เพิ่มขึ้น ยกเว้น D criterion สำหรับ

SCDs, PBDs และ USDs และ ยกเว้น G criterion สำหรับ PBD และมีแนวโน้มทำให้ค่า

IV ลดลง

ตารางที่ 1 Optimality Criteria สำหรับ the Full Second-order Model

Design	N	n_0	r_s	D -eff	G -eff	IV -eff
CCD	42	0	1	0	0	Singular Matrix
	43	1	1	80.159	48.837	62.0441
	45	3	1	80.710	85.964	29.1527
	52	0	2	0	0	Singular Matrix
	53	1	2	78.883	39.622	74.1056
	55	3	2	80.097	92.981	33.1745
BBD	40	0	-	0	0	Singular Matrix
	41	1	-	79.628	51.219	59.8097
	43	3	-	80.002	92.221	28.5402
SCD	26	0	1	0	0	Singular Matrix
	27	1	1	80.020	77.777	43.3044
	29	3	1	78.503	88.172	23.4557
	36	0	2	0	0	Singular Matrix
	37	1	2	73.127	56.756	56.7476
	39	3	2	73.103	74.115	28.8082
PBD	22	0	1	0	0	Singular Matrix
	23	1	1	60.065	22.458	Singular Matrix
	25	3	1	58.228	20.662	Singular Matrix
	32	0	2	0	0	Singular Matrix
	33	1	2	56.578	21.062	Singular Matrix
	35	3	2	56.210	19.858	Singular Matrix
USD	30	0	-	12.829	44.608	Singular Matrix
	31	1	-	65.455	1.500	Singular Matrix
	33	3	-	64.790	1.700	Singular Matrix

ตารางที่ 2 Design Optimality Criteria Comparison Ranking for $k = 5, n_0 = 1$ for the Full

Second-order Model

Designs Criterion	CCD ($N = 43$)	BBD ($N = 41$)	SCD ($N = 27$)	PBD ($N = 23$)	USD ($N = 31$)
D	1	3	2	5	4
G	3	2	1	4	5
IV	3	2	1	-	-

Note: - means cannot calculate the criterion because of singular design matrix.

ตารางที่ 3 Design Optimality Criteria Comparison Ranking for $k = 5, n_0 = 3$ for the Full

Second-order Model

Designs Criterion	CCD ($N = 45$)	BBD ($N = 43$)	SCD ($N = 29$)	PBD ($N = 25$)	USD ($N = 33$)
D	1	2	3	5	4
G	3	1	2	4	5
IV	3	2	1	-	-

Note: - means cannot calculate the criterion because of singular design matrix.

การเปรียบเทียบ Design Optimality Criteria สำหรับ Reduced Models

ตารางที่ 4 Design Criteria Comparison Ranking for $k = 5, N = 43$

Design Criterion	DESIGN	
	CCD ($n_0 = 1$)	BBD ($n_0 = 3$)
D	1,1,1,2	2,2,2,1
G	2,2,2,2	1,1,1,1
IV	2,2,2,2	1,1,1,1

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models except for IV criterion, I_1 = Rank across models ($q \geq 1$), I_2 = Rank across models ($q \geq 2$), I_3 = Rank across models ($q \geq 3$).

ตารางที่ 5 Design Criteria Comparison Ranking for $k = 5$, $N = 23, 27$

Design Criterion	DESIGN	
	PBD ($n_0 = 1$), $N = 23$	SCD ($n_0 = 1$), $N = 27$
D	2,2,2,2	1,1,1,1
G	2,2,2,2	1,1,1,1

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models, I_1 = Rank across models ($q \geq 1$),
 I_2 = Rank across models ($q \geq 2$), I_3 = Rank across models ($q \geq 3$).

ตารางที่ 6 Design Criteria Comparison Ranking for $k = 5$, $N = 25, 27$

Design Criterion	DESIGN	
	PBD ($n_0 = 3$), $N = 25$	SCD ($n_0 = 1$), $N = 27$
D	2,2,2,2	1,1,1,1
G	2,2,2,2	1,1,1,1

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models, I_1 = Rank across models ($q \geq 1$),
 I_2 = Rank across models ($q \geq 2$), I_3 = Rank across models ($q \geq 3$).

ตารางที่ 7 Design Criteria Comparison Ranking for $k = 5$, $N = 25, 29$

Design Criterion	DESIGN	
	PBD ($n_0 = 3$), $N = 25$	SCD ($n_0 = 3$), $N = 29$
D	2,2,2,2	1,1,1,1
G	2,2,2,2	1,1,1,1

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models, I_1 = Rank across models ($q \geq 1$),
 I_2 = Rank across models ($q \geq 2$), I_3 = Rank across models ($q \geq 3$).

ตารางที่ 8 Design Criteria Comparison Ranking for $k = 5$, $N = 31, 33$

Design Criterion	DESIGN	
	PBD ($r_s = 2, n_0 = 1$)	USD ($n_0 = 1$)
	$N = 33$	$N = 31$
D	2,2,2,2	1,1,1,1
G	2,2,2,1	1,1,1,2

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models, I_1 = Rank across models ($q \geq 1$),
 I_2 = Rank across models ($q \geq 2$), I_3 = Rank across models ($q \geq 3$).

ตารางที่ 9 Design Criteria Comparison Ranking for $k = 5$, $N = 33$

Design Criterion	DESIGN	
	PBD ($r_s = 2, n_0 = 1$)	USD ($n_0 = 3$)
	$N = 33$	$N = 33$
D	2,2,2,2	1,1,1,1
G	2,2,2,1	1,1,1,2

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models, I_1 = Rank across models ($q \geq 1$),
 I_2 = Rank across models ($q \geq 2$), I_3 = Rank across models ($q \geq 3$).

ตารางที่ 10 Design Criteria Comparison Ranking for $k = 5$, $N = 33, 35$

Design Criterion	DESIGN	
	PBD ($r_s = 2, n_0 = 3$)	USD ($n_0 = 3$)
	$N = 35$	$N = 33$
D	2,2,2,2	1,1,1,1
G	2,2,2,2	1,1,1,1

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models, I_1 = Rank across models ($q \geq 1$),
 I_2 = Rank across models ($q \geq 2$), I_3 = Rank across models ($q \geq 3$).

ตารางที่ 11 Design Criteria Comparison Ranking for $k = 5$, $N = 35, 37$

Design Criterion	DESIGN	
	PBD ($r_s = 2, n_0 = 3$)	SCD ($r_s = 2, n_0 = 1$)
	$N = 35$	$N = 37$
D	2,2,2,2	1,1,1,1
G	2,2,2,2	1,1,1,1

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models, I_1 = Rank across models ($q \geq 1$),
 I_2 = Rank across models ($q \geq 2$), I_3 = Rank across models ($q \geq 3$).

10.2 การเปรียบเทียบ Variance Dispersion Graphs(VDGs) สำหรับ the Full Second-order Model

พล็อต VDG ประกอบด้วย 3 เส้น คือ min SPV, average SPV และ max SPV ของแต่ละแผนแบบ โดยการพล็อตจะสิ้นสุดที่ radius $\sqrt{5}$ เนื่องจากทุกๆแผนแบบถูกสเกลให้มี radius เท่ากับ $\sqrt{5}$ จาก design center โดยมีแกน Y แทนค่า SPV แกน X แทนค่า radius และแกนอ้างอิงคือ จำนวนพารามิเตอร์ในตัวแบบ the Full Second-order Model เท่ากับ 21 ($p = 21$) และ VDG สำหรับการเปรียบเทียบแผนแบบพื้นผิวผลตอบ 5 ปัจจัยในขอบเขตทรงกลมเมื่อตัวแบบคือ the full second order แสดงใน Fig. 13 ถึง 18 ดังต่อไปนี้

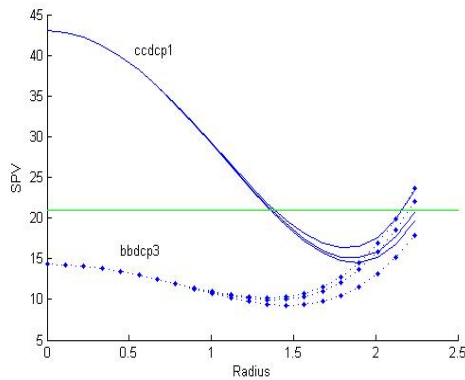


Fig.13 VDG for CCD ($n_0 = 1$) and
BBD ($n_0 = 3$)

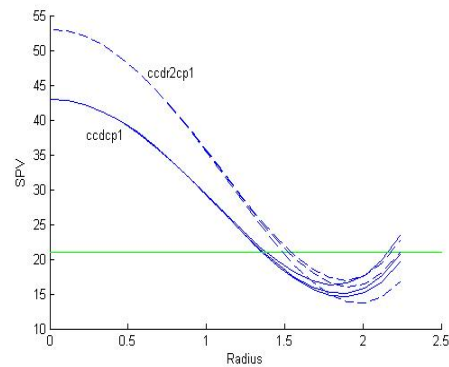


Fig.14 VDG for CCD ($r_s = 1, n_0 = 1$) and
CCD ($r_s = 2, n_0 = 1$)

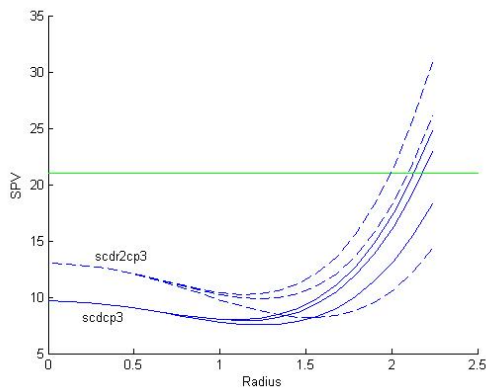


Fig.15 VDG for SCD ($r_s = 1, n_0 = 3$) and
SCD ($r_s = 2, n_0 = 3$)

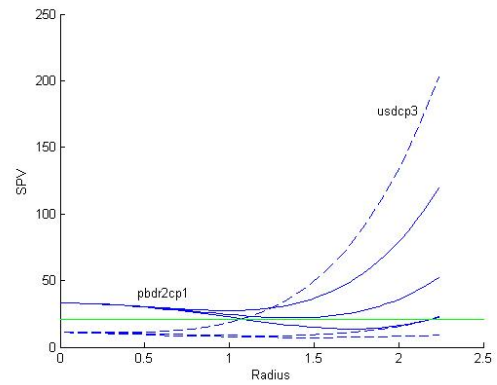


Fig.16 VDG for PBD ($r_s = 2, n_0 = 1$) and
USD ($n_0 = 3$)

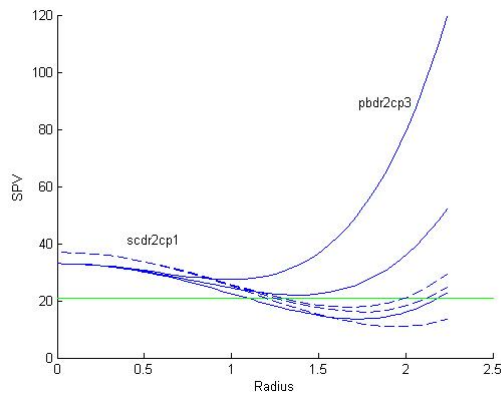


Fig.17 VDG for PBD ($r_s = 2, n_0 = 3$) and
SCD ($r_s = 2, n_0 = 1$)

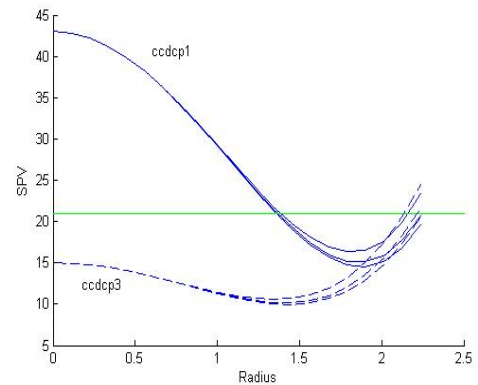


Fig.18 VDG for CCD ($r_s = 1, n_0 = 1$) and
CCD ($r_s = 1, n_0 = 3$)

ผลการเปรียบเทียบ CCD ($n_0 = 1$) และ BBD ($n_0 = 3$) จาก Fig.13 พบว่า

1. ที่ขนาดการทดลองเท่ากัน $N = 43$, BBD มี minimum และ maximum prediction ที่ต่ำกว่า หรือ ดีกว่า CCD โดย minimum SPV ของ BBD เกิดขึ้นที่ radius อยู่ระหว่าง 1 และ 1.7 ในขณะที่ minimum SPV ของ CCD เกิดขึ้นที่ radius อยู่ระหว่าง 1.5 และ 2
2. สำหรับ BBD ค่า maximum $V(x)$ ใน design region ประมาณ 23 ในขณะที่ค่า maximum $V(x)$ สำหรับ CCD ประมาณ 43 ดังนั้น G -efficiencies สำหรับ BBD และ CCD เท่ากับ $p / \text{Max} V(x) = (21 / 23) \times 100\% = 91.3\%$, $(21 / 43) \times 100\% = 48.8\%$ ตามลำดับ ซึ่งสอดคล้องกับข้อมูลในตารางที่ 1

3. BBD มีความคงที่ของค่า Prediction Variance มากกว่า CCD

ผลการเปรียบเทียบ **CCD** ($r_s = 1, n_0 = 1, N = 43$) และ **CCD** ($r_s = 2, n_0 = 1, N = 53$) จาก Fig.14 พบว่า

1. CCD ($r_s = 1, n_0 = 1, N = 43$) มี maximum prediction ที่ต่ำกว่า หรือดีกว่า CCD ($r_s = 2, n_0 = 1, N = 53$)

2. CCD ($r_s = 1, n_0 = 1$) มีความคงที่ของค่า Prediction Variance มากกว่า CCD ($r_s = 2, n_0 = 1$)

ซึ่งให้ผลสอดคล้องกับการเปรียบเทียบ SCD ($r_s = 1, n_0 = 3, N = 29$) และ SCD ($r_s = 2, n_0 = 3, N = 39$)

จาก Fig. 15

ผลการเปรียบเทียบ **PBD** ($r_s = 2, n_0 = 1, N = 33$) และ **USD** ($n_0 = 3, N = 33$) จาก Fig.16 พบว่า

1. ที่ขนาดการทดลองเท่ากัน $N = 33$, USD มี minimum prediction ที่ต่ำกว่าหรือดีกว่า PBD โดย minimum SPV ของ USD เกิดขึ้นที่ radius อยู่ระหว่าง 1 และ 2 ในขณะที่ minimum SPV ของ PBD เกิดขึ้นที่ radius อยู่ระหว่าง 1.5 และ 2 และ PBD มี maximum prediction ที่ต่ำกว่าหรือดีกว่า USD ดังนั้นเมื่อพิจารณาเกณฑ์ G จะพบว่า PBD เป็นแผนแบบที่ดีกว่า USD ซึ่งสอดคล้องกับข้อมูลในตารางที่ 1

2. PBD มีความคงที่ของค่า Prediction Variance มากกว่า USD

ผลการเปรียบเทียบ **PBD** ($r_s = 2, n_0 = 3, N = 35$) และ **SCD** ($r_s = 2, n_0 = 1, N = 37$) จาก Fig.17 พบว่า

1. SCD มี minimum และ maximum prediction ที่ต่ำกว่าหรือดีกว่า PBD โดย minimum SPV ของ SCD และ ของ PBD เกิดขึ้นที่ radius อยู่ระหว่าง 1.5 และ 2

2. SCD มี maximum prediction ที่ต่ำกว่าหรือดีกว่า PBD ดังนั้นเมื่อพิจารณาเกณฑ์ G จะพบว่า SCD เป็นแผนแบบที่ดีกว่า PBD ซึ่งสอดคล้องกับข้อมูลในตารางที่ 1

3. SCD มีความคงที่ของค่า Prediction Variance มากกว่า PBD

ผลการเปรียบเทียบ CCD ($r_s = 1, n_0 = 1, N = 43$) และ CCD ($r_s = 1, n_0 = 3, N = 45$) จาก Fig.18 พบว่า

1. CCD ($r_s = 1, n_0 = 1$) มี minimum prediction ที่ต่ำกว่าหรือดีกว่า CCD ($r_s = 1, n_0 = 3$) และมี maximum prediction ที่สูงกว่า CCD ($r_s = 1, n_0 = 3$) โดย minimum SPV ของ CCD ($r_s = 1, n_0 = 1$) เกิดขึ้นที่ radius อยู่ระหว่าง 1.5 และ 2 และของ CCD ($r_s = 1, n_0 = 3$) เกิดขึ้นที่ radius อยู่ระหว่าง 1.2 และ 1.7
2. CCD ($r_s = 1, n_0 = 3$) มี maximum prediction ที่ต่ำกว่าหรือดีกว่า CCD ($r_s = 1, n_0 = 1$) ดังนั้นเมื่อพิจารณาเกณฑ์ G จะพบว่า CCD ($r_s = 1, n_0 = 3$) เป็นแผนแบบที่ดีกว่า CCD ($r_s = 1, n_0 = 1$) ซึ่งสอดคล้องกับข้อมูลในตารางที่ 1
3. CCD ($r_s = 1, n_0 = 3$) มีความคงที่ของค่า Prediction Variance มากกว่า CCD ($r_s = 1, n_0 = 1$)

ความสำคัญและที่มาของปัญหา

วิธีการพื้นผิวผลตอบ (Response Surface Methodology--RSM) เป็นการรวมเทคนิคทางคณิตศาสตร์และทางสถิติและนำมาประยุกต์ใช้ในการพัฒนา ปรับปรุงกระบวนการ (processes) หรือการทดลองเพื่อให้ได้ค่าผลตอบที่ต้องการ ซึ่งค่าผลตอบนี้อาจจะเป็นค่ามากที่สุด (maximum response) ค่าต่ำที่สุด (minimum response) หรือค่าที่เหมาะสม (optimum response) ซึ่งขั้นตอนการปรับปรุงกระบวนการต่างๆ นั้นมีความสำคัญอย่างมากในการพัฒนาผลิตภัณฑ์ใหม่ๆ อีกทั้งมีการนำวิธีการพื้นผิวผลตอบมาใช้ในการสร้างตัวแบบที่เหมาะสมและช่วยในการวิเคราะห์ปัญหาด้านวิทยาศาสตร์อย่างกว้างขวางเช่น ด้านการเกษตร อุตสาหกรรม ฟิสิกส์ และเคมี เป็นต้น โดยปัญหาที่ต้องการวิเคราะห์นั้นมักขึ้นอยู่กับปัจจัยหลายๆ ปัจจัยและปัจจัยเหล่านั้นมีหลายระดับ โดยมีวัตถุประสงค์เพื่อหาค่าผลตอบที่ดีที่สุด

ตัวแบบลดรูป (Reduced Models) ในการวิเคราะห์ด้านพื้นผิวผลตอบนั้น นิยมใช้แผนการทดลองพื้นผิวผลตอบกับตัวแบบกำลังสอง (the second order model) ซึ่งผลการวิจัยโดยทั่วไปมักพบว่าตัวแบบสุดท้ายที่จะนำไปใช้นั้น จะไม่อยู่ในรูปของตัวแบบกำลังสองเต็ม (the full second order model) แต่จะอยู่ในรูปของตัวแบบลดรูป โดยที่ the full second order model เขียนได้เป็น

$$y = \beta_0 + \sum_{i=1}^k \beta_i x_i + \sum_{i=1}^k \beta_{ii} x_i^2 + \sum_{1 \leq i < j}^k \beta_{ij} x_i x_j + \varepsilon$$

และ the full second order model นี้จะมีจำนวนพารามิเตอร์ (p) เท่ากับ $\binom{k+2}{2}$; k คือจำนวน

ปัจจัยที่ศึกษา ดังนั้น จะเป็นประโยชน์อย่างมาก ถ้าจะมีการศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบโดยการพิจารณาครอบคลุมตัวแบบกำลังสองทุกรูปแบบที่เป็นไปได้ทั้งหมด ถ้าให้ “1” และ “0” แทนการปรากฏและไม่ปรากฏเทอมของ x_i ในตัวแบบ ตามลำดับ และให้ l, c, q แทน linear, cross-product, quadratic terms ในตัวแบบ ตามลำดับ และสร้างตัวแบบที่มีการลดรูปด้วยหลักการ hierarchy ดังนี้ (i) ถ้าในตัวแบบมี x_i^2 แล้ว ตัวแบบนั้นต้องมี x_i และ (ii) ถ้าในตัวแบบมี $x_i x_j$ แล้ว ตัวแบบนั้นต้องมี x_i และ/หรือ x_j ดังนั้นจากหลักการดังกล่าวสร้างตัวแบบลดรูปสำหรับขนาด 5 ปัจจัยแล้ว จะได้ตัวแบบจำนวน 839 ตัวแบบ ดังนี้

ตัวแบบลดรูป ($k = 5$)

Dsgn	p	dv	l	c	q	x_1	x_2	x_3	x_4	x_5	x_1^2	x_2^2	x_3^2	x_4^2	x_5^2
1	21	5	5	10	5	1	1	1	1	1	1	1	1	1	1
2	20	5	5	9	5	1	1	1	1	1	1	1	1	1	1
3	20	5	5	10	4	1	1	1	1	1	0	1	1	1	1
4	19	5	4	10	4	0	1	1	1	1	0	1	1	1	1
5	19	5	5	8	5	1	1	1	1	1	1	1	1	1	1
6	19	5	5	8	5	1	1	1	1	1	1	1	1	1	1
7	19	5	5	9	4	1	1	1	1	1	0	1	1	1	1
8	19	5	5	9	4	1	1	1	1	1	1	1	1	1	0
9	19	5	5	10	3	1	1	1	1	1	0	0	1	1	1
10	18	5	4	9	4	0	1	1	1	1	0	1	1	1	1
11	18	5	4	10	3	0	1	1	1	1	0	0	1	1	1
12	18	5	5	7	5	1	1	1	1	1	1	1	1	1	1

13	18	5	5	7	5	1	1	1	1	1	1	1	1	1
14	18	5	5	7	5	1	1	1	1	1	1	1	1	1
15	18	5	5	8	4	1	1	1	1	1	0	1	1	1
16	18	5	5	8	4	1	1	1	1	1	1	0	1	1
17	18	5	5	8	4	1	1	1	1	1	0	1	1	1
18	18	5	5	8	4	1	1	1	1	1	1	1	0	1
19	18	5	5	8	4	1	1	1	1	1	1	1	1	0
20	18	5	5	9	3	1	1	1	1	1	0	0	1	1
21	18	5	5	9	3	1	1	1	1	1	0	1	0	1
22	18	5	5	9	3	1	1	1	1	1	1	1	0	0
23	18	5	5	10	2	1	1	1	1	1	0	0	0	1
24	17	5	4	8	4	0	1	1	1	1	0	1	1	1
25	17	5	4	8	4	0	1	1	1	1	0	1	1	1
26	17	5	4	9	3	0	1	1	1	1	0	0	1	1
27	17	5	4	9	3	0	1	1	1	1	0	1	0	1
28	17	5	4	9	3	0	1	1	1	1	0	1	1	0
29	17	5	4	10	2	0	1	1	1	1	0	0	0	1
30	17	5	5	6	5	1	1	1	1	1	1	1	1	1
31	17	5	5	6	5	1	1	1	1	1	1	1	1	1
32	17	5	5	7	4	1	1	1	1	1	0	1	1	1
33	17	5	5	7	4	1	1	1	1	1	1	0	1	1
34	17	5	5	7	4	1	1	1	1	1	1	1	1	0
35	17	5	5	7	4	1	1	1	1	1	0	1	1	1
36	17	5	5	7	4	1	1	1	1	1	1	1	1	0
37	17	5	5	7	4	1	1	1	1	1	0	1	1	1
38	17	5	5	7	4	1	1	1	1	1	1	0	1	1
39	17	5	5	7	4	1	1	1	1	1	1	1	1	0
40	17	5	5	8	3	1	1	1	1	1	0	0	1	1
41	17	5	5	8	3	1	1	1	1	1	0	1	1	0
42	17	5	5	8	3	1	1	1	1	1	1	0	0	1
43	17	5	5	8	3	1	1	1	1	1	1	0	1	0
44	17	5	5	6	5	1	1	1	1	1	1	1	1	1
45	17	5	5	8	3	1	1	1	1	1	0	0	1	1
46	17	5	5	8	3	1	1	1	1	1	0	1	0	1
47	17	5	5	8	3	1	1	1	1	1	0	1	1	0
48	17	5	5	9	2	1	1	1	1	1	0	0	0	1
49	17	5	5	9	2	1	1	1	1	1	0	1	0	0
50	17	5	5	9	2	1	1	1	1	1	1	1	0	0
51	17	5	5	10	1	1	1	1	1	1	0	0	0	0
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792	6	5	5	0	0	1	1	1	1	1	0	0	0	0	0
793	6	4	1	3	1	0	0	0	0	1	0	0	0	0	1
794	6	4	1	3	1	0	0	0	0	1	0	0	0	0	1
795	6	4	1	3	1	0	0	0	0	1	0	0	0	0	1
796	6	4	2	3	0	0	0	0	1	1	0	0	0	0	0

797	6	4	3	1	1	0	0	1	1	1	0	0	0	0	1
798	6	4	3	1	1	0	0	1	1	1	0	0	1	0	0
799	6	4	4	0	1	0	1	1	1	1	0	0	0	0	1
800	6	4	4	1	0	0	1	1	1	1	0	0	0	0	0
801	6	4	4	1	0	0	1	1	1	1	0	0	0	0	0
802	6	3	2	2	1	0	0	0	1	1	0	0	0	0	1
803	6	3	2	2	1	0	0	0	1	1	0	0	0	1	0
804	6	3	2	3	0	0	0	0	1	1	0	0	0	0	0
805	6	3	3	0	2	0	0	1	1	1	0	0	0	1	1
806	6	3	3	1	1	0	0	1	1	1	0	0	0	0	1
807	6	3	3	1	1	0	0	1	1	1	0	0	1	0	0
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809	6	2	2	1	2	0	0	0	1	1	0	0	0	1	1
810	5	4	1	3	0	0	0	0	0	1	0	0	0	0	0
811	5	4	1	3	0	0	0	0	0	1	0	0	0	0	0
812	5	4	1	3	0	0	0	0	0	1	0	0	0	0	0
813	5	4	3	1	0	0	0	1	1	1	0	0	0	0	0
814	5	4	4	0	0	0	1	1	1	1	0	0	0	0	0
815	5	3	1	2	1	0	0	0	0	1	0	0	0	0	1
816	5	3	1	2	1	0	0	0	0	1	0	0	0	0	1
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819	5	3	1	2	1	0	0	0	0	1	0	0	0	0	1
820	5	3	2	2	0	0	0	0	1	1	0	0	0	0	0
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822	5	3	3	1	0	0	0	1	1	1	0	0	0	0	0
823	5	2	2	0	2	0	0	0	1	1	0	0	0	1	1
824	5	2	2	1	1	0	0	0	1	1	0	0	0	0	1
825	5	2	2	1	1	0	0	0	1	1	0	0	0	1	0
826	4	3	1	2	0	0	0	0	0	1	0	0	0	0	0
827	4	3	1	2	0	0	0	0	0	1	0	0	0	0	0
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829	4	3	1	2	0	0	0	0	0	1	0	0	0	0	0
830	4	3	1	2	0	0	0	0	0	1	0	0	0	0	0
831	4	3	3	0	0	0	0	1	1	1	0	0	0	0	0
832	4	2	1	1	1	0	0	0	0	1	0	0	0	0	1
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834	4	2	2	0	1	0	0	0	1	1	0	0	0	1	0
835	4	2	2	1	0	0	0	0	1	1	0	0	0	0	0
836	3	2	1	1	0	0	0	0	0	1	0	0	0	0	0
837	3	2	2	0	0	0	0	0	1	1	0	0	0	0	0
838	3	1	1	0	1	0	0	0	0	1	0	0	0	0	1
839	2	1	1	0	0	0	0	0	0	1	0	0	0	0	0

เมื่อ p คือจำนวนพารามิเตอร์ในตัวแบบ และ dv คือจำนวนตัวแปรแผนแบบ(design variables)

ตัวแบบลดรูป($k = 5$)

Dsgn	p	dv	l	c	q	x_{12}	x_{13}	x_{14}	x_{15}	x_{23}	x_{24}	x_{25}	x_{34}	x_{35}	x_{45}
1	21	5	5	10	5	1	1	1	1	1	1	1	1	1	1
2	20	5	5	9	5	0	1	1	1	1	1	1	1	1	1
3	20	5	5	10	4	1	1	1	1	1	1	1	1	1	1
4	19	5	4	10	4	1	1	1	1	1	1	1	1	1	1
5	19	5	5	8	5	0	0	1	1	1	1	1	1	1	1
6	19	5	5	8	5	0	1	1	1	1	1	1	1	1	0
7	19	5	5	9	4	0	1	1	1	1	1	1	1	1	1
8	19	5	5	9	4	0	1	1	1	1	1	1	1	1	1
9	19	5	5	10	3	1	1	1	1	1	1	1	1	1	1
10	18	5	4	9	4	0	1	1	1	1	1	1	1	1	1
11	18	5	4	10	3	1	1	1	1	1	1	1	1	1	1
12	18	5	5	7	5	0	0	0	1	1	1	1	1	1	1
13	18	5	5	7	5	0	0	1	1	0	1	1	1	1	1
14	18	5	5	7	5	0	0	1	1	1	1	1	1	1	0
15	18	5	5	8	4	0	0	1	1	1	1	1	1	1	1
16	18	5	5	8	4	0	0	1	1	1	1	1	1	1	1
17	18	5	5	8	4	0	1	1	1	1	1	1	1	1	0
18	18	5	5	8	4	0	1	1	1	1	1	1	1	1	0
19	18	5	5	8	4	0	1	1	1	1	1	1	1	1	0
20	18	5	5	9	3	0	1	1	1	1	1	1	1	1	1
21	18	5	5	9	3	0	1	1	1	1	1	1	1	1	1
22	18	5	5	9	3	0	1	1	1	1	1	1	1	1	1
23	18	5	5	10	2	1	1	1	1	1	1	1	1	1	1
24	17	5	4	8	4	0	0	1	1	1	1	1	1	1	1
25	17	5	4	8	4	0	1	1	1	1	1	1	1	1	0
26	17	5	4	9	3	0	1	1	1	1	1	1	1	1	1
27	17	5	4	9	3	0	1	1	1	1	1	1	1	1	1
28	17	5	4	9	3	0	1	1	1	1	1	1	1	1	1
29	17	5	4	10	2	1	1	1	1	1	1	1	1	1	1
30	17	5	5	6	5	0	0	0	0	1	1	1	1	1	1
31	17	5	5	6	5	0	0	0	1	0	1	1	1	1	1
32	17	5	5	7	4	0	0	0	1	1	1	1	1	1	1
33	17	5	5	7	4	0	0	0	1	1	1	1	1	1	1
34	17	5	5	7	4	0	0	0	1	1	1	1	1	1	1
35	17	5	5	7	4	0	0	1	1	0	1	1	1	1	1
36	17	5	5	7	4	0	0	1	1	0	1	1	1	1	1
37	17	5	5	7	4	0	0	1	1	1	1	1	1	1	0
38	17	5	5	7	4	0	0	1	1	1	1	1	1	1	0
39	17	5	5	7	4	0	0	1	1	1	1	1	1	1	0
40	17	5	5	8	3	0	0	1	1	1	1	1	1	1	1
41	17	5	5	8	3	0	0	1	1	1	1	1	1	1	1
42	17	5	5	8	3	0	0	1	1	1	1	1	1	1	1
43	17	5	5	8	3	0	0	1	1	1	1	1	1	1	1
44	17	5	5	6	5	0	1	1	1	0	1	1	0	1	0
45	17	5	5	8	3	0	1	1	1	1	1	1	1	1	0
46	17	5	5	8	3	0	1	1	1	1	1	1	1	1	0
47	17	5	5	8	3	0	1	1	1	1	1	1	1	1	0

48	17	5	5	9	2	0	1	1	1	1	1	1	1	1	1
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50	17	5	5	9	2	0	1	1	1	1	1	1	1	1	1
51	17	5	5	10	1	1	1	1	1	1	1	1	1	1	1
52	16	5	3	9	3	0	1	1	1	1	1	1	1	1	1
53	16	5	4	7	4	0	0	0	1	1	1	1	1	1	1
54	16	5	4	7	4	0	0	1	1	0	1	1	1	1	1
55	16	5	4	7	4	0	0	1	1	1	1	1	1	1	0
56	16	5	4	8	3	0	0	1	1	1	1	1	1	1	1
57	16	5	4	8	3	0	0	1	1	1	1	1	1	1	1
58	16	5	4	8	3	0	1	1	1	1	1	1	1	1	0
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60	16	5	4	8	3	0	1	1	1	1	1	1	1	1	0
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63	16	5	4	10	1	1	1	1	1	1	1	1	1	1	1
64	16	5	5	5	5	0	0	0	0	0	1	1	1	1	1
65	16	5	5	6	4	0	0	0	0	1	1	1	1	1	1
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75	16	5	5	7	3	0	0	0	1	1	1	1	1	1	1
76	16	5	5	7	3	0	0	0	1	1	1	1	1	1	1
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87	16	5	5	8	2	0	0	1	1	1	1	1	1	1	1
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92	16	5	5	6	4	0	1	1	1	0	1	1	0	1	0
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94	16	5	5	8	2	0	1	1	1	1	1	1	1	1	0
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96	16	5	5	8	2	0	1	1	1	1	1	1	1	1	0

97	16	5	5	8	2	0	1	1	1	1	1	1	1	0
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99	16	5	5	9	1	0	1	1	1	1	1	1	1	1
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101	15	5	3	8	3	0	0	1	1	1	1	1	1	1
102	15	5	3	8	3	0	1	1	1	1	1	1	1	0
103	15	5	3	9	2	0	1	1	1	1	1	1	1	1
104	15	5	3	9	2	0	1	1	1	1	1	1	1	1
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108	15	5	4	7	3	0	0	1	1	0	1	1	1	1
109	15	5	4	7	3	0	0	1	1	0	1	1	1	1
110	15	5	4	7	3	0	0	1	1	1	1	1	1	0
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113	15	5	4	8	2	0	0	1	1	1	1	1	1	1
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117	15	5	4	8	2	0	1	1	1	1	1	1	1	0
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125	15	5	5	4	5	0	0	0	0	0	1	1	1	0
126	15	5	5	5	4	0	0	0	0	0	1	1	1	1
127	15	5	5	5	4	0	0	0	0	0	1	1	1	1
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133	15	5	5	5	4	0	0	0	1	0	0	1	1	1
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141	15	5	5	6	3	0	0	0	1	0	1	1	1	1
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144	15	5	5	6	3	0	0	0	1	0	1	1	1	1
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148	15	5	5	7	2	0	0	0	1	1	1	1	1	1	1
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155	15	5	5	7	2	0	0	1	1	0	1	1	1	1	1
156	15	5	5	5	4	0	0	1	1	1	0	1	1	0	0
157	15	5	5	7	2	0	0	1	1	1	1	1	1	1	0
158	15	5	5	7	2	0	0	1	1	1	1	1	1	1	0
159	15	5	5	7	2	0	0	1	1	1	1	1	1	1	0
160	15	5	5	7	2	0	0	1	1	1	1	1	1	1	0
161	15	5	5	8	1	0	0	1	1	1	1	1	1	1	1
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164	15	5	5	6	3	0	1	1	1	0	1	1	0	1	0
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166	15	5	5	6	3	0	1	1	1	0	1	1	0	1	0
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171	15	4	4	6	4	0	0	0	0	1	1	1	1	1	1
172	14	5	3	7	3	0	0	0	1	1	1	1	1	1	1
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174	14	5	3	7	3	0	0	1	1	1	1	1	1	1	0
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176	14	5	3	8	2	0	0	1	1	1	1	1	1	1	1
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180	14	5	4	5	4	0	0	0	1	0	0	1	1	1	1
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182	14	5	4	5	4	0	0	0	1	0	1	1	1	1	0
183	14	5	4	6	3	0	0	0	1	0	1	1	1	1	1
184	14	5	4	6	3	0	0	0	1	0	1	1	1	1	1
185	14	5	4	6	3	0	0	0	1	0	1	1	1	1	1
186	14	5	4	7	2	0	0	0	1	1	1	1	1	1	1
187	14	5	4	7	2	0	0	0	1	1	1	1	1	1	1
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192	14	5	4	7	2	0	0	1	1	0	1	1	1	1	1
193	14	5	4	5	4	0	0	1	1	1	0	1	1	0	0
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688	9	4	3	3	2	0	0	0	0	0	0	1	1	0	1
689	9	4	3	3	2	0	0	0	0	0	0	1	1	0	1
690	9	4	3	4	1	0	0	0	0	0	0	1	1	1	1
691	9	4	3	4	1	0	0	0	0	0	0	1	1	1	1
692	9	4	3	4	1	0	0	0	0	0	1	1	1	1	0
693	9	4	3	4	1	0	0	0	0	0	1	1	1	1	0
694	9	4	3	5	0	0	0	0	0	0	1	1	1	1	1
695	9	4	4	0	4	0	0	0	0	0	0	0	0	0	0
696	9	4	4	1	3	0	0	0	0	0	0	0	0	0	1
697	9	4	4	1	3	0	0	0	0	0	0	0	0	0	1
698	9	4	4	2	2	0	0	0	0	0	0	0	0	1	1
699	9	4	4	2	2	0	0	0	0	0	0	0	0	1	1
700	9	4	4	2	2	0	0	0	0	0	0	0	0	1	1
701	9	4	4	2	2	0	0	0	0	0	0	0	0	1	1
702	9	4	4	3	1	0	0	0	0	0	0	0	1	1	1
703	9	4	4	3	1	0	0	0	0	0	0	0	1	1	1
704	9	4	4	3	1	0	0	0	0	0	0	1	1	0	1
705	9	4	4	3	1	0	0	0	0	0	0	1	1	0	1
706	9	4	4	3	1	0	0	0	0	0	0	1	1	0	1
707	9	4	4	3	1	0	0	0	0	0	0	1	1	0	1
708	9	4	4	4	0	0	0	0	0	0	0	1	1	1	1
709	9	4	4	4	0	0	0	0	0	0	1	1	1	1	0
710	9	4	4	1	3	0	0	0	0	1	0	0	0	0	0
711	9	4	4	1	3	0	0	0	0	1	0	0	0	0	0
712	9	4	4	1	3	0	0	0	0	1	0	0	0	0	0
713	9	3	3	2	3	0	0	0	0	0	0	0	0	1	1
714	9	3	3	3	2	0	0	0	0	0	0	0	1	1	1
715	9	3	3	3	2	0	0	0	0	0	0	0	1	1	1
716	8	5	2	5	0	0	0	0	1	0	0	1	1	1	1
717	8	5	2	3	2	0	0	0	1	0	1	0	0	1	0
718	8	5	2	4	1	0	0	0	1	0	1	0	1	1	0
719	8	5	2	4	1	0	0	0	1	0	1	0	1	1	0
720	8	5	2	5	0	0	0	0	1	0	1	0	1	1	1
721	8	5	2	5	0	0	0	0	1	0	1	1	1	1	0
722	8	5	2	4	1	0	0	1	1	0	0	1	1	0	0
723	8	5	2	5	0	0	0	1	1	0	1	1	0	1	0
724	8	5	3	3	1	0	0	0	1	0	1	0	0	1	0
725	8	5	3	4	0	0	0	0	1	0	1	0	1	1	0
726	8	5	4	3	0	0	0	0	1	0	1	0	0	1	0
727	8	5	5	0	2	0	0	0	0	0	0	0	0	0	0
728	8	5	5	1	1	0	0	0	0	0	0	0	0	0	1
729	8	5	5	1	1	0	0	0	0	0	0	0	0	0	1
730	8	5	5	2	0	0	0	0	0	0	0	0	0	1	1
731	8	5	5	1	1	0	0	0	0	1	0	0	0	0	0
732	8	5	5	1	1	0	0	0	0	1	0	0	0	0	0
733	8	4	2	3	2	0	0	0	0	0	0	1	1	0	1

734	8	4	2	4	1	0	0	0	0	0	0	1	1	1	1
735	8	4	2	4	1	0	0	0	0	0	0	1	1	1	1
736	8	4	2	4	1	0	0	0	0	0	1	1	1	1	0
737	8	4	2	5	0	0	0	0	0	0	1	1	1	1	1
738	8	4	3	3	1	0	0	0	0	0	0	1	1	0	1
739	8	4	3	3	1	0	0	0	0	0	0	1	1	0	1
740	8	4	3	3	1	0	0	0	0	0	0	1	1	0	1
741	8	4	3	4	0	0	0	0	0	0	0	1	1	1	1
742	8	4	3	4	0	0	0	0	0	0	1	1	1	1	0
743	8	4	3	1	3	0	0	0	0	1	0	0	0	0	0
744	8	4	4	0	3	0	0	0	0	0	0	0	0	0	0
745	8	4	4	1	2	0	0	0	0	0	0	0	0	0	1
746	8	4	4	1	2	0	0	0	0	0	0	0	0	0	1
747	8	4	4	1	2	0	0	0	0	0	0	0	0	0	1
748	8	4	4	2	1	0	0	0	0	0	0	0	0	1	1
749	8	4	4	2	1	0	0	0	0	0	0	0	0	1	1
750	8	4	4	3	0	0	0	0	0	0	0	0	1	1	1
751	8	4	4	3	0	0	0	0	0	0	0	1	1	0	1
752	8	4	4	1	2	0	0	0	0	1	0	0	0	0	0
753	8	4	4	1	2	0	0	0	0	1	0	0	0	0	0
754	8	4	4	1	2	0	0	0	0	1	0	0	0	0	0
755	8	3	2	3	2	0	0	0	0	0	0	0	1	1	1
756	8	3	3	1	3	0	0	0	0	0	0	0	0	0	1
757	8	3	3	2	2	0	0	0	0	0	0	0	0	1	1
758	8	3	3	2	2	0	0	0	0	0	0	0	0	1	1
759	8	3	3	3	1	0	0	0	0	0	0	0	1	1	1
760	7	5	1	4	1	0	0	0	1	0	0	1	0	1	1
761	7	5	2	3	1	0	0	0	1	0	1	0	0	1	0
762	7	5	2	3	1	0	0	0	1	0	1	0	0	1	0
763	7	5	2	4	0	0	0	0	1	0	1	0	1	1	0
764	7	5	2	4	0	0	0	1	1	0	0	1	1	0	0
765	7	5	3	3	0	0	0	0	1	0	1	0	0	1	0
766	7	5	5	0	1	0	0	0	0	0	0	0	0	0	0
767	7	5	5	1	0	0	0	0	0	0	0	0	0	0	1
768	7	5	5	1	0	0	0	0	0	1	0	0	0	0	0
769	7	4	2	3	1	0	0	0	0	0	0	1	1	0	1
770	7	4	2	3	1	0	0	0	0	0	0	1	1	0	1
771	7	4	2	4	0	0	0	0	0	0	0	1	1	1	1
772	7	4	2	4	0	0	0	0	0	0	1	1	1	1	0
773	7	4	3	3	0	0	0	0	0	0	0	1	1	0	1
774	7	4	3	1	2	0	0	0	0	1	0	0	0	0	0
775	7	4	3	1	2	0	0	0	0	1	0	0	0	0	0
776	7	4	4	0	2	0	0	0	0	0	0	0	0	0	0
777	7	4	4	1	1	0	0	0	0	0	0	0	0	0	1
778	7	4	4	2	0	0	0	0	0	0	0	0	0	1	1
779	7	4	4	1	1	0	0	0	0	1	0	0	0	0	0
780	7	3	2	2	2	0	0	0	0	0	0	0	0	1	1
781	7	3	2	3	1	0	0	0	0	0	0	0	1	1	1
782	7	3	2	3	1	0	0	0	0	0	0	0	1	1	1

783	7	3	3	0	3	0	0	0	0	0	0	0	0	0	0
784	7	3	3	1	2	0	0	0	0	0	0	0	0	0	1
785	7	3	3	1	2	0	0	0	0	0	0	0	0	0	1
786	7	3	3	2	1	0	0	0	0	0	0	0	0	1	1
787	7	3	3	2	1	0	0	0	0	0	0	0	0	1	1
788	7	3	3	2	1	0	0	0	0	0	0	0	0	1	1
789	7	3	3	3	0	0	0	0	0	0	0	0	1	1	1
790	6	5	1	4	0	0	0	0	1	0	0	1	0	1	1
791	6	5	2	3	0	0	0	0	1	0	1	0	0	1	0
792	6	5	5	0	0	0	0	0	0	0	0	0	0	0	0
793	6	4	1	3	1	0	0	0	0	0	0	1	0	1	1
794	6	4	1	3	1	0	0	0	1	0	0	0	0	1	1
795	6	4	1	3	1	0	0	0	1	0	0	1	0	1	0
796	6	4	2	3	0	0	0	0	0	0	0	1	1	0	1
797	6	4	3	1	1	0	0	0	0	1	0	0	0	0	0
798	6	4	3	1	1	0	0	0	0	1	0	0	0	0	0
799	6	4	4	0	1	0	0	0	0	0	0	0	0	0	0
800	6	4	4	1	0	0	0	0	0	0	0	0	0	0	1
801	6	4	4	1	0	0	0	0	0	1	0	0	0	0	0
802	6	3	2	2	1	0	0	0	0	0	0	0	0	1	1
803	6	3	2	2	1	0	0	0	0	0	0	0	0	1	1
804	6	3	2	3	0	0	0	0	0	0	0	0	1	1	1
805	6	3	3	0	2	0	0	0	0	0	0	0	0	0	0
806	6	3	3	1	1	0	0	0	0	0	0	0	0	0	1
807	6	3	3	1	1	0	0	0	0	0	0	0	0	0	1
808	6	3	3	2	0	0	0	0	0	0	0	0	0	1	1
809	6	2	2	1	2	0	0	0	0	0	0	0	0	0	1
810	5	4	1	3	0	0	0	0	0	0	0	1	0	1	1
811	5	4	1	3	0	0	0	0	1	0	0	0	0	1	1
812	5	4	1	3	0	0	0	0	1	0	0	1	0	1	0
813	5	4	3	1	0	0	0	0	0	1	0	0	0	0	0
814	5	4	4	0	0	0	0	0	0	0	0	0	0	0	0
815	5	3	1	2	1	0	0	0	0	0	0	0	0	1	1
816	5	3	1	2	1	0	0	0	0	0	0	1	0	0	1
817	5	3	1	2	1	0	0	0	0	0	0	1	0	1	0
818	5	3	1	2	1	0	0	0	1	0	0	0	0	1	0
819	5	3	1	2	1	0	0	0	1	0	0	1	0	0	0
820	5	3	2	2	0	0	0	0	0	0	0	0	0	1	1
821	5	3	3	0	1	0	0	0	0	0	0	0	0	0	0
822	5	3	3	1	0	0	0	0	0	0	0	0	0	0	1
823	5	2	2	0	2	0	0	0	0	0	0	0	0	0	0
824	5	2	2	1	1	0	0	0	0	0	0	0	0	0	1
825	5	2	2	1	1	0	0	0	0	0	0	0	0	0	1
826	4	3	1	2	0	0	0	0	0	0	0	0	0	1	1
827	4	3	1	2	0	0	0	0	0	0	0	1	0	0	1
828	4	3	1	2	0	0	0	0	0	0	0	1	0	1	0
829	4	3	1	2	0	0	0	0	1	0	0	0	0	1	0
830	4	3	1	2	0	0	0	0	1	0	0	1	0	0	0
831	4	3	3	0	0	0	0	0	0	0	0	0	0	0	0

832	4	2	1	1	1	0	0	0	0	0	0	0	0	0	1
833	4	2	2	0	1	0	0	0	0	0	0	0	0	0	0
834	4	2	2	0	1	0	0	0	0	0	0	0	0	0	0
835	4	2	2	1	0	0	0	0	0	0	0	0	0	0	1
836	3	2	1	1	0	0	0	0	0	0	0	0	0	0	1
837	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0
838	3	1	1	0	1	0	0	0	0	0	0	0	0	0	0
839	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0

เมื่อ p คือจำนวนพารามิเตอร์ในตัวแบบ และ dv คือจำนวนตัวแปรแผนแบบ(design variables)

สำหรับแผนแบบพื้นผิวผลตอบขนาด 5 ตัวแปรในขอบเขตทรงกลม(Spherical design region) ที่ศึกษาครั้งนี้ มี radius $\alpha = \sqrt{k}$ หรือ $\alpha = \sqrt{5}$ สำหรับ Central composite design (CCDs) เมื่อมีการทำซ้ำในส่วนของ star points (r_s) เท่ากับ 1 และ 2 ซ้ำ และทำซ้ำในส่วนของ center points (n_0) เท่ากับ 0, 1 และ 3 ซ้ำ, Box-Behnken design (BBDs), Small composite design (SCDs), Plackett-Burmann design (PBDs) และ Uniform Shell design (USDs) เมื่อมีการทำซ้ำในส่วนของ center points (n_0) เท่ากับ 0,1 และ 3

ขอบเขตทรงกลม (Spherical Region) ในการศึกษาด้าน RSM จะมีการศึกษาแผนการทดลองที่สร้างขึ้นในขอบเขตทรงลูกบาศก์(Cuboidal region) ขอบเขตทรงกลม(Spherical region) หรือ ขอบเขตหลายด้าน(Polyhedral region) ซึ่งโครงการวิจัยนี้ต้องการศึกษาเฉพาะแผนการทดลองที่สร้างขึ้นใน Spherical region ซึ่งมีหลักการดังนี้ ถ้าให้ $x_1, x_2, \dots, x_k$ เป็นตัวแปรแผนแบบ(design variables)สำหรับแผนแบบพื้นผิวผลตอบในขอบเขตทรงกลม จะได้ว่า $\sum_{i=1}^k x_i^2 \leq k$ เมื่อ k คือจำนวนตัวแปรหรือปัจจัยที่ศึกษา ดังนั้น แผนการทดลองใน Spherical region จะประกอบด้วยทุกๆค่าของ $x_i; i=1,2,\dots,k$ ที่อยู่บนหรืออยู่ภายในขอบเขตทรงกลมที่มีรัศมีเท่ากับ k

เกณฑ์แผนแบบที่เหมาะสม (Design Optimality Criteria) เป็นการศึกษาเกี่ยวกับคุณสมบัติของเมตริกซ์ $X'X$ สำหรับแต่ละเมตริกซ์แผนแบบ X (design matrix X) ของแผนการทดลองใดๆเพื่อเปรียบเทียบและหาแผนแบบพื้นผิวผลตอบที่ดีที่สุดและเหมาะสมก่อนที่ผู้ทดลองจะลงมือปฏิบัติการทดลองจริง ซึ่งเป็นการประหยัดงบประมาณ เวลา และกำลังคน ในกรณีที่ผู้ทดลองมีแผนแบบการทดลองแบบต่างๆให้เลือกใช้หลายรูปแบบ

ในการวิจัยครั้งนี้ จะศึกษาเกณฑ์แผนแบบที่เหมาะสม 3 วิธี ดังนี้

1. **D-optimality** เป็นเกณฑ์ที่เกี่ยวข้องกับ $|X'X|$ โดยมีเป้าหมายเพื่อทำให้ $|X'X|$ มีค่าสูงที่สุด หรืออีกนัยหนึ่งเพื่อทำให้ $|(X'X)^{-1}|$ มีค่าต่ำที่สุด

$$\text{maximize } |X'X| \text{ หรือ minimize } |(X'X)^{-1}| \text{ โดยที่ } X \text{ คือ design matrix}$$

2. **G -optimality** เป็นเกณฑ์ที่เกี่ยวข้องกับความแปรปรวนที่ถูกประมาณ (scaled prediction variance-- $V(x)$) เมื่อ $V(x) = N f'(x) (X'X)^{-1} f(x)$ โดยมีเป้าหมายเพื่อทำให้ความแปรปรวนที่ถูกประมาณที่มากที่สุดมีค่าน้อยที่สุดในขอบเขตของแผนแบบการทดลอง

$$\text{minimize} \max_{x \in X} [N f'(x) (X'X)^{-1} f(x)]$$

โดยที่ X คือ design matrix, x คือจุดใดๆในขอบเขตของแผนการทดลอง X ,

$f(x) = [f_1(x), \dots, f_p(x)]'$ คือเวกเตอร์ของฟังก์ชันค่าจริง p ค่าจากพารามิเตอร์จำนวน p ตัวบนตัวแบบ และ N คือขนาดของแผนแบบการทดลอง

3. **IV -optimality** เป็นเกณฑ์ที่เกี่ยวข้องกับความแปรปรวนที่ถูกประมาณเช่นเดียวกับ **G -optimality** โดยมีเป้าหมายเพื่อทำให้ความแปรปรวนที่ถูกประมาณเฉลี่ยมีค่าน้อยที่สุดในขอบเขตของแผนการทดลอง

$$\text{Minimize average}_{x \in X} [N f'(x) (X'X)^{-1} f(x)]$$

โดยที่ X คือ design matrix, x คือจุดใดๆในขอบเขตของแผนการทดลอง X ,

$f(x) = [f_1(x), \dots, f_p(x)]'$ คือเวกเตอร์ของฟังก์ชันค่าจริง p ค่าจากพารามิเตอร์จำนวน p ตัวบนตัวแบบ และ N คือขนาดของแผนแบบการทดลอง

Variance Dispersion Graphic (VDG) เป็นเกณฑ์การประเมินประสิทธิภาพของแผนการทดลองอีกแบบหนึ่งซึ่งถูกนำเสนอโดย Giovannitti-Jensen and Myers (1989) ซึ่งเป็นการพล็อตกราฟ 2 มิติเพื่อแสดงค่าประมาณความแปรปรวนที่สูงที่สุดและค่าที่ต่ำที่สุด (maximum and minimum prediction variances) บนขอบเขตทรงกลมที่มีรัศมีขนาดต่างๆในขอบเขตของแผนแบบพื้นผิวผลตอบที่สนใจศึกษา

ในการทำวิจัยหรือการทดลองหนึ่งๆนั้น การพิจารณาว่าควรจะใช้แผนแบบการทดลองแบบใด สามารถพิจารณาหรือประเมินได้จากค่าประสิทธิภาพของแผนแบบการทดลอง (design efficiency) ซึ่งค่าประสิทธิภาพของแผนแบบการทดลองเป็นค่าที่บ่งบอกถึงคุณสมบัติหลายๆคุณสมบัติของแผนแบบการทดลอง จากการศึกษาของ Borkowski และ Valeroso (2001) พบว่าในการคำนวณค่าประสิทธิภาพของแผนแบบนั้นจะต้องมีค่าที่เหมาะสม (optimal values) ก่อน นั่นคือค่าของเกณฑ์แผนแบบที่เหมาะสมของแต่ละแผนแบบการทดลองควรมีค่าใกล้เคียงกับค่าที่เหมาะสมสำหรับแผนแบบการทดลองที่เหมาะสมในทางทฤษฎี สำหรับค่าประสิทธิภาพ D และ G (D, G efficiencies) ค่าที่สูงจะบ่งชี้ว่าแผนแบบการทดลองนั้นเป็นแผนแบบที่ดี ส่วนค่าประสิทธิภาพ IV (IV criterion) ค่าที่ต่ำจะบ่งชี้ว่าแผนแบบการทดลองนั้นเป็นแผนแบบที่ดี

Borkowski และ Valeroso (2001) ทำการศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบขนาด 3, 4 และ 5 ตัวแปรในขอบเขตทรงลูกบาศก์ โดยใช้เกณฑ์ D, A, G และ IV สำหรับตัวแบบลดรูป ต่อมา Chomtee (2003) ทำการศึกษายายผลการวิจัยของ Borkowski และ Valeroso (2001) โดยศึกษาในขอบเขตทรงกลม เพื่อเปรียบเทียบแผนแบบพื้นผิวผลตอบขนาด 3 และ 4 ตัวแปร ($k = 3, 4$) สำหรับตัวแบบลดรูปเมื่อพิจารณาจากเกณฑ์ D, A, G และ IV โดยเปรียบเทียบแผนแบบ Central composite, Box-Behnken, Small composite, Plackett-Burman, Uniform Shell และ Hybrid

อย่างไรก็ตาม สำหรับการเปรียบเทียบแผนแบบพื้นผิวผลตอบขนาด 5 ตัวแปรสำหรับตัวแบบลดรูปในขอบเขตทรงกลมนั้น จนกระทั่งปัจจุบัน ยังไม่มีผู้ใดทำการศึกษา ดังนั้น คณะผู้วิจัยจึงมีความประสงค์ที่จะศึกษาในเรื่องนี้ เพื่อที่จะสามารถตอบคำถามด้านแผนแบบพื้นผิวผลตอบในขอบเขตทรงกลมที่สมบูรณ์ยิ่งขึ้น และสามารถนำผลการวิจัยที่ได้ไปประยุกต์ใช้กับงานวิจัยสาขาต่างๆ ได้อย่างกว้างขวาง หลากหลายมากขึ้น ทั้งนี้เนื่องจากโดยส่วนใหญ่ในวงการวิศวกรรมศาสตร์ วิทยาศาสตร์ ได้แก่ ด้านเคมี ด้านฟิสิกส์ เป็นต้น ด้านอุตสาหกรรม อุตสาหกรรมเกษตร และด้านเกษตรกรรม นั้น การศึกษาวิจัยค้นคว้า และการทำการทดลองเพื่อพัฒนาและปรับปรุงกระบวนการต่างๆ มักจะเกี่ยวข้องกับปัจจัยขนาด 3, 4 และ 5 ตัวแปร ($k = 3, 4, 5$) ที่มีผลกระทบต่อตัวแปรผลตอบ(response variable) ซึ่งงานวิจัยในสาขาต่างๆ เหล่านี้ล้วนแล้วแต่ต้องอาศัยแผนแบบพื้นผิวผลตอบ(response surface design)และวิธีการวิเคราะห์พื้นผิวผลตอบ (response surface analysis) ช่วยในการวิเคราะห์ข้อมูลและการวางแผนการทดลองในการทำการวิจัยทั้งสิ้น

ดังนั้นโครงการวิจัยนี้ คณะผู้วิจัยจะศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบขนาด 5 ตัวแปร ($k = 5$) ซึ่งประกอบด้วย Central composite design (CCDs) Box-Behnken design (BBDs) Small composite design (SCDs) Plackett-Burmann design (PBDs) และ Uniform Shell design (USDs) ในขอบเขตทรงกลม (Spherical region) โดยพิจารณาเกณฑ์แผนแบบที่เหมาะสม 3 วิธี คือ เกณฑ์ D, G และ IV และจะศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบในขอบเขตทรงกลม คือ CCDs, BBDs, SCDs, PBDs, USDs ขนาด 5 ปัจจัยกับ Variance Dispersion Graph (VDG) สำหรับ the full second order model

วัตถุประสงค์ของโครงการ

คณะผู้วิจัยได้ตั้งวัตถุประสงค์สำหรับการวิจัยไว้ 2 ข้อคือ

1. เพื่อศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบในขอบเขตทรงกลม คือ CCDs, BBDs, SCDs, PBDs, USDs ขนาด 5 ปัจจัย กับเกณฑ์ที่เหมาะสม 3 วิธี คือ เกณฑ์ D, G และ IV บน the full second order model และบน reduced models โดยหลักการ hierarchy ของ Borkowski และ Valeroso (2001)
2. เพื่อศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบในขอบเขตทรงกลม คือ CCDs, BBDs, SCDs, PBDs, USDs ขนาด 5 ปัจจัย กับ Variance Dispersion Graph (VDG) สำหรับ the full second order model

ผลงานวิจัยที่เกี่ยวข้อง (literature review)

Lucas (1976) ได้ศึกษาเปรียบเทียบแผนแบบการทดลอง composite designs, Box-Behnken designs, Uniform Shell designs โดยใช้เกณฑ์ D และ G ในขอบเขตทรงลูกบาศก์และทรงกลมสำหรับ the full second order model

Myers et al (1989) ชี้ให้เห็นว่าการประเมินแผนแบบการทดลองใดๆ ควรจะพิจารณาจากเกณฑ์ต่างๆ มากกว่าหนึ่งเกณฑ์ เนื่องจากแผนแบบการทดลองหนึ่งๆ อาจจะเป็นแผนแบบที่มีประสิทธิภาพดีที่สุดด้วยเกณฑ์หนึ่ง แต่ในขณะเดียวกันแผนแบบนี้ก็อาจจะเป็นแผนแบบที่มีประสิทธิภาพต่ำที่สุดถ้าประเมินด้วยเกณฑ์อีกแบบหนึ่ง

Giovannitti-Jensen and Myers (1992) ทำการศึกษาแผนแบบพื้นผิวผลตอบพื้นฐาน ได้แก่ Central composite design Box-Behnken design และ Small composite design บนขอบเขตลูกบาศก์ และทรงกลม กับ VDG เพื่อศึกษาคุณลักษณะที่ดีและด้อยของแผนแบบพื้นผิวผลตอบพื้นฐาน

Borkowski และ Valeroso (2001) ได้ทำการเปรียบเทียบ Central composite designs, Small composite designs, Notz, Hoke, Box-Draper และ computer generated designs โดยใช้เกณฑ์ D, A, G และ IV ในขอบเขตทรงลูกบาศก์

Chomtee (2003) ศึกษาเปรียบเทียบแผนแบบพื้นผิวผลตอบขนาด 3 และ 4 ตัวแปร ($k = 3, 4$) ได้แก่ Central composite design (CCDs) Box-Behnken design (BBDs) Small composite design (SCDs) Plackett-Burmann design (PBDs) Uniform Shell design (USDs) และ Hybrid Design (H310s, H311As, H311Bs, H416As, H416Bs, H416Cs) ที่มีการทำซ้ำในส่วนของ star points (r_s) เท่ากับ 1 และ 2 ซ้ำ และทำซ้ำในส่วนของ center points (n_0) เท่ากับ 0, 1 และ 3 ซ้ำ สำหรับตัวแบบลดรูป กับเกณฑ์แผนแบบที่เหมาะสม 4 แบบ คือเกณฑ์ D, A, G และ IV ในขอบเขตทรงกลม ซึ่งผลการวิจัยบางส่วน เมื่อ $k = 3, 4$ พบว่า

- การใช้เกณฑ์ D, A สำหรับการเปรียบเทียบแผนแบบการทดลองเหล่านี้ให้ผลสอดคล้องไปในทิศทางเดียวกัน
- การทำซ้ำในส่วนของ star points มีแนวโน้มทำให้ค่า D, A, G ลดลง และทำให้ค่า IV เพิ่มขึ้นสำหรับ CCD ($k = 3, 4$) และ PBD ($k = 4$)
- การทำซ้ำในส่วนของ center points มีแนวโน้มทำให้ค่า D, G ลดลงสำหรับทุกแผนแบบไม่ว่าจะมีการทำซ้ำในส่วนของ star points หรือไม่ก็ตาม ยกเว้นค่า G ของ CCD ($k = 3, 4$) และค่า G ของ BBD ($k = 4$)
- การทำซ้ำในส่วนของ center points มีแนวโน้มทำให้ค่า A, IV ดีขึ้นสำหรับทุกแผนแบบ
- ผลการศึกษาสำหรับ CCD เรื่องการทำซ้ำในส่วนของ star points และส่วนของ center points ในขอบเขตทรงกลมของ Chomtee (2003) สอดคล้องกับผลการศึกษาของ Borkowski (1995) ที่ศึกษาในขอบเขตทรงลูกบาศก์
- เมื่อ $k = 4$, CCD และ BBD ในขอบเขตทรงกลม จะเป็นแผนแบบที่ให้ค่า D, A, G และ IV เท่ากัน ในทุกตัวแบบ
- สำหรับ $k = 3, n_0 = 1$: เมื่อพิจารณาจากเกณฑ์ D, A, G และ IV พบว่า CCD ($N = 15$), H310 ($N = 11$), H311B ($N = 11$) และ H310 ($N = 11$) เป็นแผนแบบที่ดีที่สุดในแต่ละเกณฑ์ตามลำดับ เมื่อใช้ full second order model
- สำหรับ $k = 3, n_0 = 3$: เมื่อพิจารณาจากเกณฑ์ D, A, G และ IV พบว่า CCD ($N = 17$), BBD ($N = 15$), CCD ($N = 17$) และ H311A, H311B ($N = 13$) เป็นแผนแบบที่ดีที่สุดในแต่ละเกณฑ์ตามลำดับ เมื่อใช้ full second order model
- สำหรับ $k = 4, n_0 = 1$: เมื่อพิจารณาจากเกณฑ์ D, A, G และ IV พบว่า CCD, BBD ($N = 25$), H416B ($N = 17$), H416C ($N = 16$) และ H416B ($N = 17$) เป็นแผนแบบที่ดีที่สุดในแต่ละเกณฑ์ตามลำดับ เมื่อใช้ full second order model
- สำหรับ $k = 4, n_0 = 2, 3$: เมื่อพิจารณาจากเกณฑ์ D, A, G และ IV พบว่า CCD, BBD ($N = 27$), H416B ($N = 19$), CCD, BBD ($N = 27$) และ H416B ($N = 19$) เป็นแผนแบบที่ดีที่สุดในแต่ละเกณฑ์ตามลำดับ เมื่อใช้ full second order model เป็นต้น

ผลการศึกษา

การวิเคราะห์ค่าเกณฑ์ 3 วิธีคือ D -optimality, G -optimality และ IV -optimality นั้นแต่ละเกณฑ์สามารถคำนวณได้ดังนี้

$$\begin{aligned} D\text{-efficiency} &= 100 \frac{|\mathbf{X}'\mathbf{X}|^{1/p}}{N} \\ G\text{-efficiency} &= 100 \frac{p}{N\hat{\sigma}_{\max}^2} \\ IV\text{-criterion} &= N\sigma_{ave}^2 \end{aligned}$$

เมื่อ $\mathbf{X}$ คือเมทริกซ์แผนแบบ(design matrix), p คือจำนวนพารามิเตอร์ในตัวแบบ, N คือขนาดของแผนแบบการทดลอง, $\hat{\sigma}_{\max}^2$ คือค่าประมาณของ $f'(\mathbf{x})(\mathbf{X}'\mathbf{X})^{-1}f(\mathbf{x})$ ที่สูงที่สุดบนเซตของค่า $\mathbf{x}$ ที่เป็นไปได้ และ σ_{ave}^2 คือค่าเฉลี่ยของ $f'(\mathbf{x})(\mathbf{X}'\mathbf{X})^{-1}f(\mathbf{x})$ บนขอบเขตทรงกลม ทั้งนี้แผนแบบพื้นผิวผลตอบขนาด 5 ตัวแปรในขอบเขตทรงกลม ได้แก่ CCDs, BBDs, SCDs, PBDs และ USDs มีลักษณะดังนี้

แผนแบบพื้นผิวผลตอบ Central composite design (CCD)

แผนแบบ CCD ถูกนำเสนอโดย Box และ Wilson(1951) ซึ่งเป็นแผนแบบที่ประกอบด้วย 3 ส่วน คือ

1. $n_f = fr_f$ **points** : r_f เป็นการทำให้ซ้ำในส่วนของ $f = 2^{k-p}$ full ($p = 0$) หรือ fractional ($p > 0$) factorial design ที่อย่างน้อยที่สุดต้องมี Resolution V โดยที่ k เป็นจำนวนตัวแปรแผนแบบ และแต่ละจุดจะอยู่ในรูป $(x_1, \dots, x_k) = (\pm 1, \dots, \pm 1)$ จะเรียกส่วนนี้ว่า *factorial portion* ของแผนแบบ ซึ่ง *factorial portion* นี้จะใช้สำหรับการประมาณค่า β_i และ β_{ij} หรือสัมประสิทธิ์ของ linear และ cross product term ในตัวแบบ

2. $n_s = 2kr_s$ **points** : r_s เป็นการทำให้ซ้ำในส่วนของ $2k$ star หรือ axial points ที่มีระยะห่างจากจุด center เท่ากับ α และแต่ละจุดจะอยู่ในรูป $(x_1, \dots, x_k) = (0, \dots, 0, \pm\alpha, 0, \dots, 0)$ จะเรียกส่วนนี้ว่า *star* หรือ *axial portion* ของแผนแบบ ซึ่ง *axial portion* จะใช้สำหรับการประมาณค่า β_{ii} หรือสัมประสิทธิ์ของ quadratic term ในตัวแบบ

3. n_0 **center points** : แต่ละจุดจะอยู่ในรูป $(x_1, \dots, x_k) = (0, \dots, 0)$ ซึ่งส่วนนี้จะใช้สำหรับการประมาณค่า pure error ที่ใช้ในการทดสอบความไม่เหมาะสมของตัวแบบ(lack of fit test) และช่วยในการประมาณค่า β_{ii} หรือสัมประสิทธิ์ของ quadratic term ในตัวแบบด้วย

ดังนั้น ขนาดของแผนแบบ CCD คือ $N = fr_s + 2kr_s + n_0$ และสำหรับแผนแบบพื้นผิวผลตอบในขอบเขตทรงกลมนั้น $\alpha = \sqrt{k}$ ดังแสดงในตารางที่ 1

ตารางที่ 1 แผนแบบพื้นผิวผลตอบ CCD เมื่อ $k = 5, \alpha = \sqrt{5}, n_0 = 1$

A 43 Point CCD, $\alpha = \sqrt{5}, n_0 = 1$									
X_1	X_2	X_3	X_4	X_5	X_1	X_2	X_3	X_4	X_5
-1	-1	-1	-1	-1	1	-1	1	1	-1
-1	-1	-1	-1	1	1	-1	1	1	1
-1	-1	-1	1	-1	1	1	-1	-1	-1
-1	-1	-1	1	1	1	1	-1	-1	1
-1	-1	1	-1	-1	1	1	-1	1	-1
-1	-1	1	-1	1	1	1	-1	1	1
-1	-1	1	1	-1	1	1	1	-1	-1
-1	-1	1	1	1	1	1	1	-1	1
-1	1	-1	-1	-1	1	1	1	1	-1
-1	1	-1	-1	1	1	1	1	1	1
-1	1	-1	1	-1	-2.236068	0	0	0	0
-1	1	-1	1	1	2.236068	0	0	0	0
-1	1	1	-1	-1	0	-2.236068	0	0	0
-1	1	1	-1	1	0	2.236068	0	0	0
-1	1	1	1	-1	0	0	-2.236068	0	0
-1	1	1	1	1	0	0	2.236068	0	0
1	-1	-1	-1	-1	0	0	0	-2.236068	0
1	-1	-1	-1	1	0	0	0	2.236068	0
1	-1	-1	1	-1	0	0	0	0	-2.236068
1	-1	-1	1	1	0	0	0	0	2.236068
1	-1	1	-1	-1	0	0	0	0	0
1	-1	1	-1	1	0	0	0	0	0

แผนแบบพื้นผิวผลตอบ Box-Behnken design (BBD)

Box และ Behnken(1960) เป็นผู้นำเสนอแผนแบบ BBD ซึ่งแผนแบบนี้สามารถสร้างโดยใช้แผนแบบ factorial design ที่มี 2 ระดับ และ Balanced incomplete block design (BIBD) เมื่อกำหนดให้

k = จำนวนตัวแปรแผนแบบ

b = จำนวนบล็อกใน BIBD

t = จำนวนตัวแปรแผนแบบในแต่ละบล็อก

r = จำนวนบล็อกที่ตัวแปรแผนแบบหนึ่งๆปรากฏ

λ = จำนวนครั้งที่ตัวแปรแผนแบบแต่ละคู่ปรากฏในบล็อกเดียวกัน โดย $\lambda = \frac{r(t-1)}{k-1}$

การสร้าง BBD นั้น จะแทนที่ t ซึ่งเป็นจำนวนตัวแปรแผนแบบในแต่ละบล็อกใน BIBD ด้วย 2^t factorial design ที่มีระดับเป็น ± 1 จำนวน t คอลัมน์ และอีก $k-t$ คอลัมน์ที่เหลือจะมีระดับเป็น 0 และใส่ n_0 center points ในแผนแบบการทดลอง ดังนั้น ขนาดของแผนแบบ BBD คือ $N = fkr/t + n_0 = fb + n_0$ โดยที่ $f = 2^t$ และสำหรับแผนแบบพื้นผิวผลตอบในขอบเขตทรงกลมนั้น $\alpha = \sqrt{k}$ ดังแสดงในตารางที่ 2

ตารางที่ 2 แผนแบบพื้นผิวผลตอบ BBD เมื่อ $k = 5, \alpha = \sqrt{5}, n_0 = 0$

A 40 Point BBD, $\alpha = \sqrt{5}, n_0 = 0$									
X_1	X_2	X_3	X_4	X_5	X_1	X_2	X_3	X_4	X_5
1.5811	1.5811	0	0	0	0	1.5811	0	1.5811	0
1.5811	-1.5811	0	0	0	0	1.5811	0	-1.5811	0
-1.5811	1.5811	0	0	0	0	-1.5811	0	1.5811	0
-1.5811	-1.5811	0	0	0	0	-1.5811	0	-1.5811	0
1.5811	0	1.5811	0	0	0	1.5811	0	0	1.5811
1.5811	0	-1.5811	0	0	0	1.5811	0	0	-1.5811
-1.5811	0	1.5811	0	0	0	-1.5811	0	0	1.5811
-1.5811	0	-1.5811	0	0	0	-1.5811	0	0	-1.5811
1.5811	0	0	1.5811	0	0	0	1.5811	1.5811	0
1.5811	0	0	-1.5811	0	0	0	1.5811	-1.5811	0
-1.5811	0	0	1.5811	0	0	0	-1.5811	1.5811	0
-1.5811	0	0	-1.5811	0	0	0	-1.5811	-1.5811	0
1.5811	0	0	0	1.5811	0	0	0	0	1.5811
1.5811	0	0	0	-1.5811	0	0	0	0	-1.5811
-1.5811	0	0	0	1.5811	0	0	0	0	1.5811
-1.5811	0	0	0	-1.5811	0	0	0	0	-1.5811
0	1.5811	1.5811	0	0	0	0	0	1.5811	1.5811
0	1.5811	-1.5811	0	0	0	0	0	1.5811	-1.5811
0	-1.5811	1.5811	0	0	0	0	0	-1.5811	1.5811
0	-1.5811	-1.5811	0	0	0	0	0	-1.5811	-1.5811

แผนแบบพื้นผิวผลตอบ Small Composite Design (SCD)

ในปี 1959 Hartley ได้เสนอแผนแบบ SCD ซึ่งแผนแบบนี้มีหลักการสร้างพื้นฐานเหมือนกันกับแผนแบบ CCD นั่นคือประกอบด้วย factorial portion, axial portion และ center points แต่สำหรับแผนแบบ SCD นั้น ส่วนของ factorial portion จะใช้ fractional factorial design 2 ระดับ ซึ่งมีผลทำให้ขนาดของแผนแบบ SCD เล็กกว่าขนาดของแผนแบบ CCD

ในที่นี้ แผนแบบ SCD เมื่อ $k = 5$ ส่วนของ factorial portion จะสร้างจาก 2^{5-1} fractional factorial design โดยมี generator $I = ABCDE$ และมี resolution V ดังแสดงในตารางที่ 3

ตารางที่ 3 แผนแบบพื้นผิวผลตอบ SCD เมื่อ $k = 5, \alpha = \sqrt{5}, n_0 = 1$

A 27 Point SCD, $\alpha = \sqrt{5}, n_0 = 1$									
X_1	X_2	X_3	X_4	X_5	X_1	X_2	X_3	X_4	X_5
-1	-1	-1	-1	1	-2.236068	0	0	0	0
1	-1	-1	-1	-1	2.236068	0	0	0	0
-1	1	-1	-1	-1	0	-2.236068	0	0	0
1	1	-1	-1	1	0	2.236068	0	0	0
-1	-1	1	-1	-1	0	0	-2.236068	0	0
1	-1	1	-1	1	0	0	2.236068	0	0
-1	1	1	-1	1	0	0	0	-2.236068	0
1	1	1	-1	-1	0	0	0	2.236068	0
-1	-1	-1	1	-1	0	0	0	0	-2.236068
1	-1	-1	1	1	0	0	0	0	2.236068
-1	1	-1	1	1	0	0	0	0	0
1	1	-1	1	-1					
-1	-1	1	1	1					
1	-1	1	1	-1					
-1	1	1	1	-1					
1	1	1	1	1					

แผนแบบพื้นผิวผลตอบ Plackett-Burman Composite Design (PBD)

Plackett และ Burman ได้เสนอแผนแบบ PBD ในปี 1946 และสำหรับ PBD ที่ $k = 5$ มีหลักการสร้างดังนี้

1. สำหรับ factorial portion จะใช้คอลัมน์ของ Plackett- Burman จำนวน 5 คอลัมน์ ($k = 5$)
2. สำหรับ axial portion ใช้จำนวนเท่ากับ $2k$ ที่มีรัศมี $\alpha = \sqrt{5}$
3. ใส่ center point เพื่อหลีกเลี่ยงการเป็น singular matrix ของ design matrix $\mathbf{X}$

ดังนั้น สามารถแสดงแผนแบบ PBD เมื่อ $k = 5, \alpha = \sqrt{5}$ และ $n_0 = 1$ ดังตารางที่ 4

แผนแบบพื้นผิวผลตอบ Uniform Shell Design (USD)

Doehlert และ Klee ได้พัฒนาแผนแบบ uniform shell ในปี 1970 โดยแผนแบบ USD นั้นมีลักษณะที่แต่ละจุดนั้นจะมีระยะห่างจากจุดกลางเท่าๆกัน ซึ่งมีผลให้ตัวแปรแต่ละตัวมีหลายระดับ ดังแสดงแผนแบบ USD เมื่อ $k = 5$ ในตารางที่ 5

ตารางที่ 4 แผนแบบพื้นผิวผลตอบ PBD เมื่อ $k = 5, \alpha = \sqrt{5}, n_0 = 1$

A 23 Point PBD, $\alpha = \sqrt{5}, n_0 = 1$									
X_1	X_2	X_3	X_4	X_5	X_1	X_2	X_3	X_4	X_5
1	-1	1	-1	-1	-2.236068	0	0	0	0
1	1	-1	1	-1	2.236068	0	0	0	0
-1	1	1	-1	1	0	-2.236068	0	0	0
1	-1	1	1	-1	0	2.236068	0	0	0
1	1	-1	1	1	0	0	-2.236068	0	0
1	1	1	-1	1	0	0	2.236068	0	0
-1	1	1	1	-1	0	0	0	-2.236068	0
-1	-1	1	1	1	0	0	0	2.236068	0
-1	-1	-1	1	1	0	0	0	0	-2.236068
1	-1	-1	-1	1	0	0	0	0	2.236068
-1	1	-1	-1	-1	0	0	0	0	0
-1	-1	-1	-1	-1	0	0	0	0	0

ตารางที่ 5 แผนแบบพื้นผิวผลตอบ USD เมื่อ $k = 5, \alpha = \sqrt{5}, n_0 = 1$

A 31 Point USD, $\alpha = \sqrt{5}, n_0 = 1$									
X_1	X_2	X_3	X_4	X_5	X_1	X_2	X_3	X_4	X_5
2.2361	1	0	0	0	-1.1180	-0.6455	-0.4564	-1.7678	0
1.1180	1.9365	0	0	0	1.1180	-0.6455	-0.4564	-1.7678	0
-1.1180	1.9365	0	0	0	0	1.2910	-0.4564	-1.7678	0
-2.2361	0	0	0	0	0	0	1.3693	-1.7678	0
-1.1180	-1.9365	0	0	0	1.1180	1.9365	0.4564	1.1180	1.7321
1.1180	-1.9365	0	0	0	-1.1180	1.9365	0.4564	1.1180	1.7321
1.1180	0.6455	1.8257	0	0	0	-1.2910	0.4564	1.1180	1.7321
-1.1180	0.6455	1.8257	0	0	0	0	-1.3693	1.1180	1.7321
0	-1.2910	1.8257	0	0	0	0	0	1.4142	1.7321
-1.1180	-0.6455	-1.8257	0	0	-1.1180	-1.9365	-0.4564	-1.1180	-1.7321
1.1180	-0.6455	-1.8257	0	0	1.1180	-1.9365	-0.4564	-1.1180	-1.7321
0	1.2910	-1.8257	0	0	0	1.2910	-0.4564	-1.1180	-1.7321
1.1180	0.6455	0.4564	1.7678	0	0	0	1.3693	-1.1180	-1.7321
-1.1180	0.6455	0.4564	1.7678	0	0	0	0	-1.4142	-1.7321
0	-1.2910	0.4564	1.7678	0	0	0	0	0	0
0	0	-1.3693	1.7678	0	0	0	0	0	0

การเปรียบเทียบ Design Optimality Criteria สำหรับ the Full Second-order Model

ตารางที่ 6 Optimality Criteria สำหรับ the Full Second-order Model

Design	N	n_0	r_s	D -eff	G -eff	IV -eff
CCD	42	0	1	0	0	Singular Matrix
	43	1	1	80.159	48.837	62.0441
	45	3	1	80.710	85.964	29.1527
	52	0	2	0	0	Singular Matrix
	53	1	2	78.883	39.622	74.1056
	55	3	2	80.097	92.981	33.1745
BBD	40	0	-	0	0	Singular Matrix
	41	1	-	79.628	51.219	59.8097
	43	3	-	80.002	92.221	28.5402
SCD	26	0	1	0	0	Singular Matrix
	27	1	1	80.020	77.777	43.3044
	29	3	1	78.503	88.172	23.4557
	36	0	2	0	0	Singular Matrix
	37	1	2	73.127	56.756	56.7476
	39	3	2	73.103	74.115	28.8082
PBD	22	0	1	0	0	Singular Matrix
	23	1	1	60.065	22.458	Singular Matrix
	25	3	1	58.228	20.662	Singular Matrix
	32	0	2	0	0	Singular Matrix
	33	1	2	56.578	21.062	Singular Matrix
	35	3	2	56.210	19.858	Singular Matrix
USD	30	0	-	12.829	44.608	Singular Matrix
	31	1	-	65.455	1.500	Singular Matrix
	33	3	-	64.790	1.700	Singular Matrix

สำหรับ the Full Second-order Model แสดงผลค่าเกณฑ์ D , G และ IV ในตารางที่ 6 และสรุปผลได้ดังนี้

- เมื่อพิจารณาเกณฑ์ D พบว่า CCD ($r_s = 1, n_0 = 3$) เป็นแผนแบบพหุคูณผลตอบที่เหมาะสมที่สุด โดยมีขนาดของแผนแบบเท่ากับ 45 ($N = 45$) รองลงมาคือ CCD ($r_s = 1, n_0 = 1, N = 43$)
- เมื่อพิจารณาเกณฑ์ G พบว่า CCD ($r_s = 2, n_0 = 3$) เป็นแผนแบบพหุคูณผลตอบที่เหมาะสมที่สุด โดยมีขนาดของแผนแบบเท่ากับ 55 ($N = 55$) รองลงมาคือ SCD ($r_s = 1, n_0 = 3, N = 29$)
- เมื่อพิจารณาเกณฑ์ IV พบว่า SCD ($r_s = 1, n_0 = 3$) เป็นแผนแบบพหุคูณผลตอบที่เหมาะสมที่สุด โดยมีขนาดของแผนแบบเท่ากับ 29 ($N = 29$) รองลงมาคือ BBD ($n_0 = 3, N = 43$)
- การทำซ้ำที่ r_s มีแนวโน้มทำให้ค่า D และ G criteria ลดลง ยกเว้นสำหรับ CCD ($n_0 = 3$)

และมีแนวโน้มทำให้ค่า IV เพิ่มขึ้น ยกเว้นสำหรับ BBD

5. การทำซ้ำที่ n_0 มีแนวโน้มทำให้ค่า D และ G criteria เพิ่มขึ้น ยกเว้น D criterion สำหรับ

SCDs, PBDs และ USDs และ ยกเว้น G criterion สำหรับ PBD และมีแนวโน้มทำให้ค่า IV

ลดลง

ตารางที่ 7 Design Optimality Criteria Comparison Ranking for $k = 5, n_0 = 1$ for the Full

Second-order Model

Designs Criterion	CCD ($N = 43$)	BBD ($N = 41$)	SCD ($N = 27$)	PBD ($N = 23$)	USD ($N = 31$)
D	1	3	2	5	4
G	3	2	1	4	5
IV	3	2	1	-	-

Note: - means cannot find the criterion because of singular design matrix.

ตารางที่ 8 Design Optimality Criteria Comparison Ranking for $k = 5, n_0 = 3$ for the Full

Second-order Model

Designs Criterion	CCD ($N = 45$)	BBD ($N = 43$)	SCD ($N = 29$)	PBD ($N = 25$)	USD ($N = 33$)
D	1	2	3	5	4
G	3	1	2	4	5
IV	3	2	1	-	-

Note: - means cannot find the criterion because of singular design matrix.

การเปรียบเทียบ Design Optimality Criteria สำหรับ Reduced Models

ในการเปรียบเทียบแผนแบบพื้นผิวผลตอบในขอบเขตทรงกลมสำหรับตัวแบบลดรูปที่มี 5 ปัจจัยนี้ จะ

จำแนกการเปรียบเทียบเป็น 4 ส่วน คือ

(i). across the full set of 839 reduced models

(ii) across the set of reduced models having at least one squared term($q \geq 1$)

(iii) across the set of reduced models having at least two squared term($q \geq 2$)

(iv) across the set of reduced models having at least three squared term ($q \geq 3$)

สำหรับการเปรียบเทียบแผนแบบแต่ละคู่ นั้น จะแสดงค่าร้อยละที่ Design 1 ดีกว่า Design 2 เมื่อพิจารณาจากเกณฑ์ D, G, IV โดยที่ “ ดีกว่า ” หมายถึง ค่าความแตกต่างของเกณฑ์ที่พิจารณา มีค่ามากกว่าหรือเท่ากับศูนย์ สำหรับเกณฑ์ D และ G ส่วนเกณฑ์ IV นั้น จะหมายถึง ค่าความแตกต่างของเกณฑ์ IV มีค่าน้อยกว่าหรือเท่ากับศูนย์ และในกรณีที่ค่าเกณฑ์ที่พิจารณามีค่าเท่ากัน แสดงว่า Design 1 ดีกว่า Design 2 และ Design 2 ดีกว่า Design 1 ดังนั้น ในที่นี้เมื่อเกณฑ์ที่พิจารณาของทั้งสอง Designs มีค่าเท่ากัน แสดงว่าแต่ละ Design จะถูกพิจารณาว่า “ ดีกว่า ” อีก Design หนึ่ง ซึ่งอาจจะทำให้ผลรวมค่าร้อยละสามารถมีค่าเกิน 100% ได้ สำหรับการเปรียบเทียบ Design 1 กับ Design 2 หรือ การเปรียบเทียบ Design 2 กับ Design 1 ค่าร้อยละในการเปรียบเทียบแผนแบบแต่ละคู่ จะแสดงในตารางที่ 9 -12, ตารางที่ 14 -17, ตารางที่ 21- 24, ตารางที่ 28 - 31

ผลการศึกษาเปรียบเทียบแผนแบบอีกส่วนหนึ่ง จะแสดงในรูปแบบการจัดอันดับแผนแบบพื้นผิวผลตอบที่มีขนาดการทดลองที่เท่ากันหรือใกล้เคียงกัน โดยจัดอันดับ r_0, r_1, r_2, r_3 แต่ละแผนแบบจะถูกจัดอันดับจาก 1 (‘ ดีที่สุด’) ถึง จำนวนของแผนแบบที่นำมาเปรียบเทียบกัน (‘ไม่ดีที่สุด’) เมื่ออันดับ r_0, r_1, r_2, r_3 แทนอันดับของแผนแบบนั้นๆ เมื่อเปรียบเทียบใน the full set of reduced models (839 ตัวแบบ), the set of reduced models with $q \geq 1$ (736 ตัวแบบ), the set of reduced models with $q \geq 2$ (525 ตัวแบบ), และ the set of reduced models with $q \geq 3$ (289 ตัวแบบ) ตามลำดับ ในกรณีที่แผนแบบใดๆ มีค่าอันดับเท่ากัน จะใช้ค่าเฉลี่ยของอันดับแสดงการจัดอันดับให้แก่แผนแบบนั้นๆ ดังแสดงในตารางที่ 13, 18-20, 25-27, 32

สำหรับเกณฑ์ IV มีแผนแบบพื้นผิวผลตอบบางแผนแบบที่ไม่สามารถคำนวณค่า IV ได้ เนื่องจากไม่สามารถหาค่าอินเวอร์สเมตริกได้(singular design matrix) ดังนั้นในการศึกษานี้ การเปรียบเทียบแผนแบบพื้นผิวผลตอบแต่ละคู่ จะเปรียบเทียบระหว่างแผนแบบพื้นผิวผลตอบและตัวแบบลดรูปที่สามารถคำนวณค่า IV ได้เท่านั้น

ตารางที่ 9 Comparisons of D , G , and IV Criteria for $k = 5$, $N = 41, 43, 45$

DESIGN 1		DESIGN 2			
		CCD ($n_0 = 1$)	CCD ($n_0 = 3$)	BBD ($n_0 = 1$)	BBD ($n_0 = 3$)
CCD ($n_0 = 1$) ($N = 43$)	D	-	-	55.8	75.3
	G	-	-	22.1	42.1
	IV	-	-	19.5	27.8
CCD ($n_0 = 3$) ($N = 45$)	D	-	-	-	56.6
	G	-	-	-	22.7
	IV	-	-	-	22.9
BBD ($n_0 = 1$) ($N = 41$)	D	44.2	-	-	-
	G	78.0	-	-	-
	IV	80.6	-	-	-
BBD ($n_0 = 3$) ($N = 43$)	D	24.7	43.4	-	-
	G	58.0	77.4	-	-
	IV	72.2	77.1	-	-

Note: Values are % of the 839 models for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G and is ≤ 0 for IV)

ตารางที่ 10 Comparisons of D , G , and IV Criteria (Across Models with at Least One Squared Term) for $k = 5$, $N = 41, 43, 45$

DESIGN 2

DESIGN 1		CCD ($n_0 = 1$)	CCD ($n_0 = 3$)	BBD ($n_0 = 1$)	BBD ($n_0 = 3$)
CCD ($n_0 = 1$) ($N = 43$)	D	-	-	49.6	71.9
	G	-	-	11.1	34.0
	IV	-	-	8.5	18.0
CCD ($n_0 = 3$) ($N = 45$)	D	-	-	-	50.5
	G	-	-	-	11.8
	IV	-	-	-	12.38
BBD ($n_0 = 1$) ($N = 41$)	D	50.4	-	-	-
	G	88.9	-	-	-
	IV	91.5	-	-	-
BBD ($n_0 = 3$) ($N = 43$)	D	28.1	49.5	-	-
	G	66.0	88.2	-	-
	IV	82.0	87.6	-	-

Note: Values are % of the models ($q \geq 1$) for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G and is ≤ 0 for IV)

ตารางที่ 11 Comparisons of D , G , and IV Criteria (Across Models with at Least Two Squared Terms) for $k = 5$, $N = 41, 43, 45$

DESIGN 1		DESIGN 2			
		CCD ($n_0 = 1$)	CCD ($n_0 = 3$)	BBD ($n_0 = 1$)	BBD ($n_0 = 3$)
CCD ($n_0 = 1$) ($N = 43$)	D	-	-	35.8	63.1
	G	-	-	8.6	30.9
	IV	-	-	0.4	0.4
CCD ($n_0 = 3$) ($N = 45$)	D	-	-	-	37.1
	G	-	-	-	9.1
	IV	-	-	-	0
BBD ($n_0 = 1$) ($N = 41$)	D	64.2	-	-	-
	G	91.4	-	-	-
	IV	99.6	-	-	-
BBD ($n_0 = 3$) ($N = 43$)	D	37.0	62.9	-	-
	G	69.1	90.9	-	-
	IV	99.6	100	-	-

Note: Values are % of the models ($q \geq 2$) for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G and is ≤ 0 for IV)

ตารางที่ 12 Comparisons of D , G , and IV Criteria (Across Models with at Least Three Squared Terms) for $k = 5$, $N = 41, 43, 45$

DESIGN 1		DESIGN 2			
		CCD ($n_0 = 1$)	CCD ($n_0 = 3$)	BBD ($n_0 = 1$)	BBD ($n_0 = 3$)
CCD ($n_0 = 1$) ($N = 43$)	D	-	-	17.7	45.0
	G	-	-	4.8	24.2
	IV	-	-	0	0
CCD ($n_0 = 3$) ($N = 45$)	D	-	-	-	20.1
	G	-	-	-	4.8
	IV	-	-	-	0
BBD ($n_0 = 1$) ($N = 41$)	D	82.4	-	-	-
	G	95.2	-	-	-
	IV	100	-	-	-
BBD ($n_0 = 3$) ($N = 43$)	D	55.0	80.0	-	-
	G	75.8	95.2	-	-
	IV	100	100	-	-

Note: Values are % of the models ($q \geq 3$) for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G and is ≤ 0 for IV)

ตารางที่ 13 Design Criteria Comparison Ranking for $k = 5$, $N = 43$

DESIGN		
Design Criterion	CCD ($n_0 = 1$)	BBD ($n_0 = 3$)
D	1,1,1,2	2,2,2,1
G	2,2,2,2	1,1,1,1
IV	2,2,2,2	1,1,1,1

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models except for IV criterion, I_1 = Rank across models ($q \geq 1$) , I_2 = Rank across models ($q \geq 2$) , I_3 = Rank across models ($q \geq 3$) .

ตารางที่ 14 Comparisons of D , G Criteria for $k = 5$, $N = 23, 25, 27, 29$

		DESIGN 2			
DESIGN 1		SCD ($n_0 = 1$)	SCD ($n_0 = 3$)	PBD ($n_0 = 1$)	PBD ($n_0 = 3$)
SCD ($n_0 = 1$)	D	-	-	93.6	98.6
	G	-	-	97.0	99.3
SCD ($n_0 = 3$)	D	-	-	-	95.2
	G	-	-	-	98.0
PBD ($n_0 = 1$)	D	6.4	-	-	-
	G	3.0	-	-	-
PBD ($n_0 = 3$)	D	1.4	4.8	-	-
	G	0.7	2.0	-	-

Note: Values are % of the 839 models for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G)

ตารางที่ 15 Comparisons of D , G Criteria (Across Models with at Least One Squared Term) for $k = 5$, $N = 23, 25, 27, 29$

		DESIGN 2			
DESIGN 1		SCD ($n_0 = 1$)	SCD ($n_0 = 3$)	PBD ($n_0 = 1$)	PBD ($n_0 = 3$)
SCD ($n_0 = 1$)	D	-	-	92.7	98.4
	G	-	-	96.6	99.2
SCD ($n_0 = 3$)	D	-	-	-	94.6
	G	-	-	-	97.7
PBD ($n_0 = 1$)	D	7.3	-	-	-
	G	3.4	-	-	-
PBD ($n_0 = 3$)	D	1.6	5.4	-	-
	G	0.8	2.3	-	-

Note: Values are % of the 736 models ($q \geq 1$) for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G)

ตารางที่ 16 Comparisons of D , G Criteria (Across Models with at Least Two Squared

Terms) for $k = 5$, $N = 23, 25, 27, 29$

		DESIGN 2			
DESIGN 1		SCD ($n_0 = 1$)	SCD ($n_0 = 3$)	PBD ($n_0 = 1$)	PBD ($n_0 = 3$)
SCD ($n_0 = 1$)	D	-	-	91.4	97.9
	G	-	-	97.0	98.9
SCD ($n_0 = 3$)	D	-	-	-	93.5
	G	-	-	-	98.1
PBD ($n_0 = 1$)	D	8.6	-	-	-
	G	3.1	-	-	-
PBD ($n_0 = 3$)	D	2.1	6.5	-	-
	G	1.1	1.9	-	-

Note: Values are % of the 525 models ($q \geq 2$) for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G)

ตารางที่ 17 Comparisons of D , G Criteria (Across Models with at Least Three Squared

Terms) for $k = 5$, $N = 23, 25, 27, 29$

		DESIGN 2			
DESIGN 1		SCD ($n_0 = 1$)	SCD ($n_0 = 3$)	PBD ($n_0 = 1$)	PBD ($n_0 = 3$)
SCD ($n_0 = 1$)	D	-	-	89.6	96.5
	G	-	-	96.2	98.0
SCD ($n_0 = 3$)	D	-	-	-	90.7
	G	-	-	-	98.0
PBD ($n_0 = 1$)	D	10.4	-	-	-
	G	3.8	-	-	-
PBD ($n_0 = 3$)	D	3.5	9.3	-	-
	G	2.1	2.1	-	-

Note: Values are % of the 289 models ($q \geq 3$) for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G)

ตารางที่ 18 Design Criteria Comparison Ranking for $k = 5$, $N = 23, 27$

DESIGN		
Design Criterion	PBD ($n_0 = 1$) , $N = 23$	SCD ($n_0 = 1$) , $N = 27$
D	2,2,2,2	1,1,1,1
G	2,2,2,2	1,1,1,1

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models, I_1 = Rank across models ($q \geq 1$) ,
 I_2 = Rank across models ($q \geq 2$) , I_3 = Rank across models ($q \geq 3$) .

ตารางที่ 19 Design Criteria Comparison Ranking for $k = 5$, $N = 25, 27$

DESIGN		
Design Criterion	PBD ($n_0 = 3$) , $N = 25$	SCD ($n_0 = 1$) , $N = 27$
D	2,2,2,2	1,1,1,1
G	2,2,2,2	1,1,1,1

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models, I_1 = Rank across models ($q \geq 1$) ,
 I_2 = Rank across models ($q \geq 2$) , I_3 = Rank across models ($q \geq 3$) .

ตารางที่ 20 Design Criteria Comparison Ranking for $k = 5$, $N = 25, 29$

DESIGN		
Design Criterion	PBD ($n_0 = 3$) , $N = 25$	SCD ($n_0 = 3$) , $N = 29$
D	2,2,2,2	1,1,1,1
G	2,2,2,2	1,1,1,1

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models, I_1 = Rank across models ($q \geq 1$) ,
 I_2 = Rank across models ($q \geq 2$) , I_3 = Rank across models ($q \geq 3$) .

ตารางที่ 21 Comparisons of D , G Criteria for $k = 5$, $N = 31, 33, 35$

		DESIGN 2			
DESIGN 1		USD ($n_0 = 1$)	USD ($n_0 = 3$)	PBD ($r_s = 2, n_0 = 1$)	PBD ($r_s = 2, n_0 = 3$)
USD ($n_0 = 1$)	D	-	-	71.4	-
$N = 31$	G	-	-	60.6	-
USD ($n_0 = 3$)	D	-	-	66.6	71.8
$N = 33$	G	-	-	60.2	61.9
PBD ($r_s = 2, n_0 = 1$)	D	28.6	33.4	-	-
$N = 33$	G	39.5	39.8	-	-
PBD ($r_s = 2, n_0 = 3$)	D	-	28.3	-	-
$N = 35$	G	-	38.1	-	-

Note: Values are % of the 839 models for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G)

ตารางที่ 22 Comparisons of D , G Criteria (Across Models with at Least One Squared Term) for $k = 5$, $N = 31, 33, 35$

		DESIGN 2			
DESIGN 1		USD ($n_0 = 1$)	USD ($n_0 = 3$)	PBD ($r_s = 2, n_0 = 1$)	PBD ($r_s = 2, n_0 = 3$)
USD ($n_0 = 1$)	D	-	-	67.8	-
$N = 31$	G	-	-	56.4	-
USD ($n_0 = 3$)	D	-	-	62.6	68.2
$N = 33$	G	-	-	56.3	57.9
PBD ($r_s = 2, n_0 = 1$)	D	32.2	37.4	-	-
$N = 33$	G	43.6	43.8	-	-
PBD ($r_s = 2, n_0 = 3$)	D	-	31.8	-	-
$N = 35$	G	-	42.1	-	-

Note: Values are % of the 736 models ($q \geq 1$) for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G)

ตารางที่ 23 Comparisons of D , G Criteria (Across Models with at Least Two Squared Term) for

$k = 5$, $N = 31, 33, 35$

DESIGN 2

DESIGN 1		USD ($n_0 = 1$)	USD ($n_0 = 3$)	PBD ($r_s = 2, n_0 = 1$)	PBD ($r_s = 2, n_0 = 3$)
USD ($n_0 = 1$)	D	-	-	63.8	-
$N = 31$	G	-	-	52.8	-
USD ($n_0 = 3$)	D	-	-	58.3	64.4
$N = 33$	G	-	-	53.3	54.9
PBD ($r_s = 2, n_0 = 1$)	D	36.2	41.7	-	-
$N = 33$	G	47.2	46.7	-	-
PBD ($r_s = 2, n_0 = 3$)	D	-	35.6	-	-
$N = 35$	G	-	45.1	-	-

Note: Values are % of the 525 models ($q \geq 2$) for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G)

ตารางที่ 24 Comparisons of D , G Criteria (Across Models with at Least Three Squared Term) for

$k = 5$, $N = 31, 33, 35$

DESIGN 2

DESIGN 1		USD ($n_0 = 1$)	USD ($n_0 = 3$)	PBD ($r_s = 2, n_0 = 1$)	PBD ($r_s = 2, n_0 = 3$)
USD ($n_0 = 1$)	D	-	-	58.1	-
$N = 31$	G	-	-	46.7	-
USD ($n_0 = 3$)	D	-	-	52.9	58.5
$N = 33$	G	-	-	48.8	50.2
PBD ($r_s = 2, n_0 = 1$)	D	41.9	47.1	-	-
$N = 33$	G	53.3	51.2	-	-
PBD ($r_s = 2, n_0 = 3$)	D	-	41.5	-	-
$N = 35$	G	-	49.8	-	-

Note: Values are % of the 289 models ($q \geq 3$) for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G)

ตารางที่ 25 Design Criteria Comparison Ranking for $k = 5$, $N = 31, 33$

Design Criterion	DESIGN	
	PBD ($r_s = 2, n_0 = 1$)	USD ($n_0 = 1$)
	$N = 33$	$N = 31$
D	2,2,2,2	1,1,1,1
G	2,2,2,1	1,1,1,2

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models, I_1 = Rank across models ($q \geq 1$),
 I_2 = Rank across models ($q \geq 2$), I_3 = Rank across models ($q \geq 3$).

ตารางที่ 26 Design Criteria Comparison Ranking for $k = 5$, $N = 33$

Design Criterion	DESIGN	
	PBD ($r_s = 2, n_0 = 1$)	USD ($n_0 = 3$)
	$N = 33$	$N = 33$
D	2,2,2,2	1,1,1,1
G	2,2,2,1	1,1,1,2

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models, I_1 = Rank across models ($q \geq 1$),
 I_2 = Rank across models ($q \geq 2$), I_3 = Rank across models ($q \geq 3$).

ตารางที่ 27 Design Criteria Comparison Ranking for $k = 5$, $N = 33, 35$

Design Criterion	DESIGN	
	PBD ($r_s = 2, n_0 = 3$)	USD ($n_0 = 3$)
	$N = 35$	$N = 33$
D	2,2,2,2	1,1,1,1
G	2,2,2,2	1,1,1,1

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models, I_1 = Rank across models ($q \geq 1$),
 I_2 = Rank across models ($q \geq 2$), I_3 = Rank across models ($q \geq 3$).

ตารางที่ 28 Comparisons of D, G Criteria for $k = 5, N = 35, 37$

DESIGN 1		DESIGN 2	
		PBD ($r_s = 2, n_0 = 3$)	SCD ($r_s = 2, n_0 = 1$)
PBD ($r_s = 2, n_0 = 3$)	D	-	1.2
$N = 35$	G	-	1.1
SCD ($r_s = 2, n_0 = 1$)	D	98.8	-
$N = 37$	G	98.9	-

Note: Values are % of the 839 models for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G)

ตารางที่ 29 Comparisons of D, G Criteria (Across Models with at Least One Squared Term) for $k = 5, N = 35, 37$

DESIGN 1		DESIGN 2	
		PBD ($r_s = 2, n_0 = 3$)	SCD ($r_s = 2, n_0 = 1$)
PBD ($r_s = 2, n_0 = 3$)	D	-	1.4
$N = 35$	G	-	1.2
SCD ($r_s = 2, n_0 = 1$)	D	98.6	-
$N = 37$	G	98.8	-

Note: Values are % of the 736 models ($q \geq 1$) for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G)

ตารางที่ 30 Comparisons of D, G Criteria (Across Models with at Least Two Squared Term) for $k = 5, N = 35, 37$

DESIGN 1		DESIGN 2	
		PBD ($r_s = 2, n_0 = 3$)	SCD ($r_s = 2, n_0 = 1$)
PBD ($r_s = 2, n_0 = 3$)	D	-	1.7
$N = 35$	G	-	1.7
SCD ($r_s = 2, n_0 = 1$)	D	98.3	-
$N = 37$	G	98.3	-

Note: Values are % of the 525 models ($q \geq 2$) for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G)

ตารางที่ 31 Comparisons of D , G Criteria (Across Models with at Least Three Squared

Term) for $k = 5$, $N = 35, 37$

DESIGN 1		DESIGN 2	
		PBD ($r_s = 2, n_0 = 3$)	SCD ($r_s = 2, n_0 = 1$)
PBD ($r_s = 2, n_0 = 3$)	D	-	2.8
$N = 35$	G	-	3.1
SCD ($r_s = 2, n_0 = 1$)	D	97.2	-
$N = 37$	G	96.9	-

Note: Values are % of the 289 models ($q \geq 3$) for which DESIGN 1 is superior to DESIGN 2.

(superior implies the optimality criterion difference is ≥ 0 for D and G)

ตารางที่ 32 Design Criteria Comparison Ranking for $k = 5$, $N = 35, 37$

Design Criterion	DESIGN	
	PBD ($r_s = 2, n_0 = 3$)	SCD ($r_s = 2, n_0 = 1$)
	$N = 35$	$N = 37$
D	2,2,2,2	1,1,1,1
G	2,2,2,2	1,1,1,1

For I_0, I_1, I_2, I_3 : I_0 = Rank across 839 models, I_1 = Rank across models ($q \geq 1$),

I_2 = Rank across models ($q \geq 2$), I_3 = Rank across models ($q \geq 3$).

การเปรียบเทียบ Variance Dispersion Graphs(VDGs) สำหรับ the Full Second-order Model

การศึกษา Variance Dispersion Graphs สำหรับแผนแบบพื้นผิวผลตอบทางด้าน RSM จะช่วยให้ผู้ศึกษาทราบเกี่ยวกับความคงที่ของค่า Prediction Variance: $V(\mathbf{x}) = N \text{Var}[\hat{y}(\mathbf{x})] / \sigma^2$ เมื่อ $\text{Var}[\hat{y}(\mathbf{x})] = \mathbf{f}'(\mathbf{x})(\mathbf{X}'\mathbf{X})^{-1}\mathbf{f}(\mathbf{x})$ โดยที่ $\mathbf{f}(\mathbf{x})$ เป็นฟังก์ชันแสดงตัวแปรที่มีอยู่ในตัวแบบ นั่นคือ สำหรับ the Full Second-order Model ($k = 5$) จะได้ว่า $\mathbf{f}'(\mathbf{x}) = [1, x_1, x_2, \dots, x_5, x_{12}, x_{13}, \dots, x_{35}, x_{45}, x_1^2, \dots, x_5^2]$, $\mathbf{X}$ คือเมตริกซ์แผนแบบ(design matrix) และช่วยในการเปรียบเทียบแผนแบบที่ผู้ทำการทดลองจะเลือกใช้ก่อนที่จะทำการทดลองจริงเพื่อทราบถึงประสิทธิภาพของแผนแบบ ในการศึกษา VDG นั้น เพื่อความสะดวกในการเปรียบเทียบสำหรับทุกๆแผนแบบ จะคำนวณ Prediction Variance(PV) ในรูปของ Scaled Prediction Variance(SPV) ซึ่งเป็นการสเกลด้วยขนาดของการทดลองหรือขนาดของแผนแบบ (N) สามารถคำนวณได้ดังนี้

$$\text{SPV}(\mathbf{x}) = \frac{N \text{Var}[\hat{y}(\mathbf{x})]}{\sigma^2} = N \mathbf{f}'(\mathbf{x})(\mathbf{X}'\mathbf{X})^{-1}\mathbf{f}(\mathbf{x})$$

เมื่อ $\mathbf{X}$ คือเมตริกซ์แผนแบบ(design matrix), N คือขนาดของแผนแบบการทดลอง

VDG ประกอบด้วยกราฟ 3 ส่วน ดังนี้

1. การพล็อต the spherical variance V^r against the radius r : ซึ่งเป็นการคำนวณ averaged spherical variance $V(x)$ บนพื้นผิวทรงกลมที่มี radius r ดังนี้

$$V^r = \frac{N\varpi}{\sigma^2} \int_{U_r} \text{Var}[\hat{y}(x)] dx$$

เมื่อ U_r เป็นการอินทิเกรตบนพื้นผิวทรงกลมที่มี radius r และ $\varpi = (\int_{U_r} dx)^{-1}$

2. การพล็อต the maximum $V(x)$ บน radius r against r : ซึ่งคำนวณจาก

$$\max_{x \in U_r} \left[\frac{N \text{Var}[\hat{y}(x)]}{\sigma^2} \right] = \max_{x \in U_r} [V(x)]$$

3. การพล็อต the minimum $V(x)$ บน radius r against r

ผลการศึกษา VDG สำหรับแผนแบบพื้นผิวผลตอบ 5 ปัจจัยในขอบเขตทรงกลมเมื่อ $\alpha = \sqrt{k} = \sqrt{5}$ และตัวแบบคือ the full second order แสดงใน Fig. 1 ถึง 12 โดยมีแกน Y แทนค่า SPV แกน X แทนค่า radius และแกนอ้างอิงคือจำนวนพารามิเตอร์ในตัวแบบเท่ากับ 21 ($p = 21$) ดังต่อไปนี้

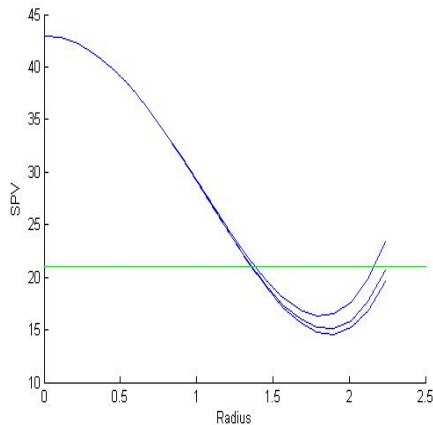


Fig.1 VDG for CCD ($n_0 = 1$)

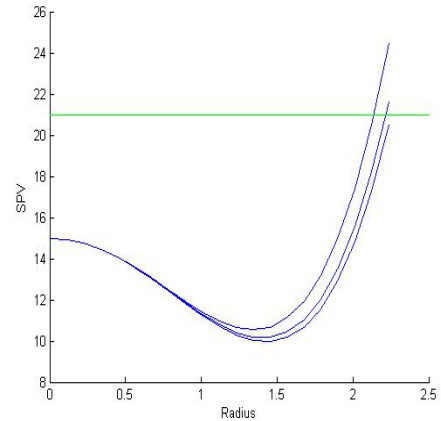


Fig. 2 VDG for CCD ($n_0 = 3$)

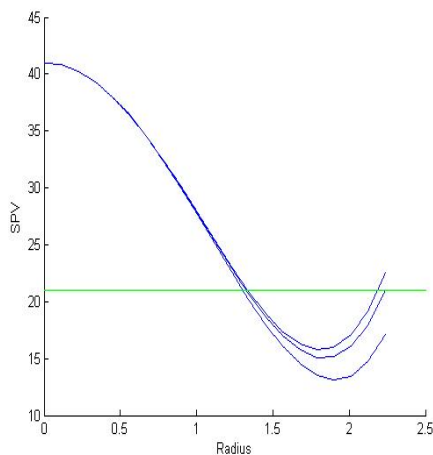


Fig.3 VDG for BBD ($n_0 = 1$)

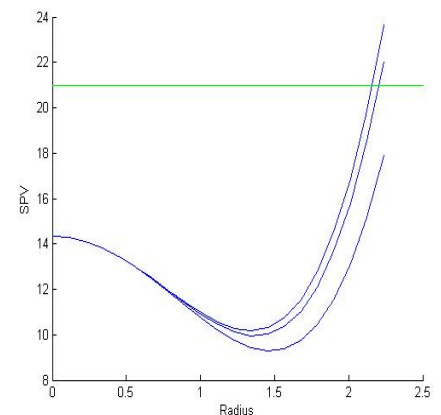


Fig.4 VDG for BBD ($n_0 = 3$)

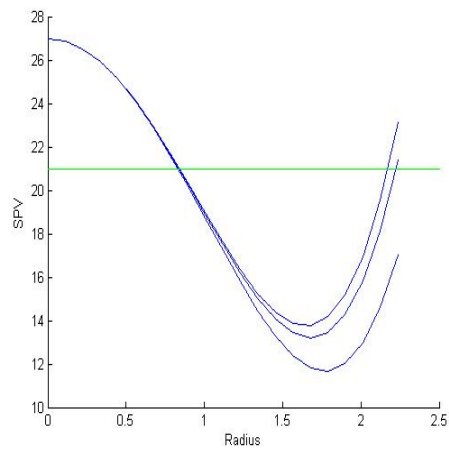


Fig.5 VDG for SCD ($n_0 = 1$)

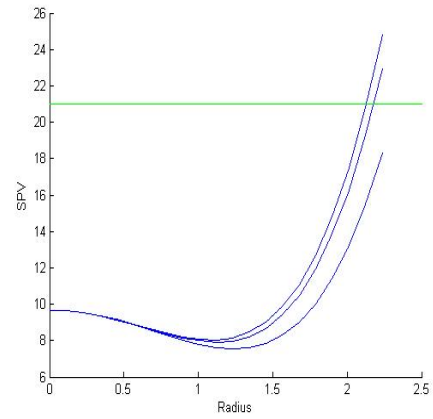


Fig.6 VDG for SCD ($n_0 = 3$)

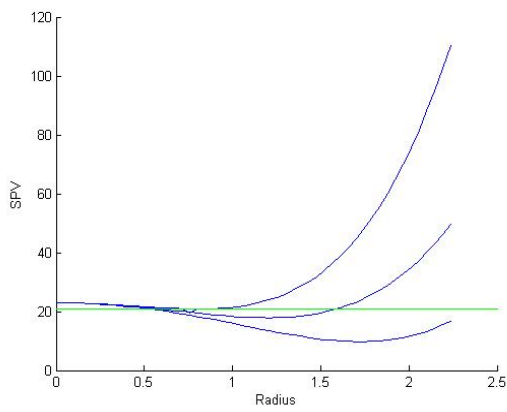


Fig. 7 VDG for PBD ($n_0 = 1$)

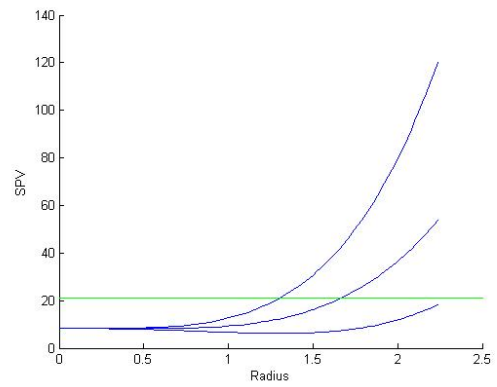


Fig. 8 VDG for PBD ($n_0 = 3$)

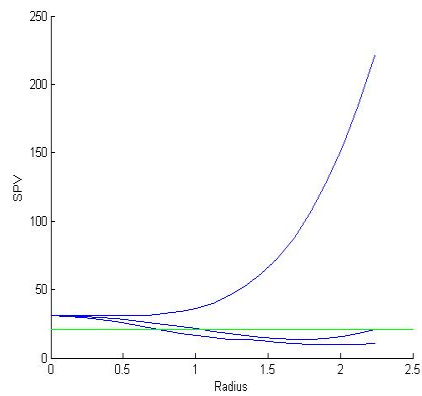


Fig.9 VDG for USD ($n_0 = 1$)

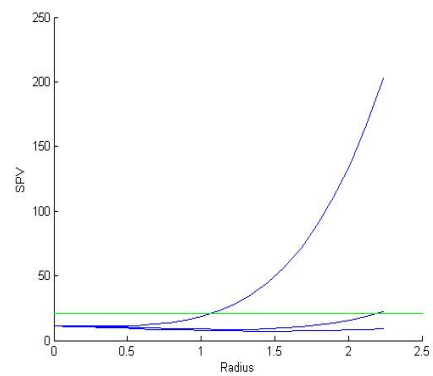


Fig.10 VDG for USD ($n_0 = 3$)

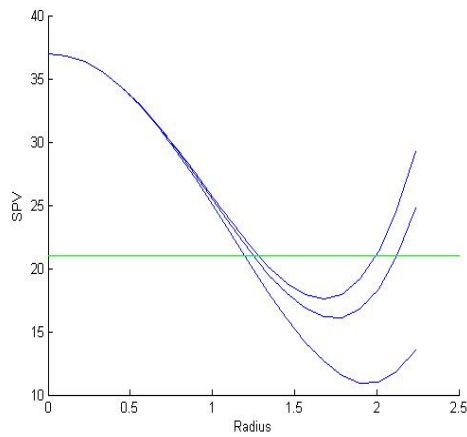


Fig.11 VDG for SCD ($r_s = 2, n_0 = 1$)

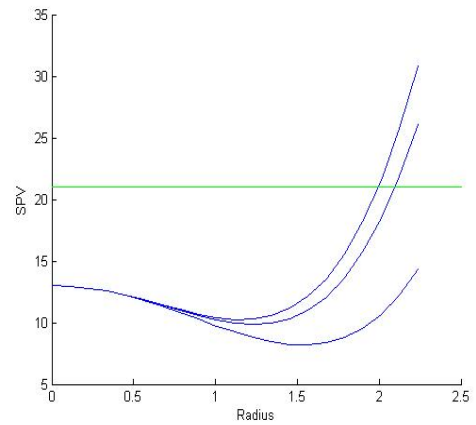


Fig.12 VDG for SCD ($r_s = 2, n_0 = 3$)

จาก Fig.1 ถึง 12 จะเห็นว่า พล็อต VDG ประกอบด้วย 3 เส้น คือ min SPV, average SPV และ max SPV ของแต่ละแผนแบบ โดยการพล็อตจะสิ้นสุดที่ radius $\sqrt{5}$ เนื่องจากทุกๆแผนแบบถูกสเกลให้มี radius เท่ากับ $\sqrt{5}$ จาก design center และ VDG สำหรับการเปรียบเทียบแผนแบบพื้นผิวผลตอบ 5 ปัจจัยในขอบเขตทรงกลมเมื่อตัวแบบคือ the full second order แสดงใน Fig. 13 ถึง 18 ดังต่อไปนี้

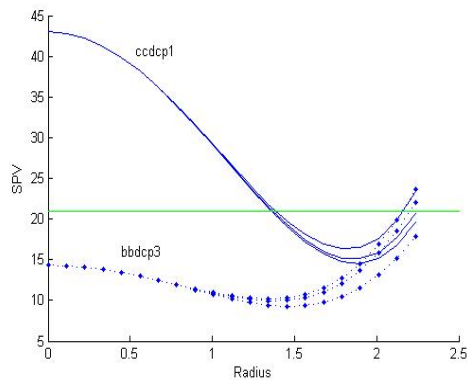


Fig.13 VDG for CCD ($n_0 = 1$) and
BBD ($n_0 = 3$)

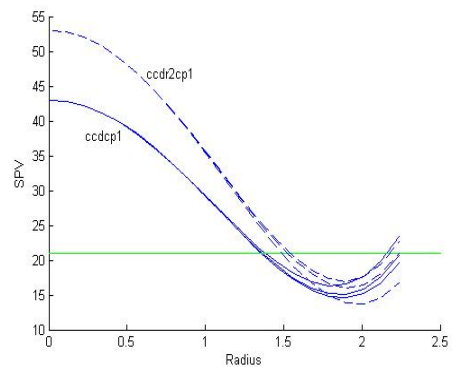


Fig.14 VDG for CCD ($r_s = 1, n_0 = 1$) and
CCD ($r_s = 2, n_0 = 1$)

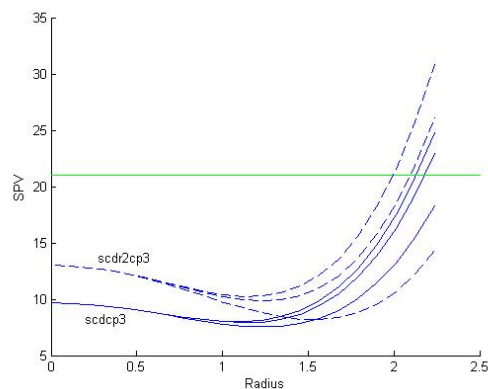


Fig.15 VDG for SCD ($r_s = 1, n_0 = 3$) and
SCD ($r_s = 2, n_0 = 3$)

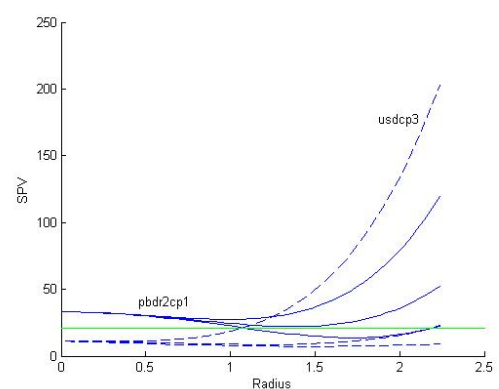


Fig.16 VDG for PBD ($r_s = 2, n_0 = 1$) and
USD ($n_0 = 3$)

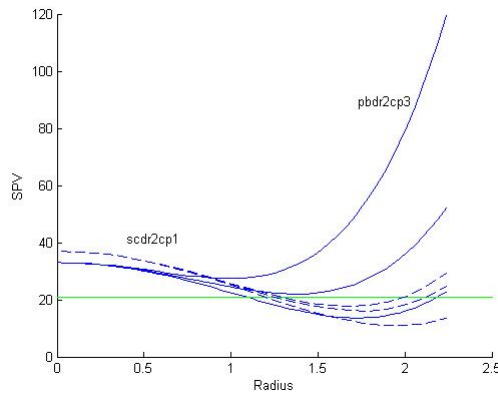


Fig.17 VDG for PBD ($r_s = 2, n_0 = 3$) and
SCD ($r_s = 2, n_0 = 1$)

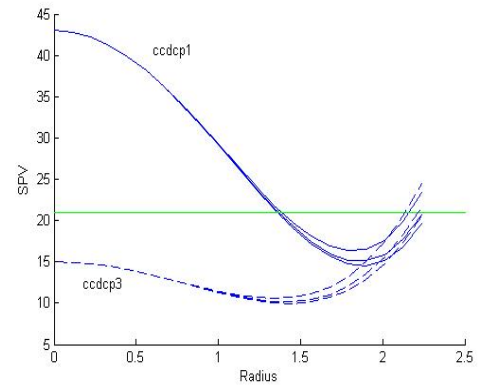


Fig.18 VDG for CCD ($r_s = 1, n_0 = 1$) and
CCD ($r_s = 1, n_0 = 3$)

ผลการเปรียบเทียบ CCD ($n_0 = 1$) และ BBD ($n_0 = 3$) จาก Fig.13 พบว่า

1. ที่ขนาดการทดลองเท่ากัน $N = 43$, BBD มี minimum และ maximum prediction ที่ต่ำกว่า หรือดีกว่า CCD โดย minimum SPV ของ BBD เกิดขึ้นที่ radius อยู่ระหว่าง 1 และ 1.7 ในขณะที่ minimum SPV ของ CCD เกิดขึ้นที่ radius อยู่ระหว่าง 1.5 และ 2
2. สำหรับ BBD ค่า maximum $V(x)$ ใน design region ประมาณ 23 ในขณะที่ค่า maximum $V(x)$ สำหรับ CCD ประมาณ 43 ดังนั้น G -efficiencies สำหรับ BBD และ CCD เท่ากับ $p / \text{Max } V(x) = (21 / 23) \times 100\% = 91.3\%$, $(21 / 43) \times 100\% = 48.8\%$ ตามลำดับ ซึ่งสอดคล้องกับข้อมูลในตารางที่ 6
3. BBD มีความคงที่ของค่า Prediction Variance มากกว่า CCD

ผลการเปรียบเทียบ CCD ($r_s = 1, n_0 = 1, N = 43$) และ CCD ($r_s = 2, n_0 = 1, N = 53$) จาก Fig.14 พบว่า

1. CCD ($r_s = 1, n_0 = 1, N = 43$) มี maximum prediction ที่ต่ำกว่า หรือดีกว่า CCD ($r_s = 2, n_0 = 1, N = 53$)
2. CCD ($r_s = 1, n_0 = 1$) มีความคงที่ของค่า Prediction Variance มากกว่า CCD ($r_s = 2, n_0 = 1$) ซึ่งให้ผลสอดคล้องกับการเปรียบเทียบ SCD ($r_s = 1, n_0 = 3, N = 29$) และ SCD ($r_s = 2, n_0 = 3, N = 39$) จาก Fig. 15

ผลการเปรียบเทียบ PBD ($r_s = 2, n_0 = 1, N = 33$) และ USD ($n_0 = 3, N = 33$) จาก Fig.16 พบว่า

1. ที่ขนาดการทดลองเท่ากัน $N = 33$, USD มี minimum prediction ที่ต่ำกว่าหรือดีกว่า PBD โดย minimum SPV ของ USD เกิดขึ้นที่ radius อยู่ระหว่าง 1 และ 2 ในขณะที่ minimum SPV ของ PBD เกิดขึ้นที่ radius อยู่ระหว่าง 1.5 และ 2 และ PBD มี maximum prediction ที่ต่ำกว่าหรือดีกว่า USD ดังนั้นเมื่อพิจารณาเกณฑ์ G จะพบว่า PBD เป็นแผนแบบที่ดีกว่า USD ซึ่งสอดคล้องกับข้อมูลในตารางที่ 6
2. PBD มีความคงที่ของค่า Prediction Variance มากกว่า USD

ผลการเปรียบเทียบ PBD ($r_s = 2, n_0 = 3, N = 35$) และ SCD ($r_s = 2, n_0 = 1, N = 37$) จาก Fig.17 พบว่า

1. SCD มี minimum และ maximum prediction ที่ต่ำกว่าหรือดีกว่า PBD โดย minimum SPV ของ SCD และของ PBD เกิดขึ้นที่ radius อยู่ระหว่าง 1.5 และ 2
2. SCD มี maximum prediction ที่ต่ำกว่าหรือดีกว่า PBD ดังนั้นเมื่อพิจารณาเกณฑ์ G จะพบว่า SCD เป็นแผนแบบที่ดีกว่า PBD ซึ่งสอดคล้องกับข้อมูลในตารางที่ 6
3. SCD มีความคงที่ของค่า Prediction Variance มากกว่า PBD

ผลการเปรียบเทียบ CCD ($r_s = 1, n_0 = 1, N = 43$) และ CCD ($r_s = 1, n_0 = 3, N = 45$) จาก Fig.18 พบว่า

1. CCD ($r_s = 1, n_0 = 1$) มี minimum prediction ที่ต่ำกว่าหรือดีกว่า CCD ($r_s = 1, n_0 = 3$) และมี maximum prediction ที่สูงกว่า CCD ($r_s = 1, n_0 = 3$) โดย minimum SPV ของ CCD ($r_s = 1, n_0 = 1$) เกิดขึ้นที่ radius อยู่ระหว่าง 1.5 และ 2 และของ CCD ($r_s = 1, n_0 = 3$) เกิดขึ้นที่ radius อยู่ระหว่าง 1.2 และ 1.7
2. CCD ($r_s = 1, n_0 = 3$) มี maximum prediction ที่ต่ำกว่าหรือดีกว่า CCD ($r_s = 1, n_0 = 1$) ดังนั้นเมื่อพิจารณาเกณฑ์ G จะพบว่า CCD ($r_s = 1, n_0 = 3$) เป็นแผนแบบที่ดีกว่า CCD ($r_s = 1, n_0 = 1$) ซึ่งสอดคล้องกับข้อมูลในตารางที่ 6
3. CCD ($r_s = 1, n_0 = 3$) มีความคงที่ของค่า Prediction Variance มากกว่า CCD ($r_s = 1, n_0 = 1$)

Table of Criteria Values for CCDs

Dsgn	P	dv	l	c	q	$r_s = 1, n_0 = 0$		$r_s = 1, n_0 = 1$			$r_s = 1, n_0 = 3$		
						D	G	D	G	IV	D	G	IV
1	21	5	5	10	5	0	0	80.710263	85.964912	29.1527	80.159087	48.837209	62.0441
2	20	5	5	9	5	0	0	81.222869	81.871345	28.7035	80.457461	46.511628	61.6148
3	20	5	5	10	4	83.396147	87.719298	81.09568	84.996971	21.2397	82.908568	88.865283	26.2944
4	19	5	4	10	4	82.602991	88.253088	80.498008	82.541627	20.4411	82.196443	86.296359	25.5313
5	19	5	5	8	5	0	0	81.793223	77.777778	28.2543	80.788535	44.186047	61.1856
6	19	5	5	8	5	0	0	81.793223	77.777778	28.2543	80.788535	44.186047	61.1856
7	19	5	5	9	4	83.793731	83.333333	81.658404	84.277089	20.7905	83.381323	88.108956	25.8652
8	19	5	5	9	4	83.793731	83.333333	81.658404	78.891998	20.7905	83.381323	82.011288	25.8652
9	19	5	5	10	3	84.889536	88.966539	80.999646	83.340517	17.0474	83.617663	87.035203	18.248
10	18	5	4	9	4	82.974664	87.339948	81.054415	81.6952	19.9919	82.651634	85.407696	25.1021
11	18	5	4	10	3	84.120455	86.211494	80.364357	80.76648	16.2488	82.898941	84.343022	17.4849
12	18	5	5	7	5	0	0	82.431647	73.684211	27.8051	81.157993	41.860465	60.7563
13	18	5	5	7	5	0	0	82.431647	73.684211	27.8051	81.157993	41.860465	60.7563
14	18	5	5	7	5	0	0	82.431647	73.684211	27.8051	81.157993	41.860465	60.7563
15	18	5	5	8	4	84.237715	78.947369	82.288235	82.898482	20.3413	83.909767	86.664356	25.4359
16	18	5	5	8	4	84.237715	78.947369	82.288235	74.739787	20.3413	83.909767	77.694904	25.4359
17	18	5	5	8	4	84.237715	78.947369	82.288235	79.841453	20.3413	83.909767	83.471642	25.4359
18	18	5	5	8	4	84.237715	78.947369	82.288235	74.739787	20.3413	83.909767	77.694904	25.4359
19	18	5	5	8	4	84.237715	78.947369	82.288235	74.739787	20.3413	83.909767	77.694904	25.4359
20	18	5	5	9	3	85.400947	85.365869	81.587673	79.971315	16.5982	84.160839	83.514396	17.8187
21	18	5	5	9	3	85.400947	87.581622	81.587673	82.098463	16.5982	84.160839	85.705234	17.8187
22	18	5	5	9	3	85.400947	78.947369	81.587673	75.271351	16.5982	84.160839	77.820326	17.8187
23	18	5	5	10	2	85.207486	86.443342	80.59508	81.097178	14.3182	83.627358	84.60199	14.4357
24	17	5	4	8	4	83.392042	85.714966	81.680833	80.182086	19.5427	83.16336	83.822467	24.6728
25	17	5	4	8	4	83.392042	82.487729	81.680833	77.156577	19.5427	83.16336	80.662824	24.6728
26	17	5	4	9	3	84.611828	82.491223	80.944722	77.284992	15.7996	83.426859	80.705098	17.0556
27	17	5	4	9	3	84.611828	84.683287	80.944722	79.389796	15.7996	83.426859	82.872689	17.0556
28	17	5	4	9	3	84.611828	82.872738	80.944722	78.212163	15.7996	83.426859	81.333777	17.0556
29	17	5	4	10	2	84.408894	83.556847	79.902397	78.398704	13.5196	82.867028	81.780822	13.6725
30	17	5	5	6	5	0	0	83.15108	69.590643	27.3559	81.572917	39.534884	60.3271
31	17	5	5	6	5	0	0	83.15108	69.590643	27.3559	81.572917	39.534884	60.3271
32	17	5	5	7	4	84.736716	74.561404	82.997913	80.912027	19.8921	84.504346	84.58473	25.0067
33	17	5	5	7	4	84.736716	74.561404	82.997913	70.587577	19.8921	84.504346	73.378521	25.0067
34	17	5	5	7	4	84.736716	74.561404	82.997913	70.587577	19.8921	84.504346	73.378521	25.0067
35	17	5	5	7	4	84.736716	74.561404	82.997913	79.157855	19.8921	84.504346	82.752855	25.0067
36	17	5	5	7	4	84.736716	74.561404	82.997913	70.587577	19.8921	84.504346	73.378521	25.0067
37	17	5	5	7	4	84.736716	74.561404	82.997913	78.293011	19.8921	84.504346	81.84967	25.0067
38	17	5	5	7	4	84.736716	74.561404	82.997913	70.587577	19.8921	84.504346	73.378521	25.0067
39	17	5	5	7	4	84.736716	74.561404	82.997913	70.587577	19.8921	84.504346	73.378521	25.0067
40	17	5	5	8	3	85.97617	83.703597	82.249933	78.425239	16.149	84.772094	81.893197	17.3895
41	17	5	5	8	3	85.97617	85.557834	82.249933	80.255628	16.149	84.772094	83.749203	17.3895
42	17	5	5	8	3	85.97617	74.561404	82.249933	71.089609	16.149	84.772094	73.496975	17.3895
43	17	5	5	8	3	85.97617	74.561404	82.249933	71.089609	16.149	84.772094	73.496975	17.3895
44	17	5	5	6	5	0	0	83.15108	69.590643	27.3559	81.572917	39.534884	60.3271
45	17	5	5	8	3	85.97617	80.623321	82.249933	75.528465	16.149	84.772094	78.874707	17.3895
46	17	5	5	8	3	85.97617	82.715977	82.249933	77.537437	16.149	84.772094	80.943832	17.3895
47	17	5	5	8	3	85.97617	80.987715	82.249933	76.413728	16.149	84.772094	79.475087	17.3895
48	17	5	5	9	2	85.769964	82.715987	81.190801	77.605623	13.869	84.203236	80.956166	14.0064
49	17	5	5	9	2	85.769964	84.518047	81.190801	79.37573	13.869	84.203236	82.751947	14.0064
50	17	5	5	9	2	85.769964	74.561404	81.190801	71.391979	13.869	84.203236	73.548648	14.0064

51	17	5	5	10	1	84.973477	83.397535	79.948655	78.351028	12.3139	83.23034	81.652975	12.0603
52	16	5	3	9	3	83.732782	79.300614	80.227456	74.301806	15.001	82.60878	77.586299	16.2925
53	16	5	4	7	4	83.864103	83.432409	82.391341	78.052923	19.0935	83.74284	81.593668	24.2436
54	16	5	4	7	4	83.864103	81.583699	82.391341	76.319445	19.0935	83.74284	79.783498	24.2436
55	16	5	4	7	4	83.864103	80.672909	82.391341	75.465493	19.0935	83.74284	78.891733	24.2436
56	16	5	4	8	3	85.168055	80.676461	81.602643	75.596027	15.3504	84.024786	78.934699	16.6264
57	16	5	4	8	3	85.168055	82.507642	81.602643	77.404049	15.3504	84.024786	80.767799	16.6264
58	16	5	4	8	3	85.168055	77.638798	81.602643	72.738816	15.3504	84.024786	75.957739	16.6264
59	16	5	4	8	3	85.168055	79.701917	81.602643	74.719808	15.3504	84.024786	77.997825	16.6264
60	16	5	4	8	3	85.168055	77.997871	81.602643	73.611447	15.3504	84.024786	76.549437	16.6264
61	16	5	4	9	2	84.951036	79.701928	80.486623	74.787087	13.0704	83.425828	78.009994	13.2433
62	16	5	4	9	2	84.951036	81.480543	80.486623	76.534648	13.0704	83.425828	79.782602	13.2433
63	16	5	4	10	1	84.113092	80.374392	79.178918	75.522765	11.5153	82.402042	78.697589	11.2972
64	16	5	5	5	5	0	0	83.967949	65.497076	26.9067	82.042243	37.209302	59.8978
65	16	5	5	6	4	85.301626	70.175439	83.80362	78.072759	19.4429	85.178285	81.614381	24.5774
66	16	5	5	6	4	85.301626	70.175439	83.80362	66.435367	19.4429	85.178285	69.062137	24.5774
67	16	5	5	5	5	0	0	83.967949	65.497076	26.9067	82.042243	37.209302	59.8978
68	16	5	5	5	5	0	0	83.967949	65.497076	26.9067	82.042243	37.209302	59.8978
69	16	5	5	5	5	0	0	83.967949	65.497076	26.9067	82.042243	37.209302	59.8978
70	16	5	5	6	4	85.301626	70.175439	83.80362	77.022156	19.4429	85.178285	80.517309	24.5774
71	16	5	5	6	4	85.301626	70.175439	83.80362	66.435367	19.4429	85.178285	69.062137	24.5774
72	16	5	5	6	4	85.301626	70.175439	83.80362	66.435367	19.4429	85.178285	69.062137	24.5774
73	16	5	5	6	4	85.301626	70.175439	83.80362	66.435367	19.4429	85.178285	69.062137	24.5774
74	16	5	5	7	3	86.62793	81.409257	83.001403	76.285419	15.6997	85.465064	79.652909	16.9602
75	16	5	5	7	3	86.62793	83.872416	83.001403	79.222294	15.6997	85.465064	82.344643	16.9602
76	16	5	5	7	3	86.62793	70.175439	83.001403	66.907867	15.6997	85.465064	69.173623	16.9602
77	16	5	5	7	3	86.62793	70.175439	83.001403	66.907867	15.6997	85.465064	69.173623	16.9602
78	16	5	5	7	3	86.62793	79.648172	83.001403	74.628728	15.6997	85.465064	77.926916	16.9602
79	16	5	5	7	3	86.62793	80.026117	83.001403	75.547581	15.6997	85.465064	78.549817	16.9602
80	16	5	5	7	3	86.62793	70.175439	83.001403	66.907867	15.6997	85.465064	69.173623	16.9602
81	16	5	5	5	5	0	0	83.967949	65.497076	26.9067	82.042243	37.209302	59.8978
82	16	5	5	7	3	86.62793	78.779856	83.001403	73.81199	15.6997	85.465064	77.07595	16.9602
83	16	5	5	7	3	86.62793	83.872416	83.001403	79.222294	15.6997	85.465064	82.344643	16.9602
84	16	5	5	7	3	86.62793	70.175439	83.001403	66.907867	15.6997	85.465064	69.173623	16.9602
85	16	5	5	7	3	86.62793	70.175439	83.001403	66.907867	15.6997	85.465064	69.173623	16.9602
86	16	5	5	7	3	86.62793	70.175439	83.001403	66.907867	15.6997	85.465064	69.173623	16.9602
87	16	5	5	8	2	86.407191	78.788765	81.866253	73.925696	13.4198	84.855839	77.114381	13.5772
88	16	5	5	8	2	86.407191	80.525637	81.866253	75.595748	13.4198	84.855839	78.830656	13.5772
89	16	5	5	8	2	86.407191	84.01297	81.866253	79.923072	13.4198	84.855839	82.666569	13.5772
90	16	5	5	8	2	86.407191	70.175439	81.866253	67.19245	13.4198	84.855839	69.222257	13.5772
91	16	5	5	8	2	86.407191	70.175439	81.866253	67.19245	13.4198	84.855839	69.222257	13.5772
92	16	5	5	6	4	85.301626	70.175439	83.80362	78.072759	19.4429	85.178285	81.614381	24.5774
93	16	5	5	6	4	85.301626	70.175439	83.80362	66.435367	19.4429	85.178285	69.062137	24.5774
94	16	5	5	8	2	86.407191	77.850341	81.866253	73.040586	13.4198	84.855839	76.194038	13.5772
95	16	5	5	8	2	86.407191	76.29966	81.866253	71.928541	13.4198	84.855839	74.814493	13.5772
96	16	5	5	8	2	86.407191	84.01297	81.866253	79.923072	13.4198	84.855839	82.666569	13.5772
97	16	5	5	8	2	86.407191	76.339801	81.866253	72.495857	13.4198	84.855839	75.065625	13.5772
98	16	5	5	9	1	85.554884	79.547921	80.536133	74.740991	11.8647	83.814504	77.886397	11.6311
99	16	5	5	9	1	85.554884	84.083424	80.536133	80.394957	11.8647	83.814504	82.847817	11.6311
100	16	5	5	10	0	84.369977	93.496209	79.085599	87.604407	10.7211	82.529167	91.44615	10.344
101	15	5	3	8	3	84.261369	77.31784	80.875204	72.455291	14.5518	83.185798	75.651462	15.8633
102	15	5	3	8	3	84.261369	74.344325	80.875204	69.657943	14.5518	83.185798	72.737155	15.8633
103	15	5	3	9	2	84.032366	76.363344	79.695934	71.662821	12.2718	82.553439	74.745693	12.4802
104	15	5	3	9	2	84.032366	74.773335	79.695934	70.521775	12.2718	82.553439	73.330778	12.4802
105	15	5	4	6	4	84.402336	79.131515	83.204059	74.031367	18.6443	84.404466	77.388687	23.8143

106	15	5	4	7	3	85.802867	78.221444	82.354755	73.305534	14.9011	84.707619	76.537152	16.1971
107	15	5	4	7	3	85.802867	80.648907	82.354755	76.201029	14.9011	84.707619	79.190342	16.1971
108	15	5	4	7	3	85.802867	76.488122	82.354755	71.674643	14.9011	84.707619	74.838226	16.1971
109	15	5	4	7	3	85.802867	76.859951	82.354755	72.578968	14.9011	84.707619	75.451147	16.1971
110	15	5	4	7	3	85.802867	75.634182	82.354755	70.871275	14.9011	84.707619	74.00128	16.1971
111	15	5	4	7	3	85.802867	80.648907	82.354755	76.201029	14.9011	84.707619	79.190342	16.1971
112	15	5	4	7	3	85.802867	75.997735	82.354755	71.755316	14.9011	84.707619	74.600514	16.1971
113	15	5	4	8	2	85.569674	75.642941	81.153911	70.983094	12.6212	84.063692	74.039069	12.8141
114	15	5	4	8	2	85.569674	77.35152	81.153911	72.626389	12.6212	84.063692	75.727565	12.8141
115	15	5	4	8	2	85.569674	80.787535	81.153911	76.892758	12.6212	84.063692	79.507958	12.8141
116	15	5	4	6	4	84.402336	80.235865	83.204059	75.067027	18.6443	84.404466	78.470095	23.8143
117	15	5	4	8	2	85.569674	74.720557	81.153911	70.112894	12.6212	84.063692	73.134369	12.8141
118	15	5	4	8	2	85.569674	73.197541	81.153911	69.020296	12.6212	84.063692	71.779247	12.8141
119	15	5	4	8	2	85.569674	80.787535	81.153911	76.892758	12.6212	84.063692	79.507958	12.8141
120	15	5	4	8	2	85.569674	73.236948	81.153911	69.577592	12.6212	84.063692	72.025845	12.8141
121	15	5	4	9	1	84.669656	76.389508	79.748227	71.785102	11.0661	82.963756	74.798365	10.868
122	15	5	4	9	1	84.669656	80.857027	79.748227	77.358729	11.0661	82.963756	79.686808	10.868
123	15	5	4	10	0	83.419412	90.168422	78.217053	84.495809	9.9226	81.607343	88.194774	9.5809
124	15	5	5	4	5	0	0	84.903439	61.403509	26.4575	82.57741	34.883721	59.4686
125	15	5	5	4	5	0	0	84.903439	61.403509	26.4575	82.57741	34.883721	59.4686
126	15	5	5	5	4	85.946412	65.789474	84.726214	73.193212	18.9937	85.948582	76.513482	24.1482
127	15	5	5	5	4	85.946412	65.789474	84.726214	62.283156	18.9937	85.948582	64.745753	24.1482
128	15	5	5	5	4	85.946412	65.789474	84.726214	62.283156	18.9937	85.948582	64.745753	24.1482
129	15	5	5	6	3	87.372565	80.983752	83.861372	75.905214	15.2505	86.25728	79.244918	16.531
130	15	5	5	6	3	87.372565	65.789474	83.861372	62.726125	15.2505	86.25728	64.850272	16.531
131	15	5	5	5	4	85.946412	65.789474	84.726214	72.96193	18.9937	85.948582	76.271974	24.1482
132	15	5	5	5	4	85.946412	65.789474	84.726214	62.283156	18.9937	85.948582	64.745753	24.1482
133	15	5	5	5	4	85.946412	65.789474	84.726214	62.283156	18.9937	85.948582	64.745753	24.1482
134	15	5	5	4	5	0	0	84.903439	61.403509	26.4575	82.57741	34.883721	59.4686
135	15	5	5	5	4	85.946412	65.789474	84.726214	73.193212	18.9937	85.948582	76.513482	24.1482
136	15	5	5	5	4	85.946412	65.789474	84.726214	62.283156	18.9937	85.948582	64.745753	24.1482
137	15	5	5	5	4	85.946412	65.789474	84.726214	62.283156	18.9937	85.948582	64.745753	24.1482
138	15	5	5	5	4	85.946412	65.789474	84.726214	73.193212	18.9937	85.948582	76.513482	24.1482
139	15	5	5	5	4	85.946412	65.789474	84.726214	62.283156	18.9937	85.948582	64.745753	24.1482
140	15	5	5	5	4	85.946412	65.789474	84.726214	62.283156	18.9937	85.948582	64.745753	24.1482
141	15	5	5	6	3	87.372565	77.190791	83.861372	72.335752	15.2505	86.25728	75.526935	16.531
142	15	5	5	6	3	87.372565	77.213038	83.861372	72.436282	15.2505	86.25728	75.584543	16.531
143	15	5	5	6	3	87.372565	78.63039	83.861372	74.2709	15.2505	86.25728	77.198103	16.531
144	15	5	5	6	3	87.372565	65.789474	83.861372	62.726125	15.2505	86.25728	64.850272	16.531
145	15	5	5	6	3	87.372565	65.789474	83.861372	62.726125	15.2505	86.25728	64.850272	16.531
146	15	5	5	6	3	87.372565	65.789474	83.861372	62.726125	15.2505	86.25728	64.850272	16.531
147	15	5	5	6	3	87.372565	65.789474	83.861372	62.726125	15.2505	86.25728	64.850272	16.531
148	15	5	5	7	2	87.135107	76.344261	82.63856	71.709878	12.9706	85.601573	74.753247	13.1479
149	15	5	5	7	2	87.135107	78.76216	82.63856	74.92788	12.9706	85.601573	77.499909	13.1479
150	15	5	5	7	2	87.135107	65.789474	82.63856	62.992922	12.9706	85.601573	64.895866	13.1479
151	15	5	5	7	2	87.135107	65.789474	82.63856	62.992922	12.9706	85.601573	64.895866	13.1479
152	15	5	5	7	2	87.135107	65.789474	82.63856	62.992922	12.9706	85.601573	64.895866	13.1479
153	15	5	5	7	2	87.135107	74.678698	82.63856	70.073406	12.9706	85.601573	73.093313	13.1479
154	15	5	5	7	2	87.135107	75.10295	82.63856	70.835931	12.9706	85.601573	73.655352	13.1479
155	15	5	5	7	2	87.135107	78.76216	82.63856	74.92788	12.9706	85.601573	77.499909	13.1479
156	15	5	5	5	4	85.946412	65.789474	84.726214	73.193212	18.9937	85.948582	76.513482	24.1482
157	15	5	5	7	2	87.135107	73.864467	82.63856	69.30534	12.9706	85.601573	72.294732	13.1479
158	15	5	5	7	2	87.135107	81.493072	82.63856	76.913804	12.9706	85.601573	79.95003	13.1479
159	15	5	5	7	2	87.135107	65.789474	82.63856	62.992922	12.9706	85.601573	64.895866	13.1479
160	15	5	5	7	2	87.135107	65.789474	82.63856	62.992922	12.9706	85.601573	64.895866	13.1479

161	15	5	5	8	1	86.218623	75.494976	81.20716	70.9388	11.4154	84.481514	73.920315	11.2018
162	15	5	5	8	1	86.218623	78.82821	81.20716	75.370272	11.4154	84.481514	77.669829	11.2018
163	15	5	5	8	1	86.218623	65.789474	81.20716	63.171212	11.4154	84.481514	64.921408	11.2018
164	15	5	5	6	3	87.372565	79.927429	83.861372	74.910992	15.2505	86.25728	78.209413	16.531
165	15	5	5	6	3	87.372565	78.63039	83.861372	74.2709	15.2505	86.25728	77.198103	16.531
166	15	5	5	6	3	87.372565	65.789474	83.861372	62.726125	15.2505	86.25728	64.850272	16.531
167	15	5	5	8	1	86.218623	80.811742	81.20716	75.970902	11.4154	84.481514	79.139869	11.2018
168	15	5	5	8	1	86.218623	71.728915	81.20716	67.9678	11.4154	84.481514	70.446306	11.2018
169	15	5	5	8	1	86.218623	78.82821	81.20716	75.370272	11.4154	84.481514	77.669829	11.2018
170	15	5	5	9	0	84.945507	89.061154	79.647975	83.454078	10.2719	83.100287	87.110245	9.9148
171	15	4	4	6	4	59.06068	80.235865	58.222184	75.067027	18.2286	59.062171	78.470095	22.1169
172	14	5	3	7	3	84.869555	74.688724	81.621895	70.001433	14.1026	83.850184	73.08347	15.434
173	14	5	3	7	3	84.869555	72.996417	81.621895	68.408839	14.1026	83.850184	71.424614	15.434
174	14	5	3	7	3	84.869555	72.163318	81.621895	67.624939	14.1026	83.850184	70.608032	15.434
175	14	5	3	8	2	84.622448	72.17186	80.347393	67.734024	11.8226	83.167432	70.644892	12.051
176	14	5	3	8	2	84.622448	73.839169	80.347393	69.338037	11.8226	83.167432	72.292765	12.051
177	14	5	3	8	2	84.622448	71.272454	80.347393	66.8853	11.8226	83.167432	69.762647	12.051
178	14	5	3	8	2	84.622448	69.788446	80.347393	65.820324	11.8226	83.167432	68.442059	12.051
179	14	5	3	9	1	83.669176	72.900187	78.857198	68.516653	10.2675	82.00204	71.385713	10.1049
180	14	5	4	5	4	85.02169	74.644716	84.142701	69.83552	18.1951	85.167014	73.00169	23.3851
181	14	5	4	5	4	85.02169	74.886807	84.142701	70.062558	18.1951	85.167014	73.238755	23.3851
182	14	5	4	5	4	85.02169	74.886807	84.142701	70.062558	18.1951	85.167014	73.238755	23.3851
183	14	5	4	6	3	86.534162	73.859482	83.222802	69.221014	14.4519	85.494797	72.270602	15.7679
184	14	5	4	6	3	86.534162	73.881305	83.222802	69.319652	14.4519	85.494797	72.327119	15.7679
185	14	5	4	6	3	86.534162	75.272313	83.222802	71.12096	14.4519	85.494797	73.910986	15.7679
186	14	5	4	7	2	86.282208	73.015425	81.923303	68.530161	12.172	84.798653	71.472403	12.3848
187	14	5	4	7	2	86.282208	78.085717	81.923303	73.737939	12.172	84.798653	76.616219	12.3848
188	14	5	4	7	2	86.282208	73.029311	81.923303	68.607075	12.172	84.798653	71.511786	12.3848
189	14	5	4	7	2	86.282208	75.401699	81.923303	71.766574	12.172	84.798653	74.207428	12.3848
190	14	5	4	7	2	86.282208	71.397275	81.923303	67.003079	12.172	84.798653	69.885083	12.3848
191	14	5	4	7	2	86.282208	71.812819	81.923303	67.750243	12.172	84.798653	70.435668	12.3848
192	14	5	4	7	2	86.282208	75.401699	81.923303	71.766574	12.172	84.798653	74.207428	12.3848
193	14	5	4	5	4	85.02169	74.886807	84.142701	70.062558	18.1951	85.167014	73.238755	23.3851
194	14	5	4	7	2	86.282208	70.600078	81.923303	66.250888	12.172	84.798653	69.103131	12.3848
195	14	5	4	7	2	86.282208	78.085717	81.923303	73.719948	12.172	84.798653	76.616219	12.3848
196	14	5	4	7	2	86.282208	75.401699	81.923303	71.766574	12.172	84.798653	74.207428	12.3848
197	14	5	4	8	1	85.310239	72.1969	80.40388	67.851071	10.6168	83.610404	70.695303	10.4387
198	14	5	4	8	1	85.310239	78.338619	80.40388	74.424023	10.6168	83.610404	77.009923	10.4387
199	14	5	4	8	1	85.310239	75.466559	80.40388	72.20148	10.6168	83.610404	74.374354	10.4387
200	14	5	4	6	3	86.534162	76.546373	83.222802	71.749975	14.4519	85.494797	74.904557	15.7679
201	14	5	4	6	3	86.534162	75.272313	83.222802	71.12096	14.4519	85.494797	73.910986	15.7679
202	14	5	4	8	1	85.310239	77.415638	80.40388	72.792162	10.6168	83.610404	75.819287	10.4387
203	14	5	4	8	1	85.310239	68.511213	80.40388	64.941956	10.6168	83.610404	67.294793	10.4387
204	14	5	4	8	1	85.310239	75.466559	80.40388	72.20148	10.6168	83.610404	74.374354	10.4387
205	14	5	4	9	0	83.961273	85.548937	78.75099	80.172277	9.4733	82.146637	83.67834	9.1517
206	14	5	5	3	5	0	0	85.98534	57.309942	26.0083	83.193306	32.55814	59.0393
207	14	5	5	3	5	0	0	85.98534	57.309942	26.0083	83.193306	32.55814	59.0393
208	14	5	5	4	4	86.689281	61.403509	85.793051	68.313664	18.5444	86.837455	71.412584	23.7189
209	14	5	5	4	4	86.689281	61.403509	85.793051	58.130946	18.5444	86.837455	60.42937	23.7189
210	14	5	5	4	4	86.689281	61.403509	85.793051	58.130946	18.5444	86.837455	60.42937	23.7189
211	14	5	5	4	4	86.689281	61.403509	85.793051	58.130946	18.5444	86.837455	60.42937	23.7189
212	14	5	5	4	4	86.689281	61.403509	85.793051	68.313664	18.5444	86.837455	71.412584	23.7189
213	14	5	5	4	4	86.689281	61.403509	85.793051	58.130946	18.5444	86.837455	60.42937	23.7189
214	14	5	5	5	3	88.231417	78.785979	84.85511	73.858524	14.8013	87.171667	77.1003	16.1017
215	14	5	5	5	3	88.231417	73.388364	84.85511	69.319507	14.8013	87.171667	72.051563	16.1017

216	14	5	5	5	3	88.231417	61.403509	84.85511	58.544384	14.8013	87.171667	60.52692	16.1017
217	14	5	5	5	3	88.231417	61.403509	84.85511	58.544384	14.8013	87.171667	60.52692	16.1017
218	14	5	5	5	3	88.231417	61.403509	84.85511	58.544384	14.8013	87.171667	60.52692	16.1017
219	14	5	5	6	2	87.974522	77.8263	83.530122	73.072527	12.5214	86.461869	76.192523	12.7187
220	14	5	5	6	2	87.974522	61.403509	83.530122	58.793394	12.5214	86.461869	60.569475	12.7187
221	14	5	5	5	3	88.231417	72.79497	84.85511	68.219282	14.8013	87.171667	71.227157	16.1017
222	14	5	5	5	3	88.231417	72.803652	84.85511	68.266111	14.8013	87.171667	71.253061	16.1017
223	14	5	5	5	3	88.231417	73.388364	84.85511	69.319507	14.8013	87.171667	72.051563	16.1017
224	14	5	5	5	3	88.231417	61.403509	84.85511	58.544384	14.8013	87.171667	60.52692	16.1017
225	14	5	5	5	3	88.231417	61.403509	84.85511	58.544384	14.8013	87.171667	60.52692	16.1017
226	14	5	5	3	5	0	0	85.98534	57.309942	26.0083	83.193306	32.55814	59.0393
227	14	5	5	4	4	86.689281	61.403509	85.793051	68.313664	18.5444	86.837455	71.412584	23.7189
228	14	5	5	4	4	86.689281	61.403509	85.793051	58.130946	18.5444	86.837455	60.42937	23.7189
229	14	5	5	4	4	86.689281	61.403509	85.793051	58.130946	18.5444	86.837455	60.42937	23.7189
230	14	5	5	5	3	88.231417	78.785979	84.85511	73.858524	14.8013	87.171667	77.1003	16.1017
231	14	5	5	5	3	88.231417	73.388364	84.85511	69.319507	14.8013	87.171667	72.051563	16.1017
232	14	5	5	5	3	88.231417	73.388364	84.85511	69.319507	14.8013	87.171667	72.051563	16.1017
233	14	5	5	5	3	88.231417	61.403509	84.85511	58.544384	14.8013	87.171667	60.52692	16.1017
234	14	5	5	5	3	88.231417	61.403509	84.85511	58.544384	14.8013	87.171667	60.52692	16.1017
235	14	5	5	5	3	88.231417	78.298171	84.85511	73.399216	14.8013	87.171667	76.622026	16.1017
236	14	5	5	5	3	88.231417	73.388364	84.85511	69.319507	14.8013	87.171667	72.051563	16.1017
237	14	5	5	5	3	88.231417	61.403509	84.85511	58.544384	14.8013	87.171667	60.52692	16.1017
238	14	5	5	5	3	88.231417	61.403509	84.85511	58.544384	14.8013	87.171667	60.52692	16.1017
239	14	5	5	6	2	87.974522	72.053253	83.530122	67.622094	12.5214	86.461869	70.528545	12.7187
240	14	5	5	6	2	87.974522	72.066066	83.530122	67.663083	12.5214	86.461869	70.552784	12.7187
241	14	5	5	6	2	87.974522	79.3026	83.530122	74.900807	12.5214	86.461869	77.81571	12.7187
242	14	5	5	6	2	87.974522	73.511349	83.530122	69.932688	12.5214	86.461869	72.333248	12.7187
243	14	5	5	6	2	87.974522	61.403509	83.530122	58.793394	12.5214	86.461869	60.569475	12.7187
244	14	5	5	6	2	87.974522	61.403509	83.530122	58.793394	12.5214	86.461869	60.569475	12.7187
245	14	5	5	6	2	87.974522	61.403509	83.530122	58.793394	12.5214	86.461869	60.569475	12.7187
246	14	5	5	7	1	86.983489	71.256041	81.980898	66.960794	10.9662	85.250314	69.771725	10.7726
247	14	5	5	7	1	86.983489	78.341456	81.980898	73.987342	10.9662	85.250314	76.8483	10.7726
248	14	5	5	7	1	86.983489	61.403509	81.980898	58.959798	10.9662	85.250314	60.593315	10.7726
249	14	5	5	7	1	86.983489	71.256041	81.980898	66.960794	10.9662	85.250314	69.771725	10.7726
250	14	5	5	7	1	86.983489	61.403509	81.980898	58.959798	10.9662	85.250314	60.593315	10.7726
251	14	5	5	5	3	88.231417	75.584835	84.85511	70.844866	14.8013	87.171667	73.961924	16.1017
252	14	5	5	5	3	88.231417	73.388364	84.85511	69.319507	14.8013	87.171667	72.051563	16.1017
253	14	5	5	5	3	88.231417	61.403509	84.85511	58.544384	14.8013	87.171667	60.52692	16.1017
254	14	5	5	7	1	86.983489	76.432278	81.980898	71.860739	10.9662	85.250314	74.853638	10.7726
255	14	5	5	7	1	86.983489	73.572996	81.980898	70.345588	10.9662	85.250314	72.49184	10.7726
256	14	5	5	7	1	86.983489	61.403509	81.980898	58.959798	10.9662	85.250314	60.593315	10.7726
257	14	5	5	8	0	85.608065	84.349699	80.295589	79.043878	9.8227	83.757837	82.503679	9.4855
258	14	5	5	6	2	87.974522	75.947282	83.530122	71.297983	12.5214	86.461869	74.348791	12.7187
259	14	5	5	6	2	87.974522	75.061941	83.530122	70.850229	12.5214	86.461869	73.636395	12.7187
260	14	5	5	6	2	87.974522	61.403509	83.530122	58.793394	12.5214	86.461869	60.569475	12.7187
261	14	5	5	8	0	85.608065	88.336028	80.295589	82.795236	9.8227	83.757837	86.408496	9.4855
262	14	4	4	5	4	59.874593	74.886807	59.255584	70.062558	17.6426	59.976933	73.238755	21.557
263	14	4	4	6	3	60.939716	77.584779	58.607767	72.727549	14.7754	60.207767	75.922596	15.6882
264	14	4	4	6	3	60.939716	75.272313	58.607767	71.12096	14.7754	60.207767	73.910986	15.6882
265	13	5	3	6	3	85.576765	70.182834	82.492031	65.781616	13.6533	84.62338	68.675906	15.0048
266	13	5	3	7	2	85.308463	69.362312	81.105695	65.109875	11.3734	83.881561	67.899892	11.6217
267	13	5	3	7	2	85.308463	74.297811	81.105695	70.181333	11.3734	83.881561	72.907772	11.6217
268	13	5	3	7	2	85.308463	67.790504	81.105695	63.626151	11.3734	83.881561	66.357879	11.6217
269	13	5	3	7	2	85.308463	68.193994	81.105695	64.35191	11.3734	83.881561	66.89257	11.6217
270	13	5	3	7	2	85.308463	67.016727	81.105695	62.89588	11.3734	83.881561	65.598828	11.6217

271	13	5	3	7	2	85.308463	74.297811	81.105695	70.163783	11.3734	83.881561	72.907772	11.6217
272	13	5	3	7	2	85.308463	67.411033	81.105695	63.604981	11.3734	83.881561	66.121308	11.6217
273	13	5	3	8	1	84.27399	68.567028	79.486886	64.449877	9.8182	82.616432	67.144776	9.6756
274	13	5	3	8	1	84.27399	74.544404	79.486886	70.850793	9.8182	82.616432	73.291759	9.6756
275	13	5	3	6	3	85.576765	72.797719	82.492031	68.243296	13.6533	84.62338	71.239494	15.0048
276	13	5	3	8	1	84.27399	73.64464	79.486886	69.258983	9.8182	82.616432	72.130809	9.6756
277	13	5	3	8	1	84.27399	64.991074	79.486886	61.625976	9.8182	82.616432	63.844917	9.6756
278	13	5	3	9	0	82.83978	81.591471	77.728552	76.472012	8.6747	81.059862	79.810486	8.3886
279	13	5	4	5	3	87.385712	69.316178	84.235771	64.965907	14.0027	86.412173	67.826327	15.3386
280	13	5	4	5	3	87.385712	69.324656	84.235771	65.011644	14.0027	86.412173	67.851624	15.3386
281	13	5	4	5	3	87.385712	69.89572	84.235771	66.040892	14.0027	86.412173	68.63163	15.3386
282	13	5	4	4	4	85.74198	69.53775	85.238914	65.05809	17.7459	86.055441	68.007415	22.9558
283	13	5	4	5	3	87.385712	75.178397	84.235771	70.485168	14.0027	86.412173	73.573773	15.3386
284	13	5	4	5	3	87.385712	69.89572	84.235771	66.040892	14.0027	86.412173	68.63163	15.3386
285	13	5	4	5	3	87.385712	69.89572	84.235771	66.040892	14.0027	86.412173	68.63163	15.3386
286	13	5	4	5	3	87.385712	74.700155	84.235771	70.034758	14.0027	86.412173	73.104829	15.3386
287	13	5	4	5	3	87.385712	69.89572	84.235771	66.040892	14.0027	86.412173	68.63163	15.3386
288	13	5	4	6	2	87.111738	68.592115	82.820131	64.382791	11.7228	85.654674	67.144275	11.9556
289	13	5	4	6	2	87.111738	68.604619	82.820131	64.422806	11.7228	85.654674	67.167934	11.9556
290	13	5	4	6	2	87.111738	75.685065	82.820131	71.507836	11.7228	85.654674	74.275527	11.9556
291	13	5	4	6	2	87.111738	70.015863	82.820131	66.64039	11.7228	85.654674	68.906897	11.9556
292	13	5	4	6	2	87.111738	70.015863	82.820131	66.64039	11.7228	85.654674	68.906897	11.9556
293	13	5	4	7	1	86.055398	67.814295	81.167103	63.737378	10.1676	84.362803	66.40578	10.0095
294	13	5	4	7	1	86.055398	74.742585	81.167103	70.611518	10.1676	84.362803	73.326669	10.0095
295	13	5	4	7	1	86.055398	72.743003	81.167103	69.108022	10.1676	84.362803	71.509214	10.0095
296	13	5	4	7	1	86.055398	70.07609	81.167103	67.044232	10.1676	84.362803	69.0619	10.0095
297	13	5	4	7	1	86.055398	67.814295	81.167103	63.737378	10.1676	84.362803	66.40578	10.0095
298	13	5	4	5	3	87.385712	72.043009	84.235771	67.532724	14.0027	86.412173	70.499554	15.3386
299	13	5	4	5	3	87.385712	69.89572	84.235771	66.040892	14.0027	86.412173	68.63163	15.3386
300	13	5	4	7	1	86.055398	72.87236	81.167103	68.527216	10.1676	84.362803	71.372336	10.0095
301	13	5	4	7	1	86.055398	72.743003	81.167103	69.108022	10.1676	84.362803	71.509214	10.0095
302	13	5	4	7	1	86.055398	70.07609	81.167103	67.044232	10.1676	84.362803	69.0619	10.0095
303	13	5	4	8	0	84.590872	80.644601	79.371601	75.580868	9.0241	82.77333	78.882946	8.7224
304	13	5	4	6	2	87.111738	72.397658	82.820131	67.976211	11.7228	85.654674	70.878138	11.9556
305	13	5	4	6	2	87.111738	71.531524	82.820131	67.537972	11.7228	85.654674	70.181076	11.9556
306	13	5	4	8	0	84.590872	84.574213	79.371601	79.27978	9.0241	82.77333	82.732542	8.7224
307	13	5	5	2	5	0	0	87.250829	53.216374	25.5591	83.909665	30.232558	58.6101
308	13	5	5	3	4	87.554419	57.017544	87.040719	63.434117	18.0952	87.874506	66.311685	23.2897
309	13	5	5	3	4	87.554419	57.017544	87.040719	53.978735	18.0952	87.874506	56.112986	23.2897
310	13	5	5	3	4	87.554419	57.017544	87.040719	63.434117	18.0952	87.874506	66.311685	23.2897
311	13	5	5	3	4	87.554419	57.017544	87.040719	53.978735	18.0952	87.874506	56.112986	23.2897
312	13	5	5	3	4	87.554419	57.017544	87.040719	53.978735	18.0952	87.874506	56.112986	23.2897
313	13	5	5	3	4	87.554419	57.017544	87.040719	53.978735	18.0952	87.874506	56.112986	23.2897
314	13	5	5	4	3	89.232897	75.868874	86.016372	71.135507	14.3521	88.238779	74.250847	15.6725
315	13	5	5	4	3	89.232897	68.146338	86.016372	64.368114	14.3521	88.238779	66.905023	15.6725
316	13	5	5	4	3	89.232897	68.146338	86.016372	64.368114	14.3521	88.238779	66.905023	15.6725
317	13	5	5	4	3	89.232897	57.017544	86.016372	54.362642	14.3521	88.238779	56.203569	15.6725
318	13	5	5	4	3	89.232897	57.017544	86.016372	54.362642	14.3521	88.238779	56.203569	15.6725
319	13	5	5	4	3	89.232897	57.017544	86.016372	54.362642	14.3521	88.238779	56.203569	15.6725
320	13	5	5	4	3	89.232897	73.158409	86.016372	68.582915	14.3521	88.238779	71.593136	15.6725
321	13	5	5	4	3	89.232897	57.017544	86.016372	54.362642	14.3521	88.238779	56.203569	15.6725
322	13	5	5	4	3	89.232897	57.017544	86.016372	54.362642	14.3521	88.238779	56.203569	15.6725
323	13	5	5	6	1	87.874462	74.073291	82.882837	69.665199	10.517	86.146088	72.551816	10.3434
324	13	5	5	6	1	87.874462	57.017544	82.882837	54.748384	10.517	86.146088	56.265221	10.3434
325	13	5	5	5	2	88.953131	67.603401	84.570807	63.44956	12.0722	87.465267	66.174334	12.2894

326	13	5	5	5	2	88.953131	80.806643	84.570807	76.337923	12.0722	87.465267	79.32718	12.2894
327	13	5	5	5	2	88.953131	67.616221	84.570807	63.520563	12.0722	87.465267	66.210691	12.2894
328	13	5	5	5	2	88.953131	68.260538	84.570807	64.937496	12.0722	87.465267	67.166588	12.2894
329	13	5	5	5	2	88.953131	57.017544	84.570807	54.593866	12.0722	87.465267	56.243084	12.2894
330	13	5	5	3	4	87.554419	57.017544	87.040719	63.434117	18.0952	87.874506	66.311685	23.2897
331	13	5	5	3	4	87.554419	57.017544	87.040719	53.978735	18.0952	87.874506	56.112986	23.2897
332	13	5	5	4	3	89.232897	73.158409	86.016372	68.582915	14.3521	88.238779	71.593136	15.6725
333	13	5	5	4	3	89.232897	68.146338	86.016372	64.368114	14.3521	88.238779	66.905023	15.6725
334	13	5	5	4	3	89.232897	57.017544	86.016372	54.362642	14.3521	88.238779	56.203569	15.6725
335	13	5	5	4	3	89.232897	57.017544	86.016372	54.362642	14.3521	88.238779	56.203569	15.6725
336	13	5	5	4	3	89.232897	57.017544	86.016372	54.362642	14.3521	88.238779	56.203569	15.6725
337	13	5	5	4	3	89.232897	57.017544	86.016372	54.362642	14.3521	88.238779	56.203569	15.6725
338	13	5	5	5	2	88.953131	73.167865	84.570807	68.703761	12.0722	87.465267	71.633949	12.2894
339	13	5	5	5	2	88.953131	74.160197	84.570807	69.674268	12.0722	87.465267	72.621104	12.2894
340	13	5	5	5	2	88.953131	57.017544	84.570807	54.593866	12.0722	87.465267	56.243084	12.2894
341	13	5	5	5	2	88.953131	57.017544	84.570807	54.593866	12.0722	87.465267	56.243084	12.2894
342	13	5	5	5	2	88.953131	57.017544	84.570807	54.593866	12.0722	87.465267	56.243084	12.2894
343	13	5	5	5	2	88.953131	72.714783	84.570807	68.275762	12.0722	87.465267	71.189332	12.2894
344	13	5	5	5	2	88.953131	73.638129	84.570807	69.55075	12.0722	87.465267	72.257445	12.2894
345	13	5	5	5	2	88.953131	57.017544	84.570807	54.593866	12.0722	87.465267	56.243084	12.2894
346	13	5	5	5	2	88.953131	57.017544	84.570807	54.593866	12.0722	87.465267	56.243084	12.2894
347	13	5	5	6	1	87.874462	66.920476	82.882837	62.89148	10.517	86.146088	65.528328	10.3434
348	13	5	5	6	1	87.874462	73.658262	82.882837	69.574803	10.517	86.146088	72.25826	10.3434
349	13	5	5	6	1	87.874462	81.098418	82.882837	77.204553	10.517	86.146088	79.781973	10.3434
350	13	5	5	6	1	87.874462	57.017544	82.882837	54.748384	10.517	86.146088	56.265221	10.3434
351	13	5	5	7	0	86.378978	86.20707	81.049381	80.817215	9.3735	84.523016	84.332309	9.0563
352	13	5	5	7	0	86.378978	79.383715	81.049381	74.394324	9.3735	84.523016	77.64785	9.0563
353	13	5	5	5	2	88.953131	71.388592	84.570807	67.02317	12.0722	87.465267	69.88799	12.2894
354	13	5	5	5	2	88.953131	70.627329	84.570807	66.674471	12.0722	87.465267	69.290026	12.2894
355	13	5	5	5	2	88.953131	57.017544	84.570807	54.593866	12.0722	87.465267	56.243084	12.2894
356	13	5	5	7	0	86.378978	91.738226	81.049381	86.02706	9.3735	84.523016	89.752072	9.0563
357	13	5	5	6	1	87.874462	71.589464	82.882837	67.311877	10.517	86.146088	70.112471	10.3434
358	13	5	5	6	1	87.874462	70.977943	82.882837	67.013737	10.517	86.146088	69.617865	10.3434
359	13	4	3	6	3	59.677267	73.809487	57.526116	69.195993	13.8826	59.01242	72.231507	14.8351
360	13	4	4	4	4	60.82767	69.53775	60.470781	65.05809	17.0567	61.050048	68.007415	20.9971
361	13	4	4	4	4	60.82767	69.53775	60.470781	65.05809	17.0567	61.050048	68.007415	20.9971
362	13	4	4	5	3	61.993778	75.178397	59.759125	70.485168	14.1895	61.303123	73.573773	15.1284
363	13	4	4	5	3	61.993778	69.89572	59.759125	66.040892	14.1895	61.303123	68.63163	15.1284
364	13	4	4	6	2	61.799413	74.237693	58.754832	69.714493	12.4157	60.765733	72.683842	12.4856
365	12	5	2	7	2	84.186307	63.877008	80.162127	59.960056	10.5748	82.824148	62.529913	10.8586
366	12	5	3	5	3	86.409296	65.492259	83.51892	61.388033	13.2041	85.534457	64.087323	14.5755
367	12	5	3	5	3	86.409296	71.172954	83.51892	66.737539	13.2041	85.534457	69.657315	14.5755
368	12	5	3	5	3	86.409296	70.70867	83.51892	66.300175	13.2041	85.534457	69.202012	14.5755
369	12	5	3	6	2	86.115845	64.792187	81.999432	60.824108	10.9242	84.722465	63.427809	11.1925
370	12	5	3	6	2	86.115845	64.804274	81.999432	60.862798	10.9242	84.722465	63.450681	11.1925
371	12	5	3	6	2	86.115845	71.664998	81.999432	67.731122	10.9242	84.722465	70.338932	11.1925
372	12	5	3	7	1	84.985133	64.040524	80.227881	60.200216	9.369	83.339044	62.71407	9.2464
373	12	5	3	7	1	84.985133	70.749855	80.227881	66.860256	9.369	83.339044	69.417381	9.2464
374	12	5	3	7	1	84.985133	68.810219	80.227881	65.400732	9.369	83.339044	67.653931	9.2464
375	12	5	3	7	1	84.985133	64.040524	80.227881	60.200216	9.369	83.339044	62.71407	9.2464
376	12	5	3	7	1	84.985133	75.677609	80.227881	71.386717	9.369	83.339044	74.203338	9.2464
377	12	5	3	5	3	86.409296	68.131834	83.51892	63.873225	13.2041	85.534457	66.675238	14.5755
378	12	5	3	7	1	84.985133	68.935618	80.227881	64.837342	9.369	83.339044	67.52121	9.2464
379	12	5	3	7	1	84.985133	68.810219	80.227881	65.400732	9.369	83.339044	67.653931	9.2464
380	12	5	3	8	0	83.419412	76.490378	78.307045	71.695688	8.2255	81.639354	74.822447	7.9593

381	12	5	3	6	2	86.115845	68.475494	81.999432	64.30308	10.9242	84.722465	67.04213	11.1925
382	12	5	3	6	2	86.115845	67.636343	81.999432	63.87831	10.9242	84.722465	66.366671	11.1925
383	12	5	3	8	0	83.419412	80.325311	78.307045	75.306346	8.2255	81.639354	78.579605	7.9593
384	12	5	4	5	2	88.089608	63.991999	83.878847	60.068616	11.2736	86.664292	62.64273	11.5263
385	12	5	4	5	2	88.089608	76.87218	83.878847	72.648099	11.2736	86.664292	75.476444	11.5263
386	12	5	4	5	2	88.089608	64.004443	83.878847	60.137559	11.2736	86.664292	62.678025	11.5263
387	12	5	4	5	2	88.089608	64.630028	83.878847	61.514206	11.2736	86.664292	63.606367	11.5263
388	12	5	4	3	4	86.590034	64.188692	86.535893	60.053621	17.2966	87.10366	62.776076	22.5266
389	12	5	4	4	3	88.389784	69.395443	85.433162	65.063232	13.5535	87.494894	67.914252	14.9094
390	12	5	4	4	3	88.389784	64.519126	85.433162	60.960823	13.5535	87.494894	63.352274	14.9094
391	12	5	4	5	2	88.089608	69.40466	83.878847	65.181062	11.2736	86.664292	67.95404	11.5263
392	12	5	4	5	2	88.089608	70.37231	83.878847	66.127764	11.2736	86.664292	68.916773	11.5263
393	12	5	4	5	2	88.089608	64.630028	83.878847	61.514206	11.2736	86.664292	63.606367	11.5263
394	12	5	4	5	2	88.089608	64.630028	83.878847	61.514206	11.2736	86.664292	63.606367	11.5263
395	12	5	4	5	2	88.089608	68.963089	83.878847	64.763797	11.2736	86.664292	67.520662	11.5263
396	12	5	4	5	2	88.089608	69.863137	83.878847	66.007233	11.2736	86.664292	68.562025	11.5263
397	12	5	4	6	1	86.932981	63.329268	82.066692	59.526866	9.7184	85.249163	62.015752	9.5803
398	12	5	4	6	1	86.932981	69.882769	82.066692	66.030704	9.7184	85.249163	68.56282	9.5803
399	12	5	4	6	1	86.932981	77.15827	82.066692	73.498681	9.7184	85.249163	75.922543	9.5803
400	12	5	4	7	0	85.331373	82.177641	80.101832	77.050901	8.5749	83.510516	80.394568	8.2932
401	12	5	4	7	0	85.331373	75.477882	80.101832	70.742663	8.5749	83.510516	73.830578	8.2932
402	12	5	4	5	2	88.089608	67.671456	83.878847	63.543451	11.2736	86.664292	66.253072	11.5263
403	12	5	4	5	2	88.089608	66.930614	83.878847	63.203948	11.2736	86.664292	65.671045	11.5263
404	12	5	4	7	0	85.331373	87.634109	80.101832	82.191992	8.5749	83.510516	85.741725	8.2932
405	12	5	4	6	1	86.932981	67.867011	82.066692	63.824615	9.7184	85.249163	66.47164	9.5803
406	12	5	4	6	1	86.932981	67.27177	82.066692	63.534265	9.7184	85.249163	65.990113	9.5803
407	12	5	5	1	5	0	0	88.750792	49.122807	25.1098	84.753217	27.906977	58.1808
408	12	5	5	2	4	88.574665	52.631579	88.519283	58.554569	17.646	89.100063	61.210786	22.8604
409	12	5	5	2	4	88.574665	52.631579	88.519283	49.826525	17.646	89.100063	51.796603	22.8604
410	12	5	5	2	4	88.574665	52.631579	88.519283	49.826525	17.646	89.100063	51.796603	22.8604
411	12	5	5	3	3	90.415666	74.057856	87.391278	69.455773	13.9029	89.500265	72.486681	15.2433
412	12	5	5	3	3	90.415666	52.631579	87.391278	50.1809	13.9029	89.500265	51.880217	15.2433
413	12	5	5	3	3	90.415666	74.057856	87.391278	69.455773	13.9029	89.500265	72.486681	15.2433
414	12	5	5	3	3	90.415666	62.904312	87.391278	59.41672	13.9029	89.500265	61.758482	15.2433
415	12	5	5	3	3	90.415666	52.631579	87.391278	50.1809	13.9029	89.500265	51.880217	15.2433
416	12	5	5	3	3	90.415666	52.631579	87.391278	50.1809	13.9029	89.500265	51.880217	15.2433
417	12	5	5	3	3	90.415666	52.631579	87.391278	50.1809	13.9029	89.500265	51.880217	15.2433
418	12	5	5	3	3	90.415666	52.631579	87.391278	50.1809	13.9029	89.500265	51.880217	15.2433
419	12	5	5	3	3	90.415666	52.631579	87.391278	50.1809	13.9029	89.500265	51.880217	15.2433
420	12	5	5	3	3	90.415666	52.631579	87.391278	50.1809	13.9029	89.500265	51.880217	15.2433
421	12	5	5	4	2	90.108609	70.042193	85.801338	65.783561	11.623	88.650625	68.579767	11.8602
422	12	5	5	4	2	90.108609	74.590747	85.801338	70.532595	11.623	88.650625	73.225089	11.8602
423	12	5	5	4	2	90.108609	52.631579	85.801338	50.394338	11.623	88.650625	51.916693	11.8602
424	12	5	5	4	2	90.108609	52.631579	85.801338	50.394338	11.623	88.650625	51.916693	11.8602
425	12	5	5	4	2	90.108609	52.631579	85.801338	50.394338	11.623	88.650625	51.916693	11.8602
426	12	5	5	4	2	90.108609	67.539568	85.801338	63.418857	11.623	88.650625	66.123645	11.8602
427	12	5	5	4	2	90.108609	52.631579	85.801338	50.394338	11.623	88.650625	51.916693	11.8602
428	12	5	5	5	1	88.925472	69.248997	83.947649	65.13438	10.0678	87.203062	67.829024	9.9141
429	12	5	5	5	1	88.925472	74.860079	83.947649	71.265741	10.0678	87.203062	73.644898	9.9141
430	12	5	5	5	1	88.925472	52.631579	83.947649	50.536969	10.0678	87.203062	51.937127	9.9141
431	12	5	5	1	5	0	0	88.750792	49.122807	25.1098	84.753217	27.906977	58.1808
432	12	5	5	6	0	87.287156	84.040186	81.937754	78.805441	8.9243	85.424565	82.219673	8.6271
433	12	5	5	5	1	88.925472	62.416224	83.947649	58.662639	10.0678	87.203062	61.119377	9.9141
434	12	5	5	5	1	88.925472	76.882597	83.947649	71.826722	10.0678	87.203062	75.121164	9.9141
435	12	5	5	5	1	88.925472	52.631579	83.947649	50.536969	10.0678	87.203062	51.937127	9.9141

436	12	5	5	3	3	90.415666	74.057856	87.391278	69.455773	13.9029	89.500265	72.486681	15.2433
437	12	5	5	3	3	90.415666	62.904312	87.391278	59.41672	13.9029	89.500265	61.758482	15.2433
438	12	5	5	4	2	90.108609	67.539568	85.801338	63.418857	11.623	88.650625	66.123645	11.8602
439	12	5	5	4	2	90.108609	67.973657	85.801338	64.200692	11.623	88.650625	66.69918	11.8602
440	12	5	5	4	2	90.108609	63.009728	85.801338	59.942304	11.623	88.650625	61.999927	11.8602
441	12	5	5	4	2	90.108609	63.009728	85.801338	59.942304	11.623	88.650625	61.999927	11.8602
442	12	5	5	4	2	90.108609	52.631579	85.801338	50.394338	11.623	88.650625	51.916693	11.8602
443	12	5	5	5	1	88.925472	68.457819	83.947649	64.384498	10.0678	87.203062	67.051911	9.9141
444	12	5	5	5	1	88.925472	74.860079	83.947649	71.265741	10.0678	87.203062	73.644898	9.9141
445	12	5	5	5	1	88.925472	52.631579	83.947649	50.536969	10.0678	87.203062	51.937127	9.9141
446	12	5	5	5	1	88.925472	67.136476	83.947649	63.132422	10.0678	87.203062	65.754172	9.9141
447	12	5	5	5	1	88.925472	67.992242	83.947649	64.222895	10.0678	87.203062	66.699932	9.9141
448	12	5	5	5	1	88.925472	52.631579	83.947649	50.536969	10.0678	87.203062	51.937127	9.9141
449	12	5	5	6	0	87.287156	80.761555	81.937754	75.717176	8.9243	85.424565	79.007037	8.6271
450	12	5	5	5	1	88.925472	73.16741	83.947649	68.850228	10.0678	87.203062	71.678509	9.9141
451	12	5	5	6	0	87.287156	86.600561	81.937754	81.217941	8.9243	85.424565	84.728795	8.6271
452	12	4	3	5	3	60.690346	71.172954	58.660265	66.737539	13.2966	60.075895	69.657315	14.2752
453	12	4	3	6	2	60.484238	70.25985	57.593038	65.989273	11.5228	59.505585	68.793399	11.6324
454	12	4	3	6	2	60.484238	68.582595	57.593038	64.782769	11.5228	59.505585	67.299482	11.6324
455	12	4	4	3	4	61.958785	64.188692	61.920044	60.053621	16.4708	62.326305	62.776076	20.4372
456	12	4	4	3	4	61.958785	64.188692	61.920044	60.053621	16.4708	62.326305	62.776076	20.4372
457	12	4	4	4	3	63.246581	72.040188	61.130995	67.554563	13.6036	62.60625	70.507806	14.5685
458	12	4	4	4	3	63.246581	64.519126	61.130995	60.960823	13.6036	62.60625	63.352274	14.5685
459	12	4	4	4	3	63.246581	64.519126	61.130995	60.960823	13.6036	62.60625	63.352274	14.5685
460	12	4	4	4	3	63.246581	69.395443	61.130995	65.063232	13.6036	62.60625	67.914252	14.5685
461	12	4	4	5	2	63.031792	69.40466	60.018817	65.181062	11.8298	62.01192	67.95404	11.9257
462	12	4	4	5	2	63.031792	71.20863	60.018817	66.919052	11.8298	62.01192	69.737978	11.9257
463	12	4	4	5	2	63.031792	64.630028	60.018817	61.514206	11.8298	62.01192	63.606367	11.9257
464	12	4	4	6	1	62.204177	70.287537	58.722145	66.118913	10.5976	60.999335	68.849175	10.3778
465	11	5	2	6	2	84.953549	60.672494	81.039993	56.96385	10.1256	83.633836	59.397747	10.4294
466	11	5	2	6	2	84.953549	58.553924	81.039993	54.963385	10.1256	83.633836	57.319087	10.4294
467	11	5	2	7	1	83.737423	59.953639	79.131892	56.367023	8.5704	82.145152	58.71509	8.4833
468	11	5	2	7	1	83.737423	58.924956	79.131892	55.621762	8.5704	82.145152	57.791267	8.4833
469	11	5	3	5	2	87.079882	60.042095	83.068371	56.368508	10.475	85.727137	58.779189	10.7632
470	11	5	3	5	2	87.079882	72.471099	83.068371	68.513328	10.475	85.727137	71.165843	10.7632
471	11	5	3	4	3	87.403643	65.241874	84.749011	61.176077	12.7549	86.623839	63.852539	14.1463
472	11	5	3	5	2	87.079882	65.250761	83.068371	61.289725	10.475	85.727137	63.890907	10.7632
473	11	5	3	5	2	87.079882	66.184135	83.068371	62.2032	10.475	85.727137	64.81966	10.7632
474	11	5	3	5	2	87.079882	65.692915	83.068371	62.086862	10.475	85.727137	64.477355	10.7632
475	11	5	3	5	2	87.079882	64.825052	83.068371	60.887321	10.475	85.727137	63.473046	10.7632
476	11	5	3	5	2	87.079882	65.692915	83.068371	62.086862	10.475	85.727137	64.477355	10.7632
477	11	5	3	6	1	85.833317	59.405768	81.112512	55.848186	8.9198	84.201192	58.177123	8.8171
478	11	5	3	6	1	85.833317	65.711851	81.112512	62.109515	8.9198	84.201192	64.478122	8.8171
479	11	5	3	6	1	85.833317	72.748514	81.112512	69.338897	8.9198	84.201192	71.59857	8.8171
480	11	5	3	7	0	84.109663	77.625244	78.996272	72.792686	7.7763	82.32955	75.944641	7.5301
481	11	5	3	7	0	84.109663	71.119925	78.996272	66.665947	7.7763	82.32955	69.570579	7.5301
482	11	5	3	5	2	87.079882	63.580615	83.068371	59.711202	10.475	85.727137	62.251628	10.7632
483	11	5	3	5	2	87.079882	62.867378	83.068371	59.384205	10.475	85.727137	61.691192	10.7632
484	11	5	3	7	0	84.109663	82.947289	78.996272	77.808622	7.7763	82.32955	81.160609	7.5301
485	11	5	3	6	1	85.833317	63.768948	81.112512	59.982077	8.9198	84.201192	62.462151	8.8171
486	11	5	3	6	1	85.833317	63.195774	81.112512	59.702354	8.9198	84.201192	61.998393	8.8171
487	11	5	4	5	1	87.981669	58.671945	83.142706	55.153359	9.2692	86.308693	57.456607	9.151
488	11	5	4	5	1	87.981669	72.699605	83.142706	67.920887	9.2692	86.308693	71.0348	9.151
489	11	5	4	5	1	87.981669	59.295153	83.142706	56.729735	9.2692	86.308693	58.436992	9.151
490	11	5	4	3	3	89.5913	69.947456	86.870223	65.610458	13.1043	88.791978	68.467828	14.4802

491	11	5	4	3	3	89.5913	59.142532	86.870223	55.880754	13.1043	88.791978	58.072918	14.4802
492	11	5	4	4	2	89.259434	63.620938	85.147518	59.749307	10.8244	87.872831	62.291203	11.0971
493	11	5	4	4	2	89.259434	70.466165	85.147518	66.659196	10.8244	87.872831	69.18674	11.0971
494	11	5	4	4	2	89.259434	64.041209	85.147518	60.506631	10.8244	87.872831	62.848523	11.0971
495	11	5	4	4	2	89.259434	59.244192	85.147518	56.388022	10.8244	87.872831	58.305836	11.0971
496	11	5	4	4	2	89.259434	59.244192	85.147518	56.388022	10.8244	87.872831	58.305836	11.0971
497	11	5	4	4	2	89.259434	59.244192	85.147518	56.388022	10.8244	87.872831	58.305836	11.0971
498	11	5	4	5	1	87.981669	64.510133	83.142706	60.68475	9.2692	86.308693	63.190224	9.151
499	11	5	4	5	1	87.981669	70.728414	83.142706	67.373791	9.2692	86.308693	69.595665	9.151
500	11	5	4	5	1	87.981669	59.295153	83.142706	56.729735	9.2692	86.308693	58.436992	9.151
501	11	5	4	5	1	87.981669	63.230813	83.142706	59.471983	9.2692	86.308693	61.933565	9.151
502	11	5	4	5	1	87.981669	64.059205	83.142706	60.528145	9.2692	86.308693	62.849252	9.151
503	11	5	4	5	1	87.981669	59.295153	83.142706	56.729735	9.2692	86.308693	58.436992	9.151
504	11	5	4	6	0	86.214873	76.489295	80.973498	71.722494	8.1257	84.390205	74.831485	7.8639
505	11	5	4	5	1	87.981669	69.081214	83.142706	65.021141	9.2692	86.308693	67.681504	9.151
506	11	5	4	6	0	86.214873	82.216769	80.973498	77.119927	8.1257	84.390205	80.44458	7.8639
507	11	5	5	0	5	0	0	90.556755	45.02924	24.6606	85.761082	25.581395	57.7516
508	11	5	5	1	4	89.795749	48.245614	90.299091	53.675022	17.1968	90.570504	56.109887	22.4312
509	11	5	5	1	4	89.795749	48.245614	90.299091	45.674315	17.1968	90.570504	47.480219	22.4312
510	11	5	5	2	3	91.833712	67.886368	89.044529	63.667792	13.4537	91.014383	66.446124	14.814
511	11	5	5	2	3	91.833712	57.662286	89.044529	54.465327	13.4537	91.014383	56.611942	14.814
512	11	5	5	2	3	91.833712	57.662286	89.044529	54.465327	13.4537	91.014383	56.611942	14.814
513	11	5	5	2	3	91.833712	48.245614	89.044529	45.999159	13.4537	91.014383	47.556866	14.814
514	11	5	5	2	3	91.833712	48.245614	89.044529	45.999159	13.4537	91.014383	47.556866	14.814
515	11	5	5	3	2	91.49354	70.197421	87.278706	65.968044	11.1738	90.072231	68.747365	11.4309
516	11	5	5	3	2	91.49354	57.758917	87.278706	54.947112	11.1738	90.072231	56.833266	11.4309
517	11	5	5	3	2	91.49354	48.245614	87.278706	46.19481	11.1738	90.072231	47.590302	11.4309
518	11	5	5	3	2	91.49354	70.197421	87.278706	65.968044	11.1738	90.072231	68.747365	11.4309
519	11	5	5	3	2	91.49354	68.374851	87.278706	64.654878	11.1738	90.072231	67.122998	11.4309
520	11	5	5	3	2	91.49354	48.245614	87.278706	46.19481	11.1738	90.072231	47.590302	11.4309
521	11	5	5	3	2	91.49354	48.245614	87.278706	46.19481	11.1738	90.072231	47.590302	11.4309
522	11	5	5	3	2	91.49354	48.245614	87.278706	46.19481	11.1738	90.072231	47.590302	11.4309
523	11	5	5	4	1	90.183793	64.220455	85.223714	60.410108	9.6186	88.468944	62.905664	9.4849
524	11	5	5	4	1	90.183793	70.731358	85.223714	66.918732	9.6186	88.468944	69.427718	9.4849
525	11	5	5	4	1	90.183793	57.807354	85.223714	55.271533	9.6186	88.468944	56.957874	9.4849
526	11	5	5	4	1	90.183793	48.245614	85.223714	46.325555	9.6186	88.468944	47.609033	9.4849
527	11	5	5	4	1	90.183793	69.722774	85.223714	65.63015	9.6186	88.468944	68.312009	9.4849
528	11	5	5	4	1	90.183793	68.621739	85.223714	65.32693	9.6186	88.468944	67.507823	9.4849
529	11	5	5	4	1	90.183793	48.245614	85.223714	46.325555	9.6186	88.468944	47.609033	9.4849
530	11	5	5	5	0	88.372776	78.25022	83.000212	73.381546	8.4751	86.502437	76.557099	8.1978
531	11	5	5	1	4	89.795749	48.245614	90.299091	53.675022	17.1968	90.570504	56.109887	22.4312
532	11	5	5	1	4	89.795749	48.245614	90.299091	45.674315	17.1968	90.570504	47.480219	22.4312
533	11	5	5	5	0	88.372776	81.566838	83.000212	76.507258	8.4751	86.502437	79.807559	8.1978
534	11	5	5	3	2	91.49354	69.311584	87.278706	65.129928	11.1738	90.072231	67.877547	11.4309
535	11	5	5	3	2	91.49354	68.374851	87.278706	64.654878	11.1738	90.072231	67.122998	11.4309
536	11	5	5	3	2	91.49354	68.374851	87.278706	64.654878	11.1738	90.072231	67.122998	11.4309
537	11	5	5	4	1	90.183793	68.848802	85.223714	64.800544	9.6186	88.468944	67.453105	9.4849
538	11	5	5	4	1	90.183793	62.326221	85.223714	58.870987	9.6186	88.468944	61.141605	9.4849
539	11	5	5	4	1	90.183793	48.245614	85.223714	46.325555	9.6186	88.468944	47.609033	9.4849
540	11	5	5	5	0	88.372776	77.826708	83.000212	72.982503	8.4751	86.502437	76.142068	8.1978
541	11	5	5	5	0	88.372776	87.51981	83.000212	82.120744	8.4751	86.502437	85.642932	8.1978
542	11	5	5	5	0	88.372776	82.275781	83.000212	77.175558	8.4751	86.502437	80.502421	8.1978
543	11	4	3	4	3	61.909816	67.794501	60.029485	63.581216	12.7107	61.357465	66.356019	13.7153
544	11	4	3	4	3	61.909816	65.241874	60.029485	61.176077	12.7107	61.357465	63.852539	13.7153
545	11	4	3	5	2	61.680489	65.250761	58.839053	61.289725	10.9369	60.722312	63.890907	11.0725

546	11	4	3	5	2	61.680489	66.991369	58.839053	62.967242	10.9369	60.722312	65.612414	11.0725
547	11	4	3	5	2	61.680489	65.692915	58.839053	62.086862	10.9369	60.722312	64.477355	11.0725
548	11	4	3	6	1	60.797521	66.102338	57.453678	62.194657	9.7047	59.641454	64.754426	9.5246
549	11	4	4	2	4	63.322705	58.839634	63.677655	55.049153	15.8848	63.869051	57.544736	19.8773
550	11	4	4	3	3	64.759848	69.947456	62.792955	65.610458	13.0176	64.182069	68.467828	14.0086
551	11	4	4	3	3	64.759848	59.142532	62.792955	55.880754	13.0176	64.182069	58.072918	14.0086
552	11	4	4	3	3	64.759848	69.947456	62.792955	65.610458	13.0176	64.182069	68.467828	14.0086
553	11	4	4	3	3	64.759848	59.142532	62.792955	55.880754	13.0176	64.182069	58.072918	14.0086
554	11	4	4	3	3	64.759848	59.142532	62.792955	55.880754	13.0176	64.182069	58.072918	14.0086
555	11	4	4	4	2	64.519963	66.045944	61.547721	62.041465	11.2438	63.517676	64.671467	11.3658
556	11	4	4	4	2	64.519963	70.466165	61.547721	66.659196	11.2438	63.517676	69.18674	11.3658
557	11	4	4	4	2	64.519963	59.244192	61.547721	56.388022	11.2438	63.517676	58.305836	11.3658
558	11	4	4	4	2	64.519963	63.620938	61.547721	59.749307	11.2438	63.517676	62.291203	11.3658
559	11	4	4	4	2	64.519963	59.244192	61.547721	56.388022	11.2438	63.517676	58.305836	11.3658
560	11	4	4	5	1	63.596348	65.276812	60.09857	61.411727	10.0116	62.38706	63.943391	9.8179
561	11	4	4	5	1	63.596348	70.728414	60.09857	67.373791	10.0116	62.38706	69.595665	9.8179
562	11	4	4	6	0	62.319244	79.70191	58.530587	74.749521	9.0871	61.000308	77.979776	8.7721
563	10	5	2	5	2	85.883476	55.7729	82.106131	52.367219	9.6764	84.615917	54.602497	10.0001
564	10	5	2	5	2	85.883476	60.725982	82.106131	57.048265	9.6764	84.615917	59.463914	10.0001
565	10	5	2	5	2	85.883476	60.320458	82.106131	56.664827	9.6764	84.615917	59.06582	10.0001
566	10	5	2	6	1	84.532066	55.16908	79.982129	51.873337	8.1212	82.960618	54.031127	8.054
567	10	5	2	6	1	84.532066	61.165351	79.982129	57.829792	8.1212	82.960618	60.02356	8.054
568	10	5	2	5	2	85.883476	59.209778	82.106131	55.614805	9.6764	84.615917	57.975557	10.0001
569	10	5	2	6	1	84.532066	59.539733	79.982129	56.015831	8.1212	82.960618	58.324066	8.054
570	10	5	2	6	1	84.532066	53.568142	79.982129	50.565238	8.1212	82.960618	52.537515	8.054
571	10	5	2	7	0	82.666677	66.329677	77.689724	62.182669	6.9777	80.934415	64.887218	6.767
572	10	5	3	5	1	86.862318	54.595736	82.186955	51.330285	8.4706	85.247551	53.468114	8.3879
573	10	5	3	5	1	86.862318	68.03234	82.186955	63.562282	8.4706	85.247551	66.475125	8.3879
574	10	5	3	3	3	88.611976	65.384153	86.249057	61.33875	12.3057	87.949428	64.004944	13.7171
575	10	5	3	4	2	88.250981	59.318874	84.369508	55.717931	10.0258	86.948481	58.082643	10.334
576	10	5	3	4	2	88.250981	65.882817	84.369508	62.347493	10.0258	86.948481	64.696221	10.334
577	10	5	3	4	2	88.250981	59.720831	84.369508	56.442602	10.0258	86.948481	58.615777	10.334
578	10	5	3	5	1	86.862318	60.169484	82.186955	56.61311	8.4706	85.247551	58.94277	8.3879
579	10	5	3	5	1	86.862318	66.135013	82.186955	63.035361	8.4706	85.247551	65.089609	8.3879
580	10	5	3	5	1	86.862318	58.945869	82.186955	55.452683	8.4706	85.247551	57.740654	8.3879
581	10	5	3	5	1	86.862318	59.738047	82.186955	56.463195	8.4706	85.247551	58.616474	8.3879
582	10	5	3	6	0	84.945507	71.68853	79.831357	67.230605	7.3271	83.165493	70.138287	7.1008
583	10	5	3	5	1	86.862318	64.55185	82.186955	60.772308	8.4706	85.247551	63.249318	8.3879
584	10	5	3	6	0	84.945507	77.235576	79.831357	72.459635	7.3271	83.165493	75.575146	7.1008
585	10	5	4	5	0	87.287156	76.873314	82.032027	72.118023	7.6765	85.458073	75.220038	7.4347
586	10	5	4	3	2	90.683751	64.964993	86.695279	61.058428	10.3752	89.345345	63.626071	10.6678
587	10	5	4	3	2	90.683751	64.06015	86.695279	60.59927	10.3752	89.345345	62.897037	10.6678
588	10	5	4	3	2	90.683751	64.06015	86.695279	60.59927	10.3752	89.345345	62.897037	10.6678
589	10	5	4	4	1	89.256807	64.51787	84.452561	60.74004	8.82	87.597527	63.215919	8.7218
590	10	5	4	4	1	89.256807	58.235641	84.452561	55.025586	8.82	87.597527	57.135684	8.7218
591	10	5	4	4	1	89.256807	53.904685	84.452561	51.572486	8.82	87.597527	53.124539	8.7218
592	10	5	4	5	0	87.287156	73.225162	82.032027	68.678752	7.6765	85.458073	71.644255	7.4347
593	10	5	4	5	0	87.287156	82.705287	82.032027	77.619571	7.6765	85.458073	80.937582	7.4347
594	10	5	4	5	0	87.287156	77.566209	82.032027	72.771435	7.6765	85.458073	75.899255	7.4347
595	10	5	5	0	4	91.28329	43.859649	92.482161	48.795474	16.7476	92.3671	51.008988	22.002
596	10	5	5	1	3	93.564755	61.71488	91.069765	57.879811	13.0045	92.865175	60.405568	14.3848
597	10	5	5	1	3	93.564755	52.42026	91.069765	49.513934	13.0045	92.865175	51.465402	14.3848
598	10	5	5	1	3	93.564755	43.859649	91.069765	41.817417	13.0045	92.865175	43.233514	14.3848
599	10	5	5	2	2	93.183583	66.425837	89.085163	62.441255	10.7246	91.808282	65.06077	11.0017
600	10	5	5	2	2	93.183583	62.158956	89.085163	58.777162	10.7246	91.808282	61.020907	11.0017

601	10	5	5	2	2	93.183583	52.508106	89.085163	49.95192	10.7246	91.808282	51.666606	11.0017
602	10	5	5	2	2	93.183583	52.508106	89.085163	49.95192	10.7246	91.808282	51.666606	11.0017
603	10	5	5	3	1	91.717303	65.653419	86.780621	61.818553	9.1694	90.012283	64.332118	9.0556
604	10	5	5	3	1	91.717303	43.859649	86.780621	42.114141	9.1694	90.012283	43.280939	9.0556
605	10	5	5	3	1	91.717303	64.881783	86.780621	61.085639	9.1694	90.012283	63.573618	9.0556
606	10	5	5	3	1	91.717303	62.383399	86.780621	59.388118	9.1694	90.012283	61.370748	9.0556
607	10	5	5	3	1	91.717303	43.859649	86.780621	42.114141	9.1694	90.012283	43.280939	9.0556
608	10	5	5	4	0	89.693356	78.834595	84.293362	73.967703	8.0259	87.813852	77.142663	7.7686
609	10	5	5	4	0	89.693356	84.979842	84.293362	79.766422	8.0259	87.813852	83.167929	7.7686
610	10	5	5	1	3	93.564755	53.989168	91.069765	50.603476	13.0045	92.865175	52.829945	14.3848
611	10	5	5	1	3	93.564755	52.42026	91.069765	49.513934	13.0045	92.865175	51.465402	14.3848
612	10	5	5	1	3	93.564755	43.859649	91.069765	41.817417	13.0045	92.865175	43.233514	14.3848
613	10	5	5	3	1	91.717303	63.3076	86.780621	59.590921	9.1694	90.012283	62.026407	9.0556
614	10	5	5	3	1	91.717303	43.859649	86.780621	42.114141	9.1694	90.012283	43.280939	9.0556
615	10	5	5	4	0	89.693356	84.430982	84.293362	79.248317	8.0259	87.813852	82.629715	7.7686
616	10	4	2	5	2	60.09711	60.725982	57.453907	57.048265	10.0441	59.210134	59.463914	10.2193
617	10	4	3	3	3	63.405568	65.384153	61.714801	61.33875	12.1248	62.931488	64.004944	13.1554
618	10	4	3	4	2	63.147262	61.640088	60.369906	57.912713	10.351	62.215268	60.361323	10.5126
619	10	4	3	4	2	63.147262	65.882817	60.369906	62.347493	10.351	62.215268	64.696221	10.5126
620	10	4	3	4	2	63.147262	59.318874	60.369906	55.717931	10.351	62.215268	58.082643	10.5126
621	10	4	3	5	1	62.153615	60.903384	58.808198	57.309295	9.1188	60.998182	59.663845	8.9647
622	10	4	3	5	1	62.153615	66.135013	58.808198	63.035361	9.1188	60.998182	65.089609	8.9647
623	10	4	3	6	0	60.782057	74.796769	57.122669	70.160168	8.1942	59.508382	73.184611	7.9189
624	10	4	4	1	4	64.999099	53.490577	65.852766	50.044684	15.2989	65.770836	52.313397	19.3174
625	10	4	4	2	3	66.623636	63.588597	64.847056	59.645871	12.4317	66.125494	62.24348	13.4487
626	10	4	4	2	3	66.623636	53.765938	64.847056	50.800686	12.4317	66.125494	52.793561	13.4487
627	10	4	4	2	3	66.623636	53.765938	64.847056	50.800686	12.4317	66.125494	52.793561	13.4487
628	10	4	4	3	2	66.35222	65.821372	63.433902	61.869018	10.6579	65.372924	64.467102	10.8059
629	10	4	4	3	2	66.35222	64.06015	63.433902	60.59927	10.6579	65.372924	62.897037	10.8059
630	10	4	4	3	2	66.35222	53.858356	63.433902	51.261839	10.6579	65.372924	53.005306	10.8059
631	10	4	4	3	2	66.35222	65.821372	63.433902	61.869018	10.6579	65.372924	64.467102	10.8059
632	10	4	4	3	2	66.35222	64.06015	63.433902	60.59927	10.6579	65.372924	62.897037	10.8059
633	10	4	4	3	2	66.35222	64.06015	63.433902	60.59927	10.6579	65.372924	62.897037	10.8059
634	10	4	4	3	2	66.35222	53.858356	63.433902	51.261839	10.6579	65.372924	53.005306	10.8059
635	10	4	4	3	2	66.35222	53.858356	63.433902	51.261839	10.6579	65.372924	53.005306	10.8059
636	10	4	4	3	2	66.35222	53.858356	63.433902	51.261839	10.6579	65.372924	53.005306	10.8059
637	10	4	4	4	1	65.308142	60.056303	61.792932	56.505757	9.4257	64.094066	58.831572	9.258
638	10	4	4	4	1	65.308142	66.337881	61.792932	62.789273	9.4257	64.094066	65.125406	9.258
639	10	4	4	4	1	65.308142	53.904685	61.792932	51.572486	9.4257	64.094066	53.124539	9.258
640	10	4	4	4	1	65.308142	65.362425	61.792932	61.542143	9.4257	64.094066	64.046071	9.258
641	10	4	4	4	1	65.308142	64.298559	61.792932	61.248901	9.4257	64.094066	63.268786	9.258
642	10	4	4	4	1	65.308142	53.904685	61.792932	51.572486	9.4257	64.094066	53.124539	9.258
643	10	4	4	5	0	63.866972	73.637643	60.021857	69.067532	8.5011	62.528654	72.048523	8.2122
644	10	4	4	1	4	64.999099	53.490577	65.852766	50.044684	15.2989	65.770836	52.313397	19.3174
645	10	3	3	3	3	41.183125	65.384153	40.084939	61.33875	12.5471	40.8752	64.004944	13.1356
646	9	5	2	5	1	85.513544	50.206898	81.033723	47.211506	7.672	83.968301	49.172777	7.6248
647	9	5	2	5	1	85.513544	62.9007	81.033723	58.769469	7.672	83.968301	61.461575	7.6248
648	9	5	2	4	2	87.033887	54.653384	83.428254	51.343439	9.2272	85.831913	53.517523	9.5709
649	9	5	2	5	1	85.513544	55.455956	81.033723	52.188355	7.672	83.968301	54.32918	7.6248
650	9	5	2	5	1	85.513544	55.048816	81.033723	52.046813	7.672	83.968301	54.021204	7.6248
651	9	5	2	5	1	85.513544	54.301617	81.033723	51.093208	7.672	83.968301	53.194965	7.6248
652	9	5	2	5	1	85.513544	55.048816	81.033723	52.046813	7.672	83.968301	54.021204	7.6248
653	9	5	2	6	0	83.419412	66.378496	78.457262	62.259387	6.5285	81.692733	64.946206	6.3377
654	9	5	2	4	2	87.033887	53.928284	83.428254	50.657857	9.2272	85.831913	52.805719	9.5709
655	9	5	2	5	1	85.513544	54.170008	81.033723	50.968372	7.672	83.968301	53.06566	7.6248

656	9	5	2	5	1	85.513544	53.664664	81.033723	50.721565	7.672	83.968301	52.656671	7.6248
657	9	5	2	6	0	83.419412	81.721522	78.457262	76.737949	6.5285	81.692733	79.989933	6.3377
658	9	5	3	5	0	85.978383	71.56175	80.864014	67.146904	6.8779	84.198736	70.027013	6.6716
659	9	5	3	3	2	89.703735	60.156242	85.987496	56.550269	9.5766	88.464889	58.921034	9.9047
660	9	5	3	3	2	89.703735	59.294536	85.987496	56.112744	9.5766	88.464889	58.226599	9.9047
661	9	5	3	3	2	89.703735	59.294536	85.987496	56.112744	9.5766	88.464889	58.226599	9.9047
662	9	5	3	4	1	88.136754	59.730348	83.51951	56.246862	8.0214	86.544109	58.530291	7.9587
663	9	5	3	4	1	88.136754	53.764242	83.51951	50.816876	8.0214	86.544109	52.754827	7.9587
664	9	5	3	4	1	88.136754	59.521511	83.51951	56.731824	8.0214	86.544109	58.580648	7.9587
665	9	5	3	5	0	85.978383	68.054765	80.864014	63.839602	6.8779	84.198736	66.589194	6.6716
666	9	5	3	5	0	85.978383	77.191856	80.864014	72.460052	6.8779	84.198736	75.547385	6.6716
667	9	5	3	5	0	85.978383	72.229125	80.864014	67.776475	6.8779	84.198736	70.681296	6.6716
668	9	5	4	3	1	90.840433	58.752741	86.081551	55.318172	8.3708	89.198932	57.569272	8.2925
669	9	5	4	4	0	88.615852	79.179796	83.344595	74.337143	7.2273	86.781612	77.496963	7.0055
670	9	5	5	0	3	95.724847	55.543392	93.607713	52.09183	12.5553	95.178441	54.365011	13.9555
671	9	5	5	1	2	95.291644	65.344807	91.343909	61.466003	10.2753	93.975627	64.018452	10.5724
672	9	5	5	1	2	95.291644	55.94306	91.343909	52.899446	10.2753	93.975627	54.918817	10.5724
673	9	5	5	1	2	95.291644	47.257296	91.343909	44.956728	10.2753	93.975627	46.499945	10.5724
674	9	5	5	2	1	93.627051	59.799266	88.722185	56.312342	8.7202	91.935195	58.598043	8.6264
675	9	5	5	2	1	93.627051	56.145059	88.722185	53.449306	8.7202	91.935195	55.233673	8.6264
676	9	5	5	2	1	93.627051	39.473684	88.722185	37.902727	8.7202	91.935195	38.952845	8.6264
677	9	5	5	3	0	91.334228	75.249597	85.901271	70.626633	7.5767	89.443722	73.6428	7.3393
678	9	5	5	3	0	91.334228	74.816767	85.901271	70.21813	7.5767	89.443722	73.218392	7.3393
679	9	5	5	1	2	95.291644	60.52292	91.343909	59.747509	10.2753	93.975627	60.395931	10.5724
680	9	5	5	1	2	95.291644	48.895843	91.343909	46.159249	10.2753	93.975627	47.970018	10.5724
681	9	5	5	1	2	95.291644	39.473684	91.343909	37.795753	10.2753	93.975627	38.93752	10.5724
682	9	5	5	3	0	91.334228	76.463728	85.901271	71.772665	7.5767	89.443722	74.833358	7.3393
683	9	4	2	4	2	61.509114	56.844798	58.960919	53.416143	9.4581	60.659648	55.669044	7.9531
684	9	4	2	4	2	61.509114	54.653384	58.960919	51.343439	9.4581	60.659648	53.517523	7.9531
685	9	4	2	5	1	60.434648	56.148848	57.268642	52.845899	8.2259	59.342584	55.010061	8.1115
686	9	4	2	5	1	60.434648	55.048816	57.268642	52.046813	8.2259	59.342584	54.021204	8.1115
687	9	4	3	3	2	64.987435	60.972431	62.295141	57.323136	9.765	64.089932	59.722724	9.9527
688	9	4	3	3	2	64.987435	59.294536	62.295141	56.112744	9.765	64.089932	58.226599	9.9527
689	9	4	3	3	2	64.987435	59.294536	62.295141	56.112744	9.765	64.089932	58.226599	9.9527
690	9	4	3	4	1	63.852208	55.489868	60.507166	52.220534	8.5328	62.698389	54.362503	8.4048
691	9	4	3	4	1	63.852208	61.465002	60.507166	58.201288	8.5328	62.698389	60.350662	7.5516
692	9	4	3	4	1	63.852208	60.534945	60.507166	57.011402	8.5328	62.698389	59.321311	8.4048
693	9	4	3	4	1	63.852208	59.521511	60.507166	56.731824	8.5328	62.698389	58.580648	8.4048
694	9	4	3	5	0	62.288539	68.450713	58.583345	64.212918	7.6083	60.999242	66.977302	7.359
695	9	4	4	0	4	67.108413	48.141519	68.612387	45.040216	14.7129	68.17231	47.082057	18.7575
696	9	4	4	1	3	68.974599	57.229737	67.449097	53.681284	11.8457	68.580886	56.019132	12.8888
697	9	4	4	1	3	68.974599	48.389344	67.449097	45.720617	11.8457	68.580886	47.514205	12.8888
698	9	4	4	2	2	68.662454	61.741414	65.817911	58.05144	10.072	67.714197	60.4781	10.246
699	9	4	4	2	2	68.662454	57.654135	65.817911	54.539343	10.072	67.714197	56.607333	10.246
700	9	4	4	2	2	68.662454	48.472521	65.817911	46.135655	10.072	67.714197	47.704775	10.246
701	9	4	4	2	2	68.662454	48.472521	65.817911	46.135655	10.072	67.714197	47.704775	10.246
702	9	4	4	3	1	67.463031	61.000234	63.928827	57.453611	8.8398	66.243963	59.778781	8.6981
703	9	4	4	3	1	67.463031	48.514216	63.928827	46.415237	8.8398	66.243963	47.812085	8.6981
704	9	4	4	3	1	67.463031	60.260369	63.928827	56.750474	8.8398	66.243963	59.05136	8.6981
705	9	4	4	3	1	67.463031	59.704093	63.928827	56.510346	8.8398	66.243963	58.612865	8.6981
706	9	4	4	3	1	67.463031	57.868703	63.928827	55.124011	8.8398	66.243963	56.941907	8.6981
707	9	4	4	3	1	67.463031	48.514216	63.928827	46.415237	8.8398	66.243963	47.812085	8.6981
708	9	4	4	4	0	65.810936	73.726202	61.896215	69.188977	7.9152	64.44873	72.149088	7.6523
709	9	4	4	4	0	65.810936	79.716288	61.896215	74.843814	7.9152	64.44873	78.023137	7.6523
710	9	4	4	1	3	68.974599	49.87593	67.449097	46.753425	11.8457	68.580886	48.807383	12.8888

711	9	4	4	1	3	68.974599	48.389344	67.449097	45.720617	11.8457	68.580886	47.514205	12.8888
712	9	4	4	1	3	68.974599	48.389344	67.449097	45.720617	11.8457	68.580886	47.514205	12.8888
713	9	3	3	2	3	43.085605	58.845738	42.132686	55.204875	11.7352	42.839668	57.60445	12.3598
714	9	3	3	3	2	42.890621	60.972431	41.113752	57.323136	10.4926	42.298284	59.722724	10.504
715	9	3	3	3	2	42.890621	59.294536	41.113752	56.112744	10.4926	42.298284	58.226599	10.504
716	8	5	2	5	0	84.369977	65.649504	79.427357	61.609926	6.0793	82.650629	64.245379	5.9085
717	8	5	2	3	2	88.493596	54.905776	85.110887	51.624504	8.778	87.376511	53.782397	9.1416
718	8	5	2	4	1	86.756432	54.506709	82.36768	51.340086	7.2228	85.245133	53.416207	7.1956
719	8	5	2	4	1	86.756432	48.932281	82.36768	46.263833	7.2228	85.245133	48.018848	7.1956
720	8	5	2	5	0	84.369977	62.334334	79.427357	58.482501	6.0793	82.650629	60.995225	5.9085
721	8	5	2	5	0	84.369977	74.13176	79.427357	69.619729	6.0793	82.650629	72.564141	5.9085
722	8	5	2	4	1	86.756432	53.765671	82.36768	50.635777	7.2228	85.245133	52.687612	7.1956
723	8	5	2	5	0	84.369977	73.856175	79.427357	69.359314	6.0793	82.650629	72.293803	5.9085
724	8	5	3	3	1	89.756125	53.739713	85.215628	50.611109	7.5722	88.192572	52.662091	7.5294
725	8	5	3	4	0	87.287156	73.161776	82.17364	68.703195	6.4287	85.50836	71.612645	6.2424
726	8	5	4	3	0	90.3052	72.63964	85.014879	68.209892	6.7781	88.4649	71.100483	6.5762
727	8	5	5	0	2	97.99391	58.084273	94.248047	54.636447	9.8261	96.7569	56.905291	10.1432
728	8	5	5	1	1	96.070251	59.994753	91.21034	56.561592	8.271	94.396706	58.814152	8.1971
729	8	5	5	1	1	96.070251	35.087719	91.21034	33.691313	8.271	94.396706	34.624751	8.1971
730	8	5	5	2	0	93.427596	74.636652	87.954356	70.096858	7.1275	91.523665	73.059431	6.9101
731	8	5	5	1	1	96.070251	60.973753	91.21034	58.067667	8.271	94.396706	59.991981	8.1971
732	8	5	5	1	1	96.070251	35.087719	91.21034	33.691313	8.271	94.396706	34.624751	8.1971
733	8	4	2	3	2	63.320863	55.670978	60.900393	52.349374	8.8722	62.521542	54.534119	9.0995
734	8	4	2	4	1	62.077849	50.541578	58.937514	47.573533	7.64	60.996452	49.518422	5.8453
735	8	4	2	4	1	62.077849	56.133047	58.937514	53.17364	7.64	60.996452	55.123304	5.8453
736	8	4	2	4	1	62.077849	55.260752	58.937514	52.056935	7.64	60.996452	54.157656	5.8453
737	8	4	2	5	0	60.370241	62.708105	56.83359	58.835017	6.7154	59.139976	61.361634	6.5058
738	8	4	3	3	1	66.040876	55.159766	62.700063	51.960919	7.9469	64.890443	54.058353	7.8449
739	8	4	3	3	1	66.040876	54.635557	62.700063	51.734478	7.9469	64.890443	53.645033	7.8449
740	8	4	3	3	1	66.040876	52.90801	62.700063	50.428288	7.9469	64.890443	52.071687	7.8449
741	8	4	3	4	0	64.224255	67.937872	60.461826	63.769712	7.0223	62.91545	66.489233	6.7991
742	8	4	3	4	0	64.224255	73.677208	60.461826	69.190206	7.0223	62.91545	72.118246	6.7991
743	8	4	3	1	3	67.70786	45.421223	66.597405	42.58215	10.9529	67.471385	44.450158	12.0356
744	8	4	4	0	3	72.030305	50.870877	70.848959	47.716696	11.2598	71.778733	49.794784	12.3289
745	8	4	4	1	2	71.663688	60.170128	68.92431	56.614407	9.486	70.759053	58.95522	9.6861
746	8	4	4	1	2	71.663688	51.24812	68.92431	48.479416	9.486	70.759053	50.317629	9.6861
747	8	4	4	1	2	71.663688	43.086685	68.92431	41.009471	9.486	70.759053	42.404244	9.6861
748	8	4	4	2	1	70.256902	54.896439	66.702812	51.710568	8.2538	69.033025	53.799419	8.1382
749	8	4	4	2	1	70.256902	51.438847	66.702812	48.999121	8.2538	69.033025	50.615029	8.1382
750	8	4	4	3	0	68.324308	69.669786	64.321686	65.404862	7.3292	66.931949	68.187658	7.0924
751	8	4	4	3	0	68.324308	69.252488	64.321686	65.010835	7.3292	66.931949	67.778413	7.0924
752	8	4	4	1	2	71.663688	55.582798	68.92431	54.975911	9.486	70.759053	55.50606	9.6861
753	8	4	4	1	2	71.663688	44.62041	68.92431	42.135965	9.486	70.759053	43.780697	9.6861
754	8	4	4	1	2	71.663688	43.086685	68.92431	41.009471	9.486	70.759053	42.404244	9.6861
755	8	3	2	3	2	41.128107	55.670978	39.555966	52.349374	9.4616	40.608933	54.534119	9.5188
756	8	3	3	1	3	45.587767	52.307323	44.840097	49.071	10.9233	45.428549	51.203955	11.584
757	8	3	3	2	2	45.355737	56.556843	43.621993	53.188733	9.6807	44.783196	55.404452	9.7282
758	8	3	3	2	2	45.355737	52.706254	43.621993	49.877995	9.6807	44.783196	51.756977	9.7282
759	8	3	3	3	1	44.465386	55.857429	42.216013	52.624309	8.7796	43.690798	54.744416	8.594
760	7	5	1	4	1	85.013449	40.249888	80.910066	37.857274	6.4242	83.603629	39.424151	6.4325
761	7	5	2	3	1	88.381011	48.289367	84.115085	45.489166	6.7736	86.915346	47.325221	6.7663
762	7	5	2	3	1	88.381011	48.435781	84.115085	45.872686	6.7736	86.915346	47.560945	6.7663
763	7	5	2	4	0	85.608065	78.69947	80.692267	74.007539	5.6301	83.898732	77.070759	5.4793
764	7	5	2	4	0	85.608065	76.949403	80.692267	72.349658	5.6301	83.898732	75.352518	5.4793
765	7	5	3	3	0	88.999181	66.918908	83.888658	62.858258	5.9795	87.222138	65.508294	5.8131

766	7	5	5	0	1	99.305421	59.410161	94.512201	56.085191	7.8218	97.658591	58.269175	7.7679
767	7	5	5	1	0	96.189722	69.560399	90.666303	65.356009	6.6783	94.269106	68.100093	6.4808
768	7	5	5	1	0	96.189722	57.993109	90.666303	54.427513	6.6783	94.269106	56.753778	6.4808
769	7	4	2	3	1	64.256356	49.600715	61.154865	46.736274	7.054	63.190761	48.614833	6.9917
770	7	4	2	3	1	64.256356	49.116416	61.154865	46.526935	7.054	63.190761	48.232891	6.9917
771	7	4	2	4	0	62.240318	61.485276	58.666346	57.724276	6.1295	60.997568	60.178312	4.2396
772	7	4	2	4	0	62.240318	80.512293	58.666346	75.725457	6.1295	60.997568	78.850827	4.2396
773	7	4	3	3	0	66.801686	62.94926	62.96579	59.106999	6.4364	65.467859	61.61418	6.2392
774	7	4	3	1	2	70.545919	53.495616	68.140846	50.34089	8.5932	69.763212	52.418119	8.8329
775	7	4	3	1	2	70.545919	40.006514	68.140846	37.789949	8.5932	69.763212	39.258031	8.8329
776	7	4	4	0	2	75.715974	52.648862	73.134642	49.537606	8.9001	74.875906	51.585817	9.1262
777	7	4	4	1	1	74.019701	54.444872	70.446958	51.34859	7.6679	72.792196	53.380744	7.5783
778	7	4	4	2	0	71.697339	68.351786	67.580325	64.213008	6.7433	70.265761	66.91416	6.5325
779	7	4	4	1	1	74.019701	55.36686	70.446958	52.768584	7.6679	72.792196	54.49044	7.5783
780	7	3	2	2	2	43.578509	50.892671	42.092817	47.872241	8.6497	43.095006	49.859868	8.743
781	7	3	2	3	1	42.602215	50.245657	40.545915	47.349852	7.7486	41.895722	49.249172	7.6088
782	7	3	2	3	1	42.602215	49.116416	40.545915	46.526935	7.7486	41.895722	48.232891	7.6088
783	7	3	3	0	3	49.01952	45.768907	48.578239	42.937125	10.1114	48.988305	44.803461	10.8082
784	7	3	3	1	2	48.734484	54.416398	47.073014	51.214639	8.8688	48.193776	53.323281	8.9524
785	7	3	3	1	2	48.734484	46.117972	47.073014	43.643245	8.8688	48.193776	45.287355	8.9524
786	7	3	3	2	1	47.642681	49.501345	45.34309	46.641749	7.9677	46.852599	48.517102	7.8182
787	7	3	3	2	1	47.642681	54.921434	45.34309	52.117941	7.9677	46.852599	53.967884	7.8182
788	7	3	3	2	1	47.642681	46.294509	45.34309	44.124752	7.9677	46.852599	45.562726	7.8182
789	7	3	3	3	0	46.147896	63.3434	43.497985	59.479328	7.2607	45.226462	62.000774	7.015
790	6	5	1	4	0	83.419412	51.684677	78.758561	48.517656	4.8315	81.799595	50.584042	4.7162
791	6	5	2	3	0	87.287156	68.859073	82.410205	64.763978	5.1809	85.592236	67.437687	5.05
792	6	5	5	0	0	100	100	94.41275	94.382023	6.229	98.058226	98.054475	6.0516
793	6	4	1	3	1	61.951778	39.230863	59.153673	36.938021	6.1612	60.993569	38.440822	6.1386
794	6	4	1	3	1	61.951778	38.723786	59.153673	36.45643	6.1612	60.993569	37.942392	6.1386
795	6	4	1	3	1	61.951778	37.880343	59.153673	35.65562	6.1612	60.993569	37.113422	6.1386
796	6	4	2	3	0	64.824174	55.920894	61.202286	52.519159	5.5435	63.565435	54.739054	5.386
797	6	4	3	1	1	73.067383	54.080416	69.767232	51.09005	6.775	71.937248	53.055431	6.7251
798	6	4	3	1	1	73.067383	34.40511	69.767232	32.700366	6.775	71.937248	33.826965	6.7251
799	6	4	4	0	1	79.352103	53.07368	75.768097	50.127611	7.0819	78.124763	52.063505	7.0184
800	6	4	4	1	0	76.455154	62.59298	72.183414	58.829259	6.1574	74.970568	61.286014	5.9726
801	6	4	4	1	0	76.455154	51.755628	72.183414	48.584645	6.1574	74.970568	50.653622	5.9726
802	6	3	2	2	1	45.846235	43.635078	43.775551	41.125504	6.9367	45.137131	42.771671	6.833
803	6	3	2	2	1	45.846235	48.563908	43.775551	46.109337	6.9367	45.137131	47.729843	6.833
804	6	3	2	3	0	44.172503	56.283858	41.704475	52.862188	6.2297	43.314773	55.095124	6.0298
805	6	3	3	0	2	53.634212	46.642627	52.102754	43.898262	8.0569	53.148634	45.705669	8.1765
806	6	3	3	1	1	52.235011	48.289049	49.875772	45.55947	7.1558	51.427092	47.351489	7.0424
807	6	3	3	1	1	52.235011	39.681008	49.875772	37.821216	7.1558	51.427092	39.053765	7.0424
808	6	3	3	2	0	50.328041	61.166616	47.516087	57.479488	6.4488	49.350783	59.886114	6.2392
809	6	2	2	1	2	27.415461	48.103347	26.632646	45.284932	8.7956	27.167254	47.141835	8.7282
810	5	4	1	3	0	62.153615	52.567474	58.816045	49.409285	4.6507	60.994554	51.470821	4.5329
811	5	4	1	3	0	62.153615	51.483462	58.816045	48.383357	4.6507	60.994554	50.406875	4.5329
812	5	4	1	3	0	62.153615	49.71734	58.816045	46.712507	4.6507	60.994554	48.673678	4.5329
813	5	4	3	1	0	75.765261	57.917968	71.696763	54.477466	5.2645	74.352366	56.723844	5.1194
814	5	4	4	0	0	83.651165	90.538009	79.159203	85.534694	5.5714	82.09121	88.806444	5.4127
815	5	3	1	2	1	43.444436	37.321562	41.671616	35.184196	5.9057	42.84048	36.586507	5.8479
816	5	3	1	2	1	43.444436	36.823654	41.671616	34.710141	5.9057	42.84048	36.09665	5.8479
817	5	3	1	2	1	43.444436	36.384599	41.671616	34.292224	5.9057	42.84048	35.664734	5.8479
818	5	3	1	2	1	43.444436	35.861961	41.671616	33.794877	5.9057	42.84048	35.150642	5.8479
819	5	3	1	2	1	43.444436	35.401997	41.671616	33.357288	5.9057	42.84048	34.698242	5.8479
820	5	3	2	2	0	48.589427	53.086178	45.980236	49.900302	5.4178	47.683315	51.979961	5.254

821	5	3	3	0	1	59.417366	45.984732	56.992744	43.452796	6.3439	58.591356	45.117231	6.2666
822	5	3	3	1	0	56.823946	54.621676	53.772572	51.354238	5.6369	55.764275	53.487291	5.4633
823	5	2	2	0	2	32.239665	40.086122	31.570808	37.737443	7.5526	32.040154	39.284862	7.5405
824	5	2	2	1	1	31.233041	41.547037	29.958526	39.212385	6.9528	30.798845	40.745577	6.7976
825	5	2	2	1	1	31.233041	40.469923	29.958526	38.424448	6.9528	30.798845	39.774869	6.7976
826	4	3	1	2	0	46.09347	52.530767	43.769037	49.46176	4.3868	45.287154	51.466305	4.2688
827	4	3	1	2	0	46.09347	51.310124	43.769037	48.302517	4.3868	45.287154	50.266818	4.2688
828	4	3	1	2	0	46.09347	50.253896	43.769037	47.299803	4.3868	45.287154	49.229035	4.2688
829	4	3	1	2	0	46.09347	49.020488	43.769037	46.129336	4.3868	45.287154	48.017328	4.2688
830	4	3	1	2	0	46.09347	47.955876	43.769037	45.119441	4.3868	45.287154	46.971586	4.2688
831	4	3	3	0	0	68.173162	78.574994	64.735279	74.30981	4.825	66.980605	77.099885	4.6875
832	4	2	1	1	1	29.359783	34.242973	28.354785	32.329732	5.6901	29.020696	33.586536	5.591
833	4	2	2	0	1	39.515062	38.158657	38.162445	36.074344	5.7098	39.058689	37.445067	5.6099
834	4	2	2	0	1	39.515062	32.375938	38.162445	30.739558	5.7098	39.058689	31.819895	5.6099
835	4	2	2	1	0	37.371038	45.645165	35.486466	42.928736	5.1826	36.717304	44.70228	5.0151
836	3	2	1	1	0	36.533691	47.307166	34.891374	44.622458	3.9199	35.965059	46.377074	3.8085
837	3	2	2	0	0	54.288353	63.829066	51.847901	60.430962	3.9396	53.443376	62.654684	3.8274
838	3	1	1	0	1	19.677363	29.617269	19.221444	28.012115	2.8438	19.527498	29.068137	2.7689
839	2	1	1	0	0	44.72136	46.011605	43.204938	43.613067	1.3929	44.198285	45.183307	1.3532

Table of Criteria Values for CCDs

Dsgn	P	dv	l	c	q	$r_s = 2, n_0 = 1$			$r_s = 2, n_0 = 3$		
						D	D	G	IV	G	IV
1	21	5	5	10	5	78.883388	80.097469	92.981506	33.1745	39.622642	74.1056
2	20	5	5	9	5	79.944966	81.387998	89.965535	32.6254	37.735849	73.5765
3	20	5	5	10	4	81.744006	79.990792	88.572381	20.222	91.904199	22.7003
4	19	5	4	10	4	80.962467	79.29009	86.068658	19.4336	89.306061	21.9406
5	19	5	5	8	5	81.13492	82.838578	86.717694	32.0764	35.849057	73.0474
6	19	5	5	8	5	81.13492	82.838578	87.307205	32.0764	35.849057	73.0474
7	19	5	5	9	4	83.057963	81.342302	85.485462	19.6729	88.700998	22.1712
8	19	5	5	9	4	83.057963	81.342302	85.889802	19.6729	88.890628	22.1712
9	19	5	5	10	3	80.6692	78.388657	84.159211	16.1866	87.315455	16.528
10	18	5	4	9	4	82.292839	80.665408	82.869119	18.8846	85.986009	21.4115
11	18	5	4	10	3	79.796608	77.576771	81.554042	15.3983	84.61215	15.7683
12	18	5	5	7	5	82.477874	84.480675	88.07822	31.5273	33.962264	72.5184
13	18	5	5	7	5	82.477874	84.480675	83.255363	31.5273	33.962264	72.5184
14	18	5	5	7	5	82.477874	84.480675	90.023993	31.5273	33.962264	72.5184
15	18	5	5	8	4	84.542701	82.870777	82.171358	19.1239	85.262089	21.6421
16	18	5	5	8	4	84.542701	82.870777	82.185041	19.1239	85.268522	21.6421
17	18	5	5	8	4	84.542701	82.870777	82.730085	19.1239	85.841763	21.6421
18	18	5	5	8	4	84.542701	82.870777	86.938846	19.1239	87.767147	21.6421
19	18	5	5	8	4	84.542701	82.870777	83.071808	19.1239	86.002078	21.6421
20	18	5	5	9	3	81.978224	79.697698	81.001333	15.6376	84.038846	15.999
21	18	5	5	9	3	81.978224	79.697698	81.015078	15.6376	84.047877	15.999
22	18	5	5	9	3	81.978224	79.697698	85.602389	15.6376	88.670683	15.999
23	18	5	5	10	2	78.533147	76.078703	79.747467	14.0769	82.729386	13.937
24	17	5	4	8	4	83.805611	82.230778	79.43762	18.3356	82.425296	20.8824
25	17	5	4	8	4	83.805611	82.230778	79.990593	18.3356	82.998997	20.8824
26	17	5	4	9	3	81.116381	78.900793	78.280217	14.8492	81.21526	15.2393
27	17	5	4	9	3	81.116381	78.900793	78.293809	14.8492	81.22419	15.2393
28	17	5	4	9	3	81.116381	78.900793	78.955843	14.8492	81.898551	15.2393
29	17	5	4	10	2	77.511522	75.112373	77.040742	13.2885	79.920844	13.1773
30	17	5	5	6	5	84.005146	86.354511	90.071943	30.9783	32.075472	71.9893
31	17	5	5	6	5	84.005146	86.354511	84.382186	30.9783	32.075472	71.9893

32	17	5	5	7	4	86.233545	84.613086	83.204259	18.5749	86.333105	21.1131
33	17	5	5	7	4	86.233545	84.613086	83.219113	18.5749	86.340089	21.1131
34	17	5	5	7	4	86.233545	84.613086	85.800185	18.5749	88.770003	21.1131
35	17	5	5	7	4	86.233545	84.613086	78.647286	18.5749	81.605335	21.1131
36	17	5	5	7	4	86.233545	84.613086	79.02984	18.5749	81.784734	21.1131
37	17	5	5	7	4	86.233545	84.613086	85.042795	18.5749	88.240531	21.1131
38	17	5	5	7	4	86.233545	84.613086	85.058313	18.5749	88.247826	21.1131
39	17	5	5	7	4	86.233545	84.613086	85.425271	18.5749	88.419925	21.1131
40	17	5	5	8	3	83.466405	81.186629	77.620971	15.0886	80.531454	15.4699
41	17	5	5	8	3	83.466405	81.186629	82.089009	15.0886	84.88354	15.4699
42	17	5	5	8	3	83.466405	81.186629	77.638661	15.0886	80.53839	15.4699
43	17	5	5	8	3	83.466405	81.186629	82.091222	15.0886	85.066139	15.4699
44	17	5	5	6	5	84.005146	86.354511	84.961545	30.9783	32.075472	71.9893
45	17	5	5	8	3	83.466405	81.186629	78.148858	15.0886	81.079007	15.4699
46	17	5	5	8	3	83.466405	81.186629	83.733204	15.0886	86.839708	15.4699
47	17	5	5	8	3	83.466405	81.186629	78.507719	15.0886	81.365828	15.4699
48	17	5	5	9	2	79.757109	77.288454	76.518502	13.5279	79.379264	13.4079
49	17	5	5	9	2	79.757109	77.288454	80.848541	13.5279	83.860395	13.4079
50	17	5	5	9	2	79.757109	77.288454	81.375432	13.5279	83.938624	13.4079
51	17	5	5	10	1	75.770334	73.271878	79.509123	12.6958	82.471137	12.4039
52	16	5	3	9	3	80.157633	78.013797	75.258441	14.0609	78.079794	14.4796
53	16	5	4	7	4	85.540747	84.028158	80.294507	17.7865	83.313666	20.3534
54	16	5	4	7	4	85.540747	84.028158	75.791697	17.7865	78.642119	20.3534
55	16	5	4	7	4	85.540747	84.028158	82.114731	17.7865	85.202082	20.3534
56	16	5	4	8	3	82.627235	80.417349	74.779303	14.3002	77.582811	14.7102
57	16	5	4	8	3	82.627235	80.417349	79.191358	14.3002	81.879961	14.7102
58	16	5	4	8	3	82.627235	80.417349	75.299951	14.3002	78.12285	14.7102
59	16	5	4	8	3	82.627235	80.417349	80.817975	14.3002	83.815013	14.7102
60	16	5	4	8	3	82.627235	80.417349	75.653987	14.3002	78.405803	14.7102
61	16	5	4	9	2	78.731228	76.321034	73.692491	12.7395	76.446999	12.6482
62	16	5	4	9	2	78.731228	76.321034	77.965229	12.7395	80.868746	12.6482
63	16	5	4	10	1	74.556401	72.113797	76.642333	11.9075	79.496656	11.6442
64	16	5	5	5	5	85.757158	88.512302	86.096243	30.4293	30.188679	71.4602
65	16	5	5	6	4	88.176199	86.617008	84.794861	18.0258	87.982598	20.584
66	16	5	5	6	4	88.176199	86.617008	85.267687	18.0258	88.204236	20.584
67	16	5	5	5	5	85.757158	88.512302	80.466012	30.4293	30.188679	71.4602
68	16	5	5	5	5	85.757158	88.512302	85.634637	30.4293	30.188679	71.4602
69	16	5	5	5	5	85.757158	88.512302	87.071145	30.4293	30.188679	71.4602
70	16	5	5	6	4	88.176199	86.617008	79.437194	18.0258	82.424231	20.584
71	16	5	5	6	4	88.176199	86.617008	79.45158	18.0258	82.430995	20.584
72	16	5	5	6	4	88.176199	86.617008	79.485953	18.0258	82.44715	20.584
73	16	5	5	6	4	88.176199	86.617008	81.952397	18.0258	84.785242	20.584
74	16	5	5	7	3	85.172924	82.894952	78.325781	14.5395	81.261337	14.9408
75	16	5	5	7	3	85.172924	82.894952	81.118236	14.5395	84.121717	14.9408
76	16	5	5	7	3	85.172924	82.894952	78.344921	14.5395	81.268841	14.9408
77	16	5	5	7	3	85.172924	82.894952	81.188098	14.5395	84.203694	14.9408
78	16	5	5	7	3	85.172924	82.894952	74.035172	14.5395	76.810963	14.9408
79	16	5	5	7	3	85.172924	82.894952	74.690687	14.5395	77.46038	14.9408
80	16	5	5	7	3	85.172924	82.894952	77.03231	14.5395	78.806018	14.9408
81	16	5	5	5	5	85.757158	88.512302	84.360379	30.4293	30.188679	71.4602
82	16	5	5	7	3	85.172924	82.894952	80.056878	14.5395	83.056858	14.9408
83	16	5	5	7	3	85.172924	82.894952	82.848665	14.5395	85.891732	14.9408
84	16	5	5	7	3	85.172924	82.894952	80.076873	14.5395	83.064698	14.9408
85	16	5	5	7	3	85.172924	82.894952	82.834439	14.5395	85.86428	14.9408
86	16	5	5	7	3	85.172924	82.894952	84.15237	14.5395	87.320437	14.9408

87	16	5	5	8	2	81.156884	78.672433	73.071739	12.9788	75.803264	12.8788
88	16	5	5	8	2	81.156884	78.672433	77.262917	12.9788	80.145456	12.8788
89	16	5	5	8	2	81.156884	78.672433	77.501721	12.9788	79.898844	12.8788
90	16	5	5	8	2	81.156884	78.672433	77.269152	12.9788	80.14136	12.8788
91	16	5	5	8	2	81.156884	78.672433	77.645844	12.9788	80.066824	12.8788
92	16	5	5	6	4	88.176199	86.617008	84.391062	18.0258	86.42038	20.584
93	16	5	5	6	4	88.176199	86.617008	80.166078	18.0258	83.076307	20.584
94	16	5	5	8	2	81.156884	78.672433	78.812525	12.9788	81.756456	12.8788
95	16	5	5	8	2	81.156884	78.672433	73.899174	12.9788	76.609951	12.8788
96	16	5	5	8	2	81.156884	78.672433	79.490794	12.9788	81.735999	12.8788
97	16	5	5	8	2	81.156884	78.672433	75.494448	12.9788	78.34311	12.8788
98	16	5	5	9	1	76.853433	74.335574	76.093391	12.1468	78.927538	11.8749
99	16	5	5	9	1	76.853433	74.335574	77.437119	12.1468	80.097596	11.8749
100	16	5	5	10	0	72.520561	70.045423	76.771045	11.6682	79.524076	11.3252
101	15	5	3	8	3	81.686372	79.554306	71.634897	13.5118	74.320137	13.9505
102	15	5	3	8	3	81.686372	79.554306	72.144609	13.5118	74.848827	13.9505
103	15	5	3	9	2	77.584506	75.239254	70.571411	11.9511	73.208716	11.8885
104	15	5	3	9	2	77.584506	75.239254	71.187989	11.9511	73.856644	11.8885
105	15	5	4	6	4	87.550702	86.112728	76.387599	17.2375	79.259702	19.8243
106	15	5	4	7	3	84.373584	82.17138	75.291763	13.7512	78.113117	14.1811
107	15	5	4	7	3	84.373584	82.17138	78.046581	13.7512	80.934876	14.1811
108	15	5	4	7	3	84.373584	82.17138	71.068671	13.7512	73.732826	14.1811
109	15	5	4	7	3	84.373584	82.17138	71.713112	13.7512	74.37126	14.1811
110	15	5	4	7	3	84.373584	82.17138	76.998941	13.7512	79.883806	14.1811
111	15	5	4	7	3	84.373584	82.17138	79.75619	13.7512	82.683518	14.1811
112	15	5	4	7	3	84.373584	82.17138	77.393981	13.7512	80.199487	14.1811
113	15	5	4	8	2	80.13678	77.714378	70.122008	12.1905	72.742682	12.1191
114	15	5	4	8	2	80.13678	77.714378	74.244531	12.1905	77.013667	12.1191
115	15	5	4	8	2	80.13678	77.714378	74.47976	12.1905	76.770789	12.1191
116	15	5	4	6	4	87.550702	86.112728	81.281646	17.2375	84.337049	19.8243
117	15	5	4	8	2	80.13678	77.714378	75.771588	12.1905	78.60119	12.1191
118	15	5	4	8	2	80.13678	77.714378	70.935004	12.1905	73.535266	12.1191
119	15	5	4	8	2	80.13678	77.714378	76.440468	12.1905	78.581021	12.1191
120	15	5	4	8	2	80.13678	77.714378	72.503668	12.1905	75.239474	12.1191
121	15	5	4	9	1	75.612278	73.153275	73.093038	11.3584	75.814555	11.1152
122	15	5	4	9	1	75.612278	73.153275	74.416121	11.3584	76.966528	11.1152
123	15	5	4	10	0	71.073887	68.65872	73.760138	10.8798	76.401768	10.5655
124	15	5	5	4	5	87.786984	91.023052	81.818182	29.8802	28.301887	70.9311
125	15	5	5	4	5	87.786984	91.023052	81.818182	29.8802	28.301887	70.9311
126	15	5	5	5	4	90.430831	88.945552	80.735794	17.4768	83.770757	20.0549
127	15	5	5	5	4	90.430831	88.945552	80.751645	17.4768	83.778209	20.0549
128	15	5	5	5	4	90.430831	88.945552	81.193052	17.4768	83.985086	20.0549
129	15	5	5	6	3	87.149197	84.874548	79.512649	13.9905	82.490995	14.4118
130	15	5	5	6	3	87.149197	84.874548	79.533689	13.9905	82.499243	14.4118
131	15	5	5	5	4	90.430831	88.945552	75.45485	17.4768	78.292008	20.0549
132	15	5	5	5	4	90.430831	88.945552	75.484607	17.4768	78.305997	20.0549
133	15	5	5	5	4	90.430831	88.945552	80.973107	17.4768	81.742228	20.0549
134	15	5	5	4	5	87.786984	91.023052	81.818182	29.8802	28.301887	70.9311
135	15	5	5	5	4	90.430831	88.945552	80.302819	17.4768	83.321568	20.0549
136	15	5	5	5	4	90.430831	88.945552	80.336523	17.4768	83.337411	20.0549
137	15	5	5	5	4	90.430831	88.945552	80.755171	17.4768	83.533601	20.0549
138	15	5	5	5	4	90.430831	88.945552	82.830308	17.4768	85.943696	20.0549
139	15	5	5	5	4	90.430831	88.945552	81.854085	17.4768	84.815152	20.0549
140	15	5	5	5	4	90.430831	88.945552	82.117937	17.4768	84.938654	20.0549
141	15	5	5	6	3	87.149197	84.874548	74.487699	13.9905	77.279132	14.4118

142	15	5	5	6	3	87.149197	84.874548	74.518121	13.9905	77.300032	14.4118
143	15	5	5	6	3	87.149197	84.874548	77.182939	13.9905	80.039894	14.4118
144	15	5	5	6	3	87.149197	84.874548	74.506162	13.9905	77.286371	14.4118
145	15	5	5	6	3	87.149197	84.874548	74.520188	13.9905	77.294926	14.4118
146	15	5	5	6	3	87.149197	84.874548	77.250405	13.9905	80.119058	14.4118
147	15	5	5	6	3	87.149197	84.874548	79.858716	13.9905	81.575156	14.4118
148	15	5	5	7	2	82.773016	80.270925	73.470112	12.4298	76.206038	12.3498
149	15	5	5	7	2	82.773016	80.270925	78.19733	12.4298	81.147961	12.3498
150	15	5	5	7	2	82.773016	80.270925	73.468576	12.4298	76.198922	12.3498
151	15	5	5	7	2	82.773016	80.270925	78.231369	12.4298	81.183496	12.3498
152	15	5	5	7	2	82.773016	80.270925	80.46222	12.4298	83.199637	12.3498
153	15	5	5	7	2	82.773016	80.270925	69.42406	12.4298	72.0189	12.3498
154	15	5	5	7	2	82.773016	80.270925	70.204086	12.4298	72.843326	12.3498
155	15	5	5	7	2	82.773016	80.270925	73.692855	12.4298	75.965074	12.3498
156	15	5	5	5	4	90.430831	88.945552	81.031504	17.4768	84.07754	20.0549
157	15	5	5	7	2	82.773016	80.270925	75.072133	12.4298	77.875886	12.3498
158	15	5	5	7	2	82.773016	80.270925	77.672656	12.4298	80.536459	12.3498
159	15	5	5	7	2	82.773016	80.270925	78.535437	12.4298	81.290744	12.3498
160	15	5	5	7	2	82.773016	80.270925	78.996747	12.4298	81.977757	12.3498
161	15	5	5	8	1	78.099673	75.559776	72.441949	11.5977	75.139547	11.3458
162	15	5	5	8	1	78.099673	75.559776	73.741356	11.5977	76.270946	11.3458
163	15	5	5	8	1	78.099673	75.559776	73.849235	11.5977	76.39299	11.3458
164	15	5	5	6	3	87.149197	84.874548	79.133922	13.9905	82.098186	14.4118
165	15	5	5	6	3	87.149197	84.874548	79.933756	13.9905	82.890483	14.4118
166	15	5	5	6	3	87.149197	84.874548	75.483548	13.9905	78.170098	14.4118
167	15	5	5	8	1	78.099673	75.559776	75.838372	11.5977	78.312115	11.3458
168	15	5	5	8	1	78.099673	75.559776	70.831559	11.5977	73.503429	11.3458
169	15	5	5	8	1	78.099673	75.559776	77.477185	11.5977	80.121501	11.3458
170	15	5	5	9	0	73.411983	70.917365	73.217913	11.1192	75.841157	10.7961
171	15	4	4	6	4	61.263755	60.25753	81.681263	17.0721	84.751628	-
172	14	5	3	7	3	83.469234	81.352171	71.921311	12.9628	74.615922	13.4214
173	14	5	3	7	3	83.469234	81.352171	67.798032	12.9628	70.339207	13.4214
174	14	5	3	7	3	83.469234	81.352171	73.591223	12.9628	76.347938	13.4214
175	14	5	3	8	2	78.986638	76.633736	66.87523	11.4021	69.374033	11.3595
176	14	5	3	8	2	78.986638	76.633736	70.897819	11.4021	73.541412	11.3595
177	14	5	3	8	2	78.986638	76.633736	72.390483	11.4021	75.093151	11.3595
178	14	5	3	8	2	78.986638	76.633736	67.667701	11.4021	70.146583	11.3595
179	14	5	3	9	1	74.218341	71.825083	69.7732	10.5701	72.37031	10.3555
180	14	5	4	5	4	89.905688	88.558491	72.260173	16.6885	74.976954	19.2952
181	14	5	4	5	4	89.905688	88.558491	77.031889	16.6885	79.927369	19.2952
182	14	5	4	5	4	89.905688	88.558491	79.525979	16.6885	82.514827	19.2952
183	14	5	4	6	3	86.414651	84.222883	71.310145	13.2021	73.982021	13.6521
184	14	5	4	6	3	86.414651	84.222883	71.34002	13.2021	74.002544	13.6521
185	14	5	4	6	3	86.414651	84.222883	73.959247	13.2021	76.695456	13.6521
186	14	5	4	7	2	81.773877	79.337946	70.28998	11.6414	72.915045	11.5901
187	14	5	4	7	2	81.773877	79.337946	73.054064	11.6414	75.799254	11.5901
188	14	5	4	7	2	81.773877	79.337946	70.31126	11.6414	72.928668	11.5901
189	14	5	4	7	2	81.773877	79.337946	74.957552	11.6414	77.785931	11.5901
190	14	5	4	7	2	81.773877	79.337946	66.346501	11.6414	68.825741	11.5901
191	14	5	4	7	2	81.773877	79.337946	67.109993	11.6414	69.632684	11.5901
192	14	5	4	7	2	81.773877	79.337946	70.52985	11.6414	72.69224	11.5901
193	14	5	4	5	4	89.905688	88.558491	77.750498	16.6885	80.672882	19.2952
194	14	5	4	7	2	81.773877	79.337946	71.884156	11.6414	74.568123	11.5901
195	14	5	4	7	2	81.773877	79.337946	74.44111	11.6414	77.184037	11.5901
196	14	5	4	7	2	81.773877	79.337946	75.710597	11.6414	78.567389	11.5901

197	14	5	4	8	1	76.837318	74.359608	69.302705	10.8094	71.882542	10.5861
198	14	5	4	8	1	76.837318	74.359608	70.473516	10.8094	72.875477	10.5861
199	14	5	4	8	1	76.837318	74.359608	70.577451	10.8094	72.992361	10.5861
200	14	5	4	6	3	86.414651	84.222883	75.879913	13.2021	78.721711	13.6521
201	14	5	4	6	3	86.414651	84.222883	76.668068	13.2021	79.502418	13.6521
202	14	5	4	8	1	76.837318	74.359608	72.637081	10.8094	74.996712	10.5861
203	14	5	4	8	1	76.837318	74.359608	67.724465	10.8094	70.279107	10.5861
204	14	5	4	8	1	76.837318	74.359608	74.248755	10.8094	76.775739	10.5861
205	14	5	4	9	0	71.906769	69.475554	70.063805	10.3308	72.570671	10.0365
206	14	5	5	3	5	90.165683	93.979806	76.363636	29.3312	26.415094	70.4021
207	14	5	5	3	5	90.165683	93.979806	76.363636	29.3312	26.415094	70.4021
208	14	5	5	4	4	93.078232	91.683495	81.7136	16.9278	84.784323	19.5258
209	14	5	5	4	4	93.078232	91.683495	81.150395	16.9278	83.961901	19.5258
210	14	5	5	4	4	93.078232	91.683495	81.150395	16.9278	83.961901	19.5258
211	14	5	5	4	4	93.078232	91.683495	81.150395	16.9278	83.961901	19.5258
212	14	5	5	4	4	93.078232	91.683495	81.398621	16.9278	84.457557	19.5258
213	14	5	5	4	4	93.078232	91.683495	81.150395	16.9278	83.961901	19.5258
214	14	5	5	5	3	89.464005	87.194895	75.370223	13.4415	78.193077	13.8827
215	14	5	5	5	3	89.464005	87.194895	76.147771	13.4415	78.963281	13.8827
216	14	5	5	5	3	89.464005	87.194895	75.390477	13.4415	78.201017	13.8827
217	14	5	5	5	3	89.464005	87.194895	80.541484	13.4415	83.437212	13.8827
218	14	5	5	5	3	89.464005	87.194895	78.94382	13.4415	80.566003	13.8827
219	14	5	5	6	2	84.659469	82.137581	74.231511	11.8807	77.002156	11.8207
220	14	5	5	6	2	84.659469	82.137581	79.228247	11.8807	82.165599	11.8207
221	14	5	5	5	3	89.464005	87.194895	70.439214	13.4415	73.078688	13.8827
222	14	5	5	5	3	89.464005	87.194895	70.452578	13.4415	73.087467	13.8827
223	14	5	5	5	3	89.464005	87.194895	79.379538	13.4415	82.311977	13.8827
224	14	5	5	5	3	89.464005	87.194895	70.47665	13.4415	73.093431	13.8827
225	14	5	5	5	3	89.464005	87.194895	76.585115	13.4415	79.466875	13.8827
226	14	5	5	3	5	90.165683	93.979806	76.363636	29.3312	26.415094	70.4021
227	14	5	5	4	4	93.078232	91.683495	81.398621	16.9278	84.383033	19.5258
228	14	5	5	4	4	93.078232	91.683495	77.938604	16.9278	80.755579	19.5258
229	14	5	5	4	4	93.078232	91.683495	78.194921	16.9278	80.875541	19.5258
230	14	5	5	5	3	89.464005	87.194895	74.965933	13.4415	77.773758	13.8827
231	14	5	5	5	3	89.464005	87.194895	74.98107	13.4415	77.783702	13.8827
232	14	5	5	5	3	89.464005	87.194895	75.735119	13.4415	78.535684	13.8827
233	14	5	5	5	3	89.464005	87.194895	76.763784	13.4415	79.469278	13.8827
234	14	5	5	5	3	89.464005	87.194895	78.00454	13.4415	80.120921	13.8827
235	14	5	5	5	3	89.464005	87.194895	77.325987	13.4415	80.221523	13.8827
236	14	5	5	5	3	89.464005	87.194895	78.366563	13.4415	81.262374	13.8827
237	14	5	5	5	3	89.464005	87.194895	76.468625	13.4415	79.176259	13.8827
238	14	5	5	5	3	89.464005	87.194895	77.642969	13.4415	80.563008	13.8827
239	14	5	5	6	2	84.659469	82.137581	69.539145	11.8807	72.136458	11.8207
240	14	5	5	6	2	84.659469	82.137581	69.552722	11.8807	72.146752	11.8207
241	14	5	5	6	2	84.659469	82.137581	72.243356	11.8807	74.958209	11.8207
242	14	5	5	6	2	84.659469	82.137581	72.292094	11.8807	75.011341	11.8207
243	14	5	5	6	2	84.659469	82.137581	69.558497	11.8807	72.142958	11.8207
244	14	5	5	6	2	84.659469	82.137581	72.335787	11.8807	75.059132	11.8207
245	14	5	5	6	2	84.659469	82.137581	76.381266	11.8807	78.701042	11.8207
246	14	5	5	7	1	79.548712	76.98357	68.572705	11.0487	71.125735	10.8167
247	14	5	5	7	1	79.548712	76.98357	71.334318	11.0487	74.025397	10.8167
248	14	5	5	7	1	79.548712	76.98357	76.401201	11.0487	79.005689	10.8167
249	14	5	5	7	1	79.548712	76.98357	68.572705	11.0487	71.125735	10.8167
250	14	5	5	7	1	79.548712	76.98357	69.924117	11.0487	72.329348	10.8167
251	14	5	5	5	3	89.464005	87.194895	75.646343	13.4415	78.479459	13.8827

252	14	5	5	5	3	89.464005	87.194895	76.753583	13.4415	79.556886	13.8827
253	14	5	5	5	3	89.464005	87.194895	74.701828	13.4415	77.345602	13.8827
254	14	5	5	7	1	79.548712	76.98357	74.971151	11.0487	77.758872	10.8167
255	14	5	5	7	1	79.548712	76.98357	75.861251	11.0487	78.712409	10.8167
256	14	5	5	7	1	79.548712	76.98357	75.112146	11.0487	77.912303	10.8167
257	14	5	5	8	0	74.444177	71.92717	69.422987	10.5701	71.908164	10.2671
258	14	5	5	6	2	84.659469	82.137581	75.784435	11.8807	78.61239	11.8207
259	14	5	5	6	2	84.659469	82.137581	74.825749	11.8807	77.637228	11.8207
260	14	5	5	6	2	84.659469	82.137581	70.486429	11.8807	72.966506	11.8207
261	14	5	5	8	0	74.444177	71.92717	72.972147	10.5701	75.57716	10.2671
262	14	4	4	5	4	63.314037	62.365304	77.458833	16.356	80.370298	-
263	14	4	4	6	3	60.855554	59.312051	76.253057	13.8224	79.108723	14.0664
264	14	4	4	6	3	60.855554	59.312051	77.032749	13.8224	79.897162	14.0664
265	13	5	3	6	3	85.574789	83.477177	67.793886	12.4138	70.333582	12.8924
266	13	5	3	7	2	80.636001	78.274898	66.80126	10.8531	69.295424	10.8304
267	13	5	3	7	2	80.636001	78.274898	69.492295	10.8531	72.103374	10.8304
268	13	5	3	7	2	80.636001	78.274898	62.970586	10.8531	65.323163	10.8304
269	13	5	3	7	2	80.636001	78.274898	63.711452	10.8531	66.106183	10.8304
270	13	5	3	7	2	80.636001	78.274898	68.352699	10.8531	70.904156	10.8304
271	13	5	3	7	2	80.636001	78.274898	70.84456	10.8531	73.453398	10.8304
272	13	5	3	7	2	80.636001	78.274898	68.703923	10.8531	71.213696	10.8304
273	13	5	3	8	1	75.406087	72.998467	65.841281	10.021	68.291486	9.8264
274	13	5	3	8	1	75.406087	72.998467	66.979792	10.021	69.256938	9.8264
275	13	5	3	6	3	85.574789	83.477177	72.248609	12.4138	74.953888	12.8924
276	13	5	3	8	1	75.406087	72.998467	69.086014	10.021	71.321528	9.8264
277	13	5	3	8	1	75.406087	72.998467	64.307987	10.021	66.733734	9.8264
278	13	5	3	9	0	70.208293	67.848311	66.581282	9.5425	68.960503	9.2768
279	13	5	4	5	3	88.831158	86.653726	67.11309	12.6531	69.627467	13.123
280	13	5	4	5	3	88.831158	86.653726	67.126155	12.6531	69.63605	13.123
281	13	5	4	5	3	88.831158	86.653726	75.882349	12.6531	78.68382	13.123
282	13	5	4	4	4	92.701801	91.466967	77.870865	16.1394	80.796861	18.7662
283	13	5	4	5	3	88.831158	86.653726	71.545929	12.6531	74.2251	13.123
284	13	5	4	5	3	88.831158	86.653726	71.560777	12.6531	74.234854	13.123
285	13	5	4	5	3	88.831158	86.653726	72.300642	12.6531	74.972669	13.123
286	13	5	4	5	3	88.831158	86.653726	73.862944	12.6531	76.628189	13.123
287	13	5	4	5	3	88.831158	86.653726	74.885833	12.6531	77.651318	13.123
288	13	5	4	6	2	83.704435	81.253486	66.233458	11.0924	68.706646	11.061
289	13	5	4	6	2	83.704435	81.253486	66.246723	11.0924	68.716702	11.061
290	13	5	4	6	2	83.704435	81.253486	68.878035	11.0924	71.466133	11.061
291	13	5	4	6	2	83.704435	81.253486	68.925746	11.0924	71.518145	11.061
292	13	5	4	6	2	83.704435	81.253486	72.778499	11.0924	74.952965	11.061
293	13	5	4	7	1	78.275508	75.776271	65.289613	10.2603	67.719575	10.057
294	13	5	4	7	1	78.275508	75.776271	67.988452	10.2603	70.553289	10.057
295	13	5	4	7	1	78.275508	75.776271	69.665397	10.2603	72.293142	10.057
296	13	5	4	7	1	78.275508	75.776271	71.682564	10.2603	74.37648	10.057
297	13	5	4	7	1	78.275508	75.776271	65.289613	10.2603	67.719575	10.057
298	13	5	4	5	3	88.831158	86.653726	72.213514	12.6531	74.91749	13.123
299	13	5	4	5	3	88.831158	86.653726	73.300605	12.6531	75.975267	13.123
300	13	5	4	7	1	78.275508	75.776271	71.551048	10.2603	74.210499	10.057
301	13	5	4	7	1	78.275508	75.776271	70.365905	10.2603	73.020062	10.057
302	13	5	4	7	1	78.275508	75.776271	72.424442	10.2603	75.146122	10.057
303	13	5	4	8	0	72.879923	70.430137	66.11998	9.7818	68.483632	9.5074
304	13	5	4	6	2	83.704435	81.253486	72.349045	11.0924	75.047952	11.061
305	13	5	4	6	2	83.704435	81.253486	71.40843	11.0924	74.091186	11.061
306	13	5	4	8	0	72.879923	70.430137	69.59166	9.7818	72.072169	9.5074

307	13	5	5	2	5	92.990536	97.51099	70.909091	28.7822	24.528302	69.873
308	13	5	5	3	4	96.229375	94.947551	82.108584	16.3787	85.193093	18.9968
309	13	5	5	3	4	96.229375	94.947551	75.353938	16.3787	77.964622	18.9968
310	13	5	5	3	4	96.229375	94.947551	79.795606	16.3787	82.793607	18.9968
311	13	5	5	3	4	96.229375	94.947551	75.353938	16.3787	77.964622	18.9968
312	13	5	5	3	4	96.229375	94.947551	75.353938	16.3787	77.964622	18.9968
313	13	5	5	3	4	96.229375	94.947551	75.353938	16.3787	77.964622	18.9968
314	13	5	5	4	3	92.211442	89.951152	75.895276	12.8924	78.735983	13.3536
315	13	5	5	4	3	92.211442	89.951152	75.911984	12.8924	78.746959	13.3536
316	13	5	5	4	3	92.211442	89.951152	78.371109	12.8924	81.262364	13.3536
317	13	5	5	4	3	92.211442	89.951152	75.474465	12.8924	77.986611	13.3536
318	13	5	5	4	3	92.211442	89.951152	75.474465	12.8924	77.986611	13.3536
319	13	5	5	4	3	92.211442	89.951152	75.474465	12.8924	77.986611	13.3536
320	13	5	5	4	3	92.211442	89.951152	78.033706	12.8924	80.95378	13.3536
321	13	5	5	4	3	92.211442	89.951152	75.474465	12.8924	77.986611	13.3536
322	13	5	5	4	3	92.211442	89.951152	75.474465	12.8924	77.986611	13.3536
323	13	5	5	6	1	81.254119	78.659779	73.571608	10.4997	76.304983	10.2876
324	13	5	5	6	1	81.254119	78.659779	75.252047	10.4997	77.800761	10.2876
325	13	5	5	5	2	86.889632	84.345418	65.424325	11.3317	67.867616	11.2916
326	13	5	5	5	2	86.889632	84.345418	73.941843	11.3317	76.71934	11.2916
327	13	5	5	5	2	86.889632	84.345418	65.44418	11.3317	67.880327	11.2916
328	13	5	5	5	2	86.889632	84.345418	73.996831	11.3317	76.779283	11.2916
329	13	5	5	5	2	86.889632	84.345418	71.596155	11.3317	74.289642	11.2916
330	13	5	5	3	4	96.229375	94.947551	77.211485	16.3787	78.5135	18.9968
331	13	5	5	3	4	96.229375	94.947551	72.7502	16.3787	75.243683	18.9968
332	13	5	5	4	3	92.211442	89.951152	78.033706	12.8924	80.95378	13.3536
333	13	5	5	4	3	92.211442	89.951152	76.042389	12.8924	78.783815	13.3536
334	13	5	5	4	3	92.211442	89.951152	72.440642	12.8924	75.002254	13.3536
335	13	5	5	4	3	92.211442	89.951152	72.449909	12.8924	75.00645	13.3536
336	13	5	5	4	3	92.211442	89.951152	72.458736	12.8924	75.009525	13.3536
337	13	5	5	4	3	92.211442	89.951152	73.649583	12.8924	76.421747	13.3536
338	13	5	5	5	2	86.889632	84.345418	69.629894	11.3317	72.228496	11.2916
339	13	5	5	5	2	86.889632	84.345418	73.677563	11.3317	76.42087	11.2916
340	13	5	5	5	2	86.889632	84.345418	71.301844	11.3317	73.794398	11.2916
341	13	5	5	5	2	86.889632	84.345418	72.870281	11.3317	75.612476	11.2916
342	13	5	5	5	2	86.889632	84.345418	72.897627	11.3317	75.639924	11.2916
343	13	5	5	5	2	86.889632	84.345418	71.822568	11.3317	74.50206	11.2916
344	13	5	5	5	2	86.889632	84.345418	76.365983	11.3317	79.234106	11.2916
345	13	5	5	5	2	86.889632	84.345418	71.045	11.3317	73.529285	11.2916
346	13	5	5	5	2	86.889632	84.345418	72.62918	11.3317	75.361409	11.2916
347	13	5	5	6	1	81.254119	78.659779	64.591977	10.4997	66.996331	10.2876
348	13	5	5	6	1	81.254119	78.659779	67.232282	10.4997	69.768601	10.2876
349	13	5	5	6	1	81.254119	78.659779	71.84964	10.4997	74.272895	10.2876
350	13	5	5	6	1	81.254119	78.659779	71.688854	10.4997	74.360482	10.2876
351	13	5	5	7	0	75.653216	73.110209	71.511485	10.0211	74.056305	9.738
352	13	5	5	7	0	75.653216	73.110209	65.404582	10.0211	67.744065	9.738
353	13	5	5	5	2	86.889632	84.345418	75.430727	11.3317	78.243206	11.2916
354	13	5	5	5	2	86.889632	84.345418	71.548338	11.3317	74.22502	11.2916
355	13	5	5	5	2	86.889632	84.345418	69.394143	11.3317	71.825153	11.2916
356	13	5	5	7	0	75.653216	73.110209	76.523431	10.0211	79.235103	9.738
357	13	5	5	6	1	81.254119	78.659779	70.394913	10.4997	73.012037	10.2876
358	13	5	5	6	1	81.254119	78.659779	74.584805	10.4997	77.308294	10.2876
359	13	4	3	6	3	59.675888	58.213111	72.61296	12.941	75.331775	13.2171
360	13	4	4	4	4	65.765155	64.88913	78.181344	15.6398	81.118956	17.591
361	13	4	4	4	4	65.765155	64.88913	77.870865	15.6398	80.796861	17.591

362	13	4	4	5	3	63.019216	61.474487	71.942559	13.1063	74.636467	13.3763
363	13	4	4	5	3	63.019216	61.474487	72.705707	13.1063	75.392387	13.3763
364	13	4	4	6	2	59.382181	57.643411	70.825727	12.0318	73.468452	11.9015
365	12	5	2	7	2	79.328475	77.052666	59.313745	10.0647	61.529247	10.0707
366	12	5	3	5	3	88.098493	86.026606	63.446711	11.8647	65.823312	12.3633
367	12	5	3	5	3	88.098493	86.026606	67.74545	11.8647	70.2818	12.3633
368	12	5	3	5	3	88.098493	86.026606	69.997843	11.8647	72.617832	12.3633
369	12	5	3	6	2	82.603837	80.234062	62.595318	10.304	64.932067	10.3013
370	12	5	3	6	2	82.603837	80.234062	62.608153	10.304	64.941797	10.3013
371	12	5	3	6	2	82.603837	80.234062	65.156619	10.304	67.604625	10.3013
372	12	5	3	7	1	76.815836	74.391665	61.682375	9.472	63.977332	9.2973
373	12	5	3	7	1	76.815836	74.391665	64.294504	9.472	66.719971	9.2973
374	12	5	3	7	1	76.815836	74.391665	65.92013	9.472	68.406579	9.2973
375	12	5	3	7	1	76.815836	74.391665	61.682375	9.472	63.977332	9.2973
376	12	5	3	7	1	76.815836	74.391665	62.765147	9.472	64.89546	9.2973
377	12	5	3	5	3	88.098493	86.026606	68.39403	11.8647	70.954469	12.3633
378	12	5	3	7	1	76.815836	74.391665	67.750422	9.472	70.267618	9.2973
379	12	5	3	7	1	76.815836	74.391665	66.599782	9.472	69.111856	9.2973
380	12	5	3	8	0	71.096454	68.722934	62.485523	8.9934	64.716302	8.7477
381	12	5	3	6	2	82.603837	80.234062	68.525741	10.304	71.081252	10.3013
382	12	5	3	6	2	82.603837	80.234062	67.611904	10.304	70.151737	10.3013
383	12	5	3	8	0	71.096454	68.722934	65.848609	8.9934	68.192255	8.7477
384	12	5	4	5	2	86.014433	83.546814	61.966565	10.5434	64.280093	10.5319
385	12	5	4	5	2	86.014433	83.546814	70.272498	10.5434	72.911804	10.5319
386	12	5	4	5	2	86.014433	83.546814	61.98586	10.5434	64.292446	10.5319
387	12	5	4	5	2	86.014433	83.546814	70.326303	10.5434	72.970458	10.5319
388	12	5	4	3	4	96.074031	94.981136	73.475969	15.5904	76.236564	18.2371
389	12	5	4	4	3	91.735957	89.578524	74.282871	12.1041	77.061854	12.5939
390	12	5	4	4	3	91.735957	89.578524	72.32957	12.1041	74.933442	12.5939
391	12	5	4	5	2	86.014433	83.546814	66.060602	10.5434	68.525234	10.5319
392	12	5	4	5	2	86.014433	83.546814	70.013933	10.5434	72.619793	10.5319
393	12	5	4	5	2	86.014433	83.546814	70.022504	10.5434	72.623387	10.5319
394	12	5	4	5	2	86.014433	83.546814	70.949027	10.5434	73.037804	10.5319
395	12	5	4	5	2	86.014433	83.546814	68.200584	10.5434	70.744112	10.5319
396	12	5	4	5	2	86.014433	83.546814	72.646774	10.5434	75.374817	10.5319
397	12	5	4	6	1	79.987455	77.463192	61.157916	9.7113	63.433636	9.528
398	12	5	4	6	1	79.987455	77.463192	63.724891	9.7113	66.128876	9.528
399	12	5	4	6	1	79.987455	77.463192	68.227029	9.7113	70.520283	9.528
400	12	5	4	7	0	74.031927	71.560407	67.896749	9.2327	70.308773	8.9783
401	12	5	4	7	0	74.031927	71.560407	61.947377	9.2327	64.160029	8.9783
402	12	5	4	5	2	86.014433	83.546814	71.73021	10.5434	74.403739	10.5319
403	12	5	4	5	2	86.014433	83.546814	67.932739	10.5434	70.473527	10.5319
404	12	5	4	7	0	74.031927	71.560407	72.801143	9.2327	75.375795	8.9783
405	12	5	4	6	1	79.987455	77.463192	66.806811	9.7113	69.28949	9.528
406	12	5	4	6	1	79.987455	77.463192	70.901786	9.7113	73.488209	9.528
407	12	5	5	1	5	96.398247	101.798744	65.454545	28.2331	22.641509	69.3439
408	12	5	5	2	4	100.040793	98.902774	80.180857	15.8297	82.044986	18.4677
409	12	5	5	2	4	100.040793	98.902774	69.557481	15.8297	71.967343	18.4677
410	12	5	5	2	4	100.040793	98.902774	69.557481	15.8297	71.967343	18.4677
411	12	5	5	3	3	95.523606	93.277096	75.812387	12.3434	78.648084	12.8245
412	12	5	5	3	3	95.523606	93.277096	69.668737	12.3434	71.987641	12.8245
413	12	5	5	3	3	95.523606	93.277096	75.380878	12.3434	78.200576	12.8245
414	12	5	5	3	3	95.523606	93.277096	73.921861	12.3434	76.622962	12.8245
415	12	5	5	3	3	95.523606	93.277096	69.668737	12.3434	71.987641	12.8245
416	12	5	5	3	3	95.523606	93.277096	69.668737	12.3434	71.987641	12.8245

417	12	5	5	3	3	95.523606	93.277096	69.668737	12.3434	71.987641	12.8245
418	12	5	5	3	3	95.523606	93.277096	69.668737	12.3434	71.987641	12.8245
419	12	5	5	3	3	95.523606	93.277096	69.668737	12.3434	71.987641	12.8245
420	12	5	5	3	3	95.523606	93.277096	69.668737	12.3434	71.987641	12.8245
421	12	5	5	4	2	89.565849	86.996346	70.077665	10.7827	72.690348	10.7626
422	12	5	5	4	2	89.565849	86.996346	72.584993	10.7827	75.310727	10.7626
423	12	5	5	4	2	89.565849	86.996346	69.721965	10.7827	71.995481	10.7626
424	12	5	5	4	2	89.565849	86.996346	69.721965	10.7827	71.995481	10.7626
425	12	5	5	4	2	89.565849	86.996346	69.721965	10.7827	71.995481	10.7626
426	12	5	5	4	2	89.565849	86.996346	72.052771	10.7827	74.738172	10.7626
427	12	5	5	4	2	89.565849	86.996346	69.721965	10.7827	71.995481	10.7626
428	12	5	5	5	1	83.290025	80.661539	69.04523	9.9506	71.609766	9.7586
429	12	5	5	5	1	83.290025	80.661539	70.404774	9.9506	72.761997	9.7586
430	12	5	5	5	1	83.290025	80.661539	69.753173	9.9506	71.999639	9.7586
431	12	5	5	1	5	96.398247	101.798744	65.454545	28.2331	22.641509	69.3439
432	12	5	5	6	0	77.088602	74.515036	70.053127	9.4721	72.536848	9.2089
433	12	5	5	5	1	83.290025	80.661539	60.410555	9.9506	62.658853	9.7586
434	12	5	5	5	1	83.290025	80.661539	68.421333	9.9506	71.002431	9.7586
435	12	5	5	5	1	83.290025	80.661539	66.314252	9.9506	68.785519	9.7586
436	12	5	5	3	3	95.523606	93.277096	76.440669	12.3434	79.299656	12.8245
437	12	5	5	3	3	95.523606	93.277096	71.71332	12.3434	74.296066	12.8245
438	12	5	5	4	2	89.565849	86.996346	72.052771	10.7827	74.738172	10.7626
439	12	5	5	4	2	89.565849	86.996346	72.475881	10.7827	75.110984	10.7626
440	12	5	5	4	2	89.565849	86.996346	71.730491	10.7827	74.433111	10.7626
441	12	5	5	4	2	89.565849	86.996346	70.259519	10.7827	72.751976	10.7626
442	12	5	5	4	2	89.565849	86.996346	68.427899	10.7827	71.001915	10.7626
443	12	5	5	5	1	83.290025	80.661539	68.018835	9.9506	70.545847	9.7586
444	12	5	5	5	1	83.290025	80.661539	69.993401	9.9506	72.338585	9.7586
445	12	5	5	5	1	83.290025	80.661539	67.523898	9.9506	70.039665	9.7586
446	12	5	5	5	1	83.290025	80.661539	66.320497	9.9506	68.78538	9.7586
447	12	5	5	5	1	83.290025	80.661539	72.476651	9.9506	75.118502	9.7586
448	12	5	5	5	1	83.290025	80.661539	67.274379	9.9506	69.780969	9.7586
449	12	5	5	6	0	77.088602	74.515036	67.080516	9.4721	69.465323	9.2089
450	12	5	5	5	1	83.290025	80.661539	72.583328	9.9506	74.878397	9.7586
451	12	5	5	6	0	77.088602	74.515036	72.389335	9.4721	74.950391	9.2089
452	12	4	3	5	3	61.876769	60.42156	68.130751	12.2249	70.681412	12.527
453	12	4	3	6	2	58.017547	56.353115	67.046101	11.1504	69.547074	11.0521
454	12	4	3	6	2	58.017547	56.353115	67.742888	11.1504	70.279207	11.0521
455	12	4	4	3	4	68.74498	67.962968	78.289684	14.9237	81.230294	16.9009
456	12	4	4	3	4	68.74498	67.962968	76.013735	14.9237	78.869246	16.9009
457	12	4	4	4	3	65.640907	64.097174	72.185389	12.3901	74.886566	12.6862
458	12	4	4	4	3	65.640907	64.097174	72.201764	12.3901	74.897322	12.6862
459	12	4	4	4	3	65.640907	64.097174	74.614142	12.3901	77.364819	12.6862
460	12	4	4	4	3	65.640907	64.097174	74.282871	12.3901	77.061854	12.6862
461	12	4	4	5	2	61.546918	59.781234	66.426924	11.3156	68.905066	11.2114
462	12	4	4	5	2	61.546918	59.781234	71.101903	11.3156	73.747687	11.2114
463	12	4	4	5	2	61.546918	59.781234	70.977707	11.3156	73.469467	11.2114
464	12	4	4	6	1	57.234364	55.428149	69.910284	10.7932	72.506432	10.546
465	11	5	2	6	2	81.321772	79.045766	58.642891	9.5157	60.831569	9.5416
466	11	5	2	6	2	81.321772	79.045766	60.057138	9.5157	62.298	9.5416
467	11	5	2	7	1	75.125823	72.787894	57.769035	8.6836	59.917729	8.5376
468	11	5	2	7	1	75.125823	72.787894	55.142436	8.6836	57.222688	8.5376
469	11	5	3	5	2	84.991466	82.612754	58.174888	9.755	60.346291	9.7723
470	11	5	3	5	2	84.991466	82.612754	66.186904	9.755	68.672439	9.7723
471	11	5	3	4	3	91.177179	89.140136	70.074027	11.3157	72.694892	11.8342

472	11	5	3	5	2	84.991466	82.612754	62.117557	9.755	64.434395	9.7723
473	11	5	3	5	2	84.991466	82.612754	65.936703	9.755	68.38988	9.7723
474	11	5	3	5	2	84.991466	82.612754	62.97123	9.755	65.336565	9.7723
475	11	5	3	5	2	84.991466	82.612754	64.183438	9.755	66.576393	9.7723
476	11	5	3	5	2	84.991466	82.612754	68.486738	9.755	71.058205	9.7723
477	11	5	3	6	1	78.515922	76.072491	57.397625	8.923	59.532704	8.7683
478	11	5	3	6	1	78.515922	76.072491	59.866661	8.923	62.125079	8.7683
479	11	5	3	6	1	78.515922	76.072491	64.208989	8.923	66.360157	8.7683
480	11	5	3	7	0	72.160595	69.771125	63.889913	8.4444	66.155855	8.2186
481	11	5	3	7	0	72.160595	69.771125	58.156439	8.4444	60.230857	8.2186
482	11	5	3	5	2	84.991466	82.612754	67.598405	9.755	70.117053	9.7723
483	11	5	3	5	2	84.991466	82.612754	63.924678	9.755	66.314992	9.7723
484	11	5	3	7	0	72.160595	69.771125	68.636415	8.4444	71.059153	8.2186
485	11	5	3	6	1	78.515922	76.072491	62.837535	8.923	65.171767	8.7683
486	11	5	3	6	1	78.515922	76.072491	66.796045	8.923	69.230369	8.7683
487	11	5	4	5	1	82.059	79.505309	56.820896	9.1623	58.934829	8.9989
488	11	5	4	5	1	82.059	79.505309	64.579055	9.1623	67.015185	8.9989
489	11	5	4	5	1	82.059	79.505309	65.908474	9.1623	68.384509	8.9989
490	11	5	4	3	3	95.291604	93.162638	72.399636	11.555	75.106678	12.0649
491	11	5	4	3	3	95.291604	93.162638	67.782866	11.555	70.220433	12.0649
492	11	5	4	4	2	88.826757	86.340704	68.113746	9.9943	70.651347	10.0029
493	11	5	4	4	2	88.826757	86.340704	69.797566	9.9943	72.35741	10.0029
494	11	5	4	4	2	88.826757	86.340704	68.526308	9.9943	71.014845	10.0029
495	11	5	4	4	2	88.826757	86.340704	67.799601	9.9943	70.353992	10.0029
496	11	5	4	4	2	88.826757	86.340704	66.366877	9.9943	68.716681	10.0029
497	11	5	4	4	2	88.826757	86.340704	68.194154	9.9943	70.7673	10.0029
498	11	5	4	5	1	82.059	79.505309	64.187965	9.1623	66.571549	8.9989
499	11	5	4	5	1	82.059	79.505309	66.107874	9.1623	68.314418	8.9989
500	11	5	4	5	1	82.059	79.505309	66.224306	9.1623	68.445182	8.9989
501	11	5	4	5	1	82.059	79.505309	62.539263	9.1623	64.86259	8.9989
502	11	5	4	5	1	82.059	79.505309	68.527058	9.1623	71.022177	8.9989
503	11	5	4	5	1	82.059	79.505309	64.403198	9.1623	66.82293	8.9989
504	11	5	4	6	0	75.416886	72.919589	63.276769	8.6837	65.522341	8.4492
505	11	5	4	5	1	82.059	79.505309	68.631101	9.1623	70.788056	8.9989
506	11	5	4	6	0	75.416886	72.919589	68.441907	8.6837	70.858251	8.4492
507	11	5	5	0	5	100.586897	107.10981	60	27.6841	20.754717	68.8149
508	11	5	5	1	4	104.740288	103.790082	73.499119	15.2807	75.207904	17.9386
509	11	5	5	1	4	104.740288	103.790082	63.761024	15.2807	65.970065	17.9386
510	11	5	5	2	3	99.591695	97.366659	74.095258	11.7943	76.8651	12.2955
511	11	5	5	2	3	99.591695	97.366659	74.011349	11.7943	76.660856	12.2955
512	11	5	5	2	3	99.591695	97.366659	74.011349	11.7943	76.660856	12.2955
513	11	5	5	2	3	99.591695	97.366659	63.863009	11.7943	65.98867	12.2955
514	11	5	5	2	3	99.591695	97.366659	63.863009	11.7943	65.98867	12.2955
515	11	5	5	3	2	92.835118	90.236881	69.516681	10.2336	72.105862	10.2335
516	11	5	5	3	2	92.835118	90.236881	74.258361	10.2336	76.816966	10.2335
517	11	5	5	3	2	92.835118	90.236881	63.911801	10.2336	65.995857	10.2335
518	11	5	5	3	2	92.835118	90.236881	69.120881	10.2336	71.695513	10.2335
519	11	5	5	3	2	92.835118	90.236881	70.179537	10.2336	72.814236	10.2335
520	11	5	5	3	2	92.835118	90.236881	63.911801	10.2336	65.995857	10.2335
521	11	5	5	3	2	92.835118	90.236881	63.911801	10.2336	65.995857	10.2335
522	11	5	5	3	2	92.835118	90.236881	63.911801	10.2336	65.995857	10.2335
523	11	5	5	4	1	85.761962	83.093034	64.261152	9.4016	66.647411	9.2295
524	11	5	5	4	1	85.761962	83.093034	66.709733	9.4016	69.226211	9.2295
525	11	5	5	4	1	85.761962	83.093034	68.129288	9.4016	70.688368	9.2295
526	11	5	5	4	1	85.761962	83.093034	63.940408	9.4016	65.999669	9.2295

527	11	5	5	4	1	85.761962	83.093034	71.672787	9.4016	74.329293	9.2295
528	11	5	5	4	1	85.761962	83.093034	69.476312	9.4016	72.096723	9.2295
529	11	5	5	4	1	85.761962	83.093034	63.940408	9.4016	65.999669	9.2295
530	11	5	5	5	0	78.820119	76.21013	65.321021	8.923	67.634406	8.6799
531	11	5	5	1	4	104.740288	103.790082	61.700953	15.2807	64.019996	17.9386
532	11	5	5	1	4	104.740288	103.790082	62.012272	15.2807	64.165967	17.9386
533	11	5	5	5	0	78.820119	76.21013	68.359538	8.923	70.773173	8.6799
534	11	5	5	3	2	92.835118	90.236881	71.527143	10.2336	74.190191	10.2335
535	11	5	5	3	2	92.835118	90.236881	70.315292	10.2336	72.89357	10.2335
536	11	5	5	3	2	92.835118	90.236881	71.181849	10.2336	73.85398	10.2335
537	11	5	5	4	1	85.761962	83.093034	70.46861	9.4016	73.081279	9.2295
538	11	5	5	4	1	85.761962	83.093034	66.43693	9.4016	68.858627	9.2295
539	11	5	5	4	1	85.761962	83.093034	62.947194	9.4016	65.291934	9.2295
540	11	5	5	5	0	78.820119	76.21013	64.934747	8.923	67.235341	8.6799
541	11	5	5	5	0	78.820119	76.21013	73.874204	8.923	76.468118	8.6799
542	11	5	5	5	0	78.820119	76.21013	69.012164	8.923	71.447246	8.6799
543	11	4	3	4	3	64.58269	63.13981	68.039484	11.5087	70.584915	11.8369
544	11	4	3	4	3	64.58269	63.13981	70.074027	11.5087	72.694892	11.8369
545	11	4	3	5	2	60.201221	58.51633	62.470949	10.4342	64.800812	10.362
546	11	4	3	5	2	60.201221	58.51633	66.989819	10.4342	69.48161	10.362
547	11	4	3	5	2	60.201221	58.51633	63.334431	10.4342	65.713345	10.362
548	11	4	3	6	1	55.614458	53.883726	65.836422	9.9118	68.280205	9.6966
549	11	4	4	2	4	72.441137	71.783949	76.065806	14.2075	78.922088	16.2108
550	11	4	4	3	3	68.880235	67.341341	71.784957	11.674	74.469226	11.9961
551	11	4	4	3	3	68.880235	67.341341	72.666192	11.674	75.360204	11.9961
552	11	4	4	3	3	68.880235	67.341341	71.362985	11.674	74.031619	11.9961
553	11	4	4	3	3	68.880235	67.341341	69.937386	11.674	72.490213	11.9961
554	11	4	4	3	3	68.880235	67.341341	70.545354	11.674	73.144106	11.9961
555	11	4	4	4	2	64.207208	62.410199	66.189879	10.5995	68.656704	10.5213
556	11	4	4	4	2	64.207208	62.410199	68.632724	10.5995	71.209645	10.5213
557	11	4	4	4	2	64.207208	62.410199	68.688716	10.5995	71.270682	10.5213
558	11	4	4	4	2	64.207208	62.410199	68.113746	10.5995	70.651347	10.5213
559	11	4	4	4	2	64.207208	62.410199	68.194154	10.5995	70.7673	10.5213
560	11	4	4	5	1	59.315228	57.469327	65.185538	10.0771	67.605558	9.8559
561	11	4	4	5	1	59.315228	57.469327	66.508273	10.0771	68.726435	9.8559
562	11	4	4	6	0	54.514066	52.708929	66.165998	9.8225	68.507327	9.5381
563	10	5	2	5	2	83.779951	81.505655	54.067669	8.9666	56.085273	9.0126
564	10	5	2	5	2	83.779951	81.505655	57.819517	8.9666	59.975444	9.0126
565	10	5	2	5	2	83.779951	81.505655	59.789958	8.9666	62.018442	9.0126
566	10	5	2	6	1	76.785773	74.436568	53.329366	8.1346	55.312482	8.0086
567	10	5	2	6	1	76.785773	74.436568	55.67617	8.1346	57.776491	8.0086
568	10	5	2	5	2	83.779951	81.505655	59.602045	8.9666	61.823612	9.0126
569	10	5	2	6	1	76.785773	74.436568	58.79255	8.1346	60.975513	8.0086
570	10	5	2	6	1	76.785773	74.436568	54.889298	8.1346	56.896496	8.0086
571	10	5	2	7	0	69.977331	67.682943	54.050141	7.656	55.975599	7.4589
572	10	5	3	5	1	80.605763	78.139688	52.903628	8.3739	54.871144	8.2392
573	10	5	3	5	1	80.605763	78.139688	60.325977	8.3739	62.601646	8.2392
574	10	5	3	3	3	95.013946	93.025474	67.85795	10.7667	70.39445	11.3052
575	10	5	3	4	2	87.947893	85.560454	63.72399	9.206	66.097158	9.2432
576	10	5	3	4	2	87.947893	85.560454	65.346313	9.206	67.740839	9.2432
577	10	5	3	4	2	87.947893	85.560454	64.121268	9.206	66.447171	9.2432
578	10	5	3	5	1	80.605763	78.139688	59.950639	8.3739	62.175886	8.2392
579	10	5	3	5	1	80.605763	78.139688	61.794421	8.3739	63.849423	8.2392
580	10	5	3	5	1	80.605763	78.139688	58.369719	8.3739	60.537236	8.2392
581	10	5	3	5	1	80.605763	78.139688	64.121991	8.3739	66.454232	8.2392

582	10	5	3	6	0	73.45861	71.05008	59.07663	7.8953	61.169571	7.6896
583	10	5	3	5	1	80.605763	78.139688	64.222201	8.3739	66.228783	8.2392
584	10	5	3	6	0	73.45861	71.05008	64.039982	7.8953	66.296373	7.6896
585	10	5	4	5	0	77.113079	74.584728	64.15855	8.1347	66.418822	7.9202
586	10	5	4	3	2	92.323185	89.816974	67.232432	9.4453	69.734431	9.4738
587	10	5	4	3	2	92.323185	89.816974	66.055346	9.4453	68.475071	9.4738
588	10	5	4	3	2	92.323185	89.816974	66.896906	9.4453	69.407738	9.4738
589	10	5	4	4	1	84.615794	82.027035	66.204191	8.6132	68.657294	8.4698
590	10	5	4	4	1	84.615794	82.027035	62.297326	8.6132	64.565615	8.4698
591	10	5	4	4	1	84.615794	82.027035	62.379703	8.6132	64.722739	8.4698
592	10	5	4	5	0	77.113079	74.584728	60.845461	8.1347	62.996872	7.9202
593	10	5	4	5	0	77.113079	74.584728	69.516016	8.1347	71.950518	7.9202
594	10	5	4	5	0	77.113079	74.584728	64.791111	8.1347	67.072071	7.9202
595	10	5	5	0	4	110.671993	109.974681	66.817381	14.7316	68.370822	17.4096
596	10	5	5	1	3	104.702735	102.511494	74.937906	11.2453	77.736268	11.7664
597	10	5	5	1	3	104.702735	102.511494	67.283045	11.2453	69.691688	11.7664
598	10	5	5	1	3	104.702735	102.511494	58.057281	11.2453	59.9897	11.7664
599	10	5	5	2	2	96.916141	94.285249	69.432511	9.6846	72.015199	9.7044
600	10	5	5	2	2	96.916141	94.285249	68.48995	9.6846	71.060243	9.7044
601	10	5	5	2	2	96.916141	94.285249	67.507601	9.6846	69.833606	9.7044
602	10	5	5	2	2	96.916141	94.285249	67.507601	9.6846	69.833606	9.7044
603	10	5	5	3	1	88.825318	86.107771	68.336423	8.8526	70.867031	8.7004
604	10	5	5	3	1	88.825318	86.107771	58.127644	8.8526	59.999699	8.7004
605	10	5	5	3	1	88.825318	86.107771	67.246323	8.8526	69.737318	8.7004
606	10	5	5	3	1	88.825318	86.107771	67.642099	8.8526	70.193237	8.7004
607	10	5	5	3	1	88.825318	86.107771	58.127644	8.8526	59.999699	8.7004
608	10	5	5	4	0	80.949353	78.295219	66.478981	8.374	68.81499	8.1508
609	10	5	5	4	0	80.949353	78.295219	72.248407	8.374	74.77091	8.1508
610	10	5	5	1	3	104.702735	102.511494	62.285443	11.2453	64.615468	11.7664
611	10	5	5	1	3	104.702735	102.511494	57.286058	11.2453	59.338771	11.7664
612	10	5	5	1	3	104.702735	102.511494	56.462486	11.2453	58.348699	11.7664
613	10	5	5	3	1	88.825318	86.107771	65.05093	8.8526	67.462073	8.7004
614	10	5	5	3	1	88.825318	86.107771	57.338281	8.8526	59.474038	8.7004
615	10	5	5	4	0	80.949353	78.295219	71.72927	8.374	74.235098	8.1508
616	10	4	2	5	2	58.625166	57.033723	58.156362	9.5528	60.324696	9.5126
617	10	4	3	3	3	67.986445	66.563611	66.856656	10.7926	69.35608	11.1468
618	10	4	3	4	2	62.93039	61.222077	61.873242	9.7181	64.178374	9.6719
619	10	4	3	4	2	62.93039	61.222077	64.223765	9.7181	66.634788	9.6719
620	10	4	3	4	2	62.93039	61.222077	63.72399	9.7181	66.097158	9.6719
621	10	4	3	5	1	57.676789	55.91221	60.90828	9.1957	63.168472	9.0065
622	10	4	3	5	1	57.676789	55.91221	62.179325	9.1957	64.2454	9.0065
623	10	4	3	6	0	52.562703	50.839299	61.850288	8.9411	64.034805	8.6887
624	10	4	4	1	4	77.139776	76.653741	69.150733	13.4914	71.747352	15.5207
625	10	4	4	2	3	72.979128	71.451806	69.731354	10.9578	72.337196	11.306
626	10	4	4	2	3	72.979128	71.451806	69.64961	10.9578	72.138236	11.306
627	10	4	4	2	3	72.979128	71.451806	69.64961	10.9578	72.138236	11.306
628	10	4	4	3	2	67.551774	65.718009	65.280385	9.8833	67.710728	9.8312
629	10	4	4	3	2	67.551774	65.718009	66.074457	9.8833	68.544983	9.8312
630	10	4	4	3	2	67.551774	65.718009	69.890269	9.8833	72.290304	9.8312
631	10	4	4	3	2	67.551774	65.718009	64.896524	9.8833	67.312769	9.8312
632	10	4	4	3	2	67.551774	65.718009	68.882828	9.8833	71.454162	9.8312
633	10	4	4	3	2	67.551774	65.718009	65.92357	9.8833	68.398065	9.8312
634	10	4	4	3	2	67.551774	65.718009	63.680109	9.8833	65.959249	9.8312
635	10	4	4	3	2	67.551774	65.718009	64.850282	9.8833	67.297084	9.8312
636	10	4	4	3	2	67.551774	65.718009	64.882385	9.8833	67.33056	9.8312

637	10	4	4	4	1	61.912368	60.018204	60.195099	9.3609	62.429268	9.1658
638	10	4	4	4	1	61.912368	60.018204	62.561213	9.3609	64.921172	9.1658
639	10	4	4	4	1	61.912368	60.018204	63.935472	9.3609	66.336666	9.1658
640	10	4	4	4	1	61.912368	60.018204	67.373988	9.3609	69.869624	9.1658
641	10	4	4	4	1	61.912368	60.018204	65.241227	9.3609	67.701864	9.1658
642	10	4	4	4	1	61.912368	60.018204	62.379703	9.3609	64.722739	9.1658
643	10	4	4	5	0	56.422721	54.572756	61.218599	9.1064	63.382313	8.848
644	10	4	4	1	4	77.139776	76.653741	57.72698	13.4914	59.896407	15.5207
645	10	3	3	3	3	44.158492	43.234333	67.264128	11.3828	69.778642	11.512
646	9	5	2	5	1	78.86449	76.502411	48.677238	7.5856	50.48698	7.4795
647	9	5	2	5	1	78.86449	76.502411	55.681196	7.5856	57.781633	7.4795
648	9	5	2	4	2	86.885526	84.616384	58.902389	8.4176	61.095207	8.4835
649	9	5	2	5	1	78.86449	76.502411	55.325958	7.5856	57.378679	7.4795
650	9	5	2	5	1	78.86449	76.502411	52.903402	7.5856	54.899088	7.4795
651	9	5	2	5	1	78.86449	76.502411	53.830939	7.5856	55.829112	7.4795
652	9	5	2	5	1	78.86449	76.502411	59.280287	7.5856	61.434229	7.4795
653	9	5	2	6	0	71.134082	68.83009	54.499192	7.107	56.426826	6.9299
654	9	5	2	4	2	86.885526	84.616384	57.805457	8.4176	59.957986	8.4835
655	9	5	2	5	1	78.86449	76.502411	53.661692	7.5856	55.653687	7.4795
656	9	5	2	5	1	78.86449	76.502411	57.199799	7.5856	59.280955	7.4795
657	9	5	2	6	0	71.134082	68.83009	68.282762	7.107	70.657178	6.9299
658	9	5	3	5	0	75.076823	72.645128	59.486011	7.3463	61.577182	7.1605
659	9	5	3	3	2	91.70132	89.306406	62.426326	8.6569	64.748439	8.7141
660	9	5	3	3	2	91.70132	89.306406	61.299381	8.6569	63.542784	8.7141
661	9	5	3	3	2	91.70132	89.306406	62.104965	8.6569	64.435546	8.7141
662	9	5	3	4	1	83.235702	80.742701	61.441817	7.8249	63.71715	7.7101
663	9	5	3	4	1	83.235702	80.742701	57.709792	7.8249	59.808809	7.7101
664	9	5	3	4	1	83.235702	80.742701	60.115718	7.8249	62.383012	7.7101
665	9	5	3	5	0	75.076823	72.645128	56.326392	7.3463	58.314196	7.1605
666	9	5	3	5	0	75.076823	72.645128	64.616205	7.3463	66.873374	7.1605
667	9	5	3	5	0	75.076823	72.645128	60.090391	7.3463	62.201236	7.1605
668	9	5	4	3	1	87.849198	85.218017	60.53445	8.0642	62.77681	7.9407
669	9	5	4	4	0	79.238097	76.671621	66.982691	7.5856	69.315666	7.3911
670	9	5	5	0	3	111.30711	109.170239	69.13111	10.6963	71.711952	11.2373
671	9	5	5	1	2	102.148476	99.480719	67.469434	9.1356	69.976206	9.1754
672	9	5	5	1	2	102.148476	99.480719	68.705912	9.1356	71.282674	9.1754
673	9	5	5	1	2	102.148476	99.480719	60.756841	9.1356	62.850245	9.1754
674	9	5	5	2	1	92.718405	89.941386	62.516202	8.3035	64.830554	8.1714
675	9	5	5	2	1	92.718405	89.941386	62.244228	8.3035	64.591755	8.1714
676	9	5	5	2	1	92.718405	89.941386	52.314879	8.3035	53.999729	8.1714
677	9	5	5	3	0	83.630018	80.92129	63.859311	7.825	66.092132	7.6217
678	9	5	5	3	0	83.630018	80.92129	63.451374	7.825	65.671052	7.6217
679	9	5	5	1	2	102.148476	99.480719	57.197237	9.1356	58.429447	9.1754
680	9	5	5	1	2	102.148476	99.480719	56.416144	9.1356	58.464401	9.1754
681	9	5	5	1	2	102.148476	99.480719	52.291473	9.1356	53.99661	9.1754
682	9	5	5	3	0	83.630018	80.92129	65.006406	7.825	67.276108	7.6217
683	9	4	2	4	2	61.404264	59.800601	57.146796	8.8367	59.275122	8.8225
684	9	4	2	4	2	61.404264	59.800601	58.902389	8.8367	61.095207	8.8225
685	9	4	2	5	1	55.735588	54.066246	56.23254	8.3143	58.318314	8.1571
686	9	4	2	5	1	55.735588	54.066246	53.216765	8.3143	55.224268	8.1571
687	9	4	3	3	2	66.434621	64.699583	60.191142	9.0019	62.43127	8.9818
688	9	4	3	3	2	66.434621	64.699583	64.008527	9.0019	66.397062	8.9818
689	9	4	3	3	2	66.434621	64.699583	61.173296	9.0019	63.469106	8.9818
690	9	4	3	4	1	60.301556	58.495458	55.707311	8.4795	57.773938	8.3164
691	9	4	3	4	1	60.301556	58.495458	57.961438	8.4795	60.147859	8.3164

692	9	4	3	4	1	60.301556	58.495458	62.561937	8.4795	64.877949	8.3164
693	9	4	3	4	1	60.301556	58.495458	60.520673	8.4795	62.803232	8.3164
694	9	4	3	5	0	54.390714	52.629029	56.681754	8.225	58.681226	7.9986
695	9	4	4	0	4	83.298394	83.056578	62.23566	12.7753	64.572617	14.8306
696	9	4	4	1	3	78.321574	76.817958	70.096852	10.2417	72.713353	10.6159
697	9	4	4	1	3	78.321574	76.817958	62.684649	10.2417	64.924412	10.6159
698	9	4	4	2	2	71.877074	69.999899	64.75998	9.1672	67.167597	9.1411
699	9	4	4	2	2	71.877074	69.999899	63.849353	9.1672	66.245019	9.1411
700	9	4	4	2	2	71.877074	69.999899	62.901242	9.1672	65.061273	9.1411
701	9	4	4	2	2	71.877074	69.999899	62.901242	9.1672	65.061273	9.1411
702	9	4	4	3	1	65.241577	63.28752	63.701113	8.6448	66.058466	8.4757
703	9	4	4	3	1	65.241577	63.28752	63.028776	8.6448	65.134084	8.4757
704	9	4	4	3	1	65.241577	63.28752	62.649234	8.6448	64.968415	8.4757
705	9	4	4	3	1	65.241577	63.28752	59.499859	8.6448	61.74429	8.4757
706	9	4	4	3	1	65.241577	63.28752	63.030995	8.6448	65.408178	8.4757
707	9	4	4	3	1	65.241577	63.28752	58.773805	8.6448	60.980919	8.4757
708	9	4	4	4	0	58.846507	56.940502	61.909515	8.3902	64.079387	8.1579
709	9	4	4	4	0	58.846507	56.940502	67.485832	8.3902	69.834863	8.1579
710	9	4	4	1	3	78.321574	76.817958	57.877394	10.2417	60.041904	10.6159
711	9	4	4	1	3	78.321574	76.817958	53.093426	10.2417	54.992901	10.6159
712	9	4	4	1	3	78.321574	76.817958	52.266805	10.2417	54.151722	10.6159
713	9	3	3	2	3	47.776949	46.859728	64.82295	10.3905	67.244586	10.5557
714	9	3	3	3	2	43.845739	42.700643	60.558114	9.8771	62.811708	9.7525
715	9	3	3	3	2	43.845739	42.700643	61.317668	9.8771	63.609678	9.7525
716	8	5	2	5	0	72.606949	70.291404	54.360949	6.558	56.268024	6.4008
717	8	5	2	3	2	90.929877	88.672276	57.127215	7.8686	59.251306	7.9544
718	8	5	2	4	1	81.542199	79.165526	56.200127	7.0365	58.280202	6.9504
719	8	5	2	4	1	81.542199	79.165526	52.693589	7.0365	54.608203	6.9504
720	8	5	2	5	0	72.606949	70.291404	51.396907	6.558	53.207418	6.4008
721	8	5	2	5	0	72.606949	70.291404	62.061024	6.558	64.214967	6.4008
722	8	5	2	4	1	81.542199	79.165526	55.173374	7.0365	57.216176	6.9504
723	8	5	2	5	0	72.606949	70.291404	61.808186	6.558	63.954114	6.4008
724	8	5	3	3	1	86.644119	84.118743	55.513968	7.2759	57.569137	7.1811
725	8	5	3	4	0	77.14981	74.689386	61.635526	6.7973	63.775977	6.6314
726	8	5	4	3	0	81.976907	79.362541	61.663223	7.0366	63.804552	6.862
727	8	5	5	0	2	109.087909	106.379482	70.028829	8.5865	72.623868	8.6463
728	8	5	5	1	1	97.825581	94.974303	65.847316	7.7545	68.276275	7.6423
729	8	5	5	1	1	97.825581	94.974303	46.502115	7.7545	47.999759	7.6423
730	8	5	5	2	0	87.106026	84.328084	64.166457	7.2759	66.386898	7.0927
731	8	5	5	1	1	97.825581	94.974303	53.939988	7.7545	55.607961	7.6423
732	8	5	5	1	1	97.825581	94.974303	46.502115	7.7545	47.999759	7.6423
733	8	4	2	3	2	65.064123	63.448716	55.023641	8.1205	57.070639	8.1324
734	8	4	2	4	1	58.346848	56.646239	50.81718	7.5981	52.701543	7.467
735	8	4	2	4	1	58.346848	56.646239	52.929642	7.5981	54.926234	7.467
736	8	4	2	4	1	58.346848	56.646239	57.254984	7.5981	59.373323	7.467
737	8	4	2	5	0	51.953303	50.296435	51.729831	7.3435	53.551231	7.1492
738	8	4	3	3	1	63.751121	61.892996	57.517051	7.7634	59.644893	7.6263
739	8	4	3	3	1	63.751121	61.892996	54.535638	7.7634	56.592787	7.6263
740	8	4	3	3	1	63.751121	61.892996	57.879121	7.7634	60.061964	7.6263
741	8	4	3	4	0	56.765385	54.955052	56.815899	7.5088	58.802305	7.3085
742	8	4	3	4	0	56.765385	54.955052	62.114922	7.5088	64.270572	7.3085
743	8	4	3	1	3	78.300475	76.966949	53.003535	9.3603	54.98523	9.7665
744	8	4	4	0	3	85.552917	84.095875	63.929741	9.5255	66.315362	9.9258
745	8	4	4	1	2	77.675209	75.746694	62.332624	8.451	64.647116	8.4509
746	8	4	4	1	2	77.675209	75.746694	63.520768	8.451	65.902475	8.4509

747	8	4	4	1	2	77.675209	75.746694	55.912215	8.451	57.832243	8.4509
748	8	4	4	2	1	69.655954	67.625724	57.590148	7.9286	59.720639	7.7855
749	8	4	4	2	1	69.655954	67.625724	57.330537	7.9286	59.492702	7.7855
750	8	4	4	3	0	62.023178	60.045165	58.873406	7.6741	60.92585	7.4677
751	8	4	4	3	0	62.023178	60.045165	58.483436	7.6741	60.523395	7.4677
752	8	4	4	1	2	77.675209	75.746694	52.527827	8.451	53.631694	8.4509
753	8	4	4	1	2	77.675209	75.746694	51.78705	8.451	53.664826	8.4509
754	8	4	4	1	2	77.675209	75.746694	46.593157	8.451	48.219467	8.4509
755	8	3	2	3	2	42.260388	41.21115	55.3687	8.8593	57.42835	8.7718
756	8	3	3	1	3	52.719785	51.821921	64.606794	9.3981	67.017393	9.5995
757	8	3	3	2	2	47.86535	46.676953	59.520744	8.8848	61.73245	8.7963
758	8	3	3	2	2	47.86535	46.676953	58.655759	8.8848	60.856135	8.7963
759	8	3	3	3	1	42.923691	41.672614	58.515026	8.7322	60.679036	8.532
760	7	5	1	4	1	79.415368	77.182913	39.153808	6.2482	40.608739	6.1907
761	7	5	2	3	1	85.118991	82.7262	50.008478	6.4875	51.858775	6.4214
762	7	5	2	3	1	85.118991	82.7262	55.127025	6.4875	57.114974	6.4214
763	7	5	2	4	0	74.545533	72.215916	67.266481	6.0089	69.552626	5.8717
764	7	5	2	4	0	74.545533	72.215916	64.56845	6.0089	66.772575	5.8717
765	7	5	3	3	0	79.899403	77.402473	56.641243	6.2482	58.599718	6.1023
766	7	5	5	0	1	104.80746	101.861204	69.190929	7.2055	71.73145	7.1132
767	7	5	5	1	0	91.788306	88.919836	60.29641	6.7269	62.369016	6.5636
768	7	5	5	1	0	91.788306	88.919836	49.164919	6.7269	50.885332	6.5636
769	7	4	2	3	1	61.884743	60.145093	51.868151	6.882	53.785836	6.7769
770	7	4	2	3	1	61.884743	60.145093	49.101631	6.882	50.953782	6.7769
771	7	4	2	4	0	54.197437	52.503717	51.216746	6.6274	53.003112	6.4591
772	7	4	2	4	0	54.197437	52.503717	69.005553	6.6274	71.344138	6.4591
773	7	4	3	3	0	59.971505	58.09734	52.940836	6.7927	54.782257	6.6184
774	7	4	3	1	2	77.559422	75.762469	57.855024	7.5696	58.825574	7.6016
775	7	4	3	1	2	77.559422	75.762469	46.694379	7.5696	48.3854	7.6016
776	7	4	4	0	2	85.822421	83.834024	64.109237	7.7349	66.482903	7.7608
777	7	4	4	1	1	75.773262	73.64319	60.115171	7.2125	62.330476	7.0954
778	7	4	4	2	0	66.360729	64.286894	58.515854	6.9579	60.533048	6.7776
779	7	4	4	1	1	75.773262	73.64319	48.861205	7.2125	50.360473	7.0954
780	7	3	2	2	2	46.471261	45.394581	53.732361	7.867	55.727995	7.8155
781	7	3	2	3	1	41.029826	39.876432	52.796156	7.7144	54.747431	7.5513
782	7	3	2	3	1	41.029826	39.876432	49.415706	7.7144	51.279699	7.5513
783	7	3	3	0	3	59.833532	58.981647	58.057762	8.4058	60.22334	8.6432
784	7	3	3	1	2	53.579548	52.338178	56.553816	7.8925	58.652472	7.84
785	7	3	3	1	2	53.579548	52.338178	57.672376	7.8925	59.834276	7.84
786	7	3	3	2	1	47.305787	45.975968	52.104713	7.7399	54.030963	7.5758
787	7	3	3	2	1	47.305787	45.975968	54.042412	7.7399	56.08085	7.5758
788	7	3	3	2	1	47.305787	45.975968	51.861881	7.7399	53.817763	7.5758
789	7	3	3	3	0	41.429475	40.134765	53.306128	7.7623	55.159172	7.543
790	6	5	1	4	0	71.209399	69.044905	42.705422	5.2206	44.198236	5.112
791	6	5	2	3	0	77.211066	74.864144	59.001954	5.4599	61.002075	5.3427
792	6	5	5	0	0	98.425183	95.433433	95.412845	6.1779	98.422714	6.0345
793	6	4	1	3	1	59.480956	57.891099	39.651639	6.0006	41.120923	5.9276
794	6	4	1	3	1	59.480956	57.891099	38.976114	6.0006	40.420819	5.9276
795	6	4	1	3	1	59.480956	57.891099	37.864864	6.0006	39.2691	5.9276
796	6	4	2	3	0	57.341123	55.598172	46.841529	5.9113	48.466352	5.769
797	6	4	3	1	1	75.329613	73.316139	53.593057	6.3311	55.132751	6.2461
798	6	4	3	1	1	75.329613	73.316139	40.184235	6.3311	41.598517	6.2461
799	6	4	4	0	1	84.773406	82.50751	62.422427	6.4964	64.711089	6.4053
800	6	4	4	1	0	72.619623	70.412264	54.033066	6.2418	55.882144	6.0875
801	6	4	4	1	0	72.619623	70.412264	43.691045	6.2418	45.215518	6.0875

802	6	3	2	2	1	45.612813	44.393635	46.078263	6.7221	47.780601	6.5951
803	6	3	2	2	1	45.612813	44.393635	47.848306	6.7221	49.653082	6.5951
804	6	3	2	3	0	39.073401	37.885719	47.175235	6.7445	48.810612	6.5623
805	6	3	3	0	2	62.27343	60.968672	57.349952	6.9001	59.471575	6.8838
806	6	3	3	1	1	53.852253	52.412844	53.631115	6.7476	55.605539	6.6196
807	6	3	3	1	1	53.852253	52.412844	50.441983	6.7476	52.184669	6.6196
808	6	3	3	2	0	46.13157	44.729346	52.147656	6.77	53.938588	6.5868
809	6	2	2	1	2	30.718317	30.074704	50.148649	7.7444	52.008532	7.6143
810	5	4	1	3	0	53.851269	52.278905	44.234825	5.0298	45.751324	4.9197
811	5	4	1	3	0	53.851269	52.278905	43.231758	5.0298	44.717243	4.9197
812	5	4	1	3	0	53.851269	52.278905	41.6065	5.0298	43.041401	4.9197
813	5	4	3	1	0	71.499219	69.411565	47.161015	5.3604	48.767098	5.2382
814	5	4	4	0	0	82.386105	79.980574	86.453462	5.5256	89.134275	5.3974
815	5	3	1	2	1	43.34395	42.269437	39.533141	5.7044	40.992749	5.6143
816	5	3	1	2	1	43.34395	42.269437	38.805314	5.7044	40.238632	5.6143
817	5	3	1	2	1	43.34395	42.269437	38.169693	5.7044	39.580033	5.6143
818	5	3	1	2	1	43.34395	42.269437	37.420505	5.7044	38.80374	5.6143
819	5	3	1	2	1	43.34395	42.269437	36.767747	5.7044	38.127348	5.6143
820	5	3	2	2	0	43.936164	42.653304	45.074976	5.7522	46.617331	5.606
821	5	3	3	0	1	64.56681	62.966175	54.614067	5.7552	56.613526	5.6633
822	5	3	3	1	0	53.624414	52.058674	46.959239	5.7777	48.559187	5.6306
823	5	2	2	0	2	38.714895	38.024209	49.756577	6.2253	51.595773	6.1504
824	5	2	2	1	1	32.520663	31.714464	46.406406	6.5467	48.113216	6.3934
825	5	2	2	1	1	32.520663	31.714464	42.803197	6.5467	44.417624	6.3934
826	4	3	1	2	0	40.837391	39.718503	45.355872	4.7345	46.866877	4.6253
827	4	3	1	2	0	40.837391	39.718503	43.705145	4.7345	45.168162	4.6253
828	4	3	1	2	0	40.837391	39.718503	43.145635	4.7345	44.592266	4.6253
829	4	3	1	2	0	40.837391	39.718503	40.526226	4.7345	41.895342	4.6253
830	4	3	1	2	0	40.837391	39.718503	40.384618	4.7345	41.749506	4.6253
831	4	3	3	0	0	67.206154	65.364799	75.093697	4.7853	77.379243	4.6743
832	4	2	1	1	1	31.0279	30.349152	38.459073	5.3002	39.872263	5.1922
833	4	2	2	0	1	44.050488	43.086866	45.756176	5.0275	47.42891	4.9295
834	4	2	2	0	1	44.050488	43.086866	40.194868	5.0275	41.625806	4.9295
835	4	2	2	1	0	34.92547	33.96856	39.083985	5.4264	40.409854	5.2805
836	3	2	1	1	0	33.593907	32.774492	39.09844	4.1799	40.375285	4.0793
837	3	2	2	0	0	53.603315	52.295835	61.056054	3.9072	62.877159	3.8166
838	3	1	1	0	1	22.88979	22.500715	35.849654	2.2918	37.158346	2.2303
839	2	1	1	0	0	44.297451	43.484585	44.054707	1.3814	45.340271	1.3494

Table of Criteria Values for BBDs

Dsgn	P	dv	l	c	q	$n_0 = 0$		$n_0 = 1$			$n_0 = 3$		
						D	G	D	G	IV	D	G	IV
1	21	5	5	10	5	0	0	79.628222	51.219512	59.8097	80.002302	92.221072	28.5402
2	20	5	5	9	5	0	0	80.697962	48.780488	59.2858	81.289421	89.21916	27.9908
3	20	5	5	10	4	82.715411	94.416812	81.737262	92.126993	22.3474	79.401376	87.855274	19.5901
4	19	5	4	10	4	81.893606	91.764444	80.979698	89.539244	21.5834	78.742649	85.387809	18.7888
5	19	5	5	8	5	0	0	81.897032	46.341463	58.7619	82.736132	85.988733	27.4414
6	19	5	5	8	5	0	0	81.897032	46.341463	58.7619	82.736132	86.432002	27.4414
7	19	5	5	9	4	83.944458	91.115067	83.007663	88.905522	21.8235	80.714592	84.783377	19.0406
8	19	5	5	9	4	83.944458	91.115067	83.007663	89.143896	21.8235	80.714592	85.254595	19.0406
9	19	5	5	10	3	82.17204	89.698318	80.666357	87.529501	16.4999	77.731079	83.484653	16.1024
10	18	5	4	9	4	83.132444	88.342378	82.266252	86.200361	21.0595	80.080878	82.203938	18.2393
11	18	5	4	10	3	81.28075	86.937064	79.818883	84.835435	15.7359	76.959586	80.915671	15.3011
12	18	5	5	7	5	0	0	83.250241	43.902439	58.238	84.373805	86.919546	26.8919

13	18	5	5	7	5	0	0	83.250241	43.902439	58.238	84.373805	82.547	26.8919
14	18	5	5	7	5	0	0	83.250241	43.902439	58.238	84.373805	88.578273	26.8919
15	18	5	5	8	4	85.331497	87.572736	84.442392	85.449272	21.2997	82.199209	81.487559	18.4912
16	18	5	5	8	4	85.331497	87.572736	84.442392	85.458161	21.2997	82.199209	81.505084	18.4912
17	18	5	5	8	4	85.331497	88.024171	84.442392	85.889824	21.2997	82.199209	81.907752	18.4912
18	18	5	5	8	4	85.331497	88.024171	84.442392	88.383016	21.2997	82.199209	86.979307	18.4912
19	18	5	5	8	4	85.331497	88.024171	84.442392	86.10362	21.2997	82.199209	82.330299	18.4912
20	18	5	5	9	3	83.430821	86.321832	81.930284	84.234943	15.9761	78.995352	80.342741	15.5529
21	18	5	5	9	3	83.430821	86.327861	81.930284	84.245586	15.9761	78.995352	80.359498	15.5529
22	18	5	5	9	3	83.430821	89.897443	81.930284	88.594058	15.9761	78.995352	84.536164	15.5529
23	18	5	5	10	2	80.279125	84.983204	78.613777	82.934359	13.9371	75.467523	79.114719	14.1215
24	17	5	4	8	4	84.539219	84.67459	83.728368	82.621686	20.5356	81.603477	78.791361	17.6899
25	17	5	4	8	4	84.539219	85.12152	83.728368	83.057846	20.5356	81.603477	79.207367	17.6899
26	17	5	4	9	3	82.546739	83.436738	81.09331	81.420018	15.212	78.239652	77.658467	14.7516
27	17	5	4	9	3	82.546739	83.442702	81.09331	81.430546	15.212	78.239652	77.675044	14.7516
28	17	5	4	9	3	82.546739	84.107179	81.09331	82.068747	15.212	78.239652	78.269579	14.7516
29	17	5	4	10	2	79.248723	82.113009	77.62178	80.133894	13.1731	74.544967	76.444076	13.3202
30	17	5	5	6	5	0	0	84.789128	41.463415	57.7142	86.242537	89.204499	26.3425
31	17	5	5	6	5	0	0	84.789128	41.463415	57.7142	86.242537	83.257231	26.3425
32	17	5	5	7	4	86.908856	88.247484	86.075277	86.108498	20.7758	83.890825	82.117077	17.9418
33	17	5	5	7	4	86.908856	88.247484	86.075277	86.118057	20.7758	83.890825	82.135921	17.9418
34	17	5	5	7	4	86.908856	88.247484	86.075277	88.950721	20.7758	83.890825	85.099488	17.9418
35	17	5	5	7	4	86.908856	83.808135	86.075277	81.776113	20.7758	83.890825	77.984861	17.9418
36	17	5	5	7	4	86.908856	83.808135	86.075277	82.001533	20.7758	83.890825	78.430511	17.9418
37	17	5	5	7	4	86.908856	89.931552	86.075277	87.752008	20.7758	83.890825	83.68467	17.9418
38	17	5	5	7	4	86.908856	89.931552	86.075277	87.761935	20.7758	83.890825	83.70424	17.9418
39	17	5	5	7	4	86.908856	89.931552	86.075277	87.988351	20.7758	83.890825	84.151893	17.9418
40	17	5	5	8	3	84.860527	82.709815	83.366358	80.710507	15.4522	80.432712	76.981515	15.0035
41	17	5	5	8	3	84.860527	86.972962	83.366358	84.953529	15.4522	80.432712	81.044125	15.0035
42	17	5	5	8	3	84.860527	82.709409	83.366358	80.720463	15.4522	80.432712	77.005384	15.0035
43	17	5	5	8	3	84.860527	87.035429	83.366358	84.949736	15.4522	80.432712	81.050125	15.0035
44	17	5	5	6	5	0	0	84.789128	41.463415	57.7142	86.242537	83.809174	26.3425
45	17	5	5	8	3	84.860527	83.136193	83.366358	81.126672	15.4522	80.432712	77.378581	15.0035
46	17	5	5	8	3	84.860527	88.543208	83.366358	86.409552	15.4522	80.432712	82.426498	15.0035
47	17	5	5	8	3	84.860527	83.381818	83.366358	81.4423	15.4522	80.432712	77.785282	15.0035
48	17	5	5	9	2	81.470067	81.531875	79.797521	79.5666	13.4132	76.634464	75.902641	13.5721
49	17	5	5	9	2	81.470067	85.737322	79.797521	83.679467	13.4132	76.634464	79.840007	13.5721
50	17	5	5	9	2	81.470067	86.08966	79.797521	84.377365	13.4132	76.634464	81.071856	13.5721
51	17	5	5	10	1	77.675035	84.335124	75.962712	82.309396	12.3925	72.758203	78.53404	12.7686
52	16	5	3	9	3	81.563339	80.229326	80.16193	78.290513	14.448	77.398127	74.674073	13.9503
53	16	5	4	7	4	86.150315	85.16743	85.404333	83.103429	20.0118	83.351032	79.251637	17.1405
54	16	5	4	7	4	86.150315	80.779742	85.404333	78.821428	20.0118	83.351032	75.167445	17.1405
55	16	5	4	7	4	86.150315	86.834838	85.404333	84.730693	20.0118	83.351032	80.803747	17.1405
56	16	5	4	8	3	83.994561	79.695932	82.551379	77.769891	14.6882	79.705193	74.177333	14.2022
57	16	5	4	8	3	83.994561	83.906592	82.551379	81.960822	14.6882	79.705193	78.190151	14.2022
58	16	5	4	8	3	83.994561	80.116596	82.551379	78.180482	14.6882	79.705193	74.569089	14.2022
59	16	5	4	8	3	83.994561	85.460112	82.551379	83.401389	14.6882	79.705193	79.557882	14.2022
60	16	5	4	8	3	83.994561	80.358976	82.551379	78.491951	14.6882	79.705193	74.97045	14.2022
61	16	5	4	9	2	80.433467	78.534314	78.80165	76.64182	12.6492	75.712049	73.113376	12.7708
62	16	5	4	9	2	80.433467	82.685102	78.80165	80.701298	12.6492	75.712049	76.999738	12.7708
63	16	5	4	10	1	76.458431	81.300012	74.78415	79.347919	11.6285	71.64963	75.70964	11.9673
64	16	5	5	5	5	0	0	86.554404	39.02439	57.1903	88.394379	85.255236	25.7931
65	16	5	5	6	4	88.718264	90.253964	87.950046	88.067532	20.2519	85.835541	83.986511	17.3923
66	16	5	5	6	4	88.718264	90.253964	87.950046	88.345421	20.2519	85.835541	84.536152	17.3923
67	16	5	5	5	5	0	0	86.554404	39.02439	57.1903	88.394379	79.380059	25.7931

68	16	5	5	5	5	0	0	86.554404	39.02439	57.1903	88.394379	84.802253	25.7931
69	16	5	5	5	5	0	0	86.554404	39.02439	57.1903	88.394379	85.751324	25.7931
70	16	5	5	6	4	88.718264	84.236728	87.950046	82.195139	20.2519	85.835541	78.3853	17.3923
71	16	5	5	6	4	88.718264	84.236728	87.950046	82.204393	20.2519	85.835541	78.403543	17.3923
72	16	5	5	6	4	88.718264	84.236728	87.950046	82.22615	20.2519	85.835541	78.446454	17.3923
73	16	5	5	6	4	88.718264	84.236728	87.950046	84.948042	20.2519	85.835541	81.274136	17.3923
74	16	5	5	7	3	86.498252	83.058845	85.012052	81.052312	14.9283	82.081027	77.309209	14.4541
75	16	5	5	7	3	86.498252	86.331213	85.012052	84.27153	14.9283	82.081027	80.415745	14.4541
76	16	5	5	7	3	86.498252	83.058411	85.012052	81.06298	14.9283	82.081027	77.334787	14.4541
77	16	5	5	7	3	86.498252	86.424612	85.012052	84.354817	14.9283	82.081027	80.484269	14.4541
78	16	5	5	7	3	86.498252	78.8804	85.012052	76.973888	14.9283	82.081027	73.417852	14.4541
79	16	5	5	7	3	86.498252	79.549017	85.012052	77.647814	14.9283	82.081027	74.090468	14.4541
80	16	5	5	7	3	86.498252	80.257589	85.012052	79.242717	14.9283	82.081027	76.903656	14.4541
81	16	5	5	5	5	0	0	86.554404	39.02439	57.1903	88.394379	83.084865	25.7931
82	16	5	5	7	3	86.498252	84.643943	85.012052	82.599493	14.9283	82.081027	78.78546	14.4541
83	16	5	5	7	3	86.498252	87.96871	85.012052	85.898979	14.9283	82.081027	82.009097	14.4541
84	16	5	5	7	3	86.498252	84.643492	85.012052	82.610571	14.9283	82.081027	78.812024	14.4541
85	16	5	5	7	3	86.498252	87.931127	85.012052	85.873484	14.9283	82.081027	82.000356	14.4541
86	16	5	5	7	3	86.498252	89.530778	85.012052	87.35225	14.9283	82.081027	83.296497	14.4541
87	16	5	5	8	2	82.83101	77.850054	81.150552	75.973851	12.8894	77.968856	72.475845	13.0227
88	16	5	5	8	2	82.83101	81.926439	81.150552	79.956589	12.8894	77.968856	76.28247	13.0227
89	16	5	5	8	2	82.83101	81.900597	81.150552	80.305546	12.8894	77.968856	77.214232	13.0227
90	16	5	5	8	2	82.83101	81.915704	81.150552	79.954722	12.8894	77.968856	76.294302	13.0227
91	16	5	5	8	2	82.83101	82.090698	81.150552	80.476953	12.8894	77.968856	77.354871	13.0227
92	16	5	5	6	4	88.718264	84.795165	87.950046	87.184618	20.2519	85.835541	83.473126	17.3923
93	16	5	5	6	4	88.718264	84.795165	87.950046	82.854896	20.2519	85.835541	79.131684	17.3923
94	16	5	5	8	2	82.83101	83.334792	81.150552	81.328108	12.8894	77.968856	77.586272	13.0227
95	16	5	5	8	2	82.83101	78.528088	81.150552	76.67759	12.8894	77.968856	73.21372	13.0227
96	16	5	5	8	2	82.83101	83.556276	81.150552	82.092641	12.8894	77.968856	79.197924	13.0227
97	16	5	5	8	2	82.83101	80.41166	81.150552	78.450418	12.8894	77.968856	74.80159	13.0227
98	16	5	5	9	1	78.737487	80.694946	77.013299	78.757153	11.8687	73.785346	75.145575	12.2192
99	16	5	5	9	1	78.737487	82.335089	77.013299	80.515948	11.8687	73.785346	77.093548	12.2192
100	16	5	5	10	0	74.54497	81.851842	72.839125	79.955219	11.295	69.658306	76.413979	11.7369
101	15	5	3	8	3	83.023811	76.357556	81.637363	74.512568	13.9241	78.888624	71.071002	13.4009
102	15	5	3	8	3	83.023811	76.769507	81.637363	74.91466	13.9241	78.888624	71.454653	13.4009
103	15	5	3	9	2	79.274589	75.220493	77.688013	73.408331	11.8852	74.680059	70.029503	11.9695
104	15	5	3	9	2	79.274589	75.836113	77.688013	74.002201	11.8852	74.680059	70.585108	11.9695
105	15	5	4	6	4	88.013371	81.008352	87.344351	79.045329	19.4879	85.37688	75.381815	16.591
106	15	5	4	7	3	85.666148	79.846821	84.235575	77.918356	14.1643	81.399354	74.320638	13.6528
107	15	5	4	7	3	85.666148	83.075832	84.235575	81.094985	14.1643	81.399354	77.386168	13.6528
108	15	5	4	7	3	85.666148	75.733128	84.235575	73.903087	14.1643	81.399354	70.489475	13.6528
109	15	5	4	7	3	85.666148	76.390677	84.235575	74.56587	14.1643	81.399354	71.150985	13.6528
110	15	5	4	7	3	85.666148	81.41011	84.235575	79.444267	14.1643	81.399354	75.77662	13.6528
111	15	5	4	7	3	85.666148	84.694064	84.235575	82.703349	14.1643	81.399354	78.960922	13.6528
112	15	5	4	7	3	85.666148	81.677132	84.235575	79.787443	14.1643	81.399354	76.218916	13.6528
113	15	5	4	8	2	81.797602	74.720363	80.160532	72.920101	12.1253	77.056846	69.563511	12.2214
114	15	5	4	8	2	81.797602	78.730924	80.160532	76.838591	12.1253	77.056846	73.308829	12.2214
115	15	5	4	8	2	81.797602	78.705468	80.160532	77.182385	12.1253	77.056846	74.227013	12.2214
116	15	5	4	6	4	88.013371	86.409187	87.344351	84.316199	19.4879	85.37688	80.409321	16.591
117	15	5	4	8	2	81.797602	80.118862	80.160532	78.190252	12.1253	77.056846	74.593789	12.2214
118	15	5	4	8	2	81.797602	75.386756	80.160532	73.611777	12.1253	77.056846	70.288771	12.2214
119	15	5	4	8	2	81.797602	80.337244	80.160532	78.94422	12.1253	77.056846	76.183675	12.2214
120	15	5	4	8	2	81.797602	77.239439	80.160532	75.355568	12.1253	77.056846	71.850686	12.2214
121	15	5	4	9	1	77.492869	77.518263	75.80883	75.657474	11.1046	72.654655	72.189262	11.4179
122	15	5	4	9	1	77.492869	79.133528	75.80883	77.38971	11.1046	72.654655	74.108056	11.4179

123	15	5	4	10	0	73.099486	78.657443	71.434068	76.837242	10.531	68.328165	73.438388	10.9356
124	15	5	5	4	5	0	0	88.59952	36.585366	56.6664	90.89811	83.719697	25.2436
125	15	5	5	4	5	0	0	88.59952	36.585366	56.6664	90.89811	83.719697	25.2436
126	15	5	5	5	4	90.814508	85.921292	90.124195	83.84004	19.728	88.094106	79.955142	16.8429
127	15	5	5	5	4	90.814508	85.921292	90.124195	83.850309	19.728	88.094106	79.975389	16.8429
128	15	5	5	5	4	90.814508	85.921292	90.124195	84.108694	19.728	88.094106	80.486547	16.8429
129	15	5	5	6	3	88.392581	84.615737	86.916478	82.573296	14.4044	83.989991	78.762317	13.9046
130	15	5	5	6	3	88.392581	84.615256	86.916478	82.585106	14.4044	83.989991	78.790636	13.9046
131	15	5	5	5	4	90.814508	80.000215	90.124195	78.061464	19.728	88.094106	74.443389	16.8429
132	15	5	5	5	4	90.814508	80.000215	90.124195	78.080475	19.728	88.094106	74.480872	16.8429
133	15	5	5	5	4	90.814508	80.000215	90.124195	82.537128	19.728	88.094106	79.844447	16.8429
134	15	5	5	4	5	0	0	88.59952	36.585366	56.6664	90.89811	81.985557	25.2436
135	15	5	5	5	4	90.814508	85.464771	90.124195	83.3945	19.728	88.094106	79.53017	16.8429
136	15	5	5	5	4	90.814508	85.464771	90.124195	83.416197	19.728	88.094106	79.572953	16.8429
137	15	5	5	5	4	90.814508	85.464771	90.124195	83.660302	19.728	88.094106	80.055923	16.8429
138	15	5	5	5	4	90.814508	86.421256	90.124195	85.584166	19.728	88.094106	81.618762	16.8429
139	15	5	5	5	4	90.814508	86.421256	90.124195	84.455156	19.728	88.094106	80.671663	16.8429
140	15	5	5	5	4	90.814508	86.421256	90.124195	84.599772	19.728	88.094106	80.958186	16.8429
141	15	5	5	6	3	88.392581	78.974237	86.916478	77.06664	14.4044	83.989991	73.507963	13.9046
142	15	5	5	6	3	88.392581	78.98902	86.916478	77.090644	14.4044	83.989991	73.544158	13.9046
143	15	5	5	6	3	88.392581	82.131663	86.916478	80.172819	14.4044	83.989991	76.505466	13.9046
144	15	5	5	6	3	88.392581	78.973818	86.916478	77.076928	14.4044	83.989991	73.532629	13.9046
145	15	5	5	6	3	88.392581	78.978772	86.916478	77.087104	14.4044	83.989991	73.549757	13.9046
146	15	5	5	6	3	88.392581	82.221833	86.916478	80.253228	14.4044	83.989991	76.571624	13.9046
147	15	5	5	6	3	88.392581	82.938074	86.916478	81.990275	14.4044	83.989991	79.717378	13.9046
148	15	5	5	7	2	84.400914	77.882921	82.711742	76.014479	12.3655	79.509277	72.528123	12.4732
149	15	5	5	7	2	84.400914	83.216791	82.711742	81.187134	12.3655	79.509277	77.411021	12.4732
150	15	5	5	7	2	84.400914	77.872082	82.711742	76.008393	12.3655	79.509277	72.52942	12.4732
151	15	5	5	7	2	84.400914	83.254526	82.711742	81.224002	12.3655	79.509277	77.446258	12.4732
152	15	5	5	7	2	84.400914	85.234939	82.711742	83.383221	12.3655	79.509277	79.518459	12.4732
153	15	5	5	7	2	84.400914	73.955691	82.711742	72.173628	12.3655	79.509277	68.851044	12.4732
154	15	5	5	7	2	84.400914	74.840407	82.711742	73.02161	12.3655	79.509277	69.63564	12.4732
155	15	5	5	7	2	84.400914	77.857519	82.711742	76.346597	12.3655	79.509277	73.416374	12.4732
156	15	5	5	5	4	90.814508	83.733966	90.124195	83.988293	19.728	88.094106	80.096552	16.8429
157	15	5	5	7	2	84.400914	79.359818	82.711742	77.44924	12.3655	79.509277	73.886482	12.4732
158	15	5	5	7	2	84.400914	82.496129	82.711742	80.540489	12.3655	79.509277	76.883691	12.4732
159	15	5	5	7	2	84.400914	82.860897	82.711742	81.007945	12.3655	79.509277	77.506811	12.4732
160	15	5	5	7	2	84.400914	84.061385	82.711742	82.011183	12.3655	79.509277	78.196828	12.4732
161	15	5	5	8	1	79.959177	76.807476	78.221541	74.963478	11.3448	74.966981	71.526618	11.6697
162	15	5	5	8	1	79.959177	78.392953	78.221541	76.663724	11.3448	74.966981	73.409888	11.6697
163	15	5	5	8	1	79.959177	78.52901	78.221541	76.789081	11.3448	74.966981	73.516736	11.6697
164	15	5	5	6	3	88.392581	84.098669	86.916478	82.06858	14.4044	83.989991	78.280715	13.9046
165	15	5	5	6	3	88.392581	84.497402	86.916478	82.886725	14.4044	83.989991	79.097388	13.9046
166	15	5	5	6	3	88.392581	79.734415	86.916478	77.933004	14.4044	83.989991	74.5079	13.9046
167	15	5	5	8	1	79.959177	80.330784	78.221541	78.652305	11.3448	74.966981	75.474823	11.6697
168	15	5	5	8	1	79.959177	75.445624	78.221541	73.606729	11.3448	74.966981	70.185267	11.6697
169	15	5	5	8	1	79.959177	82.321192	78.221541	80.514955	11.3448	74.966981	77.114191	11.6697
170	15	5	5	9	0	75.425969	78.053457	73.707547	76.246483	10.7711	70.502795	72.872422	11.1875
171	15	4	4	6	4	61.587509	86.955149	61.11936	84.849029	18.7147	59.742619	80.917556	16.6109
172	14	5	3	7	3	84.72497	76.277299	83.356853	74.435473	13.4003	80.627227	70.999163	12.8515
173	14	5	3	7	3	84.72497	72.259906	83.356853	70.514157	13.4003	80.627227	67.257587	12.8515
174	14	5	3	7	3	84.72497	77.806547	83.356853	75.928175	13.4003	80.627227	72.423482	12.8515
175	14	5	3	8	2	80.632343	71.272342	79.043861	69.55562	11.3613	76.027603	66.354636	11.4201
176	14	5	3	8	2	80.632343	75.186563	79.043861	73.380039	11.3613	76.027603	70.010132	11.4201
177	14	5	3	8	2	80.632343	76.543315	79.043861	74.701351	11.3613	76.027603	71.266274	11.4201

178	14	5	3	8	2	80.632343	71.922087	79.043861	70.230033	11.3613	76.027603	67.061826	11.4201
179	14	5	3	9	1	76.094521	74.002056	74.455342	72.226325	10.3406	71.383638	68.916507	10.6166
180	14	5	4	5	4	90.191964	76.618	89.615534	74.761527	18.964	87.752495	71.296719	16.0416
181	14	5	4	5	4	90.191964	81.997888	89.615534	80.01198	18.964	87.752495	76.304778	16.0416
182	14	5	4	5	4	90.191964	84.212333	89.615534	82.173183	18.964	87.752495	78.366242	16.0416
183	14	5	4	6	3	87.617307	75.610059	86.202485	73.784182	13.6404	83.379675	70.377716	13.1033
184	14	5	4	6	3	87.617307	75.624578	86.202485	73.807757	13.6404	83.379675	70.413264	13.1033
185	14	5	4	6	3	87.617307	78.714137	86.202485	76.837943	13.6404	83.379675	73.324726	13.1033
186	14	5	4	7	2	83.384966	74.529484	81.742256	72.735342	11.6015	78.62303	69.38966	11.6719
187	14	5	4	7	2	83.384966	77.842402	81.742256	75.951432	11.6015	78.62303	72.430844	11.6719
188	14	5	4	7	2	83.384966	74.53867	81.742256	72.751216	11.6015	78.62303	69.415725	11.6719
189	14	5	4	7	2	83.384966	79.782411	81.742256	77.836519	11.6015	78.62303	74.216248	11.6719
190	14	5	4	7	2	83.384966	70.689456	81.742256	68.986599	11.6015	78.62303	65.811525	11.6719
191	14	5	4	7	2	83.384966	71.555737	81.742256	69.816918	11.6015	78.62303	66.57979	11.6719
192	14	5	4	7	2	83.384966	74.51374	81.742256	73.077196	11.6015	78.62303	70.287767	11.6719
193	14	5	4	5	4	90.191964	82.598081	89.615534	80.597741	18.964	87.752495	76.863504	16.0416
194	14	5	4	7	2	83.384966	75.988782	81.742256	74.159983	11.6015	78.62303	70.749516	11.6719
195	14	5	4	7	2	83.384966	79.072858	81.742256	77.19983	11.6015	78.62303	73.69702	11.6719
196	14	5	4	7	2	83.384966	80.576505	81.742256	78.611245	11.6015	78.62303	74.954941	11.6719
197	14	5	4	8	1	78.692232	73.483609	76.997095	71.720114	10.5808	73.820528	68.433149	10.8684
198	14	5	4	8	1	78.692232	74.909312	76.997095	73.268319	10.5808	73.820528	70.178124	10.8684
199	14	5	4	8	1	78.692232	75.039294	76.997095	73.38853	10.5808	73.820528	70.281397	10.8684
200	14	5	4	6	3	87.617307	80.65115	86.202485	78.704838	13.6404	83.379675	75.072999	13.1033
201	14	5	4	6	3	87.617307	81.451119	86.202485	79.511259	13.6404	83.379675	75.877996	13.1033
202	14	5	4	8	1	78.692232	76.942901	76.997095	75.342295	10.5808	73.820528	72.310744	10.8684
203	14	5	4	8	1	78.692232	72.14863	76.997095	70.390124	10.5808	73.820528	67.118229	10.8684
204	14	5	4	8	1	78.692232	78.900668	76.997095	77.174694	10.5808	73.820528	73.923956	10.8684
205	14	5	4	9	0	73.922035	74.706041	72.246372	72.978925	10.0071	69.120825	69.753677	10.3862
206	14	5	5	3	5	0	0	90.996032	34.146341	56.1425	93.846471	78.138383	24.6942
207	14	5	5	3	5	0	0	90.996032	34.146341	56.1425	93.846471	78.138383	24.6942
208	14	5	5	4	4	93.270933	83.998762	92.674825	84.362574	19.2041	90.748185	80.454615	16.2935
209	14	5	5	4	4	93.270933	83.998762	92.674825	82.215218	19.2041	90.748185	78.662794	16.2935
210	14	5	5	4	4	93.270933	83.998762	92.674825	82.215218	19.2041	90.748185	78.662794	16.2935
211	14	5	5	4	4	93.270933	83.998762	92.674825	82.215218	19.2041	90.748185	78.662794	16.2935
212	14	5	5	4	4	93.270933	83.998762	92.674825	84.139733	19.2041	90.748185	80.242055	16.2935
213	14	5	5	4	4	93.270933	83.998762	92.674825	82.215218	19.2041	90.748185	78.662794	16.2935
214	14	5	5	5	3	90.608382	80.195753	89.145261	78.260314	13.8806	86.226086	74.648825	13.3552
215	14	5	5	5	3	90.608382	80.986668	89.145261	79.057605	13.8806	86.226086	75.444703	13.3552
216	14	5	5	5	3	90.608382	80.195289	89.145261	78.27168	13.8806	86.226086	74.67608	13.3552
217	14	5	5	5	3	90.608382	83.998762	89.145261	82.254654	13.8806	86.226086	78.855239	13.3552
218	14	5	5	5	3	90.608382	81.827224	89.145261	80.953512	13.8806	86.226086	78.799237	13.3552
219	14	5	5	6	2	86.231558	78.981184	84.532769	77.081374	11.8416	81.307059	73.53815	11.9238
220	14	5	5	6	2	86.231558	83.803806	84.532769	81.804026	11.8416	81.307059	78.069068	11.9238
221	14	5	5	5	3	90.608382	74.669075	89.145261	72.865697	13.8806	86.226086	69.501323	13.3552
222	14	5	5	5	3	90.608382	74.674875	89.145261	72.875936	13.8806	86.226086	69.517447	13.3552
223	14	5	5	5	3	90.608382	84.388218	89.145261	82.380155	13.8806	86.226086	78.618228	13.3552
224	14	5	5	5	3	90.608382	74.668345	89.145261	72.886495	13.8806	86.226086	69.551042	13.3552
225	14	5	5	5	3	90.608382	81.12522	89.145261	79.152268	13.8806	86.226086	75.47869	13.3552
226	14	5	5	3	5	0	0	90.996032	34.146341	56.1425	93.846471	76.664982	24.6942
227	14	5	5	4	4	93.270933	82.258842	92.674825	84.139733	19.2041	90.748185	80.242055	16.2935
228	14	5	5	4	4	93.270933	82.258842	92.674825	80.390117	19.2041	90.748185	76.791473	16.2935
229	14	5	5	4	4	93.270933	82.258842	92.674825	80.530511	19.2041	90.748185	77.06966	16.2935
230	14	5	5	5	3	90.608382	79.769639	89.145261	77.844375	13.8806	86.226086	74.25193	13.3552
231	14	5	5	5	3	90.608382	79.776258	89.145261	77.856061	13.8806	86.226086	74.270333	13.3552
232	14	5	5	5	3	90.608382	80.55213	89.145261	78.633171	13.8806	86.226086	75.039322	13.3552

233	14	5	5	5	3	90.608382	80.946253	89.145261	79.140586	13.8806	86.226086	75.694733	13.3552
234	14	5	5	5	3	90.608382	81.383644	89.145261	80.508534	13.8806	86.226086	76.859315	13.3552
235	14	5	5	5	3	90.608382	81.863829	89.145261	79.888569	13.8806	86.226086	76.202547	13.3552
236	14	5	5	5	3	90.608382	83.048335	89.145261	81.071372	13.8806	86.226086	77.36812	13.3552
237	14	5	5	5	3	90.608382	80.660146	89.145261	78.850006	13.8806	86.226086	75.401628	13.3552
238	14	5	5	5	3	90.608382	82.225842	89.145261	80.227289	13.8806	86.226086	76.505435	13.3552
239	14	5	5	6	2	86.231558	73.714946	84.532769	71.940157	11.8416	81.307059	68.630648	11.9238
240	14	5	5	6	2	86.231558	73.72346	84.532769	71.951569	11.8416	81.307059	68.64644	11.9238
241	14	5	5	6	2	86.231558	76.954272	84.532769	75.08479	11.8416	81.307059	71.604238	11.9238
242	14	5	5	6	2	86.231558	77.012202	84.532769	75.13948	11.8416	81.307059	71.653498	11.9238
243	14	5	5	6	2	86.231558	73.713526	84.532769	71.949842	11.8416	81.307059	68.657391	11.9238
244	14	5	5	6	2	86.231558	77.064406	84.532769	75.188685	11.8416	81.307059	71.69769	11.9238
245	14	5	5	6	2	86.231558	80.595508	84.532769	79.057954	11.8416	81.307059	75.824129	11.9238
246	14	5	5	7	1	81.378623	72.69165	79.625617	70.946854	10.8209	76.34061	67.694806	11.1203
247	14	5	5	7	1	81.378623	76.018049	79.625617	74.164213	10.8209	76.34061	70.715161	11.1203
248	14	5	5	7	1	81.378623	81.153799	79.625617	79.375204	10.8209	76.34061	75.960343	11.1203
249	14	5	5	7	1	81.378623	72.69165	79.625617	70.946854	10.8209	76.34061	67.694806	11.1203
250	14	5	5	7	1	81.378623	74.344285	79.625617	72.699462	10.8209	76.34061	69.605482	11.1203
251	14	5	5	5	3	90.608382	80.337542	89.145261	78.398718	13.8806	86.226086	74.780893	13.3552
252	14	5	5	5	3	90.608382	81.426201	89.145261	79.515208	13.8806	86.226086	75.921102	13.3552
253	14	5	5	5	3	90.608382	78.820694	89.145261	77.052938	13.8806	86.226086	73.684696	13.3552
254	14	5	5	7	1	81.378623	79.376855	79.625617	77.474427	10.8209	76.34061	73.927976	11.1203
255	14	5	5	7	1	81.378623	80.55892	79.625617	78.604279	10.8209	76.34061	74.96558	11.1203
256	14	5	5	7	1	81.378623	79.576626	79.625617	77.663835	10.8209	76.34061	74.099248	11.1203
257	14	5	5	8	0	76.445582	73.998949	74.712715	72.287288	10.2472	71.480468	69.091016	10.638
258	14	5	5	6	2	86.231558	80.240212	84.532769	78.310548	11.8416	81.307059	74.711502	11.9238
259	14	5	5	6	2	86.231558	79.568204	84.532769	77.635483	11.8416	81.307059	74.037107	11.9238
260	14	5	5	6	2	86.231558	74.419476	84.532769	72.749588	11.8416	81.307059	69.596295	11.9238
261	14	5	5	8	0	76.445582	77.75132	74.712715	75.957835	10.2472	71.480468	72.608141	10.638
262	14	4	4	5	4	63.515641	82.448208	63.109703	80.451471	18.0314	61.7977	76.723985	15.8943
263	14	4	4	6	3	61.702496	81.160747	60.70614	79.20227	14.0591	58.718241	75.54766	13.7797
264	14	4	4	6	3	61.702496	81.932169	60.70614	79.94876	14.0591	58.718241	76.250937	13.7797
265	13	5	3	6	3	86.731205	71.886078	85.385932	70.150545	12.8764	82.680974	66.912412	12.302
266	13	5	3	7	2	82.227905	70.834548	80.637731	69.129883	10.8374	77.612705	65.950881	10.8706
267	13	5	3	7	2	82.227905	74.060693	80.637731	72.261767	10.8374	77.612705	68.912489	10.8706
268	13	5	3	7	2	82.227905	67.103534	80.637731	65.487509	10.8374	77.612705	62.474191	10.8706
269	13	5	3	7	2	82.227905	67.944432	80.637731	66.293507	10.8374	77.612705	63.219964	10.8706
270	13	5	3	7	2	82.227905	72.254791	80.637731	70.516418	10.8374	77.612705	67.274399	10.8706
271	13	5	3	7	2	82.227905	75.260642	80.637731	73.479239	10.8374	77.612705	70.14734	10.8706
272	13	5	3	7	2	82.227905	72.545269	80.637731	70.843967	10.8374	77.612705	67.656639	10.8706
273	13	5	3	8	1	77.255296	69.817467	75.608069	68.142589	9.8167	72.519468	65.020661	10.0671
274	13	5	3	8	1	77.255296	71.204084	75.608069	69.648454	9.8167	72.519468	66.718127	10.0671
275	13	5	3	6	3	86.731205	76.801171	85.385932	74.948274	12.8764	82.680974	71.490483	12.302
276	13	5	3	8	1	77.255296	73.184084	75.608069	71.668078	9.8167	72.519468	68.795415	10.0671
277	13	5	3	8	1	77.255296	68.520218	75.608069	66.850176	9.8167	72.519468	63.74287	10.0671
278	13	5	3	9	0	72.223951	71.00631	70.596357	69.36686	9.2431	67.559871	66.305051	9.5849
279	13	5	4	5	3	89.923929	71.147444	88.529135	69.429563	13.1165	85.724602	66.22446	12.5539
280	13	5	4	5	3	89.923929	71.153115	88.529135	69.439574	13.1165	85.724602	66.240224	12.5539
281	13	5	4	5	3	89.923929	80.682636	88.529135	78.764173	13.1165	85.724602	75.169349	12.5539
282	13	5	4	4	4	92.77282	82.49425	92.309612	80.4975	18.4401	90.575844	76.769002	15.4922
283	13	5	4	5	3	89.923929	76.143368	88.529135	74.306169	13.1165	85.724602	70.877762	12.5539
284	13	5	4	5	3	89.923929	76.149864	88.529135	74.317635	13.1165	85.724602	70.895821	12.5539
285	13	5	4	5	3	89.923929	76.911388	88.529135	75.080395	13.1165	85.724602	71.650638	12.5539
286	13	5	4	5	3	89.923929	78.199773	88.529135	76.31351	13.1165	85.724602	72.793256	12.5539
287	13	5	4	5	3	89.923929	79.364247	88.529135	77.476338	13.1165	85.724602	73.939186	12.5539

288	13	5	4	6	2	85.254855	70.214869	83.606144	68.524918	11.0776	80.469762	65.37342	11.1225
289	13	5	4	6	2	85.254855	70.223188	83.606144	68.536069	11.0776	80.469762	65.388852	11.1225
290	13	5	4	6	2	85.254855	73.383552	83.606144	71.601007	11.0776	80.469762	68.282248	11.1225
291	13	5	4	6	2	85.254855	73.440285	83.606144	71.654566	11.0776	80.469762	68.33049	11.1225
292	13	5	4	6	2	85.254855	76.748442	83.606144	75.311911	11.0776	80.469762	72.506856	11.1225
293	13	5	4	7	1	80.099196	69.215381	78.391332	67.554707	10.0569	75.189034	64.459306	10.319
294	13	5	4	7	1	80.099196	72.467007	78.391332	70.699777	10.0569	75.189034	67.411852	10.319
295	13	5	4	7	1	80.099196	74.150191	78.391332	72.343035	10.0569	75.189034	68.98059	10.319
296	13	5	4	7	1	80.099196	76.138984	78.391332	74.291759	10.0569	75.189034	70.852984	10.319
297	13	5	4	7	1	80.099196	69.215381	78.391332	67.554707	10.0569	75.189034	64.459306	10.319
298	13	5	4	5	3	89.923929	76.700727	88.529135	74.850226	13.1165	85.724602	71.396922	12.5539
299	13	5	4	5	3	89.923929	77.769792	88.529135	75.94666	13.1165	85.724602	72.516704	12.5539
300	13	5	4	7	1	80.099196	75.758008	78.391332	73.943205	10.0569	75.189034	70.559915	10.319
301	13	5	4	7	1	80.099196	74.888896	78.391332	73.06375	10.0569	75.189034	69.66783	10.319
302	13	5	4	7	1	80.099196	76.918054	78.391332	75.052029	10.0569	75.189034	71.578236	10.319
303	13	5	4	8	0	74.882639	70.492391	73.19513	68.864142	9.4832	70.046866	65.823336	9.8367
304	13	5	4	6	2	85.254855	76.605188	83.606144	74.763678	11.0776	80.469762	71.328806	11.1225
305	13	5	4	6	2	85.254855	75.945727	83.606144	74.101209	11.0776	80.469762	70.66698	11.1225
306	13	5	4	8	0	74.882639	74.164321	73.19513	72.456255	9.4832	70.046866	69.265758	9.8367
307	13	5	5	2	5	0	0	93.841899	31.707317	55.6187	97.367456	72.55707	24.1448
308	13	5	5	3	4	96.187946	77.998851	95.707687	85.130781	18.6803	93.910096	81.188626	15.744
309	13	5	5	3	4	96.187946	77.998851	95.707687	76.342703	18.6803	93.910096	73.044023	15.744
310	13	5	5	3	4	96.187946	77.998851	95.707687	82.459335	18.6803	93.910096	78.640357	15.744
311	13	5	5	3	4	96.187946	77.998851	95.707687	76.342703	18.6803	93.910096	73.044023	15.744
312	13	5	5	3	4	96.187946	77.998851	95.707687	76.342703	18.6803	93.910096	73.044023	15.744
313	13	5	5	3	4	96.187946	77.998851	95.707687	76.342703	18.6803	93.910096	73.044023	15.744
314	13	5	5	4	3	93.234183	80.282984	91.788044	78.347048	13.3567	88.880272	74.733788	12.8058
315	13	5	5	4	3	93.234183	80.290205	91.788044	78.359796	13.3567	88.880272	74.753865	12.8058
316	13	5	5	4	3	93.234183	83.261647	91.788044	81.283491	13.3567	88.880272	77.575953	12.8058
317	13	5	5	4	3	93.234183	77.998851	91.788044	76.379322	13.3567	88.880272	73.222722	12.8058
318	13	5	5	4	3	93.234183	77.998851	91.788044	76.379322	13.3567	88.880272	73.222722	12.8058
319	13	5	5	4	3	93.234183	77.998851	91.788044	76.379322	13.3567	88.880272	73.222722	12.8058
320	13	5	5	4	3	93.234183	82.246172	91.788044	80.263451	13.3567	88.880272	76.562582	12.8058
321	13	5	5	4	3	93.234183	77.998851	91.788044	76.379322	13.3567	88.880272	73.222722	12.8058
322	13	5	5	4	3	93.234183	77.998851	91.788044	76.379322	13.3567	88.880272	73.222722	12.8058
323	13	5	5	6	1	83.047785	77.831449	81.277051	75.967904	10.297	77.956871	72.493547	10.5709
324	13	5	5	6	1	83.047785	77.998851	81.277051	76.402043	10.297	77.956871	73.372306	10.5709
325	13	5	5	5	2	88.393233	69.340962	86.68383	67.671766	11.3177	83.431992	64.559066	11.3744
326	13	5	5	5	2	88.393233	78.696031	86.68383	76.785008	11.3177	83.431992	73.226861	11.3744
327	13	5	5	5	2	88.393233	69.349525	86.68383	67.686563	11.3177	83.431992	64.583364	11.3744
328	13	5	5	5	2	88.393233	78.761278	86.68383	76.846607	11.3177	83.431992	73.282346	11.3744
329	13	5	5	5	2	88.393233	75.854153	86.68383	74.011841	11.3177	83.431992	70.581727	11.3744
330	13	5	5	3	4	96.187946	76.52808	95.707687	79.157063	18.6803	93.910096	76.092312	15.744
331	13	5	5	3	4	96.187946	76.52808	95.707687	74.920649	18.6803	93.910096	71.701392	15.744
332	13	5	5	4	3	93.234183	82.246172	91.788044	80.263451	13.3567	88.880272	76.562582	12.8058
333	13	5	5	4	3	93.234183	80.369133	91.788044	78.523371	13.3567	88.880272	75.030435	12.8058
334	13	5	5	4	3	93.234183	76.383507	91.788044	74.672298	13.3567	88.880272	71.410759	12.8058
335	13	5	5	4	3	93.234183	76.384288	91.788044	74.67773	13.3567	88.880272	71.422481	12.8058
336	13	5	5	4	3	93.234183	76.383453	91.788044	74.682156	13.3567	88.880272	71.434044	12.8058
337	13	5	5	4	3	93.234183	77.980524	91.788044	76.083367	13.3567	88.880272	72.551275	12.8058
338	13	5	5	5	2	88.393233	74.077961	86.68383	72.296344	11.3177	83.431992	68.973472	11.3744
339	13	5	5	5	2	88.393233	77.950028	86.68383	76.080403	11.3177	83.431992	72.591699	11.3744
340	13	5	5	5	2	88.393233	75.165186	86.68383	73.49146	11.3177	83.431992	70.326545	11.3744
341	13	5	5	5	2	88.393233	77.185537	86.68383	75.310236	11.3177	83.431992	71.818915	11.3744
342	13	5	5	5	2	88.393233	77.213759	86.68383	75.338568	11.3177	83.431992	71.84719	11.3744

343	13	5	5	5	2	88.393233	76.022894	86.68383	74.195178	11.3177	83.431992	70.786104	11.3744
344	13	5	5	5	2	88.393233	81.124947	86.68383	79.155209	11.3177	83.431992	75.487651	11.3744
345	13	5	5	5	2	88.393233	74.899458	86.68383	73.231085	11.3177	83.431992	70.076486	11.3744
346	13	5	5	5	2	88.393233	76.933376	86.68383	75.064965	11.3177	83.431992	71.586221	11.3744
347	13	5	5	6	1	83.047785	68.458819	81.277051	66.816	10.297	77.956871	63.753942	10.5709
348	13	5	5	6	1	83.047785	71.638118	81.277051	69.891098	10.297	77.956871	66.640776	10.5709
349	13	5	5	6	1	83.047785	76.260627	81.277051	74.608333	10.297	77.956871	71.493029	10.5709
350	13	5	5	6	1	83.047785	75.920776	81.277051	74.096598	10.297	77.956871	70.696989	10.5709
351	13	5	5	7	0	77.639197	76.160744	75.889568	74.409489	9.7234	72.625412	71.137968	10.0886
352	13	5	5	7	0	77.639197	69.707813	75.889568	68.096682	9.7234	72.625412	65.087974	10.0886
353	13	5	5	5	2	88.393233	79.537073	86.68383	77.626153	11.3177	83.431992	74.061461	11.3744
354	13	5	5	5	2	88.393233	76.024614	86.68383	74.186411	11.3177	83.431992	70.761233	11.3744
355	13	5	5	5	2	88.393233	73.190645	86.68383	71.556796	11.3177	83.431992	68.468682	11.3744
356	13	5	5	7	0	77.639197	81.449622	75.889568	79.584662	9.7234	72.625412	76.099736	10.0886
357	13	5	5	6	1	83.047785	74.5197	81.277051	72.734031	10.297	77.956871	69.405166	10.5709
358	13	5	5	6	1	83.047785	78.587312	81.277051	76.741812	10.297	77.956871	73.293537	10.5709
359	13	4	3	6	3	60.482319	77.298904	59.544188	75.434131	13.2049	57.657876	71.954108	12.8838
360	13	4	4	4	4	65.815537	82.719329	65.486925	80.717173	17.348	64.256943	76.978543	15.1776
361	13	4	4	4	4	65.815537	82.49425	65.486925	80.4975	17.348	64.256943	76.769002	15.1776
362	13	4	4	5	3	63.794457	76.561549	62.804952	74.71437	13.3758	60.815342	71.267283	13.0631
363	13	4	4	5	3	63.794457	77.338071	62.804952	75.497171	13.3758	60.815342	72.048723	13.0631
364	13	4	4	6	2	60.48209	75.369922	59.312451	73.557679	11.9126	57.087416	70.177539	12.0847
365	12	5	2	7	2	80.898277	63.21644	79.367967	61.694427	10.0734	76.45039	58.856274	10.0693
366	12	5	3	5	3	89.131933	67.264466	87.8157	65.64074	12.3525	85.143223	62.611095	11.7526
367	12	5	3	5	3	89.131933	72.110312	87.8157	70.370913	12.3525	85.143223	67.124757	11.7526
368	12	5	3	5	3	89.131933	74.109741	87.8157	72.322666	12.3525	85.143223	68.987243	11.7526
369	12	5	3	6	2	84.129342	66.36173	82.537912	64.765027	10.3136	79.503807	61.787256	10.3212
370	12	5	3	6	2	84.129342	66.36978	82.537912	64.775818	10.3136	79.503807	61.802189	10.3212
371	12	5	3	6	2	84.129342	69.431363	82.537912	67.744992	10.3136	79.503807	64.605235	10.3212
372	12	5	3	7	1	78.631932	65.394856	76.975493	63.82646	9.2928	73.867465	60.902929	9.5177
373	12	5	3	7	1	78.631932	68.542788	76.975493	66.871262	9.2928	73.867465	63.761394	9.5177
374	12	5	3	7	1	78.631932	70.175032	76.975493	68.46479	9.2928	73.867465	65.282659	9.5177
375	12	5	3	7	1	78.631932	65.394856	76.975493	63.82646	9.2928	73.867465	60.902929	9.5177
376	12	5	3	7	1	78.631932	66.713127	76.975493	65.258165	9.2928	73.867465	62.51693	9.5177
377	12	5	3	5	3	89.131933	72.651951	87.8157	70.899634	12.3525	85.143223	67.629292	11.7526
378	12	5	3	7	1	78.631932	71.735941	76.975493	70.018294	9.2928	73.867465	66.815958	9.5177
379	12	5	3	7	1	78.631932	70.891973	76.975493	69.164272	9.2928	73.867465	65.949653	9.5177
380	12	5	3	8	0	73.099546	66.630312	71.463531	65.093337	8.7192	68.410629	62.222728	9.0354
381	12	5	3	6	2	84.129342	72.559092	82.537912	70.815512	10.3136	79.503807	67.563083	10.3212
382	12	5	3	6	2	84.129342	71.918295	82.537912	70.171783	10.3136	79.503807	66.919967	10.3212
383	12	5	3	8	0	73.099546	70.188743	71.463531	68.574651	8.7192	68.410629	65.559385	9.0354
384	12	5	4	5	2	87.489455	65.679805	85.834464	64.099287	10.5537	82.679177	61.151773	10.5731
385	12	5	4	5	2	87.489455	74.804682	85.834464	72.988393	10.5537	82.679177	69.606553	10.5731
386	12	5	4	5	2	87.489455	65.688128	85.834464	64.11367	10.5537	82.679177	61.175391	10.5731
387	12	5	4	5	2	87.489455	74.868551	85.834464	73.04869	10.5537	82.679177	69.660866	10.5731
388	12	5	4	3	4	95.877305	77.814552	95.555236	75.931389	17.9162	93.984765	72.414706	14.9427
389	12	5	4	4	3	92.691849	78.284393	91.323046	76.39787	12.5926	88.543831	72.876198	12.0045
390	12	5	4	4	3	92.691849	76.443427	91.323046	74.691139	12.5926	88.543831	71.373298	12.0045
391	12	5	4	5	2	87.489455	70.292189	85.834464	68.60229	10.5537	82.679177	65.450259	10.5731
392	12	5	4	5	2	87.489455	74.074667	85.834464	72.298878	10.5537	82.679177	68.984977	10.5731
393	12	5	4	5	2	87.489455	74.075223	85.834464	72.303726	10.5537	82.679177	68.996412	10.5731
394	12	5	4	5	2	87.489455	74.742394	85.834464	73.366881	10.5537	82.679177	70.672287	10.5731
395	12	5	4	5	2	87.489455	72.190738	85.834464	70.455877	10.5537	82.679177	67.219756	10.5731
396	12	5	4	5	2	87.489455	77.184401	85.834464	75.310601	10.5537	82.679177	71.82159	10.5731
397	12	5	4	6	1	81.77248	64.822687	80.049883	63.267782	9.533	76.817721	60.369449	9.7696

398	12	5	4	6	1	81.77248	67.914471	80.049883	66.258266	9.533	76.817721	63.176902	9.7696
399	12	5	4	6	1	81.77248	72.422993	80.049883	70.859548	9.533	76.817721	67.910565	9.7696
400	12	5	4	7	0	76.019131	72.325406	74.317773	70.665252	8.9593	71.14294	67.56355	9.2873
401	12	5	4	7	0	76.019131	66.036417	74.317773	64.512362	8.9593	71.14294	61.665981	9.2873
402	12	5	4	5	2	87.489455	75.628195	85.834464	73.812018	10.5537	82.679177	70.423788	10.5731
403	12	5	4	5	2	87.489455	72.192419	85.834464	70.447312	10.5537	82.679177	67.19546	10.5731
404	12	5	4	7	0	76.019131	77.502832	74.317773	75.731817	8.9593	71.14294	72.42199	9.2873
405	12	5	4	6	1	81.77248	70.723148	80.049883	69.029305	9.533	76.817721	65.871444	9.7696
406	12	5	4	6	1	81.77248	74.698267	80.049883	72.946111	9.533	76.817721	69.671821	9.7696
407	12	5	5	1	5	0	0	97.274761	29.268293	55.0948	101.64258	66.975757	23.5953
408	12	5	5	2	4	99.70663	71.998939	99.371698	81.523647	18.1564	97.738502	77.749153	15.1946
409	12	5	5	2	4	99.70663	71.998939	99.371698	70.470187	18.1564	97.738502	67.425252	15.1946
410	12	5	5	2	4	99.70663	71.998939	99.371698	70.470187	18.1564	97.738502	67.425252	15.1946
411	12	5	5	3	3	96.393948	80.533617	94.970475	78.593566	12.8328	92.080258	74.971618	12.2563
412	12	5	5	3	3	96.393948	71.998939	94.970475	70.503989	12.8328	92.080258	67.590205	12.2563
413	12	5	5	3	3	96.393948	80.080303	94.970475	78.151037	12.8328	92.080258	74.549295	12.2563
414	12	5	5	3	3	96.393948	78.162959	94.970475	76.336399	12.8328	92.080258	72.896901	12.2563
415	12	5	5	3	3	96.393948	71.998939	94.970475	70.503989	12.8328	92.080258	67.590205	12.2563
416	12	5	5	3	3	96.393948	71.998939	94.970475	70.503989	12.8328	92.080258	67.590205	12.2563
417	12	5	5	3	3	96.393948	71.998939	94.970475	70.503989	12.8328	92.080258	67.590205	12.2563
418	12	5	5	3	3	96.393948	71.998939	94.970475	70.503989	12.8328	92.080258	67.590205	12.2563
419	12	5	5	3	3	96.393948	71.998939	94.970475	70.503989	12.8328	92.080258	67.590205	12.2563
420	12	5	5	3	3	96.393948	71.998939	94.970475	70.503989	12.8328	92.080258	67.590205	12.2563
421	12	5	5	4	2	90.983771	74.114044	89.26268	72.333671	10.7938	85.981371	69.012421	10.8249
422	12	5	5	4	2	90.983771	77.206687	89.26268	75.332349	10.7938	85.981371	71.842334	10.8249
423	12	5	5	4	2	90.983771	71.998939	89.26268	70.517607	10.7938	85.981371	67.675842	10.8249
424	12	5	5	4	2	90.983771	71.998939	89.26268	70.517607	10.7938	85.981371	67.675842	10.8249
425	12	5	5	4	2	90.983771	71.998939	89.26268	70.517607	10.7938	85.981371	67.675842	10.8249
426	12	5	5	4	2	90.983771	75.926547	89.26268	74.103318	10.7938	85.981371	70.701895	10.8249
427	12	5	5	4	2	90.983771	71.998939	89.26268	70.517607	10.7938	85.981371	67.675842	10.8249
428	12	5	5	5	1	85.038461	73.024484	83.247063	71.27657	9.7731	79.885809	68.01768	10.0214
429	12	5	5	5	1	85.038461	74.67218	83.247063	73.066699	9.7731	79.885809	70.037058	10.0214
430	12	5	5	5	1	85.038461	71.998939	83.247063	70.524963	9.7731	79.885809	67.728283	10.0214
431	12	5	5	1	5	0	0	97.274761	29.268293	55.0948	101.64258	66.325411	23.5953
432	12	5	5	6	0	79.055324	74.568442	77.286014	72.860128	9.1995	73.984378	69.668029	9.5392
433	12	5	5	5	1	85.038461	64.015781	83.247063	62.47991	9.7731	79.885809	59.617124	10.0214
434	12	5	5	5	1	85.038461	72.844711	83.247063	71.068293	9.7731	79.885809	67.763269	10.0214
435	12	5	5	5	1	85.038461	70.226803	83.247063	68.539489	9.7731	79.885809	65.394935	10.0214
436	12	5	5	3	3	96.393948	81.056735	94.970475	79.104241	12.8328	92.080258	75.458979	12.2563
437	12	5	5	3	3	96.393948	75.345015	94.970475	74.029511	12.8328	92.080258	70.739686	12.2563
438	12	5	5	4	2	90.983771	75.926547	89.26268	74.103318	10.7938	85.981371	70.701895	10.8249
439	12	5	5	4	2	90.983771	76.27422	89.26268	74.495432	10.7938	85.981371	71.159617	10.8249
440	12	5	5	4	2	90.983771	76.058985	89.26268	74.206252	10.7938	85.981371	70.75853	10.8249
441	12	5	5	4	2	90.983771	74.199964	89.26268	72.519276	10.7938	85.981371	69.350946	10.8249
442	12	5	5	4	2	90.983771	71.998939	89.26268	70.517607	10.7938	85.981371	67.426258	10.8249
443	12	5	5	5	1	85.038461	71.955452	83.247063	70.232647	9.7731	79.885809	67.020674	10.0214
444	12	5	5	5	1	85.038461	74.241368	83.247063	72.643907	9.7731	79.885809	69.629665	10.0214
445	12	5	5	5	1	85.038461	71.489344	83.247063	69.772163	9.7731	79.885809	66.571848	10.0214
446	12	5	5	5	1	85.038461	70.185484	83.247063	68.504284	9.7731	79.885809	65.370042	10.0214
447	12	5	5	5	1	85.038461	76.289077	83.247063	74.501124	9.7731	79.885809	71.15962	10.0214
448	12	5	5	5	1	85.038461	71.228967	83.247063	69.517944	9.7731	79.885809	66.329127	10.0214
449	12	5	5	6	0	79.055324	71.431778	77.286014	69.790867	9.1995	73.984378	66.725276	9.5392
450	12	5	5	5	1	85.038461	76.672955	83.247063	75.122877	9.7731	79.885809	72.177703	10.0214
451	12	5	5	6	0	79.055324	77.031883	77.286014	75.270907	9.1995	73.984378	71.979935	9.5392
452	12	4	3	5	3	62.602614	72.516679	61.678147	70.767588	12.5216	59.801108	67.503286	12.1672

453	12	4	3	6	2	59.089	71.35902	57.971245	69.643852	11.0584	55.840214	66.444563	11.1888
454	12	4	3	6	2	59.089	72.052621	57.971245	70.313012	11.0584	55.840214	67.070706	11.1888
455	12	4	4	3	4	68.604215	83.196503	68.373761	81.184184	16.6647	67.250023	77.425334	14.4609
456	12	4	4	3	4	68.604215	80.502652	68.373761	78.554962	16.6647	67.250023	74.917308	14.4609
457	12	4	4	4	3	66.324888	76.358997	65.345453	74.518324	12.6925	63.356808	71.082531	12.3464
458	12	4	4	4	3	66.324888	76.366074	65.345453	74.530818	12.6925	63.356808	71.102208	12.3464
459	12	4	4	4	3	66.324888	79.281445	65.345453	77.399433	12.6925	63.356808	73.871255	12.3464
460	12	4	4	4	3	66.324888	78.284393	65.345453	76.39787	12.6925	63.356808	72.876198	12.3464
461	12	4	4	5	2	62.602358	70.678268	61.418143	68.979223	11.2293	59.160403	65.810087	11.368
462	12	4	4	5	2	62.602358	75.208093	61.418143	73.405612	11.2293	59.160403	70.041743	11.368
463	12	4	4	5	2	62.602358	75.179058	61.418143	73.492172	11.2293	59.160403	70.073965	11.368
464	12	4	4	6	1	58.511624	73.958667	57.279034	72.188822	10.544	54.966286	68.888953	10.863
465	11	5	2	6	2	82.818331	62.174759	81.293039	60.67925	9.5495	78.377162	57.89005	9.5199
466	11	5	2	6	2	82.818331	63.468885	81.293039	61.942693	9.5495	78.377162	59.096121	9.5199
467	11	5	2	7	1	76.932507	61.249184	75.335162	59.780758	8.5288	72.335527	57.043458	8.7164
468	11	5	2	7	1	76.932507	58.833661	75.335162	57.398895	8.5288	72.335527	54.729519	8.7164
469	11	5	3	5	2	86.433261	61.664133	84.841391	60.180736	9.7897	81.79824	57.414181	9.7718
470	11	5	3	5	2	86.433261	70.468141	84.841391	68.757359	9.7897	81.79824	65.571898	9.7718
471	11	5	3	4	3	92.054975	73.841163	90.77654	72.062339	11.8286	88.147859	68.741387	11.2032
472	11	5	3	5	2	86.433261	66.106911	84.841391	64.51823	9.7897	81.79824	61.554794	9.7718
473	11	5	3	5	2	86.433261	69.76161	84.841391	68.090015	9.7897	81.79824	64.970293	9.7718
474	11	5	3	5	2	86.433261	67.073389	84.841391	65.444658	9.7897	81.79824	62.412095	9.7718
475	11	5	3	5	2	86.433261	67.940046	84.841391	66.307987	9.7897	81.79824	63.263411	9.7718
476	11	5	3	5	2	86.433261	72.773958	84.841391	71.007465	9.7897	81.79824	67.718183	9.7718
477	11	5	3	6	1	80.290527	60.840197	78.623459	59.381407	8.769	75.492893	56.662106	8.9683
478	11	5	3	6	1	80.290527	63.814739	78.623459	62.258518	8.769	75.492893	59.363173	8.9683
479	11	5	3	6	1	80.290527	68.164476	78.623459	66.69809	8.769	75.492893	63.931105	8.9683
480	11	5	3	7	0	74.148035	68.070173	72.502116	66.51031	8.1953	69.429893	63.595655	8.486
481	11	5	3	7	0	74.148035	62.007094	72.502116	60.578013	8.1953	69.429893	57.908761	8.486
482	11	5	3	5	2	86.433261	71.26562	84.841391	69.554958	9.7897	81.79824	66.363327	9.7718
483	11	5	3	5	2	86.433261	67.941671	84.841391	66.299711	9.7897	81.79824	63.239935	9.7718
484	11	5	3	7	0	74.148035	73.082808	72.502116	71.416027	8.1953	69.429893	68.300599	8.486
485	11	5	3	6	1	80.290527	66.522796	78.623459	64.930318	8.769	75.492893	61.961271	8.9683
486	11	5	3	6	1	80.290527	70.365126	78.623459	68.716427	8.769	75.492893	65.635086	8.9683
487	11	5	4	5	1	83.79512	60.214923	82.055287	58.77087	9.0091	78.788076	56.079094	9.2201
488	11	5	4	5	1	83.79512	68.767544	82.055287	67.090561	9.0091	78.788076	63.970535	9.2201
489	11	5	4	5	1	83.79512	69.937969	82.055287	68.241959	9.0091	78.788076	65.084525	9.2201
490	11	5	4	3	3	96.073074	76.778303	94.738837	74.929641	12.0688	91.995417	71.477826	11.455
491	11	5	4	3	3	96.073074	71.612303	94.738837	69.973069	12.0688	91.995417	66.868034	11.455
492	11	5	4	4	2	90.205978	71.76752	88.544625	70.045006	10.0298	85.368644	66.831197	10.0236
493	11	5	4	4	2	90.205978	73.980633	88.544625	72.238154	10.0298	85.368644	68.976195	10.0236
494	11	5	4	4	2	90.205978	72.106435	88.544625	70.427259	10.0298	85.368644	67.277444	10.0236
495	11	5	4	4	2	90.205978	71.896611	88.544625	70.145339	10.0298	85.368644	66.886402	10.0236
496	11	5	4	4	2	90.205978	70.085864	88.544625	68.50208	10.0298	85.368644	65.515169	10.0236
497	11	5	4	4	2	90.205978	72.33341	88.544625	70.569202	10.0298	85.368644	67.286947	10.0236
498	11	5	4	5	1	83.79512	67.903313	82.055287	66.278423	9.0091	78.788076	63.248813	9.2201
499	11	5	4	5	1	83.79512	70.126163	82.055287	68.623402	9.0091	78.788076	65.786555	9.2201
500	11	5	4	5	1	83.79512	70.27119	82.055287	68.757657	9.0091	78.788076	65.902091	9.2201
501	11	5	4	5	1	83.79512	66.185034	82.055287	64.60049	9.0091	78.788076	61.646267	9.2201
502	11	5	4	5	1	83.79512	72.120919	82.055287	70.432809	9.0091	78.788076	67.277447	9.2201
503	11	5	4	5	1	83.79512	68.359676	82.055287	66.701724	9.0091	78.788076	63.615187	9.2201
504	11	5	4	6	0	77.384516	67.394673	75.666754	65.849301	8.4355	72.460432	62.961849	8.7379
505	11	5	4	5	1	83.79512	72.495243	82.055287	71.039188	9.0091	78.788076	68.270651	9.2201
506	11	5	4	6	0	77.384516	72.845346	75.666754	71.183605	8.4355	72.460432	68.077645	8.7379
507	11	5	5	0	5	0	0	101.49404	26.829268	54.5709	106.937641	61.394444	23.0459

508	11	5	5	1	4	104.031391	65.999027	103.883154	74.73001	17.6325	102.464692	71.270057	14.6452
509	11	5	5	1	4	104.031391	65.999027	103.883154	64.597672	17.6325	102.464692	61.806481	14.6452
510	11	5	5	2	3	100.266558	78.511628	98.874084	76.621786	12.3089	96.010917	73.092787	11.7069
511	11	5	5	2	3	100.266558	76.907778	98.874084	75.155872	12.3089	96.010917	71.832776	11.7069
512	11	5	5	2	3	100.266558	76.907778	98.874084	75.155872	12.3089	96.010917	71.832776	11.7069
513	11	5	5	2	3	100.266558	65.999027	98.874084	64.628657	12.3089	96.010917	61.957688	11.7069
514	11	5	5	2	3	100.266558	65.999027	98.874084	64.628657	12.3089	96.010917	61.957688	11.7069
515	11	5	5	3	2	94.143371	73.829706	92.409501	72.058522	10.27	89.094892	68.753634	10.2755
516	11	5	5	3	2	94.143371	77.016892	92.409501	75.328696	10.27	89.094892	72.127339	10.2755
517	11	5	5	3	2	94.143371	65.999027	92.409501	64.64114	10.27	89.094892	62.036188	10.2755
518	11	5	5	3	2	94.143371	73.414087	92.409501	71.652708	10.27	89.094892	68.366171	10.2755
519	11	5	5	3	2	94.143371	74.607963	92.409501	72.797172	10.27	89.094892	69.425331	10.2755
520	11	5	5	3	2	94.143371	65.999027	92.409501	64.64114	10.27	89.094892	62.036188	10.2755
521	11	5	5	3	2	94.143371	65.999027	92.409501	64.64114	10.27	89.094892	62.036188	10.2755
522	11	5	5	3	2	94.143371	65.999027	92.409501	64.64114	10.27	89.094892	62.036188	10.2755
523	11	5	5	4	1	87.452686	67.948614	85.636911	66.322662	9.2493	82.227089	63.291065	9.472
524	11	5	5	4	1	87.452686	70.982229	85.636911	69.251247	9.2493	82.227089	66.030754	9.472
525	11	5	5	4	1	87.452686	72.22994	85.636911	70.478681	9.2493	82.227089	67.218319	9.472
526	11	5	5	4	1	87.452686	65.999027	85.636911	64.647883	9.2493	82.227089	62.084259	9.472
527	11	5	5	4	1	87.452686	75.648798	85.636911	73.842541	9.2493	82.227089	70.473931	9.472
528	11	5	5	4	1	87.452686	73.791617	85.636911	71.993442	9.2493	82.227089	68.647658	9.472
529	11	5	5	4	1	87.452686	65.999027	85.636911	64.647883	9.2493	82.227089	62.084259	9.472
530	11	5	5	5	0	80.762266	69.520446	78.969525	67.929537	8.6756	75.623251	64.956597	8.9897
531	11	5	5	1	4	104.031391	65.358166	103.883154	63.775418	17.6325	102.464692	60.82067	14.6452
532	11	5	5	1	4	104.031391	65.358166	103.883154	63.968407	17.6325	102.464692	61.202342	14.6452
533	11	5	5	5	0	80.762266	72.723036	78.969525	71.063893	8.6756	75.623251	67.962812	8.9897
534	11	5	5	3	2	94.143371	75.514434	92.409501	73.703523	10.27	89.094892	70.324279	10.2755
535	11	5	5	3	2	94.143371	74.48485	92.409501	72.73092	10.27	89.094892	69.447384	10.2755
536	11	5	5	3	2	94.143371	75.532739	92.409501	73.699614	10.27	89.094892	70.286151	10.2755
537	11	5	5	4	1	87.452686	74.399632	85.636911	72.62257	9.2493	82.227089	69.308542	9.472
538	11	5	5	4	1	87.452686	69.931654	85.636911	68.292697	9.2493	82.227089	65.229652	9.472
539	11	5	5	4	1	87.452686	65.999027	85.636911	64.647883	9.2493	82.227089	62.045583	9.472
540	11	5	5	5	0	80.762266	69.113117	78.969525	67.530919	8.6756	75.623251	64.574333	8.9897
541	11	5	5	5	0	80.762266	78.528456	78.969525	76.74676	8.6756	75.623251	73.415384	8.9897
542	11	5	5	5	0	80.762266	73.410544	78.969525	71.736811	8.6756	75.623251	68.608322	8.9897
543	11	4	3	4	3	65.204451	71.973726	64.298909	70.239342	11.8382	62.43696	67.001643	11.4505
544	11	4	3	4	3	65.204451	73.841163	64.298909	72.062339	11.8382	62.43696	68.741387	11.4505
545	11	4	3	5	2	61.222474	66.47948	60.09492	64.88198	10.3751	57.939393	61.902048	10.4721
546	11	4	3	5	2	61.222474	70.858738	60.09492	69.161332	10.3751	57.939393	65.993281	10.4721
547	11	4	3	5	2	61.222474	67.456963	60.09492	65.818959	10.3751	57.939393	62.769117	10.4721
548	11	4	3	6	1	56.871448	69.649377	55.690629	67.983531	9.6898	53.473185	64.877382	9.9671
549	11	4	4	2	4	72.052651	79.215595	71.949981	77.300186	15.9814	70.967547	73.721799	13.7443
550	11	4	4	3	3	69.445109	76.266392	68.480675	74.429897	12.0091	66.497631	71.000883	11.6297
551	11	4	4	3	3	69.445109	77.134975	68.480675	75.270483	12.0091	66.497631	71.792912	11.6297
552	11	4	4	3	3	69.445109	75.822968	68.480675	73.997015	12.0091	66.497631	70.587754	11.6297
553	11	4	4	3	3	69.445109	73.949284	68.480675	72.223619	12.0091	66.497631	68.972812	11.6297
554	11	4	4	3	3	69.445109	74.650673	68.480675	72.879913	12.0091	66.497631	69.559593	11.6297
555	11	4	4	4	2	65.20416	70.002242	64.003273	68.321427	10.546	61.707558	65.18564	10.6513
556	11	4	4	4	2	65.20416	73.015889	64.003273	71.243552	10.546	61.707558	67.943379	10.6513
557	11	4	4	4	2	65.20416	73.082275	64.003273	71.306227	10.546	61.707558	67.999834	10.6513
558	11	4	4	4	2	65.20416	71.76752	64.003273	70.045006	10.546	61.707558	66.831197	10.6513
559	11	4	4	4	2	65.20416	72.33341	64.003273	70.569202	10.546	61.707558	67.286947	10.6513
560	11	4	4	5	1	60.570159	68.942334	59.312544	67.293067	9.8607	56.950885	64.217903	10.1463
561	11	4	4	5	1	60.570159	70.545557	59.312544	69.035061	9.8607	56.950885	66.18335	10.1463
562	11	4	4	6	0	55.936341	70.444554	54.69468	68.833911	9.5168	52.377034	65.823915	9.8835

563	10	5	2	5	2	85.182645	57.313401	83.664858	55.935094	9.0256	80.753496	53.364393	8.9705
564	10	5	2	5	2	85.182645	61.54199	83.664858	60.063543	9.0256	80.753496	57.305557	8.9705
565	10	5	2	5	2	85.182645	63.290733	83.664858	61.770936	9.0256	80.753496	58.935594	8.9705
566	10	5	2	6	1	78.547591	56.530686	76.945262	55.175742	8.0049	73.933226	52.649911	8.167
567	10	5	2	6	1	78.547591	59.358619	76.945262	57.911073	8.0049	73.933226	55.217915	8.167
568	10	5	2	5	2	85.182645	63.09471	83.664858	61.579546	9.0256	80.753496	58.752872	8.9705
569	10	5	2	6	1	78.547591	62.237602	76.945262	60.748526	8.0049	73.933226	57.972089	8.167
570	10	5	2	6	1	78.547591	57.950112	76.945262	56.587068	8.0049	73.933226	54.04071	8.167
571	10	5	2	7	0	71.963412	57.639341	70.381783	56.312669	7.4313	67.428598	53.834478	7.6847
572	10	5	3	5	1	82.327084	56.066347	80.647655	54.722339	8.2451	77.490689	52.216933	8.4188
573	10	5	3	5	1	82.327084	64.250701	80.647655	62.683874	8.2451	77.490689	59.768791	8.4188
574	10	5	3	3	3	95.689434	71.967926	94.461617	70.235788	11.3047	91.893711	67.001176	10.6537
575	10	5	3	4	2	89.281399	67.1349	87.69058	65.524332	9.2658	84.639132	62.519139	9.2223
576	10	5	3	4	2	89.281399	69.267089	87.69058	67.637365	9.2658	84.639132	64.585908	9.2223
577	10	5	3	4	2	89.281399	67.461175	87.69058	65.892346	9.2658	84.639132	62.948793	9.2223
578	10	5	3	5	1	82.327084	63.421118	80.647655	61.904286	8.2451	77.490689	59.075979	8.4188
579	10	5	3	5	1	82.327084	65.556022	80.647655	64.156709	8.2451	77.490689	61.513989	8.4188
580	10	5	3	5	1	82.327084	61.773444	80.647655	60.295259	8.2451	77.490689	57.539175	8.4188
581	10	5	3	5	1	82.327084	67.475121	80.647655	65.89769	8.2451	77.490689	62.948796	8.4188
582	10	5	3	6	0	75.426093	62.93314	73.768361	61.492574	7.6714	70.673076	58.800631	7.9366
583	10	5	3	5	1	82.327084	67.835593	80.647655	66.481721	8.2451	77.490689	63.905669	8.418
584	10	5	3	6	0	75.426093	68.172838	73.768361	66.620859	7.6714	70.673076	63.719659	7.9366
585	10	5	4	5	0	79.055388	68.266841	77.317891	66.712876	7.9116	74.073669	63.807943	8.1884
586	10	5	4	3	2	93.577374	70.975995	91.910009	69.274905	9.5059	88.711733	66.100266	9.4742
587	10	5	4	3	2	93.577374	69.975956	91.910009	68.330172	9.5059	88.711733	65.248437	9.4742
588	10	5	4	3	2	93.577374	70.993783	91.910009	69.271107	9.5059	88.711733	66.063213	9.4742
589	10	5	4	4	1	86.288437	69.893225	84.528198	68.224979	8.4852	81.219327	65.11363	8.6707
590	10	5	4	4	1	86.288437	65.564472	84.528198	64.029827	8.4852	81.219327	61.161315	8.6707
591	10	5	4	4	1	86.288437	66.16034	84.528198	64.556315	8.4852	81.219327	61.570047	8.6707
592	10	5	4	5	0	79.055388	64.773318	77.317891	63.293474	7.9116	74.073669	60.527778	8.1884
593	10	5	4	5	0	79.055388	73.908846	77.317891	72.236409	7.9116	74.073669	69.10877	8.1884
594	10	5	4	5	0	79.055388	68.933463	77.317891	67.36542	7.9116	74.073669	64.434035	8.1884
595	10	5	5	0	4	109.469426	59.999116	109.568073	67.936373	17.1086	108.438751	64.79096	14.0957
596	10	5	5	1	3	105.119604	79.440253	103.770785	77.530927	11.785	100.949814	73.964038	11.1574
597	10	5	5	1	3	105.119604	69.916161	103.770785	68.32352	11.785	100.949814	65.302523	11.1574
598	10	5	5	1	3	105.119604	59.999116	103.770785	58.753325	11.785	100.949814	56.325171	11.1574
599	10	5	5	2	2	98.080059	73.217682	96.332465	71.463844	9.7461	92.980297	68.190442	9.7261
600	10	5	5	2	2	98.080059	72.624597	96.332465	70.862558	9.7461	92.980297	67.581295	9.7261
601	10	5	5	2	2	98.080059	70.015356	96.332465	68.480633	9.7461	92.980297	65.570308	9.7261
602	10	5	5	2	2	98.080059	70.015356	96.332465	68.480633	9.7461	92.980297	65.570308	9.7261
603	10	5	5	3	1	90.440398	72.065991	88.595462	70.347054	8.7254	85.127377	67.140917	8.9226
604	10	5	5	3	1	90.440398	59.999116	88.595462	58.770803	8.7254	85.127377	56.440236	8.9226
605	10	5	5	3	1	90.440398	70.937089	88.595462	69.24448	8.7254	85.127377	66.087578	8.9226
606	10	5	5	3	1	90.440398	71.786067	88.595462	70.036874	8.7254	85.127377	66.782206	8.9226
607	10	5	5	3	1	90.440398	59.999116	88.595462	58.770803	8.7254	85.127377	56.440236	8.9226
608	10	5	5	4	0	82.859315	70.674782	81.038214	69.070068	8.1517	77.63789	66.06976	8.4403
609	10	5	5	4	0	82.859315	76.739501	81.038214	75.008198	8.1517	77.63789	71.769832	8.4403
610	10	5	5	1	3	105.119604	65.33694	103.770785	63.762458	11.785	100.949814	60.823274	11.1574
611	10	5	5	1	3	105.119604	60.545932	103.770785	59.157503	11.785	100.949814	56.528906	11.1574
612	10	5	5	1	3	105.119604	59.416514	103.770785	58.18072	11.785	100.949814	55.773275	11.1574
613	10	5	5	3	1	90.440398	68.66155	88.595462	67.02207	8.7254	85.127377	63.964506	8.9226
614	10	5	5	3	1	90.440398	59.999116	88.595462	58.770803	8.7254	85.127377	56.440236	8.9226
615	10	5	5	4	0	82.859315	76.194238	81.038214	74.474245	8.1517	77.63789	71.257155	8.4403
616	10	4	2	5	2	59.606703	61.897218	58.544629	60.410369	9.5209	56.507398	57.636664	9.5762
617	10	4	3	3	3	68.469785	71.04497	67.591231	69.334752	11.1549	65.753787	66.141229	10.7338

618	10	4	3	4	2	63.884569	65.436903	62.746272	63.866407	9.6918	60.562833	60.936205	9.7554
619	10	4	3	4	2	63.884569	68.337152	62.746272	66.67862	9.6918	60.562833	63.590277	9.7554
620	10	4	3	4	2	63.884569	67.1349	62.746272	65.524332	9.6918	60.562833	62.519139	9.7554
621	10	4	3	5	1	58.908466	64.418554	57.706765	62.878346	9.0065	55.447824	60.006351	9.2504
622	10	4	3	5	1	58.908466	65.959252	57.706765	64.552571	9.0065	55.447824	61.895676	9.2504
623	10	4	3	6	0	53.970519	65.86213	52.784342	64.359123	8.6626	50.569537	61.549922	8.9876
624	10	4	4	1	4	76.420339	72.014177	76.489204	70.272896	15.298	75.700827	67.019817	13.0276
625	10	4	4	2	3	73.383739	73.892449	72.442132	72.114627	11.3258	70.472818	68.794373	10.9131
626	10	4	4	2	3	73.383739	72.330827	72.442132	70.687213	11.3258	70.472818	67.567331	10.9131
627	10	4	4	2	3	73.383739	72.330827	72.442132	70.687213	11.3258	70.472818	67.567331	10.9131
628	10	4	4	3	2	68.469449	69.340093	67.249458	67.677534	9.8626	64.909318	64.575028	9.9347
629	10	4	4	3	2	68.469449	70.127253	67.249458	68.437035	9.8626	64.909318	65.285826	9.9347
630	10	4	4	3	2	68.469449	72.436997	67.249458	70.855398	9.8626	64.909318	67.854052	9.9347
631	10	4	4	3	2	68.469449	68.936899	67.249458	67.283842	9.8626	64.909318	64.199122	9.9347
632	10	4	4	3	2	68.469449	73.03238	67.249458	71.270365	9.8626	64.909318	67.985886	9.9347
633	10	4	4	3	2	68.469449	70.095488	67.249458	68.394498	9.8626	64.909318	65.227024	9.9347
634	10	4	4	3	2	68.469449	67.266254	67.249458	65.726843	9.8626	64.909318	62.830194	9.9347
635	10	4	4	3	2	68.469449	68.745049	67.249458	67.068417	9.8626	64.909318	63.949077	9.9347
636	10	4	4	3	2	68.469449	68.780299	67.249458	67.102752	9.8626	64.909318	63.981727	9.9347
637	10	4	4	4	1	63.136221	63.648769	61.848275	62.1266	9.1773	59.427214	59.28832	9.4297
638	10	4	4	4	1	63.136221	66.580753	61.848275	64.957115	9.1773	59.427214	61.936333	9.4297
639	10	4	4	4	1	63.136221	67.788977	61.848275	66.145709	9.1773	59.427214	63.086331	9.4297
640	10	4	4	4	1	63.136221	71.106571	61.848275	69.410009	9.1773	59.427214	66.245713	9.4297
641	10	4	4	4	1	63.136221	69.303136	61.848275	67.614389	9.1773	59.427214	64.472199	9.4297
642	10	4	4	4	1	63.136221	66.16034	61.848275	64.556315	9.1773	59.427214	61.570047	9.4297
643	10	4	4	5	0	57.843886	65.166948	56.572579	63.678723	8.8335	54.198821	60.897288	9.1668
644	10	4	4	1	4	76.420339	61.151395	76.489204	59.67083	15.298	75.700827	56.906566	13.0276
645	10	3	3	3	3	44.47243	71.473276	43.901792	69.752885	11.5334	42.708338	66.540293	11.3938
646	9	5	2	5	1	80.5677	51.589628	78.959968	50.353418	7.4811	75.933971	48.04886	7.6175
647	9	5	2	5	1	80.5677	59.314372	78.959968	57.867929	7.4811	75.933971	55.17682	7.6175
648	9	5	2	4	2	88.164217	62.04869	86.657927	60.56081	8.5018	83.755966	57.78432	8.421
649	9	5	2	5	1	80.5677	58.529069	78.959968	57.129944	7.4811	75.933971	54.520965	7.6175
650	9	5	2	5	1	80.5677	56.378812	78.959968	55.003944	7.4811	75.933971	52.446003	7.6175
651	9	5	2	5	1	80.5677	56.970889	78.959968	55.608275	7.4811	75.933971	53.067536	7.6175
652	9	5	2	5	1	80.5677	62.371648	78.959968	60.915237	7.4811	75.933971	58.192221	7.6175
653	9	5	2	6	0	73.099646	58.067382	71.512662	56.740393	6.9074	68.548292	54.260414	7.1353
654	9	5	2	4	2	88.164217	60.915135	86.657927	59.453979	8.5018	83.755966	56.72751	8.421
655	9	5	2	5	1	80.5677	56.794411	78.959968	55.435934	7.4811	75.933971	52.902928	7.6175
656	9	5	2	5	1	80.5677	60.226093	78.959968	58.817626	7.4811	75.933971	56.184703	7.6175
657	9	5	2	6	0	73.099646	72.603885	71.512662	70.972703	6.9074	68.548292	67.92077	7.1353
658	9	5	3	5	0	77.018117	63.306656	75.346065	61.868735	7.1475	72.22279	59.18034	7.3871
659	9	5	3	3	2	92.890218	65.898413	91.303184	64.3199	8.7419	88.245665	61.373728	8.6729
660	9	5	3	3	2	92.890218	64.940981	91.303184	63.41538	8.7419	88.245665	60.558101	8.6729
661	9	5	3	3	2	92.890218	65.915451	91.303184	64.316262	8.7419	88.245665	61.338236	8.6729
662	9	5	3	4	1	84.886493	64.861813	83.192579	63.314713	7.7212	80.004376	60.429084	7.8694
663	9	5	3	4	1	84.886493	60.727609	83.192579	59.307921	7.7212	80.004376	56.653917	7.8694
664	9	5	3	4	1	84.886493	63.871783	83.192579	62.315419	7.7212	80.004376	59.419543	7.8694
665	9	5	3	5	0	77.018117	59.973731	75.346065	58.60621	7.1475	72.22279	56.050101	7.3871
666	9	5	3	5	0	77.018117	68.711235	75.346065	67.160411	7.1475	72.22279	64.259705	7.3871
667	9	5	3	5	0	77.018117	63.943811	75.346065	62.492499	7.1475	72.22279	59.778932	7.3871
668	9	5	4	3	1	89.436794	63.890002	87.652078	62.365566	7.9614	84.292973	59.52232	8.1213
669	9	5	4	4	0	81.146637	71.163847	79.384955	69.562299	7.3877	76.094259	66.566145	7.639
670	9	5	5	0	3	111.37123	72.122964	110.086171	70.389731	11.2612	107.332568	67.151693	10.608
671	9	5	5	1	2	103.115806	71.50451	101.354066	69.794367	9.2222	97.959969	66.601638	9.1766
672	9	5	5	1	2	103.115806	72.550283	101.354066	70.879178	9.2222	97.959969	67.738363	9.1766

673	9	5	5	1	2	103.115806	63.01382	101.354066	61.63257	9.2222	97.959969	59.013277	9.1766
674	9	5	5	2	1	94.231011	65.908265	92.350627	64.336778	8.2015	88.811458	61.40554	8.3731
675	9	5	5	2	1	94.231011	66.039629	92.350627	64.430493	8.2015	88.811458	61.436416	8.3731
676	9	5	5	2	1	94.231011	53.999204	92.350627	52.893722	8.2015	88.811458	50.796212	8.3731
677	9	5	5	3	0	85.496464	67.842557	83.640348	66.309774	7.6278	80.173256	63.443009	7.8909
678	9	5	5	3	0	85.496464	67.413922	83.640348	65.890057	7.6278	80.173256	63.040066	7.8909
679	9	5	5	1	2	103.115806	59.295844	101.354066	58.54535	9.2222	97.959969	56.956104	9.1766
680	9	5	5	1	2	103.115806	59.086994	101.354066	57.711108	9.2222	97.959969	55.130174	9.1766
681	9	5	5	1	2	103.115806	53.999204	101.354066	52.888205	9.2222	97.959969	50.756881	9.1766
682	9	5	5	3	0	85.496464	69.047528	83.640348	67.489729	7.6278	80.173256	64.575902	7.8909
683	9	4	2	4	2	62.307948	60.438166	61.243413	58.988259	8.8376	59.192522	56.282845	8.8596
684	9	4	2	4	2	62.307948	62.04869	61.243413	60.56081	8.8376	59.192522	57.78432	8.8596
685	9	4	2	5	1	56.939291	59.473329	55.803065	58.052097	8.1523	53.664515	55.401798	8.3546
686	9	4	2	5	1	56.939291	56.710094	55.803065	55.327149	8.1523	53.664515	52.75418	8.3546
687	9	4	3	3	2	67.295938	63.947097	66.146184	62.414498	9.0084	63.931111	59.554296	9.0388
688	9	4	3	3	2	67.295938	67.869869	66.146184	66.23299	9.0084	63.931111	63.181579	9.0388
689	9	4	3	3	2	67.295938	65.055375	66.146184	63.476944	9.0084	63.931111	60.537607	9.0388
690	9	4	3	4	1	61.4975	58.903078	60.270315	57.495195	8.3231	57.960565	54.869847	8.5338
691	9	4	3	4	1	61.4975	61.696785	60.270315	60.192255	8.3231	57.960565	57.393073	8.5338
692	9	4	3	4	1	61.4975	66.023489	60.270315	64.449317	8.3231	57.960565	61.51306	8.5338
693	9	4	3	4	1	61.4975	64.297307	60.270315	62.730584	8.3231	57.960565	59.815432	8.5338
694	9	4	3	5	0	55.797118	60.348748	54.58577	58.973277	7.9793	52.32306	56.402231	8.271
695	9	4	4	0	4	82.119772	64.81276	82.42784	63.245607	14.6147	81.916756	60.317836	12.3109
696	9	4	4	1	3	78.502238	74.315089	77.596438	72.529986	10.6425	75.655506	69.194619	10.1964
697	9	4	4	1	3	78.502238	65.097745	77.596438	63.618491	10.6425	75.655506	60.810598	10.1964
698	9	4	4	2	2	72.683237	68.283095	71.44144	66.648539	9.1793	69.049042	63.59741	9.218
699	9	4	4	2	2	72.683237	67.710111	71.44144	66.06762	9.1793	69.049042	63.008876	9.218
700	9	4	4	2	2	72.683237	65.193297	71.44144	63.769858	9.1793	69.049042	61.068647	9.218
701	9	4	4	2	2	72.683237	65.193297	71.44144	63.769858	9.1793	69.049042	61.068647	9.218
702	9	4	4	3	1	66.420612	67.170747	65.095185	65.569861	8.494	62.600531	62.583639	8.713
703	9	4	4	3	1	66.420612	65.241179	65.095185	63.851896	8.494	62.600531	61.227425	8.713
704	9	4	4	3	1	66.420612	66.081638	65.095185	64.506112	8.494	62.600531	61.567321	8.713
705	9	4	4	3	1	66.420612	63.289381	65.095185	61.746022	8.494	62.600531	58.874595	8.713
706	9	4	4	3	1	66.420612	66.900576	65.095185	65.270483	8.494	62.600531	62.237407	8.713
707	9	4	4	3	1	66.420612	62.298891	65.095185	60.788905	8.494	62.600531	57.977623	8.713
708	9	4	4	4	0	60.263892	65.828751	58.955571	64.33795	8.1502	56.511722	61.550138	8.4502
709	9	4	4	4	0	60.263892	71.692482	58.955571	70.080042	8.1502	56.511722	67.063389	8.4502
710	9	4	4	1	3	78.502238	60.696813	77.596438	59.23472	10.6425	75.655506	56.50504	10.1964
711	9	4	4	1	3	78.502238	56.113555	77.596438	54.829209	10.6425	75.655506	52.396339	10.1964
712	9	4	4	1	3	78.502238	55.241613	77.596438	53.972367	10.6425	75.655506	51.57074	10.1964
713	9	3	3	2	3	47.969983	68.695489	47.416481	67.043453	10.5865	46.230445	63.957723	10.4008
714	9	3	3	3	2	44.414194	64.332653	43.655375	62.790978	9.7797	42.193465	59.913783	9.9444
715	9	3	3	3	2	44.414194	65.085777	43.655375	63.517656	9.7797	42.193465	60.593887	9.9444
716	8	5	2	5	0	74.545199	57.862542	72.951848	56.551022	6.3835	69.974092	54.09861	6.5858
717	8	5	2	3	2	92.038366	60.30117	90.550283	58.857508	7.9779	87.666522	56.162767	7.8716
718	8	5	2	4	1	83.166052	59.325138	81.552694	57.911025	6.9572	78.511212	55.273247	7.0681
719	8	5	2	4	1	83.166052	55.441465	81.552694	54.146878	6.9572	78.511212	51.726418	7.0681
720	8	5	2	5	0	74.545199	54.734815	72.951848	53.489079	6.3835	69.974092	51.160315	6.5858
721	8	5	2	5	0	74.545199	65.973311	72.951848	64.493928	6.3835	69.974092	61.72566	6.5858
722	8	5	2	4	1	83.166052	58.259736	81.552694	56.870439	6.9572	78.511212	54.279073	7.0681
723	8	5	2	5	0	74.545199	65.70732	72.951848	64.233379	6.3835	69.974092	61.47536	6.5858
724	8	5	3	3	1	88.197935	58.587347	86.486963	57.190417	7.1973	83.261459	54.584776	7.32
725	8	5	3	4	0	79.055485	65.493324	77.36573	64.023765	6.6237	74.207808	61.273997	6.8377
726	8	5	4	3	0	83.838662	65.486686	82.04667	64.017263	6.8638	78.697681	61.267751	7.0896
727	8	5	5	0	2	109.775618	73.155955	108.000758	71.411549	8.6983	104.561251	68.153123	8.6272

728	8	5	5	1	1	99.193469	69.182383	97.269192	67.539674	7.6776	93.641568	64.474147	7.8237
729	8	5	5	1	1	99.193469	47.999293	97.269192	47.016642	7.6776	93.641568	45.152188	7.8237
730	8	5	5	2	0	88.911241	68.070989	87.010826	66.548832	7.104	83.459209	63.7	7.3414
731	8	5	5	1	1	99.193469	56.870616	97.269192	55.747728	7.6776	93.641568	53.608629	7.8237
732	8	5	5	1	1	99.193469	47.999293	97.269192	47.016642	7.6776	93.641568	45.152188	7.8237
733	8	4	2	3	2	65.857293	58.464618	64.792508	57.064124	8.1542	62.729057	54.450226	8.1429
734	8	4	2	4	1	59.508782	53.73205	58.354358	52.448452	7.4689	56.178051	50.054719	7.6379
735	8	4	2	4	1	59.508782	56.350624	58.354358	54.976472	7.4689	56.178051	52.419856	7.6379
736	8	4	2	4	1	59.508782	60.419	58.354358	58.97943	7.4689	56.178051	56.294036	7.6379
737	8	4	2	5	0	53.340202	55.086279	52.200093	53.833122	7.1251	50.069384	51.490412	7.3751
738	8	4	3	3	1	64.894389	60.662903	63.635488	59.21766	7.6398	61.262222	56.521654	7.8171
739	8	4	3	3	1	64.894389	58.019324	63.635488	56.604487	7.6398	61.262222	53.972175	7.8171
740	8	4	3	3	1	64.894389	61.439623	63.635488	59.94264	7.6398	61.262222	57.15723	7.8171
741	8	4	3	4	0	58.167546	60.42318	56.924256	59.058239	7.296	54.600716	56.505362	7.5543
742	8	4	3	4	0	58.167546	65.997169	56.924256	64.517298	7.296	54.600716	61.748111	7.5543
743	8	4	3	1	3	78.317481	55.571335	77.540556	54.23321	9.7882	75.812023	51.734711	9.3005
744	8	4	4	0	3	85.405294	66.659959	84.558057	65.058962	9.9591	82.673089	62.067469	9.4797
745	8	4	4	1	2	78.317	66.065811	77.050765	64.486977	8.496	74.596925	61.538986	8.5013
746	8	4	4	1	2	78.317	67.070721	77.050765	65.529478	8.496	74.596925	62.631512	8.5013
747	8	4	4	1	2	78.317	57.949598	77.050765	56.684319	8.496	74.596925	54.283242	8.5013
748	8	4	4	2	1	70.767398	60.707873	69.394565	59.261584	7.8107	66.806517	56.563622	7.9963
749	8	4	4	2	1	70.767398	60.833265	69.394565	59.351042	7.8107	66.806517	56.593096	7.9963
750	8	4	4	3	0	63.431769	62.556063	62.07596	61.146925	7.4668	59.542137	58.510891	7.7335
751	8	4	4	3	0	63.431769	62.14617	62.07596	60.745504	7.4668	59.542137	58.125414	7.7335
752	8	4	4	1	2	78.317	54.419368	77.050765	53.751591	8.496	74.596925	52.327424	8.5013
753	8	4	4	1	2	78.317	54.221491	77.050765	52.960842	8.496	74.596925	50.595425	8.5013
754	8	4	4	1	2	78.317	49.164806	77.050765	48.072242	8.496	74.596925	46.005519	8.5013
755	8	3	2	3	2	42.775567	58.827245	42.083968	57.418223	8.7933	40.743718	54.788356	8.9099
756	8	3	3	1	3	52.731236	68.500716	52.208131	66.856215	9.6396	51.044308	63.783062	9.4077
757	8	3	3	2	2	48.354756	62.752302	47.572953	61.251103	8.8328	46.057894	58.448587	8.9513
758	8	3	3	2	2	48.354756	62.208045	47.572953	60.699298	8.8328	46.057894	57.88953	8.9513
759	8	3	3	3	1	43.693455	61.696004	42.845835	60.226743	8.5424	41.247914	57.485808	8.8011
760	7	5	1	4	1	81.005192	41.490828	79.491679	40.497213	6.1932	76.632306	38.644778	6.2668
761	7	5	2	3	1	86.630298	52.773705	85.011685	51.516244	6.4333	81.953753	49.170567	6.5187
762	7	5	2	3	1	86.630298	57.769599	85.011685	56.432126	6.4333	81.953753	53.929073	6.5187
763	7	5	2	4	0	76.44585	71.329711	74.844869	69.763348	5.8596	71.850927	66.82832	6.0364
764	7	5	2	4	0	76.44585	68.741464	74.844869	67.225861	5.8596	71.850927	64.386681	6.0364
765	7	5	3	3	0	81.754349	60.153725	80.042193	58.809823	6.0998	76.840348	56.29446	6.2883
766	7	5	5	0	1	105.959685	72.376319	103.979919	70.66692	-	100.239686	67.475011	-
767	7	5	5	1	0	93.502832	63.906652	91.544632	62.487094	-	87.882666	59.829126	-
768	7	5	5	1	0	93.502832	52.237435	91.544632	51.056279	-	87.882666	48.84728	-
769	7	4	2	3	1	62.98352	54.700375	61.806727	53.39813	6.7856	59.583494	50.968678	6.9212
770	7	4	2	3	1	62.98352	52.247129	61.806727	50.973058	6.7856	59.583494	48.60264	6.9212
771	7	4	2	4	0	55.57904	54.477643	54.415065	53.249997	6.4418	52.238356	50.953537	6.6584
772	7	4	2	4	0	55.57904	73.149512	54.415065	71.547736	6.4418	52.238356	68.545801	6.6584
773	7	4	3	3	0	61.363804	56.265612	60.078681	55.001108	6.6126	57.675416	52.635276	6.8376
774	7	4	3	1	2	78.080027	59.622873	76.909777	59.076278	7.6418	74.622958	57.821858	7.6054
775	7	4	3	1	2	78.080027	48.87445	76.909777	47.739803	7.6418	74.622958	45.610245	7.6054
776	7	4	4	0	2	86.206735	66.934015	84.914683	65.339639	7.8126	82.389847	62.360905	7.7847
777	7	4	4	1	1	76.776694	63.141811	75.342187	61.64429	-	72.632074	58.849334	7.2797
778	7	4	4	2	0	67.750658	62.0845	66.331777	60.701555	6.7835	63.678375	58.112614	7.0168
779	7	4	4	1	1	76.776694	51.510215	75.342187	50.501616	7.1273	72.632074	48.57846	7.2797
780	7	3	2	2	2	46.887255	56.643964	46.184517	55.289731	7.8465	44.811276	52.761299	7.9169
781	7	3	2	3	1	41.75832	55.66087	40.978102	54.336329	7.556	39.50409	51.865161	7.7667
782	7	3	2	3	1	41.75832	52.578144	40.978102	51.296002	7.556	39.50409	48.910569	7.7667

783	7	3	3	0	3	59.553697	60.504842	59.087057	59.052518	8.6928	57.977273	56.338379	8.4147
784	7	3	3	1	2	53.939192	59.94561	53.130761	58.514128	7.886	51.550982	55.840911	7.9583
785	7	3	3	1	2	53.939192	60.891683	53.130761	59.495663	7.886	51.550982	56.869669	7.9583
786	7	3	3	2	1	48.038855	54.91929	47.14129	53.611962	7.5955	45.445584	51.172999	7.8081
787	7	3	3	2	1	48.038855	57.421347	47.14129	56.021127	7.5955	45.445584	53.416002	7.8081
788	7	3	3	2	1	48.038855	55.036578	47.14129	53.695639	7.5955	45.445584	51.200569	7.8081
789	7	3	3	3	0	42.391302	56.649691	41.503515	55.377298	7.5317	39.843292	52.996613	7.8146
790	6	5	1	4	0	73.099845	45.455329	71.611027	44.428757	5.0956	68.824448	42.508707	5.2351
791	6	5	2	3	0	79.055647	62.547202	77.445528	61.177208	5.3358	74.431912	58.609708	5.487
792	6	5	5	0	0	99.995907	99.995907	97.959299	97.955158	-	94.147437	94.113749	-
793	6	4	1	3	1	60.522935	41.915467	59.44987	40.914997	5.9314	57.416529	39.049082	6.0254
794	6	4	1	3	1	60.522935	41.212568	59.44987	40.228515	5.9314	57.416529	38.393294	6.0254
795	6	4	1	3	1	60.522935	40.055456	59.44987	39.098455	5.9314	57.416529	37.313806	6.0254
796	6	4	2	3	0	58.711009	49.791096	57.515248	48.675199	5.7584	55.277173	46.587022	5.9418
797	6	4	3	1	1	76.252871	56.44748	74.900916	55.418292	6.2731	72.339109	53.440324	6.3838
798	6	4	3	1	1	76.252871	42.000153	74.900916	41.05332	6.2731	72.339109	39.276029	6.3838
799	6	4	4	0	1	85.590253	65.258598	84.072747	63.719925	-	81.19724	60.846257	6.563
800	6	4	4	1	0	73.970026	57.273794	72.463485	56.007269	6.1002	69.643734	53.635144	6.3002
801	6	4	4	1	0	73.970026	46.429312	72.463485	45.382543	6.1002	69.643734	43.424496	6.3002
802	6	3	2	2	1	46.291697	48.562027	45.470951	47.40693	6.6091	43.915726	45.251782	6.7736
803	6	3	2	2	1	46.291697	50.847699	45.470951	49.607786	6.6091	43.915726	47.300913	6.7736
804	6	3	2	3	0	40.006869	50.142074	39.192053	49.019012	6.5453	37.666984	46.91734	6.7801
805	6	3	3	0	2	62.400982	59.843359	61.564062	58.419354	6.9391	59.907439	55.758431	6.9652
806	6	3	3	1	1	54.512279	56.315444	53.545782	54.981361	6.6486	51.714377	52.491119	6.8151
807	6	3	3	1	1	54.512279	52.360256	53.545782	51.203776	6.6486	51.714377	49.027978	6.8151
808	6	3	3	2	0	47.111377	55.33488	46.151864	54.106957	6.5848	44.35597	51.807653	6.8215
809	6	2	2	1	2	30.861132	53.160348	30.447223	51.891836	7.6684	29.627921	49.522644	7.8403
810	5	4	1	3	0	55.188644	46.978799	54.10914	45.938249	4.9042	52.086234	43.989568	5.0459
811	5	4	1	3	0	55.188644	45.925324	54.10914	44.905795	4.9042	52.086234	42.996763	5.0459
812	5	4	1	3	0	55.188644	44.217239	54.10914	43.232019	4.9042	52.086234	41.387671	5.0459
813	5	4	3	1	0	72.820422	50.187284	71.396036	49.083368	5.246	68.726847	47.015087	5.4043
814	5	4	4	0	0	83.647877	90.534367	82.011703	88.718018	5.4168	78.945641	85.295529	5.5835
815	5	3	1	2	1	43.951909	41.659752	43.231433	40.669575	5.6228	41.860054	38.821971	5.7392
816	5	3	1	2	1	43.951909	40.907094	43.231433	39.934345	5.6228	41.860054	38.119361	5.7392
817	5	3	1	2	1	43.951909	40.249356	43.231433	39.291853	5.6228	41.860054	37.505396	5.7392
818	5	3	1	2	1	43.951909	39.473581	43.231433	38.534076	5.6228	41.860054	36.781295	5.7392
819	5	3	1	2	1	43.951909	38.797203	43.231433	37.873404	5.6228	41.860054	36.150009	5.7392
820	5	3	2	2	0	44.887454	47.835784	44.009444	46.778212	5.5985	42.364121	44.797416	5.7871
821	5	3	3	0	1	65.066389	57.06261	63.999796	55.719469	5.7018	61.969607	53.210499	5.822
822	5	3	3	1	0	54.615317	49.78042	53.547027	48.684484	5.638	51.545135	46.631273	5.8285
823	5	2	2	0	2	38.662881	51.891276	38.229797	50.657747	6.2188	37.352795	48.352336	6.3201
824	5	2	2	1	1	32.874391	48.715723	32.335501	47.562974	6.4217	31.309761	45.41094	6.6208
825	5	2	2	1	1	32.874391	45.450482	32.335501	44.342197	6.4217	31.309761	42.280216	6.6208
826	4	3	1	2	0	41.746853	48.015948	40.980838	46.982382	4.6121	39.542797	45.043229	4.7526
827	4	3	1	2	0	41.746853	46.464492	40.980838	45.460009	4.6121	39.542797	43.575934	4.7526
828	4	3	1	2	0	41.746853	45.708367	40.980838	44.718163	4.6121	39.542797	42.861117	4.7526
829	4	3	1	2	0	41.746853	43.117227	40.980838	42.176474	4.6121	39.542797	40.412972	4.7526
830	4	3	1	2	0	41.746853	42.968003	40.980838	42.030122	4.6121	39.542797	40.272051	4.7526
831	4	3	3	0	0	68.170651	78.571892	66.919786	77.024527	4.6911	64.571532	74.105707	4.8355
832	4	2	1	1	1	31.301307	40.362105	30.851111	39.408074	5.2137	29.98763	37.626799	5.3539
833	4	2	2	0	1	44.26619	47.780243	43.629523	46.657493	4.9721	42.408392	44.559808	5.1006
834	4	2	2	0	1	44.26619	41.83914	43.629523	40.884364	4.9721	42.408392	39.094618	5.1006
835	4	2	2	1	0	35.564715	41.435896	34.912137	40.527661	5.2798	33.68705	38.82562	5.4684
836	3	2	1	1	0	34.198959	41.484421	33.640593	40.60957	4.0718	32.589216	38.966086	4.2015
837	3	2	2	0	0	54.286575	63.826598	53.400238	62.594665	3.8303	51.731309	60.268164	3.9481

838	3	1	1	0	1	22.89391	37.414321	22.641526	36.536624	2.2619	22.149419	34.896471	2.3425
839	2	1	1	0	0	44.720261	46.009865	44.171526	45.140957	1.31542	43.13205	43.498016	1.3959

Table of Criteria Values for SCDs

Dsgn	p	dv	l	c	q	$r_s = 1, n_0 = 0$		$r_s = 1, n_0 = 1$			$r_s = 1, n_0 = 3$		
						D	G	D	G	IV	D	G	IV
1	21	5	5	10	5	0	0	80.020924	77.777778	43.3044	73.103883	74.115582	23.4557
2	20	5	5	9	5	0	0	81.231772	74.074074	42.7653	75.246222	71.860974	22.8768
3	20	5	5	10	4	82.494566	93.662931	80.89652	90.20846	21.2419	71.490139	70.58674	18.5471
4	19	5	4	10	4	81.663206	91.014857	80.157921	87.658375	20.4679	70.534967	68.304322	17.7158
5	19	5	5	8	5	0	0	82.591406	70.37037	42.2263	77.687188	69.401557	22.2978
6	19	5	5	8	5	0	0	82.591406	70.37037	42.2263	77.687188	71.491712	22.2978
7	19	5	5	9	4	83.776888	90.398298	82.232642	87.064457	20.7028	73.610606	68.26839	17.9682
8	19	5	5	9	4	83.776888	90.398298	82.232642	87.380476	20.7028	73.610606	68.565603	17.9682
9	19	5	5	10	3	81.832001	88.982037	79.520543	85.70909	16.3285	68.412433	67.057969	16.0023
10	18	5	4	9	4	82.957008	87.631144	81.514485	84.399674	19.9288	72.690795	65.900071	17.1368
11	18	5	4	10	3	80.925483	86.226834	78.679343	83.055732	15.5545	67.283272	64.709914	15.171
12	18	5	5	7	5	0	0	84.128818	66.666667	41.6872	80.492353	73.294356	21.7188
13	18	5	5	7	5	0	0	84.128818	66.666667	41.6872	80.492353	66.751445	21.7188
14	18	5	5	7	5	0	0	84.128818	66.666667	41.6872	80.492353	76.724508	21.7188
15	18	5	5	8	4	85.225081	86.893466	83.743119	83.689082	20.1638	76.040527	65.749298	17.3892
16	18	5	5	8	4	85.225081	86.893466	83.743119	83.699787	20.1638	76.040527	65.748909	17.3892
17	18	5	5	8	4	85.225081	87.484174	83.743119	84.258101	20.1638	76.040527	67.729473	17.3892
18	18	5	5	8	4	85.225081	87.484174	83.743119	87.51276	20.1638	76.040527	70.011328	17.3892
19	18	5	5	8	4	85.225081	87.484174	83.743119	84.525217	20.1638	76.040527	67.816575	17.3892
20	18	5	5	9	3	83.138014	85.642695	80.830463	82.492925	15.7894	70.383814	64.675873	15.4234
21	18	5	5	9	3	83.138014	85.648481	80.830463	82.504559	15.7894	70.383814	64.67835	15.4234
22	18	5	5	9	3	83.138014	89.287086	80.830463	87.165707	15.7894	70.383814	67.11335	15.4234
23	18	5	5	10	2	79.816159	84.304384	77.288027	81.211663	14.0014	64.657251	63.53101	14.3561
24	17	5	4	8	4	84.427295	84.002184	83.057832	80.904739	19.3898	75.178317	63.292382	16.5578
25	17	5	4	8	4	84.427295	84.586804	83.057832	81.467897	19.3898	75.178317	65.236398	16.5578
26	17	5	4	9	3	82.239734	82.764925	80.002244	79.721491	15.0154	69.27004	62.239501	14.592
27	17	5	4	9	3	82.239734	82.770646	80.002244	79.732996	15.0154	69.27004	62.24193	14.592
28	17	5	4	9	3	82.239734	83.440184	80.002244	80.409307	15.0154	69.27004	62.621574	14.592
29	17	5	4	10	2	78.764619	81.442001	76.294714	78.454943	13.2274	63.31723	61.117278	13.5247
30	17	5	5	6	5	0	0	85.880993	62.962963	41.1482	83.747572	73.686295	21.1398
31	17	5	5	6	5	0	0	85.880993	62.962963	41.1482	83.747572	70.40122	21.1398
32	17	5	5	7	4	86.873295	87.98437	85.464156	84.740771	19.6247	78.851365	69.222981	16.8102
33	17	5	5	7	4	86.873295	87.98437	85.464156	84.752392	19.6247	78.851365	69.222525	16.8102
34	17	5	5	7	4	86.873295	87.98437	85.464156	87.277697	19.6247	78.851365	69.564712	16.8102
35	17	5	5	7	4	86.873295	83.166639	85.464156	80.099867	19.6247	78.851365	63.043474	16.8102
36	17	5	5	7	4	86.873295	83.166639	85.464156	80.39885	19.6247	78.851365	63.326791	16.8102
37	17	5	5	7	4	86.873295	89.928075	85.464156	86.613161	19.6247	78.851365	72.46262	16.8102
38	17	5	5	7	4	86.873295	89.928075	85.464156	86.625302	19.6247	78.851365	72.46212	16.8102
39	17	5	5	7	4	86.873295	89.928075	85.464156	86.912105	19.6247	78.851365	72.568205	16.8102
40	17	5	5	8	3	84.622357	82.068193	82.320043	79.050196	15.2504	72.654423	62.097102	14.8444
41	17	5	5	8	3	84.622357	86.153665	82.320043	83.594848	15.2504	72.654423	64.360034	14.8444
42	17	5	5	8	3	84.622357	82.067803	82.320043	79.063052	15.2504	72.654423	62.097441	14.8444
43	17	5	5	8	3	84.622357	86.357766	82.320043	83.593593	15.2504	72.654423	64.420634	14.8444
44	17	5	5	6	5	0	0	85.880993	62.962963	41.1482	83.747572	73.474619	21.1398
45	17	5	5	8	3	84.622357	82.626113	82.320043	79.587747	15.2504	72.654423	63.9673	14.8444
46	17	5	5	8	3	84.622357	88.006138	82.320043	85.271605	15.2504	72.654423	67.072277	14.8444
47	17	5	5	8	3	84.622357	82.862646	82.320043	79.914555	15.2504	72.654423	64.096298	14.8444
48	17	5	5	9	2	81.046563	80.890239	78.5051	77.92322	13.4623	66.410771	61.085125	13.7771

49	17	5	5	9	2	81.046563	85.45032	78.5051	82.327715	13.4623	66.410771	63.675903	13.7771
50	17	5	5	9	2	81.046563	85.256436	78.5051	82.644623	13.4623	66.410771	63.399678	13.7771
51	17	5	5	10	1	77.085929	84.035972	74.50005	80.963481	12.5488	60.448447	62.696962	13.1467
52	16	5	3	9	3	81.240764	79.569361	79.080636	76.643888	14.2414	68.038097	59.599216	13.7607
53	16	5	4	7	4	86.112538	84.906936	84.829052	81.777157	18.8507	78.078673	66.552771	15.9789
54	16	5	4	7	4	86.112538	80.146523	84.829052	77.191429	18.8507	78.078673	60.495442	15.9789
55	16	5	4	7	4	86.112538	86.831258	84.829052	83.630892	18.8507	78.078673	69.737664	15.9789
56	16	5	4	8	3	83.743795	79.062991	81.517113	76.155999	14.4764	71.575364	59.569832	14.013
57	16	5	4	8	3	83.743795	83.096456	81.517113	80.643675	14.4764	71.575364	61.784024	14.013
58	16	5	4	8	3	83.743795	79.61325	81.517113	76.686175	14.4764	71.575364	61.399526	14.013
59	16	5	4	8	3	83.743795	84.928475	81.517113	82.302492	14.4764	71.575364	64.441951	14.013
60	16	5	4	8	3	83.743795	79.846589	81.517113	77.008584	14.4764	71.575364	61.525808	14.013
61	16	5	4	9	2	79.98899	77.901791	77.50917	75.045035	12.6883	65.058053	58.580656	12.9457
62	16	5	4	9	2	79.98899	82.401388	77.50917	79.391202	12.6883	65.058053	61.1143	12.9457
63	16	5	4	10	1	75.842171	81.004537	73.314597	78.043812	11.7748	58.870043	60.156469	12.3154
64	16	5	5	5	5	0	0	87.895847	59.259259	40.6091	87.567314	70.610321	20.5608
65	16	5	5	6	4	88.765667	89.664654	87.442637	86.360382	19.0857	82.137945	69.352377	16.2312
66	16	5	5	6	4	88.765667	89.664654	87.442637	86.72985	19.0857	82.137945	69.716941	16.2312
67	16	5	5	5	5	0	0	87.895847	59.259259	40.6091	87.567314	69.531064	20.5608
68	16	5	5	5	5	0	0	87.895847	59.259259	40.6091	87.567314	70.170383	20.5608
69	16	5	5	5	5	0	0	87.895847	59.259259	40.6091	87.567314	76.525996	20.5608
70	16	5	5	6	4	88.765667	84.000609	87.442637	80.904081	19.0857	82.137945	66.260492	16.2312
71	16	5	5	6	4	88.765667	84.000609	87.442637	80.915336	19.0857	82.137945	66.260048	16.2312
72	16	5	5	6	4	88.765667	84.000609	87.442637	80.942225	19.0857	82.137945	68.178041	16.2312
73	16	5	5	6	4	88.765667	84.000609	87.442637	83.362071	19.0857	82.137945	66.593197	16.2312
74	16	5	5	7	3	86.323943	82.811135	84.028657	79.767388	14.7113	75.296532	65.151676	14.2654
75	16	5	5	7	3	86.323943	85.702095	84.028657	82.594641	14.7113	75.296532	65.596812	14.2654
76	16	5	5	7	3	86.323943	82.810714	84.028657	79.781296	14.7113	75.296532	65.152072	14.2654
77	16	5	5	7	3	86.323943	85.791833	84.028657	82.670083	14.7113	75.296532	65.624643	14.2654
78	16	5	5	7	3	86.323943	78.276554	84.028657	75.398268	14.7113	75.296532	59.335561	14.2654
79	16	5	5	7	3	86.323943	78.918335	84.028657	76.051987	14.7113	75.296532	59.704545	14.2654
80	16	5	5	7	3	86.323943	79.598084	84.028657	77.943102	14.7113	75.296532	60.908087	14.2654
81	16	5	5	5	5	0	0	87.895847	59.259259	40.6091	87.567314	72.817205	20.5608
82	16	5	5	7	3	86.323943	84.640609	84.028657	81.530145	14.7113	75.296532	68.200809	14.2654
83	16	5	5	7	3	86.323943	87.489396	84.028657	84.345497	14.7113	75.296532	68.672925	14.2654
84	16	5	5	7	3	86.323943	84.640168	84.028657	81.544675	14.7113	75.296532	71.925978	14.2654
85	16	5	5	7	3	86.323943	87.45315	84.028657	84.325268	14.7113	75.296532	68.660667	14.2654
86	16	5	5	7	3	86.323943	88.99505	84.028657	85.707623	14.7113	75.296532	69.397163	14.2654
87	16	5	5	8	2	82.453453	77.245953	79.89723	74.41301	12.9233	68.440389	58.446623	13.1981
88	16	5	5	8	2	82.453453	81.667463	79.89723	78.678485	12.9233	68.440389	60.927139	13.1981
89	16	5	5	8	2	82.453453	81.127601	79.89723	78.68977	12.9233	68.440389	60.583152	13.1981
90	16	5	5	8	2	82.453453	81.657063	79.89723	78.679895	12.9233	68.440389	61.009623	13.1981
91	16	5	5	8	2	82.453453	81.309454	79.89723	78.845232	12.9233	68.440389	60.64289	13.1981
92	16	5	5	6	4	88.765667	84.577349	87.442637	85.94915	19.0857	82.137945	70.35255	16.2312
93	16	5	5	6	4	88.765667	84.577349	87.442637	81.60304	19.0857	82.137945	69.193174	16.2312
94	16	5	5	8	2	82.453453	83.31117	79.89723	80.258162	12.9233	68.440389	63.61294	13.1981
95	16	5	5	8	2	82.453453	78.03756	79.89723	75.231463	12.9233	68.440389	60.3377	13.1981
96	16	5	5	8	2	82.453453	82.869368	79.89723	80.608753	12.9233	68.440389	63.145323	13.1981
97	16	5	5	8	2	82.453453	79.849819	79.89723	76.892618	12.9233	68.440389	61.150806	13.1981
98	16	5	5	9	1	78.178871	80.424794	75.573422	77.484979	12.0098	61.930668	60.123374	12.5677
99	16	5	5	9	1	78.178871	81.492848	75.573422	78.746567	12.0098	61.930668	60.001115	12.5677
100	16	5	5	10	0	73.827497	80.976213	71.261035	78.123532	11.4967	55.885154	59.138611	12.1826
101	15	5	3	8	3	82.759113	75.737804	80.616589	72.953517	13.7024	70.371792	56.83674	13.1817
102	15	5	3	8	3	82.759113	76.276497	80.616589	73.472555	13.7024	70.371792	58.614403	13.1817

103	15	5	3	9	2	78.807081	74.60155	76.395716	71.866404	11.9143	63.558251	55.8765	12.1144
104	15	5	3	9	2	78.807081	75.266705	76.395716	72.498182	11.9143	63.558251	56.28608	12.1144
105	15	5	4	6	4	88.063181	80.77532	86.882139	77.798047	18.3117	81.501242	63.478968	15.3999
106	15	5	4	7	3	85.481677	79.602536	83.26867	76.67729	13.9373	74.280949	62.393844	13.4341
107	15	5	4	7	3	85.481677	82.454416	83.26867	79.466405	13.9373	74.280949	62.829374	13.4341
108	15	5	4	7	3	85.481677	75.139399	83.26867	72.376948	13.9373	74.280949	56.71499	13.4341
109	15	5	4	7	3	85.481677	75.770318	83.26867	73.019618	13.9373	74.280949	57.074619	13.4341
110	15	5	4	7	3	85.481677	81.406692	83.26867	78.41568	13.9373	74.280949	65.379742	13.4341
111	15	5	4	7	3	85.481677	84.220085	83.26867	81.19616	13.9373	74.280949	65.842605	13.4341
112	15	5	4	7	3	85.481677	81.666996	83.26867	78.775406	13.9373	74.280949	65.532515	13.4341
113	15	5	4	8	2	81.399634	74.126761	78.908941	71.408847	12.1493	67.088916	55.848949	12.3668
114	15	5	4	8	2	81.399634	78.475715	78.908941	75.604412	12.1493	67.088916	58.266842	12.3668
115	15	5	4	8	2	81.399634	77.944082	78.908941	75.615527	12.1493	67.088916	57.931303	12.3668
116	15	5	4	6	4	88.063181	85.94917	86.882139	82.782177	18.3117	81.501242	67.490483	15.3999
117	15	5	4	8	2	81.399634	80.09545	78.908941	77.161085	12.1493	67.088916	60.889301	12.3668
118	15	5	4	8	2	81.399634	74.904514	78.908941	72.213005	12.1493	67.088916	57.691926	12.3668
119	15	5	4	8	2	81.399634	79.659931	78.908941	77.506781	12.1493	67.088916	60.432379	12.3668
120	15	5	4	8	2	81.399634	76.686475	78.908941	73.846432	12.1493	67.088916	58.485056	12.3668
121	15	5	4	9	1	76.906261	77.25225	74.362287	74.429321	11.2358	60.304578	57.482935	11.7364
122	15	5	4	9	1	76.906261	78.303742	74.362287	75.67147	11.2358	60.304578	57.363734	11.7364
123	15	5	4	10	0	72.348972	77.795033	69.844891	75.057911	10.7226	54.046431	56.523069	11.3513
124	15	5	5	4	5	0	0	90.236554	55.555556	40.07	92.10739	74.588606	19.9819
125	15	5	5	4	5	0	0	90.236554	55.555556	40.07	92.10739	76.707656	19.9819
126	15	5	5	5	4	90.960237	85.372143	89.740341	82.226304	18.5466	86.028641	66.19773	15.6522
127	15	5	5	5	4	90.960237	85.372143	89.740341	82.238705	18.5466	86.028641	66.197257	15.6522
128	15	5	5	5	4	90.960237	85.372143	89.740341	82.583598	18.5466	86.028641	66.55206	15.6522
129	15	5	5	6	3	88.293808	84.063159	86.007998	80.975355	14.1723	78.407261	65.018528	13.6864
130	15	5	5	6	3	88.293808	84.062696	86.007998	80.990643	14.1723	78.407261	65.018949	13.6864
131	15	5	5	5	4	90.960237	79.789248	89.740341	76.848146	18.5466	86.028641	65.185909	15.6522
132	15	5	5	5	4	90.960237	79.789248	89.740341	76.871426	18.5466	86.028641	65.186799	15.6522
133	15	5	5	5	4	90.960237	79.789248	89.740341	82.360192	18.5466	86.028641	69.613153	15.6522
134	15	5	5	4	5	0	0	90.236554	55.555556	40.07	92.10739	74.420406	19.9819
135	15	5	5	5	4	90.960237	84.914418	89.740341	81.78536	18.5466	86.028641	65.785281	15.6522
136	15	5	5	5	4	90.960237	84.914418	89.740341	81.811728	18.5466	86.028641	65.786187	15.6522
137	15	5	5	5	4	90.960237	84.914418	89.740341	82.138824	18.5466	86.028641	66.135198	15.6522
138	15	5	5	5	4	90.960237	86.338848	89.740341	84.359364	18.5466	86.028641	71.743771	15.6522
139	15	5	5	5	4	90.960237	86.338848	89.740341	83.316976	18.5466	86.028641	72.617465	15.6522
140	15	5	5	5	4	90.960237	86.338848	89.740341	83.523023	18.5466	86.028641	72.160146	15.6522
141	15	5	5	6	3	88.293808	78.752806	86.007998	75.858543	14.1723	78.407261	62.119827	13.6864
142	15	5	5	6	3	88.293808	78.767139	86.007998	75.884706	14.1723	78.407261	64.157298	13.6864
143	15	5	5	6	3	88.293808	81.543059	86.007998	78.587353	14.1723	78.407261	62.551526	13.6864
144	15	5	5	6	3	88.293808	78.752399	86.007998	75.87196	14.1723	78.407261	62.120211	13.6864
145	15	5	5	6	3	88.293808	78.757203	86.007998	75.883533	14.1723	78.407261	64.153485	13.6864
146	15	5	5	6	3	88.293808	81.629716	86.007998	78.660207	14.1723	78.407261	62.57852	13.6864
147	15	5	5	6	3	88.293808	82.317837	86.007998	80.746769	14.1723	78.407261	63.964004	13.6864
148	15	5	5	7	2	84.077475	77.650223	81.504844	74.813804	12.3842	70.815709	63.049261	12.6191
149	15	5	5	7	2	84.077475	82.708625	81.504844	79.645571	12.3842	70.815709	63.581999	12.6191
150	15	5	5	7	2	84.077475	77.639718	81.504844	74.809657	12.3842	70.815709	63.044961	12.6191
151	15	5	5	7	2	84.077475	82.744968	81.504844	79.68034	12.3842	70.815709	63.652192	12.6191
152	15	5	5	7	2	84.077475	84.469748	81.504844	81.948293	12.3842	70.815709	63.718603	12.6191
153	15	5	5	7	2	84.077475	73.389373	81.504844	70.698224	12.3842	70.815709	55.629303	12.6191
154	15	5	5	7	2	84.077475	74.238481	81.504844	71.499696	12.3842	70.815709	56.035254	12.6191
155	15	5	5	7	2	84.077475	77.129209	81.504844	74.81918	12.3842	70.815709	57.695006	12.6191
156	15	5	5	5	4	90.960237	83.650873	89.740341	82.527456	18.5466	86.028641	68.266718	15.6522

157	15	5	5	7	2	84.077475	79.356538	81.504844	76.44895	12.3842	70.815709	67.433406	12.6191
158	15	5	5	7	2	84.077475	82.045866	81.504844	79.079834	12.3842	70.815709	64.386747	12.6191
159	15	5	5	7	2	84.077475	82.731885	81.504844	79.892553	12.3842	70.815709	67.589603	12.6191
160	15	5	5	7	2	84.077475	83.554508	81.504844	80.459897	12.3842	70.815709	65.092184	12.6191
161	15	5	5	8	1	79.436282	76.564642	76.808617	73.766501	11.4707	63.654501	57.345289	11.9887
162	15	5	5	8	1	79.436282	77.597374	76.808617	74.986444	11.4707	63.654501	57.226658	11.9887
163	15	5	5	8	1	79.436282	77.727342	76.808617	75.101143	11.4707	63.654501	57.270632	11.9887
164	15	5	5	6	3	88.293808	83.662931	86.007998	80.589706	14.1723	78.407261	65.956209	13.6864
165	15	5	5	6	3	88.293808	84.185246	86.007998	81.387305	14.1723	78.407261	66.443086	13.6864
166	15	5	5	6	3	88.293808	79.568138	86.007998	76.808389	14.1723	78.407261	65.249171	13.6864
167	15	5	5	8	1	79.436282	79.6034	76.808617	77.057777	11.4707	63.654501	59.741057	11.9887
168	15	5	5	8	1	79.436282	74.916593	76.808617	72.142967	11.4707	63.654501	57.346019	11.9887
169	15	5	5	8	1	79.436282	81.507466	76.808617	78.778947	11.4707	63.654501	60.433752	11.9887
170	15	5	5	9	0	74.72907	77.224772	72.142611	74.506664	10.9576	57.048714	56.491903	11.6037
171	15	4	4	6	4	61.622363	86.371626	60.795927	83.189148	17.8498	57.030635	66.508994	15.8251
172	14	5	3	7	3	84.529146	76.038353	82.408526	73.244599	13.1633	73.137046	59.39003	12.6027
173	14	5	3	7	3	84.529146	71.680785	82.408526	69.045919	13.1633	73.137046	53.88723	12.6027
174	14	5	3	7	3	84.529146	77.80309	82.408526	74.945032	13.1633	73.137046	62.291342	12.6027
175	14	5	3	8	2	80.211751	70.693691	77.794427	68.102226	11.3753	65.577023	53.049781	11.5354
176	14	5	3	8	2	80.211751	74.937104	77.794427	72.196051	11.3753	65.577023	55.389	11.5354
177	14	5	3	8	2	80.211751	76.520311	77.794427	73.717649	11.3753	65.577023	57.930196	11.5354
178	14	5	3	8	2	80.211751	71.451772	77.794427	68.88607	11.3753	65.577023	54.832465	11.5354
179	14	5	3	9	1	75.477197	73.742232	73.001881	71.048397	10.4618	58.498405	54.630207	10.905
180	14	5	4	5	4	90.346653	76.410566	89.28944	73.594357	17.7726	85.596837	62.2392	14.8209
181	14	5	4	5	4	90.346653	81.455056	89.28944	78.453898	17.7726	85.596837	62.82476	14.8209
182	14	5	4	5	4	90.346653	84.091655	89.28944	80.993878	17.7726	85.596837	68.659449	14.8209
183	14	5	4	6	3	87.512034	75.392493	85.316581	72.622279	13.3983	77.498502	59.247637	12.8551
184	14	5	4	6	3	87.512034	75.406567	85.316581	72.647971	13.3983	77.498502	61.234868	12.8551
185	14	5	4	6	3	87.512034	78.134867	85.316581	75.304344	13.3983	77.498502	59.668453	12.8551
186	14	5	4	7	2	83.042286	74.301305	80.539659	71.579032	11.6102	69.487644	58.236854	11.7878
187	14	5	4	7	2	83.042286	77.250321	80.539659	74.401714	11.6102	69.487644	58.713956	11.7878
188	14	5	4	7	2	83.042286	74.310206	80.539659	71.596751	11.6102	69.487644	60.153799	11.7878
189	14	5	4	7	2	83.042286	79.281915	80.539659	76.345773	11.6102	69.487644	60.673465	11.7878
190	14	5	4	7	2	83.042286	70.1351	80.539659	67.563901	11.6102	69.487644	52.936139	11.7878
191	14	5	4	7	2	83.042286	70.966196	80.539659	68.34838	11.6102	69.487644	53.330049	11.7878
192	14	5	4	7	2	83.042286	73.799054	80.539659	71.602026	11.6102	69.487644	54.941738	11.7878
193	14	5	4	5	4	90.346653	82.214729	89.28944	79.185729	17.7726	85.596837	65.251656	14.8209
194	14	5	4	7	2	83.042286	75.985442	80.539659	73.202152	11.6102	69.487644	64.436186	11.7878
195	14	5	4	7	2	83.042286	78.629578	80.539659	75.788919	11.6102	69.487644	61.458838	11.7878
196	14	5	4	7	2	83.042286	80.078403	80.539659	77.112766	11.6102	69.487644	62.134871	11.7878
197	14	5	4	8	1	78.140658	73.245369	75.577991	70.569434	10.6967	61.986901	54.601992	11.1574
198	14	5	4	8	1	78.140658	74.134233	75.577991	71.655993	10.6967	61.986901	54.444613	11.1574
199	14	5	4	8	1	78.140658	74.258349	75.577991	71.766166	10.6967	61.986901	54.486761	11.1574
200	14	5	4	6	3	87.512034	80.221709	85.316581	77.275559	13.3983	77.498502	62.991796	12.8551
201	14	5	4	6	3	87.512034	80.993163	85.316581	78.061501	13.3983	77.498502	63.467694	12.8551
202	14	5	4	8	1	78.140658	76.227961	75.577991	73.800359	10.6967	61.986901	56.931131	11.1574
203	14	5	4	8	1	78.140658	71.630253	75.577991	68.978322	10.6967	61.986901	54.602701	11.1574
204	14	5	4	8	1	78.140658	78.099854	75.577991	75.492843	10.6967	61.986901	57.605295	11.1574
205	14	5	4	9	0	73.190173	73.892795	70.669676	71.295396	10.1836	55.121097	53.773287	10.7723
206	14	5	5	3	5	0	0	92.98807	51.851852	39.531	97.584981	74.608397	19.4029
207	14	5	5	3	5	0	0	92.98807	51.851852	39.531	97.584981	74.100956	19.4029
208	14	5	5	4	4	93.53483	85.36614	92.44031	83.221769	18.0076	90.701321	69.616688	15.0733
209	14	5	5	4	4	93.53483	85.36614	92.44031	82.54897	18.0076	90.701321	69.616127	15.0733
210	14	5	5	4	4	93.53483	85.36614	92.44031	82.54897	18.0076	90.701321	69.617775	15.0733

211	14	5	5	4	4	93.53483	85.36614	92.44031	82.54897	18.0076	90.701321	70.03684	15.0733
212	14	5	5	4	4	93.53483	85.36614	92.44031	82.900996	18.0076	90.701321	71.594505	15.0733
213	14	5	5	4	4	93.53483	85.36614	92.44031	82.54897	18.0076	90.701321	73.694537	15.0733
214	14	5	5	5	3	90.600183	79.683118	88.327256	76.75658	13.6332	82.12005	61.7852	13.1074
215	14	5	5	5	3	90.600183	80.444199	88.327256	77.531948	13.6332	82.12005	62.242975	13.1074
216	14	5	5	5	3	90.600183	79.682672	88.327256	76.771299	13.6332	82.12005	61.785607	13.1074
217	14	5	5	5	3	90.600183	84.639905	88.327256	82.012145	13.6332	82.12005	64.60029	13.1074
218	14	5	5	5	3	90.600183	81.252534	88.327256	79.787417	13.6332	82.12005	63.743691	13.1074
219	14	5	5	6	2	85.972705	78.4652	83.381764	75.592123	11.8452	73.631472	60.686783	12.0401
220	14	5	5	6	2	85.972705	83.715102	83.381764	80.671206	11.8452	73.631472	63.870829	12.0401
221	14	5	5	5	3	90.600183	74.472105	88.327256	71.735444	13.6332	82.12005	60.840815	13.1074
222	14	5	5	5	3	90.600183	74.477731	88.327256	71.746756	13.6332	82.12005	60.843633	13.1074
223	14	5	5	5	3	90.600183	83.854036	88.327256	80.821312	13.6332	82.12005	65.326041	13.1074
224	14	5	5	5	3	90.600183	74.471397	88.327256	71.762677	13.6332	82.12005	60.843503	13.1074
225	14	5	5	5	3	90.600183	80.989953	88.327256	77.999881	13.6332	82.12005	65.38889	13.1074
226	14	5	5	3	5	0	0	92.98807	51.851852	39.531	97.584981	69.628602	19.4029
227	14	5	5	4	4	93.53483	82.204288	92.44031	82.900996	18.0076	90.701321	71.594505	15.0733
228	14	5	5	4	4	93.53483	82.204288	92.44031	79.330502	18.0076	90.701321	69.505851	15.0733
229	14	5	5	4	4	93.53483	82.204288	92.44031	79.530657	18.0076	90.701321	69.877951	15.0733
230	14	5	5	5	3	90.600183	79.255882	88.327256	76.344904	13.6332	82.12005	61.40024	13.1074
231	14	5	5	5	3	90.600183	79.262253	88.327256	76.357716	13.6332	82.12005	61.40311	13.1074
232	14	5	5	5	3	90.600183	80.008785	88.327256	77.111935	13.6332	82.12005	61.852307	13.1074
233	14	5	5	5	3	90.600183	80.873265	88.327256	78.099059	13.6332	82.12005	64.248411	13.1074
234	14	5	5	5	3	90.600183	80.80835	88.327256	79.342681	13.6332	82.12005	63.33402	13.1074
235	14	5	5	5	3	90.600183	81.749855	88.327256	78.748069	13.6332	82.12005	68.290984	13.1074
236	14	5	5	5	3	90.600183	82.785284	88.327256	79.790294	13.6332	82.12005	67.499647	13.1074
237	14	5	5	5	3	90.600183	80.583224	88.327256	77.804446	13.6332	82.12005	67.792503	13.1074
238	14	5	5	5	3	90.600183	82.106101	88.327256	79.076591	13.6332	82.12005	68.590946	13.1074
239	14	5	5	6	2	85.972705	73.508105	83.381764	70.81458	11.8452	73.631472	57.981082	12.0401
240	14	5	5	6	2	85.972705	73.516359	83.381764	70.826634	11.8452	73.631472	59.880194	12.0401
241	14	5	5	6	2	85.972705	76.39327	83.381764	73.57613	11.8452	73.631472	58.453986	12.0401
242	14	5	5	6	2	85.972705	76.448931	83.381764	73.626964	11.8452	73.631472	58.473807	12.0401
243	14	5	5	6	2	85.972705	73.506728	83.381764	70.827939	11.8452	73.631472	59.876795	12.0401
244	14	5	5	6	2	85.972705	76.499086	83.381764	73.672612	11.8452	73.631472	58.490971	12.0401
245	14	5	5	6	2	85.972705	79.886594	83.381764	77.53207	11.8452	73.631472	60.463754	12.0401
246	14	5	5	7	1	80.898107	72.474437	78.245008	69.826282	10.9317	65.683429	58.846194	11.4098
247	14	5	5	7	1	80.898107	75.448749	78.245008	72.655167	10.9317	65.683429	57.523873	11.4098
248	14	5	5	7	1	80.898107	80.370646	78.245008	77.683414	10.9317	65.683429	59.898084	11.4098
249	14	5	5	7	1	80.898107	72.474437	78.245008	69.826282	10.9317	65.683429	54.37709	11.4098
250	14	5	5	7	1	80.898107	73.590883	78.245008	71.107902	10.9317	65.683429	54.305167	11.4098
251	14	5	5	5	3	90.600183	79.974908	88.327256	77.037744	13.6332	82.12005	63.716298	13.1074
252	14	5	5	5	3	90.600183	81.02637	88.327256	78.133121	13.6332	82.12005	64.379805	13.1074
253	14	5	5	5	3	90.600183	78.719184	88.327256	76.00619	13.6332	82.12005	64.415517	13.1074
254	14	5	5	7	1	80.898107	79.231406	78.245008	76.340038	10.9317	65.683429	63.658313	11.4098
255	14	5	5	7	1	80.898107	80.219929	78.245008	77.260843	10.9317	65.683429	64.208008	11.4098
256	14	5	5	7	1	80.898107	79.391754	78.245008	76.487034	10.9317	65.683429	64.56226	11.4098
257	14	5	5	8	0	75.772928	73.218903	73.163488	70.643929	10.4186	58.40819	53.64423	11.0247
258	14	5	5	6	2	85.972705	80.105649	83.381764	77.173211	11.8452	73.631472	65.670973	12.0401
259	14	5	5	6	2	85.972705	79.12334	83.381764	76.205976	11.8452	73.631472	62.095424	12.0401
260	14	5	5	6	2	85.972705	74.264264	83.381764	71.707802	11.8452	73.631472	61.089783	12.0401
261	14	5	5	8	0	75.772928	76.950913	73.163488	74.252037	10.4186	58.40819	56.664393	11.0247
262	14	4	4	5	4	63.624576	81.906398	62.880058	78.888698	17.1466	60.279627	63.227849	15.0699
263	14	4	4	6	3	61.628361	80.616026	60.082263	77.655518	13.9213	54.576558	62.07572	13.7196
264	14	4	4	6	3	61.628361	81.39512	60.082263	78.449247	13.9213	54.576558	62.537825	13.7196

265	13	5	3	6	3	86.618585	71.674199	84.525696	69.041111	12.6243	76.463015	56.126944	12.0237
266	13	5	3	7	2	81.863665	70.612494	79.440177	68.026033	10.8362	67.98618	55.150396	10.9564
267	13	5	3	7	2	81.863665	73.483516	79.440177	70.774101	10.8362	67.98618	55.611255	10.9564
268	13	5	3	7	2	81.863665	66.565573	79.440177	64.12579	10.8362	67.98618	50.04021	10.9564
269	13	5	3	7	2	81.863665	67.372024	79.440177	64.887016	10.8362	67.98618	50.419326	10.9564
270	13	5	3	7	2	81.863665	72.251435	79.440177	69.605626	10.8362	67.98618	61.150372	10.9564
271	13	5	3	7	2	81.863665	74.828133	79.440177	72.126503	10.8362	67.98618	58.265601	10.9564
272	13	5	3	7	2	81.863665	72.534596	79.440177	69.937657	10.8362	67.98618	57.993325	10.9564
273	13	5	3	8	1	76.671943	69.585784	74.182518	67.044357	9.9227	60.116959	51.644198	10.326
274	13	5	3	8	1	76.671943	70.450001	74.182518	68.100892	9.9227	60.116959	51.492585	10.326
275	13	5	3	6	3	86.618585	76.381736	84.525696	73.577214	12.6243	76.463015	59.750161	12.0237
276	13	5	3	8	1	76.671943	72.487589	74.182518	70.188216	9.9227	60.116959	53.889893	10.326
277	13	5	3	8	1	76.671943	68.016695	74.182518	65.498568	9.9227	60.116959	51.644881	10.326
278	13	5	3	9	0	71.45386	70.21521	69.007466	67.750176	9.4096	52.977717	50.846041	9.941
279	13	5	4	5	3	89.914751	70.954762	87.742219	68.34789	12.8592	81.384628	57.794158	12.2761
280	13	5	4	5	3	89.914751	70.960261	87.742219	68.358948	12.8592	81.384628	57.796896	12.2761
281	13	5	4	5	3	89.914751	80.156732	87.742219	77.259783	12.8592	81.384628	62.160158	12.2761
282	13	5	4	4	4	93.055099	82.340326	92.150093	79.307957	17.2336	90.578918	68.286896	14.2419
283	13	5	4	5	3	89.914751	75.639216	87.742219	72.861722	12.8592	81.384628	58.337904	12.2761
284	13	5	4	5	3	89.914751	75.645466	87.742219	72.874289	12.8592	81.384628	58.340694	12.2761
285	13	5	4	5	3	89.914751	76.377918	87.742219	73.614311	12.8592	81.384628	58.777469	12.2761
286	13	5	4	5	3	89.914751	78.087644	87.742219	75.221043	12.8592	81.384628	65.054436	12.2761
287	13	5	4	5	3	89.914751	79.105423	87.742219	76.245539	12.8592	81.384628	64.281323	12.2761
288	13	5	4	6	2	84.978887	70.012674	82.463176	67.447941	11.0712	72.362174	55.018162	11.2088
289	13	5	4	6	2	84.978887	70.020738	82.463176	67.459718	11.0712	72.362174	56.860996	11.2088
290	13	5	4	6	2	84.978887	72.834153	82.463176	70.148574	11.0712	72.362174	55.476805	11.2088
291	13	5	4	6	2	84.978887	72.888641	82.463176	70.198338	11.0712	72.362174	55.496031	11.2088
292	13	5	4	6	2	84.978887	76.061202	82.463176	73.858099	11.0712	72.362174	57.36187	11.2088
293	13	5	4	7	1	79.589601	69.003208	77.005444	66.482761	10.1577	63.986442	55.85731	10.5784
294	13	5	4	7	1	79.589601	71.909854	77.005444	69.247324	10.1577	63.986442	54.574896	10.5784
295	13	5	4	7	1	79.589601	73.682968	77.005444	70.955156	10.1577	63.986442	56.778956	10.5784
296	13	5	4	7	1	79.589601	75.80083	77.005444	73.004952	10.1577	63.986442	56.828328	10.5784
297	13	5	4	7	1	79.589601	69.003208	77.005444	66.482761	10.1577	63.986442	51.528225	10.5784
298	13	5	4	5	3	89.914751	76.344672	87.742219	73.541498	12.8592	81.384628	60.5915	12.2761
299	13	5	4	5	3	89.914751	77.376931	87.742219	74.616922	12.8592	81.384628	61.237841	12.2761
300	13	5	4	7	1	79.589601	75.615208	77.005444	72.856949	10.1577	63.986442	60.53503	10.5784
301	13	5	4	7	1	79.589601	74.423859	77.005444	71.668629	10.1577	63.986442	57.716698	10.5784
302	13	5	4	7	1	79.589601	76.585149	77.005444	73.760463	10.1577	63.986442	61.070457	10.5784
303	13	5	4	8	0	74.17295	69.73017	71.633462	67.281233	9.6445	56.387677	50.819719	10.1933
304	13	5	4	6	2	84.978887	76.472984	82.463176	73.674451	11.0712	72.362174	62.496535	11.2088
305	13	5	4	6	2	84.978887	75.509214	82.463176	72.725455	11.0712	72.362174	59.013925	11.2088
306	13	5	4	8	0	74.17295	73.380144	71.633462	70.810398	9.6445	56.387677	53.742042	10.1933
307	13	5	5	2	5	0	0	96.267313	48.148148	38.9919	104.311276	76.855601	18.8239
308	13	5	5	3	4	96.596198	79.268559	95.656754	83.623627	17.4685	96.409114	69.279925	14.4943
309	13	5	5	3	4	96.596198	79.268559	95.656754	76.652615	17.4685	96.409114	69.728223	14.4943
310	13	5	5	3	4	96.596198	79.268559	95.656754	81.268121	17.4685	96.409114	68.80872	14.4943
311	13	5	5	3	4	96.596198	79.268559	95.656754	76.652615	17.4685	96.409114	68.80813	14.4943
312	13	5	5	3	4	96.596198	79.268559	95.656754	76.652615	17.4685	96.409114	70.708187	14.4943
313	13	5	5	3	4	96.596198	79.268559	95.656754	76.652615	17.4685	96.409114	69.250921	14.4943
314	13	5	5	4	3	93.336347	80.235209	91.081143	77.290493	13.0942	86.623025	64.644836	12.5285
315	13	5	5	4	3	93.336347	80.242241	91.081143	77.304635	13.0942	86.623025	64.648263	12.5285
316	13	5	5	4	3	93.336347	82.782211	91.081143	79.792806	13.0942	86.623025	65.185022	12.5285
317	13	5	5	4	3	93.336347	79.268559	91.081143	76.720255	13.0942	86.623025	64.645317	12.5285
318	13	5	5	4	3	93.336347	79.268559	91.081143	76.720255	13.0942	86.623025	65.21885	12.5285

319	13	5	5	4	3	93.336347	79.268559	91.081143	76.720255	13.0942	86.623025	65.252419	12.5285
320	13	5	5	4	3	93.336347	82.494802	91.081143	79.467938	13.0942	86.623025	68.432086	12.5285
321	13	5	5	4	3	93.336347	79.268559	91.081143	76.720255	13.0942	86.623025	73.286671	12.5285
322	13	5	5	4	3	93.336347	79.268559	91.081143	76.720255	13.0942	86.623025	67.885475	12.5285
323	13	5	5	6	1	82.618286	77.748712	79.935793	74.913856	10.3926	68.104989	59.493289	10.8308
324	13	5	5	6	1	82.618286	79.135722	79.935793	76.507057	10.3926	68.104989	59.400595	10.8308
325	13	5	5	5	2	88.212656	69.157899	85.601212	66.624137	11.3061	77.019832	56.497678	11.4612
326	13	5	5	5	2	88.212656	78.187444	85.601212	75.305421	11.3061	77.019832	60.744269	11.4612
327	13	5	5	5	2	88.212656	69.166204	85.601212	66.640668	11.3061	77.019832	56.502604	11.4612
328	13	5	5	5	2	88.212656	78.250239	85.601212	75.362774	11.3061	77.019832	60.767321	11.4612
329	13	5	5	5	2	88.212656	75.713663	85.601212	72.918385	11.3061	77.019832	62.805405	11.4612
330	13	5	5	3	4	96.596198	76.479496	95.656754	78.636475	17.4685	96.409114	68.275251	14.4943
331	13	5	5	3	4	96.596198	76.479496	95.656754	73.992726	17.4685	96.409114	65.046022	14.4943
332	13	5	5	4	3	93.336347	82.494802	91.081143	79.467938	13.0942	86.623025	68.405083	12.5285
333	13	5	5	4	3	93.336347	80.215649	91.081143	77.392915	13.0942	86.623025	66.663767	12.5285
334	13	5	5	4	3	93.336347	76.332842	91.081143	73.704564	13.0942	86.623025	64.55697	12.5285
335	13	5	5	4	3	93.336347	76.333602	91.081143	73.711548	13.0942	86.623025	64.560349	12.5285
336	13	5	5	4	3	93.336347	76.33279	91.081143	73.717782	13.0942	86.623025	64.563283	12.5285
337	13	5	5	4	3	93.336347	77.887035	91.081143	75.010519	13.0942	86.623025	65.374382	12.5285
338	13	5	5	5	2	88.212656	73.600671	85.601212	70.906028	11.3061	77.019832	57.017193	11.4612
339	13	5	5	5	2	88.212656	77.868959	85.601212	75.024922	11.3061	77.019832	59.947586	11.4612
340	13	5	5	5	2	88.212656	75.09739	85.601212	72.529767	11.3061	77.019832	60.045895	11.4612
341	13	5	5	5	2	88.212656	77.062314	85.601212	74.216408	11.3061	77.019832	59.609234	11.4612
342	13	5	5	5	2	88.212656	77.089742	85.601212	74.243826	11.3061	77.019832	59.676442	11.4612
343	13	5	5	5	2	88.212656	75.916881	85.601212	73.138455	11.3061	77.019832	63.416377	11.4612
344	13	5	5	5	2	88.212656	80.750087	85.601212	77.774071	11.3061	77.019832	64.504334	11.4612
345	13	5	5	5	2	88.212656	74.828011	85.601212	72.268831	11.3061	77.019832	62.95975	11.4612
346	13	5	5	5	2	88.212656	76.805906	85.601212	73.970435	11.3061	77.019832	63.19648	11.4612
347	13	5	5	6	1	82.618286	68.266471	79.935793	65.772562	10.3926	68.104989	55.603949	10.8308
348	13	5	5	6	1	82.618286	71.110102	79.935793	68.477174	10.3926	68.104989	54.333011	10.8308
349	13	5	5	6	1	82.618286	75.541652	79.935793	73.043009	10.3926	68.104989	56.517185	10.8308
350	13	5	5	6	1	82.618286	75.771987	79.935793	73.000653	10.3926	68.104989	56.615682	10.8308
351	13	5	5	7	0	76.995512	75.398107	74.359386	72.761884	9.8795	60.017122	55.843202	10.4457
352	13	5	5	7	0	76.995512	68.977912	74.359386	66.553965	9.8795	60.017122	50.609911	10.4457
353	13	5	5	5	2	88.212656	79.728128	85.601212	76.811973	11.3061	77.019832	63.265152	11.4612
354	13	5	5	5	2	88.212656	75.638954	85.601212	72.862669	11.3061	77.019832	59.889591	11.4612
355	13	5	5	5	2	88.212656	73.096386	85.601212	70.591618	11.3061	77.019832	61.132001	11.4612
356	13	5	5	7	0	76.995512	80.664583	74.359386	77.855929	9.8795	60.017122	60.210475	10.4457
357	13	5	5	6	1	82.618286	74.39444	79.935793	71.680039	10.3926	68.104989	61.70732	10.8308
358	13	5	5	6	1	82.618286	78.744539	79.935793	75.922892	10.3926	68.104989	61.031732	10.8308
359	13	4	3	6	3	60.403783	76.766753	58.9443	73.948217	13.0559	53.32176	58.86282	12.7901
360	13	4	4	4	4	66.015794	82.668533	65.373758	79.624146	16.4435	64.259124	66.35065	14.3147
361	13	4	4	4	4	66.015794	82.340326	65.373758	79.307957	16.4435	64.259124	68.286896	14.3147
362	13	4	4	5	3	63.787946	76.058346	62.246694	73.265595	13.2181	57.736447	58.712209	12.9644
363	13	4	4	5	3	63.787946	76.805298	62.246694	74.026593	13.2181	57.736447	59.157454	12.9644
364	13	4	4	6	2	60.286311	74.863867	58.501598	72.123523	11.962	51.335675	57.644483	12.2845
365	12	5	2	7	2	80.509732	62.69922	78.176404	60.40164	10.0622	66.275428	46.955833	10.1251
366	12	5	3	5	3	89.121631	67.077804	87.064572	64.613853	12.0852	80.534955	54.481637	11.4447
367	12	5	3	5	3	89.121631	71.620445	87.064572	68.991106	12.0852	80.534955	55.00521	11.4447
368	12	5	3	5	3	89.121631	74.000527	87.064572	71.284609	12.0852	80.534955	61.489864	11.4447
369	12	5	3	6	2	83.833943	66.165985	81.404272	63.742803	10.2971	70.908954	51.811888	10.3774
370	12	5	3	6	2	83.833943	66.173788	81.404272	63.754198	10.2971	70.908954	53.583583	10.3774
371	12	5	3	6	2	83.833943	68.89856	81.404272	66.358377	10.2971	70.908954	52.252601	10.3774
372	12	5	3	7	1	78.089736	65.1896	75.584084	62.809232	9.3837	62.061958	52.618344	9.7471

373	12	5	3	7	1	78.089736	68.002807	75.584084	65.484958	9.3837	62.061958	51.386091	9.7471
374	12	5	3	7	1	78.089736	69.721657	75.584084	67.140524	9.3837	62.061958	53.504659	9.7471
375	12	5	3	7	1	78.089736	65.1896	75.584084	62.809232	9.3837	62.061958	48.463234	9.7471
376	12	5	3	7	1	78.089736	66.011428	75.584084	63.814011	9.3837	62.061958	48.318605	9.7471
377	12	5	3	5	3	89.121631	72.305801	87.064572	69.651526	12.0852	80.534955	57.177431	11.4447
378	12	5	3	7	1	78.089736	71.597127	75.584084	68.98647	9.3837	62.061958	57.122957	9.7471
379	12	5	3	7	1	78.089736	70.440488	75.584084	67.832755	9.3837	62.061958	54.407068	9.7471
380	12	5	3	8	0	72.348959	65.892671	69.888825	63.581509	8.8705	54.11858	47.784456	9.362
381	12	5	3	6	2	83.833943	72.430493	81.404272	69.78073	10.2971	70.908954	59.016489	10.3774
382	12	5	3	6	2	83.833943	71.494183	81.404272	68.858758	10.2971	70.908954	55.656443	10.3774
383	12	5	3	8	0	72.348959	69.427953	69.888825	67.000118	8.8705	54.11858	50.586434	9.362
384	12	5	4	5	2	87.295409	65.501785	84.765419	63.102656	10.5321	75.866426	53.350999	10.6298
385	12	5	4	5	2	87.295409	74.306818	84.765419	71.568225	10.5321	75.866426	57.460393	10.6298
386	12	5	4	5	2	87.295409	65.509856	84.765419	63.118722	10.5321	75.866426	53.355758	10.6298
387	12	5	4	5	2	87.295409	74.368263	84.765419	71.624344	10.5321	75.866426	57.482739	10.6298
388	12	5	4	3	4	96.317745	77.692698	95.603563	74.83185	16.6945	96.759016	64.783172	13.6629
389	12	5	4	4	3	92.801423	78.528294	90.659429	75.647815	12.3202	86.165411	64.90981	11.6971
390	12	5	4	4	3	92.801423	76.29287	90.659429	73.612463	12.3202	86.165411	63.212449	11.6971
391	12	5	4	5	2	87.295409	69.82659	84.765419	67.270948	10.5321	75.866426	53.852967	10.6298
392	12	5	4	5	2	87.295409	73.99523	84.765419	71.293794	10.5321	75.866426	56.688366	10.6298
393	12	5	4	5	2	87.295409	73.995771	84.765419	71.300045	10.5321	75.866426	56.736042	10.6298
394	12	5	4	5	2	87.295409	74.09974	84.765419	71.986879	10.5321	75.866426	56.291852	10.6298
395	12	5	4	5	2	87.295409	72.087057	84.765419	69.449703	10.5321	75.866426	60.053475	10.6298
396	12	5	4	5	2	87.295409	76.816707	84.765419	73.986083	10.5321	75.866426	61.110877	10.6298
397	12	5	4	6	1	81.314026	64.635771	78.704917	62.275338	9.6186	66.400907	52.487954	9.9994
398	12	5	4	6	1	81.314026	67.400367	78.704917	64.904817	9.6186	66.400907	51.261729	9.9994
399	12	5	4	6	1	81.314026	71.72059	78.704917	69.356474	9.6186	66.400907	53.369844	9.9994
400	12	5	4	7	0	75.336215	71.580424	72.774503	69.081918	9.1055	57.902183	52.718931	9.6143
401	12	5	4	7	0	75.336215	65.326883	72.774503	63.034463	9.1055	57.902183	47.676898	9.6143
402	12	5	4	5	2	87.295409	75.815202	84.765419	73.043222	10.5321	75.866426	59.906571	10.6298
403	12	5	4	5	2	87.295409	71.81561	84.765419	69.180342	10.5321	75.866426	56.632185	10.6298
404	12	5	4	7	0	75.336215	76.732885	72.774503	74.066337	9.1055	57.902183	56.943063	9.6143
405	12	5	4	6	1	81.314026	70.600811	78.704917	68.025918	9.6186	66.400907	58.394311	9.9994
406	12	5	4	6	1	81.314026	74.852031	78.704917	72.172552	9.6186	66.400907	57.739084	9.9994
407	12	5	5	1	5	0	0	100.239541	44.444444	38.4529	112.746806	78.731663	18.2449
408	12	5	5	2	4	100.294662	73.170977	99.550991	81.66002	16.9295	103.523748	70.944426	13.9153
409	12	5	5	2	4	100.294662	73.170977	99.550991	70.75626	16.9295	103.523748	72.911507	13.9153
410	12	5	5	2	4	100.294662	73.170977	99.550991	70.75626	16.9295	103.523748	71.454061	13.9153
411	12	5	5	3	3	96.633153	80.144411	94.402717	77.205239	12.5551	92.18951	63.951515	11.9495
412	12	5	5	3	3	96.633153	73.170977	94.402717	70.818697	12.5551	92.18951	64.560483	11.9495
413	12	5	5	3	3	96.633153	79.688481	94.402717	76.765865	12.5551	92.18951	63.516546	11.9495
414	12	5	5	3	3	96.633153	78.039082	94.402717	75.251086	12.5551	92.18951	65.306406	11.9495
415	12	5	5	3	3	96.633153	73.170977	94.402717	70.818697	12.5551	92.18951	63.517048	11.9495
416	12	5	5	3	3	96.633153	73.170977	94.402717	70.818697	12.5551	92.18951	67.019276	11.9495
417	12	5	5	3	3	96.633153	73.170977	94.402717	70.818697	12.5551	92.18951	64.11722	11.9495
418	12	5	5	3	3	96.633153	73.170977	94.402717	70.818697	12.5551	92.18951	65.282715	11.9495
419	12	5	5	3	3	96.633153	73.170977	94.402717	70.818697	12.5551	92.18951	64.15237	11.9495
420	12	5	5	3	3	96.633153	73.170977	94.402717	70.818697	12.5551	92.18951	65.946659	11.9495
421	12	5	5	4	2	90.899798	74.069768	88.265345	71.360796	10.7671	81.17049	59.675342	10.8822
422	12	5	5	4	2	90.899798	76.751423	88.265345	73.923192	10.7671	81.17049	60.260736	10.8822
423	12	5	5	4	2	90.899798	73.170977	88.265345	70.845822	10.7671	81.17049	62.779633	10.8822
424	12	5	5	4	2	90.899798	73.170977	88.265345	70.845822	10.7671	81.17049	60.306599	10.8822
425	12	5	5	4	2	90.899798	73.170977	88.265345	70.845822	10.7671	81.17049	62.85089	10.8822
426	12	5	5	4	2	90.899798	76.155918	88.265345	73.371643	10.7671	81.17049	68.28668	10.8822

427	12	5	5	4	2	90.899798	73.170977	88.265345	70.845822	10.7671	81.17049	62.883082	10.8822
428	12	5	5	5	1	84.671446	72.964289	81.954608	70.304581	9.8536	71.043207	55.970136	10.2518
429	12	5	5	5	1	84.671446	73.995384	81.954608	71.565888	9.8536	71.043207	55.777319	10.2518
430	12	5	5	5	1	84.671446	73.170977	81.954608	70.860987	9.8536	71.043207	55.881261	10.2518
431	12	5	5	1	5	0	0	100.239541	44.444444	38.4529	112.746806	59.166415	18.2449
432	12	5	5	6	0	78.446814	73.846195	75.77933	71.273598	9.3405	61.950309	55.066747	9.8667
433	12	5	5	5	1	84.671446	63.846537	81.954608	61.514522	9.8536	71.043207	52.156449	10.2518
434	12	5	5	5	1	84.671446	72.367634	81.954608	69.688227	9.8536	71.043207	56.134427	10.2518
435	12	5	5	5	1	84.671446	70.091165	81.954608	67.527674	9.8536	71.043207	58.074223	10.2518
436	12	5	5	3	3	96.633153	80.808245	94.402717	77.844972	12.5551	92.18951	66.211698	11.9495
437	12	5	5	3	3	96.633153	75.168954	94.402717	72.985784	12.5551	92.18951	63.201639	11.9495
438	12	5	5	4	2	90.899798	76.155918	88.265345	73.371643	10.7671	81.17049	68.257551	10.8822
439	12	5	5	4	2	90.899798	76.496916	88.265345	73.77159	10.7671	81.17049	63.363741	10.8822
440	12	5	5	4	2	90.899798	75.862309	88.265345	73.057129	10.7671	81.17049	62.482235	10.8822
441	12	5	5	4	2	90.899798	74.057911	88.265345	71.486535	10.7671	81.17049	61.555792	10.8822
442	12	5	5	4	2	90.899798	72.362758	88.265345	69.691495	10.7671	81.17049	60.54918	10.8822
443	12	5	5	5	1	84.671446	71.880577	81.954608	69.259748	9.8536	71.043207	55.601708	10.2518
444	12	5	5	5	1	84.671446	73.565751	81.954608	71.148558	9.8536	71.043207	55.411417	10.2518
445	12	5	5	5	1	84.671446	71.368798	81.954608	68.759182	9.8536	71.043207	55.513998	10.2518
446	12	5	5	5	1	84.671446	70.087335	81.954608	67.530881	9.8536	71.043207	58.544174	10.2518
447	12	5	5	5	1	84.671446	76.511486	81.954608	73.774709	9.8536	71.043207	63.464748	10.2518
448	12	5	5	5	1	84.671446	71.105258	81.954608	68.505154	9.8536	71.043207	59.122166	10.2518
449	12	5	5	6	0	78.446814	70.722694	75.77933	68.252316	9.3405	61.950309	52.474458	9.8667
450	12	5	5	5	1	84.671446	76.073118	81.954608	73.715728	9.8536	71.043207	58.523218	10.2518
451	12	5	5	6	0	78.446814	76.300366	75.77933	73.647863	9.3405	61.950309	57.121847	9.8667
452	12	4	3	5	3	62.595379	72.027594	61.150585	69.38344	12.3528	56.56445	55.36575	12.0349
453	12	4	3	6	2	58.881524	70.867567	57.175023	68.274287	11.0967	49.803542	54.337552	11.355
454	12	4	3	6	2	58.881524	71.619119	57.175023	68.988214	11.0967	49.803542	54.82248	11.355
455	12	4	4	3	4	68.919368	82.781115	68.408341	79.734061	15.7404	69.235116	65.763482	13.5595
456	12	4	4	3	4	68.919368	80.375309	68.408341	77.416276	15.7404	69.235116	65.303604	13.5595
457	12	4	4	4	3	66.403293	76.312038	64.870607	73.512085	12.515	61.654949	61.247502	12.2092
458	12	4	4	4	3	66.403293	76.318929	64.870607	73.525944	12.515	61.654949	61.250834	12.2092
459	12	4	4	4	3	66.403293	78.810463	64.870607	75.966774	12.515	61.654949	61.772926	12.2092
460	12	4	4	4	3	66.403293	78.528294	64.870607	75.647815	12.515	61.654949	64.936151	12.2092
461	12	4	4	5	2	62.46351	70.213544	60.653196	67.64391	11.2589	54.285595	54.198513	11.5293
462	12	4	4	5	2	62.46351	75.144153	60.653196	72.401389	11.2589	54.285595	57.071385	11.5293
463	12	4	4	5	2	62.46351	74.535565	60.653196	72.292233	11.2589	54.285595	56.669514	11.5293
464	12	4	4	6	1	58.183581	73.877606	56.316654	71.185146	10.6687	47.512622	56.248351	11.1753
465	11	5	2	6	2	82.5007	61.987245	80.170358	59.717666	9.5231	69.229093	48.378164	9.5461
466	11	5	2	6	2	82.5007	63.481185	80.170358	61.157555	9.5231	69.229093	53.856378	9.5461
467	11	5	2	7	1	76.353567	61.052692	73.93808	58.824073	8.6096	59.862054	45.197069	8.9157
468	11	5	2	7	1	76.353567	58.322919	73.93808	56.163431	8.6096	59.862054	43.415375	8.9157
469	11	5	3	5	2	86.22368	61.492874	83.788177	59.241188	9.7581	74.525558	49.943934	9.7985
470	11	5	3	5	2	86.22368	69.986136	83.788177	67.407132	9.7581	74.525558	53.879053	9.7985
471	11	5	3	4	3	92.173191	74.077782	90.163557	71.361319	11.5462	85.627711	61.045531	10.8658
472	11	5	3	5	2	86.22368	65.657645	83.788177	63.255326	9.7581	74.525558	50.423924	9.7985
473	11	5	3	5	2	86.22368	69.684636	83.788177	67.141581	9.7581	74.525558	53.138783	9.7985
474	11	5	3	5	2	86.22368	66.586767	83.788177	64.132426	9.7581	74.525558	50.879527	9.7985
475	11	5	3	5	2	86.22368	67.839763	83.788177	65.358615	9.7581	74.525558	56.36881	9.7985
476	11	5	3	5	2	86.22368	72.417293	83.788177	69.74917	9.7581	74.525558	57.385559	9.7985
477	11	5	3	6	1	79.799148	60.6605	77.274658	58.445989	8.8446	64.441881	49.119125	9.1681
478	11	5	3	6	1	79.799148	63.319565	77.274658	60.975127	8.8446	64.441881	47.948201	9.1681
479	11	5	3	6	1	79.799148	67.48575	77.274658	65.268543	8.8446	64.441881	49.961951	9.1681
480	11	5	3	7	0	73.42127	67.350374	70.944954	65.003323	8.3315	55.498589	49.339814	8.783

481	11	5	3	7	0	73.42127	61.324723	70.944954	59.175623	8.3315	55.498589	44.531583	8.783
482	11	5	3	5	2	86.22368	71.446663	83.788177	68.835359	9.7581	74.525558	56.227622	9.7985
483	11	5	3	5	2	86.22368	67.577532	83.788177	65.098393	9.7581	74.525558	53.084931	9.7985
484	11	5	3	7	0	73.42127	72.336027	70.944954	69.826982	8.3315	55.498589	53.382953	8.783
485	11	5	3	6	1	79.799148	66.404621	77.274658	63.983748	8.8446	64.441881	54.775165	9.1681
486	11	5	3	6	1	79.799148	70.513863	77.274658	67.992101	8.8446	64.441881	54.146392	9.1681
487	11	5	4	5	1	83.400216	60.051483	80.761805	57.858886	9.0796	69.372093	48.909636	9.4205
488	11	5	4	5	1	83.400216	68.303694	80.761805	65.774778	9.0796	69.372093	52.732476	9.4205
489	11	5	4	5	1	83.400216	69.693635	80.761805	67.123939	9.0796	69.372093	55.233501	9.4205
490	11	5	4	3	3	96.332658	76.534956	94.232336	73.729319	11.7811	92.178774	62.477139	11.1181
491	11	5	4	3	3	96.332658	71.492655	94.232336	68.983933	11.7811	92.178774	59.557314	11.1181
492	11	5	4	4	2	90.114666	71.990967	87.569257	69.360037	9.9931	80.227236	64.466118	10.0508
493	11	5	4	4	2	90.114666	73.70554	87.569257	71.055732	9.9931	80.227236	59.593645	10.0508
494	11	5	4	4	2	90.114666	72.323435	87.569257	69.750003	9.9931	80.227236	59.714359	10.0508
495	11	5	4	4	2	90.114666	71.704777	87.569257	69.053464	9.9931	80.227236	58.860629	10.0508
496	11	5	4	4	2	90.114666	69.947486	87.569257	67.52376	9.9931	80.227236	57.964097	10.0508
497	11	5	4	4	2	90.114666	72.128316	87.569257	69.457133	9.9931	80.227236	59.057762	10.0508
498	11	5	4	5	1	83.400216	67.830454	80.761805	65.358447	9.0796	69.372093	52.219754	9.4205
499	11	5	4	5	1	83.400216	69.468626	80.761805	67.194848	9.0796	69.372093	52.036665	9.4205
500	11	5	4	5	1	83.400216	69.607379	80.761805	67.31819	9.0796	69.372093	52.085676	9.4205
501	11	5	4	5	1	83.400216	66.08971	80.761805	63.680136	9.0796	69.372093	55.054787	9.4205
502	11	5	4	5	1	83.400216	72.337642	80.761805	69.753045	9.0796	69.372093	59.812226	9.4205
503	11	5	4	5	1	83.400216	68.102295	80.761805	65.591016	9.0796	69.372093	54.853838	9.4205
504	11	5	4	6	0	76.734526	66.706176	74.146462	64.380175	8.5664	59.744583	49.21475	9.0354
505	11	5	4	5	1	83.400216	71.910252	80.761805	69.695526	9.0796	69.372093	55.03457	9.4205
506	11	5	4	6	0	76.734526	72.13179	74.146462	69.629349	8.5664	59.744583	53.683471	9.0354
507	11	5	5	0	5	0	0	105.145831	40.740741	37.9138	123.599804	76.923077	17.6659
508	11	5	5	1	4	104.84856	67.073396	104.358167	74.855018	16.3904	112.611837	72.171588	13.3363
509	11	5	5	1	4	104.84856	67.073396	104.358167	64.859905	16.3904	112.611837	72.747407	13.3363
510	11	5	5	2	3	100.679829	78.326462	98.484726	75.455846	12.0161	99.231035	65.033311	11.3705
511	11	5	5	2	3	100.679829	78.041975	98.484726	75.317378	12.0161	99.231035	66.839574	11.3705
512	11	5	5	2	3	100.679829	78.041975	98.484726	75.317378	12.0161	99.231035	65.68043	11.3705
513	11	5	5	2	3	100.679829	67.073396	98.484726	64.917139	12.0161	99.231035	71.208518	11.3705
514	11	5	5	2	3	100.679829	67.073396	98.484726	64.917139	12.0161	99.231035	67.604387	11.3705
515	11	5	5	3	2	94.181239	73.472686	91.520965	70.78835	10.228	86.365128	58.625576	10.3032
516	11	5	5	3	2	94.181239	78.15152	91.520965	75.519766	10.228	86.365128	62.390732	10.3032
517	11	5	5	3	2	94.181239	67.073396	91.520965	64.942003	10.228	86.365128	61.98181	10.3032
518	11	5	5	3	2	94.181239	73.05467	91.520965	70.385398	10.228	86.365128	58.226809	10.3032
519	11	5	5	3	2	94.181239	74.206772	91.520965	71.473073	10.228	86.365128	58.835178	10.3032
520	11	5	5	3	2	94.181239	67.073396	91.520965	64.942003	10.228	86.365128	62.001147	10.3032
521	11	5	5	3	2	94.181239	67.073396	91.520965	64.942003	10.228	86.365128	58.882874	10.3032
522	11	5	5	3	2	94.181239	67.073396	91.520965	64.942003	10.228	86.365128	60.891545	10.3032
523	11	5	5	4	1	87.163789	67.907748	84.406314	65.43297	9.3145	74.679498	57.553148	9.6728
524	11	5	5	4	1	87.163789	70.557248	84.406314	67.944924	9.3145	74.679498	55.305497	9.6728
525	11	5	5	4	1	87.163789	72.041415	84.406314	69.385556	9.3145	74.679498	58.062926	9.6728
526	11	5	5	4	1	87.163789	67.073396	84.406314	64.955905	9.3145	74.679498	58.124674	9.6728
527	11	5	5	4	1	87.163789	75.732155	84.406314	72.977416	9.3145	74.679498	62.752369	9.6728
528	11	5	5	4	1	87.163789	73.482723	84.406314	70.762535	9.3145	74.679498	59.210261	9.6728
529	11	5	5	4	1	87.163789	67.073396	84.406314	64.955905	9.3145	74.679498	63.874392	9.6728
530	11	5	5	5	0	80.197298	68.853891	77.492444	66.457817	8.8014	64.315422	51.448662	9.2877
531	11	5	5	1	4	104.84856	65.243512	104.358167	62.839902	16.3904	112.611837	54.236387	13.3363
532	11	5	5	1	4	104.84856	65.243512	104.358167	63.083196	16.3904	112.611837	54.327821	13.3363
533	11	5	5	5	0	80.197298	72.045315	77.492444	69.545671	8.8014	64.315422	54.136517	9.2877
534	11	5	5	3	2	94.181239	75.595935	91.520965	72.835123	10.228	86.365128	63.060419	10.3032

535	11	5	5	3	2	94.181239	74.251393	91.520965	71.582559	10.228	86.365128	60.790812	10.3032
536	11	5	5	3	2	94.181239	75.26629	91.520965	72.493772	10.228	86.365128	61.359041	10.3032
537	11	5	5	4	1	87.163789	74.461025	84.406314	71.751695	9.3145	74.679498	62.752369	9.6728
538	11	5	5	4	1	87.163789	70.135529	84.406314	67.626817	9.3145	74.679498	62.633565	9.6728
539	11	5	5	4	1	87.163789	66.530689	84.406314	64.098512	9.3145	74.679498	55.603416	9.6728
540	11	5	5	5	0	80.197298	68.448106	77.492444	66.065249	8.8014	64.315422	51.109061	9.2877
541	11	5	5	5	0	80.197298	77.834909	77.492444	75.149078	8.8014	64.315422	59.090658	9.2877
542	11	5	5	5	0	80.197298	72.73065	77.492444	70.208853	8.8014	64.315422	54.717669	9.2877
543	11	4	3	4	3	65.288186	71.928092	63.864721	69.289693	11.6496	60.651886	57.516993	11.2797
544	11	4	3	4	3	65.288186	74.077782	63.864721	71.361319	11.6496	60.651886	61.070947	11.2797
545	11	4	3	5	2	61.074024	66.030928	59.348907	63.61512	10.3935	52.788001	50.754451	10.5998
546	11	4	3	5	2	61.074024	70.796703	59.348907	68.213678	10.3935	52.788001	53.50599	10.5998
547	11	4	3	5	2	61.074024	66.97072	59.348907	64.502295	10.3935	52.788001	51.216075	10.5998
548	11	4	3	6	1	56.523394	69.570839	54.735246	67.036465	9.8033	45.645523	52.717073	10.2458
549	11	4	4	2	4	72.515948	80.428183	72.176779	77.468838	15.0373	75.614908	67.083796	12.8043
550	11	4	4	3	3	69.632747	75.885518	68.114558	73.103443	11.8119	66.630168	60.283982	11.454
551	11	4	4	3	3	69.632747	76.76582	68.114558	74.000499	11.8119	66.630168	60.839632	11.454
552	11	4	4	3	3	69.632747	75.43968	68.114558	72.673784	11.8119	66.630168	59.862416	11.454
553	11	4	4	3	3	69.632747	73.828186	68.114558	71.193734	11.8119	66.630168	61.598166	11.454
554	11	4	4	3	3	69.632747	74.509631	68.114558	71.823361	11.8119	66.630168	60.410286	11.454
555	11	4	4	4	2	65.138156	69.959025	63.298242	67.401382	10.5558	57.991162	56.146619	10.7741
556	11	4	4	4	2	65.138156	72.571636	63.298242	69.897856	10.5558	57.991162	56.712086	10.7741
557	11	4	4	4	2	65.138156	72.635576	63.298242	69.956256	10.5558	57.991162	56.735833	10.7741
558	11	4	4	4	2	65.138156	71.990967	63.298242	69.360037	10.5558	57.991162	64.494463	10.7741
559	11	4	4	4	2	65.138156	72.128316	63.298242	69.457133	10.5558	57.991162	59.057762	10.7741
560	11	4	4	5	1	60.284708	68.88368	58.377568	66.373925	9.9656	50.14467	52.574327	10.4201
561	11	4	4	5	1	60.284708	69.886638	58.377568	67.600997	9.9656	50.14467	52.388747	10.4201
562	11	4	4	6	0	55.466504	69.741468	53.595758	67.316523	9.6803	43.185556	51.705117	10.2492
563	10	5	2	5	2	84.954958	57.150594	82.630348	55.058445	8.9841	72.947762	46.29304	8.9671
564	10	5	2	5	2	84.954958	61.113675	82.630348	58.878268	8.9841	72.947762	46.746743	8.9671
565	10	5	2	5	2	84.954958	63.194913	82.630348	60.884367	8.9841	72.947762	52.380262	8.9671
566	10	5	2	6	1	78.018501	56.359966	75.592614	54.303112	8.0706	62.16719	45.513799	8.3367
567	10	5	2	6	1	78.018501	58.887346	75.592614	56.707029	8.0706	62.16719	44.408431	8.3367
568	10	5	2	5	2	84.954958	62.996437	82.630348	60.693055	8.9841	72.947762	52.175882	8.9671
569	10	5	2	6	1	78.018501	62.128411	75.592614	59.864487	8.0706	62.16719	51.281352	8.3367
570	10	5	2	6	1	78.018501	57.955084	75.592614	55.875365	8.0706	62.16719	49.101253	8.3367
571	10	5	2	7	0	71.187477	56.990838	68.810106	54.99615	7.5575	52.745613	41.188888	7.9516
572	10	5	3	5	1	81.899909	55.910412	79.353334	53.869722	8.3056	67.418563	45.407894	8.5891
573	10	5	3	5	1	81.899909	63.80527	79.353334	61.442928	8.3056	67.418563	49.038461	8.5891
574	10	5	3	3	3	95.973299	71.732626	94.028286	69.103876	11.0071	92.165892	58.347867	10.2868
575	10	5	3	4	2	89.181453	67.349886	86.741194	64.889529	9.219	79.109788	60.257757	9.2195
576	10	5	3	4	2	89.181453	69.001723	86.741194	66.523259	9.219	79.109788	55.58492	9.2195
577	10	5	3	4	2	89.181453	67.67001	86.741194	65.265039	9.219	79.109788	55.700448	9.2195
578	10	5	3	5	1	81.899909	63.351102	79.353334	61.043369	8.3056	67.418563	48.550825	8.5891
579	10	5	3	5	1	81.899909	64.923992	79.353334	62.806839	8.3056	67.418563	48.376747	8.5891
580	10	5	3	5	1	81.899909	61.682005	79.353334	59.434083	8.3056	67.418563	51.249871	8.5891
581	10	5	3	5	1	81.899909	67.683692	79.353334	65.267968	8.3056	67.418563	55.794119	8.5891
582	10	5	3	6	0	74.729042	62.27283	72.233397	60.105055	7.7924	57.201128	45.697219	8.204
583	10	5	3	5	1	81.899909	67.27218	79.353334	65.212574	8.3056	67.418563	51.2306	8.5891
584	10	5	3	6	0	74.729042	67.48547	72.233397	65.148845	7.7924	57.201128	49.943501	8.204
585	10	5	4	5	0	78.4468	67.609978	75.826997	65.269344	8.0274	62.033009	50.500571	8.4564
586	10	5	4	3	2	93.618216	71.055052	91.056554	68.461321	9.454	85.792332	60.453173	9.4718
587	10	5	4	3	2	93.618216	69.749187	91.056554	67.244721	9.454	85.792332	56.890607	9.4718
588	10	5	4	3	2	93.618216	70.734743	91.056554	68.12963	9.454	85.792332	57.438179	9.4718

589	10	5	4	4	1	85.974415	69.952685	83.30115	67.408917	8.5405	73.113528	58.782129	8.8415
590	10	5	4	4	1	85.974415	65.761493	83.30115	63.411859	8.5405	73.113528	58.667464	8.8415
591	10	5	4	4	1	85.974415	65.961533	83.30115	63.529894	8.5405	73.113528	53.863176	8.8415
592	10	5	4	5	0	78.4468	64.130862	75.826997	61.902677	8.0274	62.033009	47.606904	8.4564
593	10	5	4	5	0	78.4468	73.233119	75.826997	70.712578	8.0274	62.033009	55.254059	8.4564
594	10	5	4	5	0	78.4468	68.274088	75.826997	65.912088	8.0274	62.033009	51.057008	8.4564
595	10	5	5	0	4	110.586994	60.975815	110.434168	68.050016	15.8514	124.576724	79.26732	12.7573
596	10	5	5	1	3	105.760148	79.21228	103.616793	76.312653	11.477	108.394372	65.611565	10.7915
597	10	5	5	1	3	105.760148	70.94725	103.616793	68.470344	11.477	108.394372	66.336903	10.7915
598	10	5	5	1	3	105.760148	60.975815	103.616793	59.015581	11.477	108.394372	68.752029	10.7915
599	10	5	5	2	2	98.275707	73.378352	95.586603	70.701096	9.689	93.039363	60.763277	9.7242
600	10	5	5	2	2	98.275707	72.41868	95.586603	69.751907	9.689	93.039363	59.815799	9.7242
601	10	5	5	2	2	98.275707	71.046837	95.586603	68.654333	9.689	93.039363	65.252895	9.7242
602	10	5	5	2	2	98.275707	71.046837	95.586603	68.654333	9.689	93.039363	61.5239	9.7242
603	10	5	5	3	1	90.251628	72.203315	87.445368	69.579269	8.7755	79.289557	56.99606	9.0938
604	10	5	5	3	1	90.251628	60.975815	87.445368	59.050822	8.7755	79.289557	56.885504	9.0938
605	10	5	5	3	1	90.251628	71.052716	87.445368	68.469699	8.7755	79.289557	56.581657	9.0938
606	10	5	5	3	1	90.251628	71.542611	87.445368	68.894338	8.7755	79.289557	56.345367	9.0938
607	10	5	5	3	1	90.251628	60.975815	87.445368	59.050822	8.7755	79.289557	56.472701	9.0938
608	10	5	5	4	0	82.349515	70.045929	79.599378	67.62708	8.2624	67.273047	53.103163	8.7087
609	10	5	5	4	0	82.349515	76.099707	79.599378	73.488327	8.2624	67.273047	58.384847	8.7087
610	10	5	5	1	3	105.760148	65.541646	103.616793	63.429902	11.477	108.394372	53.427632	10.7915
611	10	5	5	1	3	105.760148	60.409048	103.616793	58.297795	11.477	108.394372	50.054697	10.7915
612	10	5	5	1	3	105.760148	59.312284	103.616793	57.397578	11.477	108.394372	49.412937	10.7915
613	10	5	5	3	1	90.251628	68.735366	87.445368	66.235059	8.7755	79.289557	58.165296	9.0938
614	10	5	5	3	1	90.251628	60.602382	87.445368	58.386985	8.7755	79.289557	50.674286	9.0938
615	10	5	5	4	0	82.349515	75.555148	79.599378	72.960979	8.2624	67.273047	57.904559	8.7087
616	10	4	2	5	2	59.447379	61.469466	57.820729	59.22121	9.5282	51.045322	47.059269	9.6703
617	10	4	3	3	3	68.672902	70.674743	67.281164	68.084353	10.9465	65.948544	55.842161	10.5245
618	10	4	3	4	2	63.813053	65.395253	62.066946	63.00534	9.6904	56.606357	52.291111	9.8446
619	10	4	3	4	2	63.813053	67.909052	62.066946	65.407443	9.6904	56.606357	52.830764	9.8446
620	10	4	3	4	2	63.813053	67.349886	62.066946	64.889529	9.6904	56.606357	60.284999	9.8446
621	10	4	3	5	1	58.602804	64.362118	56.780624	62.018183	9.1002	48.240796	48.888026	9.4906
622	10	4	3	5	1	58.602804	65.325679	56.780624	63.197224	9.1002	48.240796	48.711525	9.4906
623	10	4	3	6	0	53.47175	65.186163	51.686012	62.923777	8.8149	40.929796	48.061588	9.3197
624	10	4	4	1	4	77.080446	73.11653	76.973925	70.426216	14.3341	84.051339	67.915362	12.0491
625	10	4	4	2	3	73.716078	73.711888	72.222134	71.011399	11.1088	73.133181	60.986159	10.6988
626	10	4	4	2	3	73.716078	73.434774	72.222134	70.876508	11.1088	73.133181	62.734979	10.6988
627	10	4	4	2	3	73.716078	73.434774	72.222134	70.876508	11.1088	73.133181	61.612346	10.6988
628	10	4	4	3	2	68.499333	68.9936	66.624995	66.47405	9.8527	62.773227	54.806845	10.0188
629	10	4	4	3	2	68.499333	69.849925	66.624995	67.28761	9.8527	62.773227	55.399967	10.0188
630	10	4	4	3	2	68.499333	73.541472	66.624995	71.073674	9.8527	62.773227	58.433134	10.0188
631	10	4	4	3	2	68.499333	68.588214	66.624995	66.083259	9.8527	62.773227	54.423558	10.0188
632	10	4	4	3	2	68.499333	72.812024	66.624995	70.145592	9.8527	62.773227	57.937878	10.0188
633	10	4	4	3	2	68.499333	69.705877	66.624995	67.138445	9.8527	62.773227	55.008369	10.0188
634	10	4	4	3	2	68.499333	67.155048	66.624995	64.801628	9.8527	62.773227	56.033204	10.0188
635	10	4	4	3	2	68.499333	68.591269	66.624995	66.051262	9.8527	62.773227	55.032946	10.0188
636	10	4	4	3	2	68.499333	68.625484	66.624995	66.084035	9.8527	62.773227	56.793322	10.0188
637	10	4	4	4	1	62.906455	63.60921	60.950458	61.292233	9.2625	53.496297	53.776385	9.6649
638	10	4	4	4	1	62.906455	66.169404	60.950458	63.719563	9.2625	53.496297	51.620154	9.6649
639	10	4	4	4	1	62.906455	67.606201	60.950458	65.114222	9.2625	53.496297	54.26608	9.6649
640	10	4	4	4	1	62.906455	71.187442	60.950458	68.599619	9.2625	53.496297	58.782129	9.6649
641	10	4	4	4	1	62.906455	69.003336	60.950458	66.449009	9.2625	53.496297	55.369099	9.6649
642	10	4	4	4	1	62.906455	65.961533	60.950458	63.529894	9.2625	53.496297	53.863176	9.6649

643	10	4	4	5	0	57.398589	64.522765	55.48171	62.281869	8.9771	45.388813	47.931077	9.4939
644	10	4	4	1	4	77.080446	61.040887	76.973925	58.792454	14.3341	84.051339	50.596171	12.0491
645	10	3	3	3	3	44.604358	71.105246	43.700398	68.499244	11.4305	42.834836	56.245764	11.3804
646	9	5	2	5	1	80.102802	51.442871	77.665185	49.565861	7.5315	65.105465	41.667775	7.7578
647	9	5	2	5	1	80.102802	58.892561	77.665185	56.712128	7.5315	65.105465	45.069903	7.7578
648	9	5	2	4	2	88.053974	62.252656	85.739743	59.979358	8.445	77.765134	55.836248	8.3881
649	9	5	2	5	1	80.102802	58.462725	77.665185	56.333969	7.5315	65.105465	44.612329	7.7578
650	9	5	2	5	1	80.102802	55.954608	77.665185	53.882913	7.5315	65.105465	42.507809	7.7578
651	9	5	2	5	1	80.102802	56.884392	77.665185	54.812147	7.5315	65.105465	47.147406	7.7578
652	9	5	2	5	1	80.102802	62.569578	77.665185	60.338674	7.5315	65.105465	54.630834	7.7578
653	9	5	2	6	0	72.348937	57.442848	69.962109	55.446405	7.0184	54.239041	41.938504	7.3727
654	9	5	2	4	2	88.053974	61.094209	85.739743	58.862623	8.445	77.765134	54.44725	8.3881
655	9	5	2	5	1	80.102802	56.705708	77.665185	54.639863	7.5315	65.105465	46.963425	7.7578
656	9	5	2	5	1	80.102802	60.378067	77.665185	58.222374	7.5315	65.105465	53.434409	7.7578
657	9	5	2	6	0	72.348937	71.907641	69.962109	69.449908	7.0184	54.239041	53.787683	7.3727
658	9	5	3	5	0	76.359106	62.679086	73.839981	60.513726	7.2534	59.353099	46.550352	7.625
659	9	5	3	3	2	92.934645	65.974013	90.49214	63.566871	8.68	85.097405	57.271495	8.6405
660	9	5	3	3	2	92.934645	64.723872	90.49214	62.402123	8.68	85.097405	52.601615	8.6405
661	9	5	3	3	2	92.934645	65.667237	90.49214	63.249187	8.68	85.097405	53.121886	8.6405
662	9	5	3	4	1	84.542754	64.918591	81.970024	62.559245	7.7665	71.244089	54.399992	8.0101
663	9	5	3	4	1	84.542754	60.915322	81.970024	58.741171	7.7665	71.244089	54.290881	8.0101
664	9	5	3	4	1	84.542754	63.582205	81.970024	61.228584	7.7665	71.244089	50.747602	8.0101
665	9	5	3	5	0	76.359106	59.361833	73.839981	57.303231	7.2534	59.353099	43.822269	7.625
666	9	5	3	5	0	76.359106	68.062377	73.839981	65.72564	7.2534	59.353099	51.048291	7.625
667	9	5	3	5	0	76.359106	63.313465	73.839981	61.12779	7.2534	59.353099	47.075815	7.625
668	9	5	4	3	1	89.228805	63.960888	86.513473	61.635693	8.0015	77.961507	54.552152	8.2625
669	9	5	4	4	0	80.591552	70.544452	77.932797	68.129479	7.4883	64.949347	53.723159	7.8774
670	9	5	5	0	3	112.318851	73.073142	110.253889	70.399031	10.938	120.750856	80.090142	10.2125
671	9	5	5	1	2	103.522562	71.299081	100.801786	68.70082	9.1499	101.901153	59.054568	9.1452
672	9	5	5	1	2	103.522562	72.644432	100.801786	69.971116	9.1499	101.901153	59.821341	9.1452
673	9	5	5	1	2	103.522562	63.942153	100.801786	61.7889	9.1499	101.901153	63.048524	9.1452
674	9	5	5	2	1	94.174595	66.052612	91.308757	63.652854	8.2364	85.312293	59.003423	8.5149
675	9	5	5	2	1	94.174595	65.833438	91.308757	63.39653	8.2364	85.312293	54.119388	8.5149
676	9	5	5	2	1	94.174595	54.878233	91.308757	53.14574	8.2364	85.312293	58.926216	8.5149
677	9	5	5	3	0	85.058595	67.268413	82.252469	64.956807	7.7233	71.073251	51.470913	8.1298
678	9	5	5	3	0	85.058595	66.840438	82.252469	64.542399	7.7233	71.073251	51.095419	8.1298
679	9	5	5	1	2	103.522562	59.020221	100.801786	57.820196	9.1499	101.901153	48.117148	9.1452
680	9	5	5	1	2	103.522562	59.541453	100.801786	57.423372	9.1499	101.901153	49.476974	9.1452
681	9	5	5	1	2	103.522562	54.878233	100.801786	53.134366	9.1499	101.901153	49.201566	9.1452
682	9	5	5	3	0	85.058595	68.471736	82.252469	66.122063	7.7233	71.073251	52.53047	8.1298
683	9	4	2	4	2	62.230036	60.398594	60.594509	58.192066	8.825	54.958645	48.126972	8.9151
684	9	4	2	4	2	62.230036	62.252656	60.594509	59.979358	8.825	54.958645	55.836248	8.9151
685	9	4	2	5	1	56.610736	59.41979	54.888008	57.256793	8.2348	46.011727	44.928722	8.5612
686	9	4	2	5	1	56.610736	56.286038	54.888008	54.202076	8.2348	46.011727	42.794958	8.5612
687	9	4	3	3	2	67.328124	63.61366	65.558609	61.291385	8.9873	61.650299	50.260958	9.0894
688	9	4	3	3	2	67.328124	67.658308	65.558609	65.181524	8.9873	61.650299	53.59691	9.0894
689	9	4	3	3	2	67.328124	64.682435	65.558609	62.300439	8.9873	61.650299	50.815306	9.0894
690	9	4	3	4	1	61.248473	58.865334	59.384613	56.722171	8.3971	51.614022	49.647859	8.7354
691	9	4	3	4	1	61.248473	61.304288	59.384613	59.034597	8.3971	51.614022	47.607901	8.7354
692	9	4	3	4	1	61.248473	66.100834	59.384613	63.699358	8.3971	51.614022	54.399992	8.7354
693	9	4	3	4	1	61.248473	64.0105	59.384613	61.641033	8.3971	51.614022	51.157401	8.7354
694	9	4	3	5	0	55.319686	59.73499	53.494662	57.664335	8.1118	42.999387	44.127515	8.5645
695	9	4	4	0	4	83.051251	65.804877	83.272195	63.383595	13.631	95.651132	74.390655	11.2939
696	9	4	4	1	3	79.033392	74.093265	77.580377	71.382281	10.4056	81.949343	61.124819	9.9436

697	9	4	4	1	3	79.033392	66.091296	77.580377	63.788857	10.4056	81.949343	61.824567	9.9436
698	9	4	4	2	2	72.843865	68.438227	70.929385	65.942585	9.1495	69.156715	56.461509	9.2636
699	9	4	4	2	2	72.843865	67.511108	70.929385	65.025567	9.1495	69.156715	55.552999	9.2636
700	9	4	4	2	2	72.843865	66.187324	70.929385	63.966307	9.1495	69.156715	60.779005	9.2636
701	9	4	4	2	2	72.843865	66.187324	70.929385	63.966307	9.1495	69.156715	57.191514	9.2636
702	9	4	4	3	1	66.266148	67.303168	64.249595	64.858876	8.5593	57.898442	52.85466	8.9097
703	9	4	4	3	1	66.266148	66.235443	64.249595	64.065891	8.5593	57.898442	52.68688	8.9097
704	9	4	4	3	1	66.266148	66.192994	64.249595	63.788235	8.5593	57.898442	52.458782	8.9097
705	9	4	4	3	1	66.266148	62.931427	64.249595	60.601516	8.5593	57.898442	49.572815	8.9097
706	9	4	4	3	1	66.266148	66.665523	64.249595	64.197832	8.5593	57.898442	52.233133	8.9097
707	9	4	4	3	1	66.266148	62.147835	64.249595	59.857289	8.5593	57.898442	51.28956	8.9097
708	9	4	4	4	0	59.851656	65.222614	57.87712	62.975993	8.274	48.234906	49.142667	8.7387
709	9	4	4	4	0	59.851656	71.072068	57.87712	68.640527	8.274	48.234906	54.182641	8.7387
710	9	4	4	1	3	79.033392	60.893006	77.580377	58.940566	10.4056	81.949343	49.45147	9.9436
711	9	4	4	1	3	79.033392	55.982825	77.580377	54.029744	10.4056	81.949343	46.246577	9.9436
712	9	4	4	1	3	79.033392	55.136279	77.580377	53.19534	10.4056	81.949343	45.660673	9.9436
713	9	3	3	2	3	48.211106	68.521972	47.324753	66.012524	10.4562	48.214675	56.499622	10.334
714	9	3	3	3	2	44.435437	64.001191	43.267586	61.664976	9.8113	40.688167	50.624244	10.1077
715	9	3	3	3	2	44.435437	64.820259	43.267586	62.443162	9.8113	40.688167	51.18668	10.1077
716	8	5	2	5	0	73.827446	57.272801	71.429273	55.298211	6.4794	56.16543	42.304034	6.7937
717	8	5	2	3	2	92.087197	60.372281	89.79154	58.170507	7.906	84.236656	52.521889	7.8091
718	8	5	2	4	1	82.786657	59.378471	80.33599	57.221666	6.9925	68.974363	51.393842	7.1788
719	8	5	2	4	1	82.786657	55.617402	80.33599	53.634377	6.9925	68.974363	49.813363	7.1788
720	8	5	2	5	0	73.827446	54.161513	71.429273	52.286638	6.4794	56.16543	39.772647	6.7937
721	8	5	2	5	0	73.827446	65.349213	71.429273	63.119836	6.4794	56.16543	49.015835	6.7937
722	8	5	2	4	1	82.786657	58.294797	80.33599	56.176595	6.9925	68.974363	50.182697	7.1788
723	8	5	2	5	0	73.827446	65.084159	71.429273	62.863051	6.4794	56.16543	48.792274	6.7937
724	8	5	3	3	1	87.966561	58.654296	85.362558	56.523285	7.2275	76.332681	51.108976	7.4311
725	8	5	3	4	0	78.446778	64.903174	75.898553	62.687715	6.7143	62.157265	49.12587	7.046
726	8	5	4	3	0	83.355139	64.932235	80.647473	62.715869	6.9493	68.788322	49.700284	7.2984
727	8	5	5	0	2	110.476793	73.992828	107.722699	71.303786	8.6109	114.174617	79.138149	8.5662
728	8	5	5	1	1	99.318957	69.558484	96.378898	67.040433	7.6974	93.48806	57.052906	7.9359
729	8	5	5	1	1	99.318957	48.780652	96.378898	47.240658	7.6974	93.48806	56.146454	7.9359
730	8	5	5	2	0	88.570613	67.556075	85.69353	65.258099	7.1842	76.126792	52.701719	7.5508
731	8	5	5	1	1	99.318957	56.47453	96.378898	54.763532	7.6974	93.48806	44.219043	7.9359
732	8	5	5	1	1	99.318957	48.780652	96.378898	47.240658	7.6974	93.48806	44.984678	7.9359
733	8	4	2	3	2	65.892234	58.151013	64.249596	56.029034	8.1219	60.274845	45.75778	8.1599
734	8	4	2	4	1	59.237309	53.696632	57.483755	51.742537	7.5317	49.354037	45.18627	7.8059
735	8	4	2	4	1	59.237309	55.982247	57.483755	53.909616	7.5317	49.354037	43.28712	7.8059
736	8	4	2	4	1	59.237309	60.491762	57.483755	58.29533	7.5317	49.354037	52.651898	7.8059
737	8	4	2	5	0	52.82662	54.511042	51.110627	52.624922	-	40.18871	40.055555	-
738	8	4	3	3	1	64.724148	60.76836	62.808172	58.562087	7.694	56.164158	47.937278	7.9802
739	8	4	3	3	1	64.724148	57.680851	62.808172	55.545357	7.694	56.164158	45.230299	7.9802
740	8	4	3	3	1	64.724148	61.2165	62.808172	58.950553	7.694	56.164158	47.725323	7.9802
741	8	4	3	4	0	57.719671	59.848724	55.844734	57.792233	7.4086	45.734152	44.827542	7.8093
742	8	4	3	4	0	57.719671	65.405736	55.844734	63.174597	7.4086	45.734152	49.55821	7.8093
743	8	4	3	1	3	78.913281	56.030769	77.648456	53.97692	9.5403	83.022857	53.358417	9.0141
744	8	4	4	0	3	86.222601	67.57342	84.840622	65.101777	9.7025	94.478772	74.626223	9.1884
745	8	4	4	1	2	78.664045	65.868389	76.703016	63.469574	8.4464	78.056529	54.337134	8.5084
746	8	4	4	1	2	78.664045	67.161086	76.703016	64.690195	8.4464	78.056529	55.067776	8.5084
747	8	4	4	1	2	78.664045	58.833177	76.703016	56.858939	8.4464	78.056529	58.15021	8.5084
748	8	4	4	2	1	70.719204	60.845526	68.625761	58.636507	-	63.913973	54.288423	-
749	8	4	4	2	1	70.719204	60.636323	68.625761	58.391838	-	63.913973	49.650417	-
750	8	4	4	3	0	63.065939	62.006928	61.017337	59.882279	7.5709	52.044783	47.146577	7.9835

751	8	4	4	3	0	63.065939	61.597924	61.017337	59.48616	7.5709	52.044783	46.792224	7.9835
752	8	4	4	1	2	78.664045	54.15813	76.703016	53.086729	8.4464	78.056529	43.98721	8.5084
753	8	4	4	1	2	78.664045	54.652024	76.703016	52.710489	8.4464	78.056529	45.266704	8.5084
754	8	4	4	1	2	78.664045	49.069418	76.703016	47.39439	8.4464	78.056529	40.63979	8.5084
755	8	3	2	3	2	42.798262	58.515387	41.731337	56.380313	8.8121	39.14966	46.096582	9.0344
756	8	3	3	1	3	53.132388	68.288558	52.280781	65.79109	9.482	55.89937	56.116263	9.2876
757	8	3	3	2	2	48.474629	62.899581	47.266197	60.60713	8.837	46.182975	51.705607	9.0612
758	8	3	3	2	2	48.474629	62.018966	47.266197	59.736085	8.837	46.182975	50.848882	9.0612
759	8	3	3	3	1	43.578832	61.821567	42.288803	59.577839	8.6314	37.815381	48.309255	9.0415
760	7	5	1	4	1	80.582309	41.377179	78.282861	39.868216	6.2185	66.162073	33.524516	6.3474
761	7	5	2	3	1	86.369877	52.835696	83.905279	50.917184	6.4534	74.288381	45.962971	6.5998
762	7	5	2	3	1	86.369877	58.16214	83.905279	56.104098	6.4534	74.288381	51.698721	6.5998
763	7	5	2	4	0	75.772869	70.75527	73.360925	68.390736	5.9403	58.743086	52.300474	6.2147
764	7	5	2	4	0	75.772869	67.93215	73.360925	65.652117	5.9403	58.743086	48.720225	6.2147
765	7	5	3	3	0	81.215014	59.630866	78.62984	57.604061	6.1753	65.958162	45.442893	6.4671
766	7	5	5	0	1	106.348185	73.072056	103.313497	70.439086	7.1583	105.161375	76.21555	7.3569
767	7	5	5	1	0	93.299971	63.460003	90.330118	61.31551	6.6452	83.155719	50.133915	6.9718
768	7	5	5	1	0	93.299971	51.791705	90.330118	50.010538	6.6452	83.155719	39.569784	6.9718
769	7	4	2	3	1	62.794185	54.798275	61.002328	52.809978	6.8286	54.010477	43.036412	7.0507
770	7	4	2	3	1	62.794185	51.933405	61.002328	50.010719	6.8286	54.010477	40.546611	7.0507
771	7	4	2	4	0	55.089757	53.944022	53.336182	52.094784	6.5433	42.708457	40.176791	6.8798
772	7	4	2	4	0	55.089757	72.574202	53.336182	70.155659	6.5433	42.708457	52.86157	6.8798
773	7	4	3	3	0	60.958986	55.752055	59.018587	53.846002	6.7055	49.507382	42.095123	7.0541
774	7	4	3	1	2	78.474901	59.264031	76.655297	58.353644	7.581	78.677296	46.727749	7.579
775	7	4	3	1	2	78.474901	49.274234	76.655297	47.526015	7.581	78.677296	48.276827	7.579
776	7	4	4	0	2	86.835569	67.734901	84.822106	65.275462	7.7433	91.202239	72.980076	7.7532
777	7	4	4	1	1	76.887048	63.499776	74.693046	61.203356	7.1531	72.575522	51.833318	7.3993
778	7	4	4	2	0	67.453519	61.594983	65.306391	59.507622	6.8678	57.388653	47.740754	7.2283
779	7	4	4	1	1	76.887048	51.138842	74.693046	49.601608	7.1531	72.575522	39.83042	7.3993
780	7	3	2	2	2	47.019714	56.781012	45.929464	54.712623	7.8378	44.999682	46.514617	7.988
781	7	3	2	3	1	41.63279	55.777572	40.444782	53.754494	7.6322	35.809158	43.379117	7.9682
782	7	3	2	3	1	41.63279	52.265587	40.444782	50.330607	7.6322	35.809158	40.85067	7.9682
783	7	3	3	0	3	60.204953	61.36521	59.422917	59.121714	8.5077	67.606016	68.277766	8.2411
784	7	3	3	1	2	54.211979	59.75974	52.954961	57.584756	7.8628	54.351797	49.105428	8.0148
785	7	3	3	1	2	54.211979	60.976672	52.954961	58.733874	7.8628	54.351797	49.787693	8.0148
786	7	3	3	2	1	48.001056	55.047934	46.631327	53.050768	7.6571	43.251241	49.059963	7.995
787	7	3	3	2	1	48.001056	57.159037	46.631327	55.042972	7.6571	43.251241	45.892835	7.995
788	7	3	3	2	1	48.001056	54.85226	46.631327	52.821916	7.6571	43.251241	44.743298	7.995
789	7	3	3	3	0	42.111646	56.135063	40.771181	54.217017	7.6526	34.200656	42.422944	8.0912
790	6	5	1	4	0	72.348892	44.984601	70.108909	43.439128	5.1663	54.48077	33.12642	5.3833
791	6	5	2	3	0	78.446742	62.054126	76.017964	59.9856	5.4013	62.364913	45.292194	5.6357
792	6	5	5	0	0	100.000918	100.000918	96.904804	96.895305	6.1061	93.54737	93.506494	6.3928
793	6	4	1	3	1	60.310121	41.896761	58.675043	40.373171	-	51.266819	35.324644	-
794	6	4	1	3	1	60.310121	41.183698	58.675043	39.685568	-	51.266819	34.567704	-
795	6	4	1	3	1	60.310121	40.010642	58.675043	38.554431	-	51.266819	33.33713	-
796	6	4	2	3	0	58.258804	49.321945	56.455061	47.640251	5.8401	46.315565	37.023718	6.1246
797	6	4	3	1	1	76.379989	55.927287	74.309238	54.354771	6.2877	72.365886	41.760062	6.4698
798	6	4	3	1	1	76.379989	42.341852	74.309238	40.879845	6.2877	72.365886	41.478076	6.4698
799	6	4	4	0	1	85.955621	65.918614	83.625263	63.546877	6.45	85.977069	69.226255	6.6441
800	6	4	4	1	0	73.782089	56.855237	71.497733	54.942312	6.1646	65.376924	44.625066	6.4731
801	6	4	4	1	0	73.782089	46.018532	71.497733	44.440382	6.1646	65.376924	34.938525	6.4731
802	6	3	2	2	1	46.248741	48.679293	44.994883	46.914352	6.6579	41.504974	43.336705	6.9218
803	6	3	2	2	1	46.248741	50.607665	44.994883	48.734163	6.6579	41.504974	40.459216	6.9218
804	6	3	2	3	0	39.698727	49.671737	38.46962	47.979154	6.6534	31.560363	37.319634	7.0179

805	6	3	3	0	2	62.931721	60.590474	61.618999	58.39237	6.8885	67.53412	65.76203	6.9684
806	6	3	3	1	1	54.603154	56.647588	53.122799	54.60099	6.6829	51.733519	46.02295	6.9486
807	6	3	3	1	1	54.603154	53.09912	53.122799	51.299628	6.6829	51.733519	45.762786	6.9486
808	6	3	3	2	0	46.86994	54.881216	45.418806	53.028224	6.6784	39.338144	42.269382	7.0447
809	6	2	2	1	2	31.042983	52.989719	30.395443	51.062307	7.6771	31.554625	43.378094	7.9678
810	5	4	1	3	0	54.678289	46.549406	53.052101	44.980451	-	42.189734	35.167931	-
811	5	4	1	3	0	54.678289	45.499089	53.052101	43.962103	-	42.189734	34.271384	-
812	5	4	1	3	0	54.678289	43.796759	53.052101	42.311926	-	42.189734	32.829641	-
813	5	4	3	1	0	72.597587	49.611957	70.43846	47.950694	5.2993	63.803397	35.800443	5.5436
814	5	4	4	0	0	83.651901	90.538826	81.164008	87.7742	5.4615	78.46253	84.754081	5.7179
815	5	3	1	2	1	43.902443	41.763245	42.799888	40.250019	5.6586	39.178007	37.14073	5.8485
816	5	3	1	2	1	43.902443	40.995276	42.799888	39.509269	5.6586	39.178007	36.23523	5.8485
817	5	3	1	2	1	43.902443	40.324569	42.799888	38.862354	5.6586	39.178007	35.453406	5.8485
818	5	3	1	2	1	43.902443	39.533993	42.799888	38.099843	5.6586	39.178007	34.542433	5.8485
819	5	3	1	2	1	43.902443	38.845145	42.799888	37.435469	5.6586	39.178007	33.757856	5.8485
820	5	3	2	2	0	44.611011	47.428963	43.284234	45.833359	5.6791	36.736587	36.30688	5.9715
821	5	3	3	0	1	65.399051	57.668307	63.756636	55.596455	5.7086	66.474465	60.98023	5.9021
822	5	3	3	1	0	54.44819	49.400974	52.828845	47.746027	5.7041	47.852548	38.528206	5.9983
823	5	2	2	0	2	39.057354	52.565589	38.370277	50.660252	6.1856	43.195704	57.46711	6.3658
824	5	2	2	1	1	32.93977	49.013935	32.112528	47.244836	6.4695	31.371775	39.639135	6.7832
825	5	2	2	1	1	32.93977	45.271536	32.112528	43.595635	6.4695	31.371775	36.730724	6.7832
826	4	3	1	2	0	41.425101	47.660983	40.268993	46.099199	4.6799	33.153259	35.880976	4.8982
827	4	3	1	2	0	41.425101	45.9371	40.268993	44.424684	4.6799	33.153259	33.253749	4.8982
828	4	3	1	2	0	41.425101	45.35277	40.268993	43.857209	4.6799	33.153259	33.131468	4.8982
829	4	3	1	2	0	41.425101	42.61525	40.268993	41.199475	4.6799	33.153259	30.658747	4.8982
830	4	3	1	2	0	41.425101	42.467205	40.268993	41.055783	4.6799	33.153259	30.543841	4.8982
831	4	3	3	0	0	68.173725	78.575689	66.271105	76.220019	4.7298	64.20101	73.643561	4.9519
832	4	2	1	1	1	31.378668	40.617958	30.684888	39.153278	5.2457	30.119613	38.92669	5.4687
833	4	2	2	0	1	44.548598	48.311204	43.563631	46.578058	4.978	46.385262	51.438995	5.1812
834	4	2	2	0	1	44.548598	42.378723	43.563631	40.898478	4.978	46.385262	46.285502	5.1812
835	4	2	2	1	0	35.428196	41.107277	34.439452	39.736029	5.3534	30.756916	31.861522	5.6452
836	3	2	1	1	0	34.023355	41.04558	33.177999	39.726682	4.1296	28.939504	30.209039	4.3307
837	3	2	2	0	0	54.288751	63.82962	52.939874	61.953768	3.8619	51.467364	59.899479	4.0432
838	3	1	1	0	1	23.088398	37.848523	22.693979	36.492685	2.2609	25.025191	40.576542	2.3857
839	2	1	1	0	0	44.721606	46.011995	43.885614	44.688628	1.3654	42.966893	43.237414	1.4295

Table of Criteria Values for SCDs

Dsgn	P	dv	l	c	q	$r_s = 2, n_0 = 1$			$r_s = 2, n_0 = 3$		
						D	G	IV	D	G	IV
1	21	5	5	10	5	73.127928	56.756757	56.7476	73.103883	74.115582	28.8082
2	20	5	5	9	5	75.074339	54.054054	56.0089	75.246222	71.860974	28.0296
3	20	5	5	10	4	74.174821	74.40197	21.2588	71.490139	70.58674	19.8692
4	19	5	4	10	4	73.12303	71.996181	20.4928	70.534967	68.304322	19.0617
5	19	5	5	8	5	77.285966	51.351351	55.2702	77.687188	69.401557	27.2509
6	19	5	5	8	5	77.285966	51.351351	55.2702	77.687188	71.491712	27.2509
7	19	5	5	9	4	76.311519	71.958308	20.5201	73.610606	68.26839	19.0906
8	19	5	5	9	4	76.311519	72.101141	20.5201	73.610606	68.565603	19.0906
9	19	5	5	10	3	71.464615	70.682689	17.0266	68.412433	67.057969	17.1293
10	18	5	4	9	4	75.288457	69.461975	19.7541	72.690795	65.900071	18.2831
11	18	5	4	10	3	70.249959	68.207713	16.2605	67.283272	64.709914	16.3219
12	18	5	5	7	5	79.819825	48.648649	54.5315	80.492353	73.294356	26.4723
13	18	5	5	7	5	79.819825	48.648649	54.5315	80.492353	66.751445	26.4723
14	18	5	5	7	5	79.819825	48.648649	54.5315	80.492353	76.724508	26.4723
15	18	5	5	8	4	78.757893	69.303054	19.7814	76.040527	65.749298	18.3119
16	18	5	5	8	4	78.757893	69.302867	19.7814	76.040527	65.748909	18.3119
17	18	5	5	8	4	78.757893	71.390249	19.7814	76.040527	67.729473	18.3119
18	18	5	5	8	4	78.757893	72.469702	19.7814	76.040527	70.011328	18.3119
19	18	5	5	8	4	78.757893	71.432178	19.7814	76.040527	67.816575	18.3119
20	18	5	5	9	3	73.487212	68.171832	16.2879	70.383814	64.675873	16.3507
21	18	5	5	9	3	73.487212	68.174441	16.2879	70.383814	64.67835	16.3507
22	18	5	5	9	3	73.487212	70.412912	16.2879	70.383814	67.11335	16.3507
23	18	5	5	10	2	67.740715	66.965073	15.249	64.657251	63.53101	15.6991
24	17	5	4	8	4	77.784613	66.713337	19.0154	75.178317	63.292382	17.5045
25	17	5	4	8	4	77.784613	68.762418	19.0154	75.178317	65.236398	17.5045
26	17	5	4	9	3	72.283942	65.603765	15.5218	69.27004	62.239501	15.5432
27	17	5	4	9	3	72.283942	65.606323	15.5218	69.27004	62.24193	15.5432
28	17	5	4	9	3	72.283942	65.944841	15.5218	69.27004	62.621574	15.5432
29	17	5	4	10	2	66.313159	64.42087	14.483	63.31723	61.117278	14.8916
30	17	5	5	6	5	82.750219	45.945946	53.7928	83.747572	73.686295	25.6937
31	17	5	5	6	5	82.750219	45.945946	53.7928	83.747572	70.40122	25.6937
32	17	5	5	7	4	81.585	72.964458	19.0427	78.851365	69.222981	17.5333
33	17	5	5	7	4	81.585	72.964238	19.0427	78.851365	69.222525	17.5333
34	17	5	5	7	4	81.585	73.128635	19.0427	78.851365	69.564712	17.5333
35	17	5	5	7	4	81.585	66.450976	19.0427	78.851365	63.043474	17.5333
36	17	5	5	7	4	81.585	66.587121	19.0427	78.851365	63.326791	17.5333
37	17	5	5	7	4	81.585	76.379184	19.0427	78.851365	72.46262	17.5333
38	17	5	5	7	4	81.585	76.378943	19.0427	78.851365	72.46212	17.5333
39	17	5	5	7	4	81.585	76.430005	19.0427	78.851365	72.568205	17.5333
40	17	5	5	8	3	75.815577	65.453668	15.5492	72.654423	62.097102	15.5721
41	17	5	5	8	3	75.815577	67.490063	15.5492	72.654423	64.360034	15.5721
42	17	5	5	8	3	75.815577	65.453703	15.5492	72.654423	62.097441	15.5721
43	17	5	5	8	3	75.815577	67.568882	15.5492	72.654423	64.420634	15.5721
44	17	5	5	6	5	82.750219	45.945946	53.7928	83.747572	73.474619	25.6937
45	17	5	5	8	3	75.815577	67.424957	15.5492	72.654423	63.9673	15.5721
46	17	5	5	8	3	75.815577	70.217179	15.5492	72.654423	67.072277	15.5721
47	17	5	5	8	3	75.815577	67.546396	15.5492	72.654423	64.096298	15.5721
48	17	5	5	9	2	69.553075	64.386979	14.5103	66.410771	61.085125	14.9205
49	17	5	5	9	2	69.553075	66.952205	14.5103	66.410771	63.675903	14.9205
50	17	5	5	9	2	69.553075	66.50132	14.5103	66.410771	63.399678	14.9205
51	17	5	5	10	1	63.437	65.989861	14.1958	60.448447	62.696962	14.7606

52	16	5	3	9	3	70.953797	62.820763	14.7558	68.038097	59.599216	14.7358
53	16	5	4	7	4	80.691848	70.149918	18.2767	78.078673	66.552771	16.7258
54	16	5	4	7	4	80.691848	63.765218	18.2767	78.078673	60.495442	16.7258
55	16	5	4	7	4	80.691848	73.506938	18.2767	78.078673	69.737664	16.7258
56	16	5	4	8	3	74.64265	62.78979	14.7831	71.575364	59.569832	14.7646
57	16	5	4	8	3	74.64265	64.782119	14.7831	71.575364	61.784024	14.7646
58	16	5	4	8	3	74.64265	64.718385	14.7831	71.575364	61.399526	14.7646
59	16	5	4	8	3	74.64265	67.453969	14.7831	71.575364	64.441951	14.7646
60	16	5	4	8	3	74.64265	64.837267	14.7831	71.575364	61.525808	14.7646
61	16	5	4	9	2	68.109047	61.747135	13.7443	65.058053	58.580656	14.113
62	16	5	4	9	2	68.109047	64.255668	13.7443	65.058053	61.1143	14.113
63	16	5	4	10	1	61.763622	63.314148	13.4297	58.870043	60.156469	13.9532
64	16	5	5	5	5	86.175703	43.243243	53.0541	87.567314	70.610321	24.915
65	16	5	5	6	4	84.886977	73.100828	18.304	82.137945	69.352377	16.7547
66	16	5	5	6	4	84.886977	73.275944	18.304	82.137945	69.716941	16.7547
67	16	5	5	5	5	86.175703	43.243243	53.0541	87.567314	69.531064	24.915
68	16	5	5	5	5	86.175703	43.243243	53.0541	87.567314	70.170383	24.915
69	16	5	5	5	5	86.175703	43.243243	53.0541	87.567314	76.525996	24.915
70	16	5	5	6	4	84.886977	69.841842	18.304	82.137945	66.260492	16.7547
71	16	5	5	6	4	84.886977	69.841629	18.304	82.137945	66.260048	16.7547
72	16	5	5	6	4	84.886977	70.75126	18.304	82.137945	68.178041	16.7547
73	16	5	5	6	4	84.886977	70.001675	18.304	82.137945	66.593197	16.7547
74	16	5	5	7	3	78.523285	68.673348	14.8105	75.296532	65.151676	14.7934
75	16	5	5	7	3	78.523285	69.070679	14.8105	75.296532	65.596812	14.7934
76	16	5	5	7	3	78.523285	68.673389	14.8105	75.296532	65.152072	14.7934
77	16	5	5	7	3	78.523285	69.107317	14.8105	75.296532	65.624643	14.7934
78	16	5	5	7	3	78.523285	62.542856	14.8105	75.296532	59.335561	14.7934
79	16	5	5	7	3	78.523285	62.872243	14.8105	75.296532	59.704545	14.7934
80	16	5	5	7	3	78.523285	63.554403	14.8105	75.296532	60.908087	14.7934
81	16	5	5	5	5	86.175703	43.243243	53.0541	87.567314	72.817205	24.915
82	16	5	5	7	3	78.523285	71.887296	14.8105	75.296532	68.200809	14.7934
83	16	5	5	7	3	78.523285	72.376952	14.8105	75.296532	68.672925	14.7934
84	16	5	5	7	3	78.523285	75.396165	14.8105	75.296532	71.925978	14.7934
85	16	5	5	7	3	78.523285	72.361171	14.8105	75.296532	68.660667	14.7934
86	16	5	5	7	3	78.523285	73.118893	14.8105	75.296532	69.397163	14.7934
87	16	5	5	8	2	71.650003	61.605857	13.7716	68.440389	58.446623	14.1419
88	16	5	5	8	2	71.650003	64.052535	13.7716	68.440389	60.927139	14.1419
89	16	5	5	8	2	71.650003	63.522183	13.7716	68.440389	60.583152	14.1419
90	16	5	5	8	2	71.650003	64.153311	13.7716	68.440389	61.009623	14.1419
91	16	5	5	8	2	71.650003	63.595134	13.7716	68.440389	60.64289	14.1419
92	16	5	5	6	4	84.886977	74.155055	18.304	82.137945	70.35255	16.7547
93	16	5	5	6	4	84.886977	72.910107	18.304	82.137945	69.193174	16.7547
94	16	5	5	8	2	71.650003	66.818714	13.7716	68.440389	63.61294	14.1419
95	16	5	5	8	2	71.650003	63.591758	13.7716	68.440389	60.3377	14.1419
96	16	5	5	8	2	71.650003	66.087649	13.7716	68.440389	63.145323	14.1419
97	16	5	5	8	2	71.650003	64.443049	13.7716	68.440389	61.150806	14.1419
98	16	5	5	9	1	64.974682	63.279367	13.4571	61.930668	60.123374	13.982
99	16	5	5	9	1	64.974682	63.051985	13.4571	61.930668	60.001115	13.982
100	16	5	5	10	0	58.712477	62.210999	13.4534	55.885154	59.138611	14.0597
101	15	5	3	8	3	73.335254	59.908964	14.0171	70.371792	56.83674	13.9571
102	15	5	3	8	3	73.335254	61.782715	14.0171	70.371792	58.614403	13.9571
103	15	5	3	9	2	66.508692	58.896809	12.9782	63.558251	55.8765	13.3055
104	15	5	3	9	2	66.508692	59.300546	12.9782	63.558251	56.28608	13.3055
105	15	5	4	6	4	84.118287	66.909973	17.538	81.501242	63.478968	15.9472
106	15	5	4	7	3	77.409032	65.766445	14.0444	74.280949	62.393844	13.986

107	15	5	4	7	3	77.409032	66.155193	14.0444	74.280949	62.829374	13.986
108	15	5	4	7	3	77.409032	59.780633	14.0444	74.280949	56.71499	13.986
109	15	5	4	7	3	77.409032	60.101664	14.0444	74.280949	57.074619	13.986
110	15	5	4	7	3	77.409032	68.913739	14.0444	74.280949	65.379742	13.986
111	15	5	4	7	3	77.409032	69.393797	14.0444	74.280949	65.842605	13.986
112	15	5	4	7	3	77.409032	69.057557	14.0444	74.280949	65.532515	13.986
113	15	5	4	8	2	70.203254	58.867769	13.0056	67.088916	55.848949	13.3344
114	15	5	4	8	2	70.203254	61.252553	13.0056	67.088916	58.266842	13.3344
115	15	5	4	8	2	70.203254	60.735308	13.0056	67.088916	57.931303	13.3344
116	15	5	4	6	4	84.118287	71.138288	17.538	81.501242	67.490483	15.9472
117	15	5	4	8	2	70.203254	63.953156	13.0056	67.088916	60.889301	13.3344
118	15	5	4	8	2	70.203254	60.803153	13.0056	67.088916	57.691926	13.3344
119	15	5	4	8	2	70.203254	63.238967	13.0056	67.088916	60.432379	13.3344
120	15	5	4	8	2	70.203254	61.633526	13.0056	67.088916	58.485056	13.3344
121	15	5	4	9	1	63.249008	60.49855	12.691	60.304578	57.482935	13.1745
122	15	5	4	9	1	63.249008	60.276873	12.691	60.304578	57.363734	13.1745
123	15	5	4	10	0	56.768277	59.457264	12.6873	54.046431	56.523069	13.2523
124	15	5	5	4	5	90.22965	40.540541	52.3154	92.10739	74.588606	24.1364
125	15	5	5	4	5	90.22965	40.540541	52.3154	92.10739	76.707656	24.1364
126	15	5	5	5	4	88.791063	69.775669	17.5653	86.028641	66.19773	15.976
127	15	5	5	5	4	88.791063	69.775441	17.5653	86.028641	66.197257	15.976
128	15	5	5	5	4	88.791063	69.945859	17.5653	86.028641	66.55206	15.976
129	15	5	5	6	3	81.709108	68.533001	14.0718	78.407261	65.018528	14.0148
130	15	5	5	6	3	81.709108	68.533044	14.0718	78.407261	65.018949	14.0148
131	15	5	5	5	4	88.791063	68.709165	17.5653	86.028641	65.185909	15.976
132	15	5	5	5	4	88.791063	68.709593	17.5653	86.028641	65.186799	15.976
133	15	5	5	5	4	88.791063	70.765973	17.5653	86.028641	69.613153	15.976
134	15	5	5	4	5	90.22965	40.540541	17.5653	92.10739	74.420406	24.1364
135	15	5	5	5	4	88.791063	69.340929	17.5653	86.028641	65.785281	15.976
136	15	5	5	5	4	88.791063	69.341366	17.5653	86.028641	65.786187	15.976
137	15	5	5	5	4	88.791063	69.509003	17.5653	86.028641	66.135198	15.976
138	15	5	5	5	4	88.791063	75.62144	17.5653	86.028641	71.743771	15.976
139	15	5	5	5	4	88.791063	76.515433	17.5653	86.028641	72.617465	15.976
140	15	5	5	5	4	88.791063	75.821383	17.5653	86.028641	72.160146	15.976
141	15	5	5	6	3	81.709108	65.477617	14.0718	78.407261	62.119827	14.0148
142	15	5	5	6	3	81.709108	67.62493	14.0718	78.407261	64.157298	14.0148
143	15	5	5	6	3	81.709108	65.862947	14.0718	78.407261	62.551526	14.0148
144	15	5	5	6	3	81.709108	65.477656	14.0718	78.407261	62.120211	14.0148
145	15	5	5	6	3	81.709108	67.620191	14.0718	78.407261	64.153485	14.0148
146	15	5	5	6	3	81.709108	65.898482	14.0718	78.407261	62.57852	14.0148
147	15	5	5	6	3	81.709108	66.662474	14.0718	78.407261	63.964004	14.0148
148	15	5	5	7	2	74.103049	66.456726	13.0329	70.815709	63.049261	13.3632
149	15	5	5	7	2	74.103049	66.624665	13.0329	70.815709	63.581999	13.3632
150	15	5	5	7	2	74.103049	66.4516	13.0329	70.815709	63.044961	13.3632
151	15	5	5	7	2	74.103049	66.710277	13.0329	70.815709	63.652192	13.3632
152	15	5	5	7	2	74.103049	66.790634	13.0329	70.815709	63.718603	13.3632
153	15	5	5	7	2	74.103049	58.63625	13.0329	70.815709	55.629303	13.3632
154	15	5	5	7	2	74.103049	59.036411	13.0329	70.815709	56.035254	13.3632
155	15	5	5	7	2	74.103049	60.488897	13.0329	70.815709	57.695006	13.3632
156	15	5	5	5	4	88.791063	71.956474	17.5653	86.028641	68.266718	15.976
157	15	5	5	7	2	74.103049	71.078393	13.0329	70.815709	67.433406	13.3632
158	15	5	5	7	2	74.103049	67.862912	13.0329	70.815709	64.386747	13.3632
159	15	5	5	7	2	74.103049	70.68411	13.0329	70.815709	67.589603	13.3632
160	15	5	5	7	2	74.103049	68.597224	13.0329	70.815709	65.092184	13.3632
161	15	5	5	8	1	66.762495	60.353901	12.7184	63.654501	57.345289	13.2034

162	15	5	5	8	1	66.762495	60.133281	12.7184	63.654501	57.226658	13.2034
163	15	5	5	8	1	66.762495	60.185388	12.7184	63.654501	57.270632	13.2034
164	15	5	5	6	3	81.709108	69.521367	14.0718	78.407261	65.956209	14.0148
165	15	5	5	6	3	81.709108	69.955919	14.0718	78.407261	66.443086	14.0148
166	15	5	5	6	3	81.709108	68.767133	14.0718	78.407261	65.249171	14.0148
167	15	5	5	8	1	66.762495	62.699297	12.7184	63.654501	59.741057	13.2034
168	15	5	5	8	1	66.762495	60.438635	12.7184	63.654501	57.346019	13.2034
169	15	5	5	8	1	66.762495	63.492255	12.7184	63.654501	60.433752	13.2034
170	15	5	5	9	0	59.921758	59.424546	12.7147	57.048714	56.491903	13.2811
171	15	4	4	6	4	58.861917	70.103755	17.687	57.030635	66.508994	16.6489
172	14	5	3	7	3	76.154948	62.600264	13.2784	73.137046	59.39003	13.1785
173	14	5	3	7	3	76.154948	56.800023	13.2784	73.137046	53.88723	13.1785
174	14	5	3	7	3	76.154948	65.6584	13.2784	73.137046	62.291342	13.1785
175	14	5	3	8	2	68.585562	55.917296	12.2395	65.577023	53.049781	12.5269
176	14	5	3	8	2	68.585562	58.22437	12.2395	65.577023	55.389	12.5269
177	14	5	3	8	2	68.585562	60.840979	12.2395	65.577023	57.930196	12.5269
178	14	5	3	8	2	68.585562	57.789361	12.2395	65.577023	54.832465	12.5269
179	14	5	3	9	1	61.33286	57.494578	11.925	58.498405	54.630207	12.3671
180	14	5	4	5	4	88.212736	65.603181	16.7993	85.596837	62.2392	15.1686
181	14	5	4	5	4	88.212736	66.220388	16.7993	85.596837	62.82476	15.1686
182	14	5	4	5	4	88.212736	72.370405	16.7993	85.596837	68.659449	15.1686
183	14	5	4	6	3	80.696374	62.450175	13.3057	77.498502	59.247637	13.2073
184	14	5	4	6	3	80.696374	64.544539	13.3057	77.498502	61.234868	13.2073
185	14	5	4	6	3	80.696374	62.825782	13.3057	77.498502	59.668453	13.2073
186	14	5	4	7	2	72.675595	61.384743	12.2669	69.487644	58.236854	12.5558
187	14	5	4	7	2	72.675595	61.855013	12.2669	69.487644	58.713956	12.5558
188	14	5	4	7	2	72.675595	63.404767	12.2669	69.487644	60.153799	12.5558
189	14	5	4	7	2	72.675595	63.568564	12.2669	69.487644	60.673465	12.5558
190	14	5	4	7	2	72.675595	55.797512	12.2669	69.487644	52.936139	12.5558
191	14	5	4	7	2	72.675595	56.185799	12.2669	69.487644	53.330049	12.5558
192	14	5	4	7	2	72.675595	57.596058	12.2669	69.487644	54.941738	12.5558
193	14	5	4	5	4	88.212736	68.778443	16.7993	85.596837	65.251656	15.1686
194	14	5	4	7	2	72.675595	67.919163	12.2669	69.487644	64.436186	12.5558
195	14	5	4	7	2	72.675595	64.776838	12.2669	69.487644	61.458838	12.5558
196	14	5	4	7	2	72.675595	65.477932	12.2669	69.487644	62.134871	12.5558
197	14	5	4	8	1	64.990385	57.464929	11.9523	61.986901	54.601992	12.3959
198	14	5	4	8	1	64.990385	57.201133	11.9523	61.986901	54.444613	12.3959
199	14	5	4	8	1	64.990385	57.250654	11.9523	61.986901	54.486761	12.3959
200	14	5	4	6	3	80.696374	66.396716	13.3057	77.498502	62.991796	13.2073
201	14	5	4	6	3	80.696374	66.821457	13.3057	77.498502	63.467694	13.2073
202	14	5	4	8	1	64.990385	59.744822	11.9523	61.986901	56.931131	12.3959
203	14	5	4	8	1	64.990385	57.547234	11.9523	61.986901	54.602701	12.3959
204	14	5	4	8	1	64.990385	60.516443	11.9523	61.986901	57.605295	12.3959
205	14	5	4	9	0	57.882553	56.562516	11.9486	55.121097	53.773287	12.4736
206	14	5	5	3	5	95.096772	37.837838	51.5767	97.584981	74.608397	23.3578
207	14	5	5	3	5	95.096772	37.837838	51.5767	97.584981	74.100956	23.3578
208	14	5	5	4	4	93.473216	73.379377	16.8266	90.701321	69.616688	15.1974
209	14	5	5	4	4	93.473216	73.379107	16.8266	90.701321	69.616127	15.1974
210	14	5	5	4	4	93.473216	73.3799	16.8266	90.701321	69.617775	15.1974
211	14	5	5	4	4	93.473216	73.581108	16.8266	90.701321	70.03684	15.1974
212	14	5	5	4	4	93.473216	75.464082	16.8266	90.701321	71.594505	15.1974
213	14	5	5	4	4	93.473216	77.454238	16.8266	90.701321	73.694537	15.1974
214	14	5	5	5	3	85.508623	65.1249	13.3331	82.12005	61.7852	13.2362
215	14	5	5	5	3	85.508623	65.533476	13.3331	82.12005	62.242975	13.2362
216	14	5	5	5	3	85.508623	65.124942	13.3331	82.12005	61.785607	13.2362

217	14	5	5	5	3	85.508623	67.684859	13.3331	82.12005	64.60029	13.2362
218	14	5	5	5	3	85.508623	66.382244	13.3331	82.12005	63.743691	13.2362
219	14	5	5	6	2	77.009534	63.967096	12.2942	73.631472	60.686783	12.5846
220	14	5	5	6	2	77.009534	67.130341	12.2942	73.631472	63.870829	12.5846
221	14	5	5	5	3	85.508623	64.129468	13.3331	82.12005	60.840815	13.2362
222	14	5	5	5	3	85.508623	64.132437	13.3331	82.12005	60.843633	13.2362
223	14	5	5	5	3	85.508623	68.775688	13.3331	82.12005	65.326041	13.2362
224	14	5	5	5	3	85.508623	64.130363	13.3331	82.12005	60.843503	13.2362
225	14	5	5	5	3	85.508623	68.8573	13.3331	82.12005	65.38889	13.2362
226	14	5	5	3	5	95.096772	37.837838	51.5767	97.584981	69.628602	23.3578
227	14	5	5	4	4	93.473216	75.464082	16.8266	90.701321	71.594505	15.1974
228	14	5	5	4	4	93.473216	73.236127	16.8266	90.701321	69.505851	15.1974
229	14	5	5	4	4	93.473216	73.414724	16.8266	90.701321	69.877951	15.1974
230	14	5	5	5	3	85.508623	64.719132	13.3331	82.12005	61.40024	13.2362
231	14	5	5	5	3	85.508623	64.722156	13.3331	82.12005	61.40311	13.2362
232	14	5	5	5	3	85.508623	65.122616	13.3331	82.12005	61.852307	13.2362
233	14	5	5	5	3	85.508623	67.335015	13.3331	82.12005	64.248411	13.2362
234	14	5	5	5	3	85.508623	65.960707	13.3331	82.12005	63.33402	13.2362
235	14	5	5	5	3	85.508623	71.982339	13.3331	82.12005	68.290984	13.2362
236	14	5	5	5	3	85.508623	71.061276	13.3331	82.12005	67.499647	13.2362
237	14	5	5	5	3	85.508623	71.418366	13.3331	82.12005	67.792503	13.2362
238	14	5	5	5	3	85.508623	72.261797	13.3331	82.12005	68.590946	13.2362
239	14	5	5	6	2	77.009534	61.115146	12.2942	73.631472	57.981082	12.5846
240	14	5	5	6	2	77.009534	63.116728	12.2942	73.631472	59.880194	12.5846
241	14	5	5	6	2	77.009534	61.581278	12.2942	73.631472	58.453986	12.5846
242	14	5	5	6	2	77.009534	61.6052	12.2942	73.631472	58.473807	12.5846
243	14	5	5	6	2	77.009534	63.112223	12.2942	73.631472	59.876795	12.5846
244	14	5	5	6	2	77.009534	61.626475	12.2942	73.631472	58.490971	12.5846
245	14	5	5	6	2	77.009534	63.362238	12.2942	73.631472	60.463754	12.5846
246	14	5	5	7	1	68.866023	62.026647	11.9797	65.683429	58.846194	12.4248
247	14	5	5	7	1	68.866023	60.616589	11.9797	65.683429	57.523873	12.4248
248	14	5	5	7	1	68.866023	62.923819	11.9797	65.683429	59.898084	12.4248
249	14	5	5	7	1	68.866023	57.228597	11.9797	65.683429	54.37709	12.4248
250	14	5	5	7	1	68.866023	57.06627	11.9797	65.683429	54.305167	12.4248
251	14	5	5	5	3	85.508623	67.160379	13.3331	82.12005	63.716298	13.2362
252	14	5	5	5	3	85.508623	67.754127	13.3331	82.12005	64.379805	13.2362
253	14	5	5	5	3	85.508623	67.801048	13.3331	82.12005	64.415517	13.2362
254	14	5	5	7	1	68.866023	66.769812	11.9797	65.683429	63.658313	12.4248
255	14	5	5	7	1	68.866023	67.676481	11.9797	65.683429	64.208008	12.4248
256	14	5	5	7	1	68.866023	67.805876	11.9797	65.683429	64.56226	12.4248
257	14	5	5	8	0	61.334322	56.427046	11.976	58.40819	53.64423	12.5025
258	14	5	5	6	2	77.009534	68.937427	12.2942	73.631472	65.670973	12.5846
259	14	5	5	6	2	77.009534	65.415392	12.2942	73.631472	62.095424	12.5846
260	14	5	5	6	2	77.009534	64.391504	12.2942	73.631472	61.089783	12.5846
261	14	5	5	8	0	61.334322	59.596946	11.976	58.40819	56.664393	12.5025
262	14	4	4	5	4	62.121814	66.645261	16.7235	60.279627	63.227849	15.6333
263	14	4	4	6	3	56.828587	65.431123	14.3226	54.576558	62.07572	14.4381
264	14	4	4	6	3	56.828587	65.843562	14.3226	54.576558	62.537825	14.4381
265	13	5	3	6	3	79.543422	59.160797	12.5397	76.463015	56.126944	12.3999
266	13	5	3	7	2	71.062668	58.131451	11.5008	67.98618	55.150396	11.7483
267	13	5	3	7	2	71.062668	58.585705	11.5008	67.98618	55.611255	11.7483
268	13	5	3	7	2	71.062668	52.745047	11.5008	67.98618	50.04021	11.7483
269	13	5	3	7	2	71.062668	53.118749	11.5008	67.98618	50.419326	11.7483
270	13	5	3	7	2	71.062668	64.45574	11.5008	67.98618	61.150372	11.7483
271	13	5	3	7	2	71.062668	61.411125	11.5008	67.98618	58.265601	11.7483

272	13	5	3	7	2	71.062668	61.119641	11.5008	67.98618	57.993325	11.7483
273	13	5	3	8	1	63.004013	54.350496	11.1863	60.116959	51.644198	11.5884
274	13	5	3	8	1	63.004013	54.096389	11.1863	60.116959	51.492585	11.5884
275	13	5	3	6	3	79.543422	62.979859	12.5397	76.463015	59.750161	12.3999
276	13	5	3	8	1	63.004013	56.548458	11.1863	60.116959	53.889893	11.5884
277	13	5	3	8	1	63.004013	54.429787	11.1863	60.116959	51.644881	11.5884
278	13	5	3	9	0	55.615704	53.481406	11.1826	52.977717	50.846041	11.6662
279	13	5	4	5	3	84.663308	60.918128	12.567	81.384628	57.794158	12.4287
280	13	5	4	5	3	84.663308	60.921013	12.567	81.384628	57.796896	12.4287
281	13	5	4	5	3	84.663308	65.44071	12.567	81.384628	62.160158	12.4287
282	13	5	4	4	4	93.185358	71.97769	16.0606	90.578918	68.286896	14.3899
283	13	5	4	5	3	84.663308	61.491265	12.567	81.384628	58.337904	12.4287
284	13	5	4	5	3	84.663308	61.494205	12.567	81.384628	58.340694	12.4287
285	13	5	4	5	3	84.663308	61.883581	12.567	81.384628	58.777469	12.4287
286	13	5	4	5	3	84.663308	68.570844	12.567	81.384628	65.054436	12.4287
287	13	5	4	5	3	84.663308	67.671021	12.567	81.384628	64.281323	12.4287
288	13	5	4	6	2	75.636682	57.99207	11.5282	72.362174	55.018162	11.7771
289	13	5	4	6	2	75.636682	59.934337	11.5282	72.362174	56.860996	11.7771
290	13	5	4	6	2	75.636682	58.44414	11.5282	72.362174	55.476805	11.7771
291	13	5	4	6	2	75.636682	58.467344	11.5282	72.362174	55.496031	11.7771
292	13	5	4	6	2	75.636682	60.092397	11.5282	72.362174	57.36187	11.7771
293	13	5	4	7	1	67.059325	58.876214	11.2136	63.986442	55.85731	11.6173
294	13	5	4	7	1	67.059325	57.50872	11.2136	63.986442	54.574896	11.6173
295	13	5	4	7	1	67.059325	59.629819	11.2136	63.986442	56.778956	11.6173
296	13	5	4	7	1	67.059325	59.68778	11.2136	63.986442	56.828328	11.6173
297	13	5	4	7	1	67.059325	54.228637	11.2136	63.986442	51.528225	11.6173
298	13	5	4	5	3	84.663308	63.866674	12.567	81.384628	60.5915	12.4287
299	13	5	4	5	3	84.663308	64.445039	12.567	81.384628	61.237841	12.4287
300	13	5	4	7	1	67.059325	63.486361	11.2136	63.986442	60.53503	11.6173
301	13	5	4	7	1	67.059325	60.82814	11.2136	63.986442	57.716698	11.6173
302	13	5	4	7	1	67.059325	64.36939	11.2136	63.986442	61.070457	11.6173
303	13	5	4	8	0	59.19546	53.453778	11.2099	56.387677	50.819719	11.695
304	13	5	4	6	2	75.636682	65.598416	11.5282	72.362174	62.496535	11.7771
305	13	5	4	6	2	75.636682	62.168324	11.5282	72.362174	59.013925	11.7771
306	13	5	4	8	0	59.19546	56.520716	11.2099	56.387677	53.742042	11.695
307	13	5	5	2	5	101.039807	35.135135	50.838	104.311276	76.855601	22.5791
308	13	5	5	3	4	99.18332	73.024385	16.0879	96.409114	69.279925	14.4188
309	13	5	5	3	4	99.18332	73.23958	16.0879	96.409114	69.728223	14.4188
310	13	5	5	3	4	99.18332	72.527715	16.0879	96.409114	68.80872	14.4188
311	13	5	5	3	4	99.18332	72.527431	16.0879	96.409114	68.80813	14.4188
312	13	5	5	3	4	99.18332	73.739128	16.0879	96.409114	70.708187	14.4188
313	13	5	5	3	4	99.18332	72.739988	16.0879	96.409114	69.250921	14.4188
314	13	5	5	4	3	90.11274	68.139104	12.5944	86.623025	64.644836	12.4575
315	13	5	5	4	3	90.11274	68.142714	12.5944	86.623025	64.648263	12.4575
316	13	5	5	4	3	90.11274	68.621165	12.5944	86.623025	65.185022	12.4575
317	13	5	5	4	3	90.11274	68.139153	12.5944	86.623025	64.645317	12.4575
318	13	5	5	4	3	90.11274	68.665678	12.5944	86.623025	65.21885	12.4575
319	13	5	5	4	3	90.11274	68.708668	12.5944	86.623025	65.252419	12.4575
320	13	5	5	4	3	90.11274	72.131065	12.5944	86.623025	68.432086	12.4575
321	13	5	5	4	3	90.11274	76.529451	12.5944	86.623025	73.286671	12.4575
322	13	5	5	4	3	90.11274	71.520258	12.5944	86.623025	67.885475	12.4575
323	13	5	5	6	1	71.37566	62.595997	11.241	68.104989	59.493289	11.6461
324	13	5	5	6	1	71.37566	62.386958	11.241	68.104989	59.400595	11.6461
325	13	5	5	5	2	80.505107	59.551557	11.5555	77.019832	56.497678	11.806
326	13	5	5	5	2	80.505107	63.990086	11.5555	77.019832	60.744269	11.806

327	13	5	5	5	2	80.505107	59.556239	11.5555	77.019832	56.502604	11.806
328	13	5	5	5	2	80.505107	64.017904	11.5555	77.019832	60.767321	11.806
329	13	5	5	5	2	80.505107	66.159135	11.5555	77.019832	62.805405	11.806
330	13	5	5	3	4	99.18332	70.373002	16.0879	96.409114	68.275251	14.4188
331	13	5	5	3	4	99.18332	68.337685	16.0879	96.409114	65.046022	14.4188
332	13	5	5	4	3	90.11274	72.102602	12.5944	86.623025	68.405083	12.4575
333	13	5	5	4	3	90.11274	70.246611	12.5944	86.623025	66.663767	12.4575
334	13	5	5	4	3	90.11274	68.008844	12.5944	86.623025	64.55697	12.4575
335	13	5	5	4	3	90.11274	68.01051	12.5944	86.623025	64.560349	12.4575
336	13	5	5	4	3	90.11274	68.011454	12.5944	86.623025	64.563283	12.4575
337	13	5	5	4	3	90.11274	68.875949	12.5944	86.623025	65.374382	12.4575
338	13	5	5	5	2	80.505107	60.099152	11.5555	77.019832	57.017193	11.806
339	13	5	5	5	2	80.505107	62.987977	11.5555	77.019832	59.947586	11.806
340	13	5	5	5	2	80.505107	63.10796	11.5555	77.019832	60.045895	11.806
341	13	5	5	5	2	80.505107	62.444396	11.5555	77.019832	59.609234	11.806
342	13	5	5	5	2	80.505107	62.525644	11.5555	77.019832	59.676442	11.806
343	13	5	5	5	2	80.505107	66.844226	11.5555	77.019832	63.416377	11.806
344	13	5	5	5	2	80.505107	67.948594	11.5555	77.019832	64.504334	11.806
345	13	5	5	5	2	80.505107	66.319649	11.5555	77.019832	62.95975	11.806
346	13	5	5	5	2	80.505107	66.609571	11.5555	77.019832	63.19648	11.806
347	13	5	5	6	1	71.37566	58.609162	11.241	68.104989	55.603949	11.6461
348	13	5	5	6	1	71.37566	57.253902	11.241	68.104989	54.333011	11.6461
349	13	5	5	6	1	71.37566	59.355902	11.241	68.104989	56.517185	11.6461
350	13	5	5	6	1	71.37566	59.472032	11.241	68.104989	56.615682	11.6461
351	13	5	5	7	0	63.005631	58.725395	11.2373	60.017122	55.843202	11.7238
352	13	5	5	7	0	63.005631	53.233559	11.2373	60.017122	50.609911	11.7238
353	13	5	5	5	2	80.505107	66.401757	11.5555	77.019832	63.265152	11.806
354	13	5	5	5	2	80.505107	63.077792	11.5555	77.019832	59.889591	11.806
355	13	5	5	5	2	80.505107	64.395581	11.5555	77.019832	61.132001	11.806
356	13	5	5	7	0	63.005631	63.306604	11.2373	60.017122	60.210475	11.7238
357	13	5	5	6	1	71.37566	64.921136	11.241	68.104989	61.70732	11.6461
358	13	5	5	6	1	71.37566	64.031259	11.241	68.104989	61.031732	11.6461
359	13	4	3	6	3	55.469893	62.044554	13.4662	53.32176	58.86282	13.5353
360	13	4	4	4	4	66.108203	69.936804	15.76	64.259124	66.35065	14.6177
361	13	4	4	4	4	66.108203	71.97769	15.76	64.259124	68.286896	14.6177
362	13	4	4	5	3	60.062431	61.885802	13.3591	57.736447	58.712209	13.4224
363	13	4	4	5	3	60.062431	62.283185	13.3591	57.736447	59.157454	13.4224
364	13	4	4	6	2	53.6587	60.760349	12.8356	51.335675	57.644483	13.2188
365	12	5	2	7	2	69.226106	49.493948	10.7348	66.275428	46.955833	10.9408
366	12	5	3	5	3	83.687662	57.426553	11.801	80.534955	54.481637	11.6212
367	12	5	3	5	3	83.687662	57.978427	11.801	80.534955	55.00521	11.6212
368	12	5	3	5	3	83.687662	64.813594	11.801	80.534955	61.489864	11.6212
369	12	5	3	6	2	74.065924	54.612485	10.7621	70.908954	51.811888	10.9697
370	12	5	3	6	2	74.065924	56.479775	10.7621	70.908954	53.583583	10.9697
371	12	5	3	6	2	74.065924	55.046878	10.7621	70.908954	52.252601	10.9697
372	12	5	3	7	1	65.011329	55.462185	10.4476	62.061958	52.618344	10.8098
373	12	5	3	7	1	65.011329	54.148186	10.4476	62.061958	51.386091	10.8098
374	12	5	3	7	1	65.011329	56.186845	10.4476	62.061958	53.504659	10.8098
375	12	5	3	7	1	65.011329	51.001514	10.4476	62.061958	48.463234	10.8098
376	12	5	3	7	1	65.011329	50.75913	10.4476	62.061958	48.318605	10.8098
377	12	5	3	5	3	83.687662	60.268063	11.801	80.534955	57.177431	11.6212
378	12	5	3	7	1	65.011329	59.901227	10.4476	62.061958	57.122957	10.8098
379	12	5	3	7	1	65.011329	57.339924	10.4476	62.061958	54.407068	10.8098
380	12	5	3	8	0	56.794206	50.259219	10.4439	54.11858	47.784456	10.8875
381	12	5	3	6	2	74.065924	61.939668	10.7621	70.908954	59.016489	10.9697

382	12	5	3	6	2	74.065924	58.630652	10.7621	70.908954	55.656443	10.9697
383	12	5	3	8	0	56.794206	53.199611	10.4439	54.11858	50.586434	10.8875
384	12	5	4	5	2	79.244109	56.234789	10.7895	75.866426	53.350999	10.9985
385	12	5	4	5	2	79.244109	60.529857	10.7895	75.866426	57.460393	10.9985
386	12	5	4	5	2	79.244109	56.239313	10.7895	75.866426	53.355758	10.9985
387	12	5	4	5	2	79.244109	60.556823	10.7895	75.866426	57.482739	10.9985
388	12	5	4	3	4	99.342129	68.284586	15.3219	96.759016	64.783172	13.6113
389	12	5	4	4	3	89.538534	68.418397	11.8283	86.165411	64.90981	11.6501
390	12	5	4	4	3	89.538534	66.609269	11.8283	86.165411	63.212449	11.6501
391	12	5	4	5	2	79.244109	56.763889	10.7895	75.866426	53.852967	10.9985
392	12	5	4	5	2	79.244109	59.55885	10.7895	75.866426	56.688366	10.9985
393	12	5	4	5	2	79.244109	59.616683	10.7895	75.866426	56.736042	10.9985
394	12	5	4	5	2	79.244109	58.948666	10.7895	75.866426	56.291852	10.9985
395	12	5	4	5	2	79.244109	63.299547	10.7895	75.866426	60.053475	10.9985
396	12	5	4	5	2	79.244109	64.372881	10.7895	75.866426	61.110877	10.9985
397	12	5	4	6	1	69.556479	55.324748	10.4749	66.400907	52.487954	10.8387
398	12	5	4	6	1	69.556479	54.017177	10.4749	66.400907	51.261729	10.8387
399	12	5	4	6	1	69.556479	56.045798	10.4749	66.400907	53.369844	10.8387
400	12	5	4	7	0	60.764871	55.436955	10.4712	57.902183	52.718931	10.9164
401	12	5	4	7	0	60.764871	50.146333	10.4712	57.902183	47.676898	10.9164
402	12	5	4	5	2	79.244109	62.869769	10.7895	75.866426	59.906571	10.9985
403	12	5	4	5	2	79.244109	59.645847	10.7895	75.866426	56.632185	10.9985
404	12	5	4	7	0	60.764871	59.867506	10.4712	57.902183	56.943063	10.9164
405	12	5	4	6	1	69.556479	61.432686	10.4749	66.400907	58.394311	10.8387
406	12	5	4	6	1	69.556479	60.569769	10.4749	66.400907	57.739084	10.8387
407	12	5	5	1	5	108.444374	32.432432	50.0993	112.746806	78.731663	21.8005
408	12	5	5	2	4	106.287454	74.778806	15.3492	103.523748	70.944426	13.6401
409	12	5	5	2	4	106.287454	76.57082	15.3492	103.523748	72.911507	13.6401
410	12	5	5	2	4	106.287454	75.023348	15.3492	103.523748	71.454061	13.6401
411	12	5	5	3	3	95.798459	67.408303	11.8557	92.18951	63.951515	11.6789
412	12	5	5	3	3	95.798459	67.966896	11.8557	92.18951	64.560483	11.6789
413	12	5	5	3	3	95.798459	66.949823	11.8557	92.18951	63.516546	11.6789
414	12	5	5	3	3	95.798459	68.826808	11.8557	92.18951	65.306406	11.6789
415	12	5	5	3	3	95.798459	66.949874	11.8557	92.18951	63.517048	11.6789
416	12	5	5	3	3	95.798459	70.131098	11.8557	92.18951	67.019276	11.6789
417	12	5	5	3	3	95.798459	67.500812	11.8557	92.18951	64.11722	11.6789
418	12	5	5	3	3	95.798459	68.765286	11.8557	92.18951	65.282715	11.6789
419	12	5	5	3	3	95.798459	67.54582	11.8557	92.18951	64.15237	11.6789
420	12	5	5	3	3	95.798459	68.506076	11.8557	92.18951	65.946659	11.6789
421	12	5	5	4	2	84.784318	62.900976	10.8168	81.17049	59.675342	11.0273
422	12	5	5	4	2	84.784318	63.477927	10.8168	81.17049	60.260736	11.0273
423	12	5	5	4	2	84.784318	66.171645	10.8168	81.17049	62.779633	11.0273
424	12	5	5	4	2	84.784318	63.533962	10.8168	81.17049	60.306599	11.0273
425	12	5	5	4	2	84.784318	65.796133	10.8168	81.17049	62.85089	11.0273
426	12	5	5	4	2	84.784318	71.620757	10.8168	81.17049	68.28668	11.0273
427	12	5	5	4	2	84.784318	66.27902	10.8168	81.17049	62.883082	11.0273
428	12	5	5	5	1	74.419394	58.887066	10.5023	71.043207	55.970136	10.8675
429	12	5	5	5	1	74.419394	58.564172	10.5023	71.043207	55.777319	10.8675
430	12	5	5	5	1	74.419394	58.686661	10.5023	71.043207	55.881261	10.8675
431	12	5	5	1	5	108.444374	32.432432	50.0993	112.746806	59.166415	21.8005
432	12	5	5	6	0	65.013137	57.899709	10.4986	61.950309	55.066747	10.9452
433	12	5	5	5	1	74.419394	54.975329	10.5023	71.043207	52.156449	10.8675
434	12	5	5	5	1	74.419394	59.150186	10.5023	71.043207	56.134427	10.8675
435	12	5	5	5	1	74.419394	61.213292	10.5023	71.043207	58.074223	10.8675
436	12	5	5	3	3	95.798459	69.790654	11.8557	92.18951	66.211698	11.6789

437	12	5	5	3	3	95.798459	66.450182	11.8557	92.18951	63.201639	11.6789
438	12	5	5	4	2	84.784318	71.590357	10.8168	81.17049	68.257551	11.0273
439	12	5	5	4	2	84.784318	66.777869	10.8168	81.17049	63.363741	11.0273
440	12	5	5	4	2	84.784318	65.830121	10.8168	81.17049	62.482235	11.0273
441	12	5	5	4	2	84.784318	64.854464	10.8168	81.17049	61.555792	11.0273
442	12	5	5	4	2	84.784318	63.81919	10.8168	81.17049	60.54918	11.0273
443	12	5	5	5	1	74.419394	58.500145	10.5023	71.043207	55.601708	10.8675
444	12	5	5	5	1	74.419394	58.181469	10.5023	71.043207	55.411417	10.8675
445	12	5	5	5	1	74.419394	58.302361	10.5023	71.043207	55.513998	10.8675
446	12	5	5	5	1	74.419394	61.708236	10.5023	71.043207	58.544174	10.8675
447	12	5	5	5	1	74.419394	66.544655	10.5023	71.043207	63.464748	10.8675
448	12	5	5	5	1	74.419394	62.317878	10.5023	71.043207	59.122166	10.8675
449	12	5	5	6	0	65.013137	55.180484	10.4986	61.950309	52.474458	10.9452
450	12	5	5	5	1	74.419394	61.361861	10.5023	71.043207	58.523218	10.8675
451	12	5	5	6	0	65.013137	60.05499	10.4986	61.950309	57.121847	10.9452
452	12	4	3	5	3	58.778782	58.358455	12.5026	56.56445	55.36575	12.5197
453	12	4	3	6	2	52.020868	57.274667	11.9791	49.803542	54.337552	12.3161
454	12	4	3	6	2	52.020868	57.752628	11.9791	49.803542	54.82248	12.3161
455	12	4	4	3	4	71.083441	69.317874	14.7964	69.235116	65.763482	13.602
456	12	4	4	3	4	71.083441	68.833143	14.7964	69.235116	65.303604	13.602
457	12	4	4	4	3	64.06856	64.558131	-	61.654949	61.247502	12.4068
458	12	4	4	4	3	64.06856	64.561641	-	61.654949	61.250834	12.4068
459	12	4	4	4	3	64.06856	65.027003	-	61.654949	61.772926	12.4068
460	12	4	4	4	3	64.06856	68.446161	-	61.654949	64.936151	12.4068
461	12	4	4	5	2	56.702469	57.128112	11.8721	54.285595	54.198513	12.2032
462	12	4	4	5	2	56.702469	59.95995	11.8721	54.285595	57.071385	12.2032
463	12	4	4	5	2	56.702469	59.341562	11.8721	54.285595	56.669514	12.2032
464	12	4	4	6	1	49.770565	59.17924	11.9025	47.512622	56.248351	12.3719
465	11	5	2	6	2	72.251576	50.993157	9.9961	69.229093	48.378164	10.1622
466	11	5	2	6	2	72.251576	56.76748	9.9961	69.229093	53.856378	10.1622
467	11	5	2	7	1	62.671457	47.562966	9.6815	59.862054	45.197069	10.0023
468	11	5	2	7	1	62.671457	45.750057	9.6815	59.862054	43.415375	10.0023
469	11	5	3	5	2	77.77928	52.643561	10.0234	74.525558	49.943934	10.191
470	11	5	3	5	2	77.77928	56.756423	10.0234	74.525558	53.879053	10.191
471	11	5	3	4	3	88.864643	64.34524	11.0623	85.627711	61.045531	10.8426
472	11	5	3	5	2	77.77928	53.149494	10.0234	74.525558	50.423924	10.191
473	11	5	3	5	2	77.77928	55.825439	10.0234	74.525558	53.138783	10.191
474	11	5	3	5	2	77.77928	53.598549	10.0234	74.525558	50.879527	10.191
475	11	5	3	5	2	77.77928	59.415714	10.0234	74.525558	56.36881	10.191
476	11	5	3	5	2	77.77928	60.447765	10.0234	74.525558	57.385559	10.191
477	11	5	3	6	1	67.466221	51.773838	9.7089	64.441881	49.119125	10.0312
478	11	5	3	6	1	67.466221	50.525244	9.7089	64.441881	47.948201	10.0312
479	11	5	3	6	1	67.466221	52.462893	9.7089	64.441881	49.961951	10.0312
480	11	5	3	7	0	58.219219	51.881042	9.7052	55.498589	49.339814	10.1089
481	11	5	3	7	0	58.219219	46.836205	9.7052	55.498589	44.531583	10.1089
482	11	5	3	5	2	77.77928	59.0027	10.0234	74.525558	56.227622	10.191
483	11	5	3	5	2	77.77928	55.908822	10.0234	74.525558	53.084931	10.191
484	11	5	3	7	0	58.219219	56.121299	9.7052	55.498589	53.382953	10.1089
485	11	5	3	6	1	67.466221	57.622653	9.7089	64.441881	54.775165	10.0312
486	11	5	3	6	1	67.466221	56.794704	9.7089	64.441881	54.146392	10.0312
487	11	5	4	5	1	72.627815	51.553028	9.7362	69.372093	48.909636	10.06
488	11	5	4	5	1	72.627815	55.565039	9.7362	69.372093	52.732476	10.06
489	11	5	4	5	1	72.627815	57.98215	9.7362	69.372093	55.233501	10.06
490	11	5	4	3	3	95.663351	65.854229	11.0896	92.178774	62.477139	10.8714
491	11	5	4	3	3	95.663351	62.757194	11.0896	92.178774	59.557314	10.8714

492	11	5	4	4	2	83.729888	67.603638	10.0508	80.227236	64.466118	10.2199
493	11	5	4	4	2	83.729888	62.810017	10.0508	80.227236	59.593645	10.2199
494	11	5	4	4	2	83.729888	62.931564	10.0508	80.227236	59.714359	10.2199
495	11	5	4	4	2	83.729888	62.013695	10.0508	80.227236	58.860629	10.2199
496	11	5	4	4	2	83.729888	61.069562	10.0508	80.227236	57.964097	10.2199
497	11	5	4	4	2	83.729888	62.23216	10.0508	80.227236	59.057762	10.2199
498	11	5	4	5	1	72.627815	54.93943	9.7362	69.372093	52.219754	10.06
499	11	5	4	5	1	72.627815	54.632858	9.7362	69.372093	52.036665	10.06
500	11	5	4	5	1	72.627815	54.690362	9.7362	69.372093	52.085676	10.06
501	11	5	4	5	1	72.627815	58.030251	9.7362	69.372093	55.054787	10.06
502	11	5	4	5	1	72.627815	62.705634	9.7362	69.372093	59.812226	10.06
503	11	5	4	5	1	72.627815	57.816839	9.7362	69.372093	54.853838	10.06
504	11	5	4	6	0	62.673359	51.749854	9.7325	59.744583	49.21475	10.1377
505	11	5	4	5	1	72.627815	57.696137	9.7362	69.372093	55.03457	10.06
506	11	5	4	6	0	62.673359	56.436401	9.7325	59.744583	53.683471	10.1377
507	11	5	5	0	5	117.897883	29.72973	49.3605	123.599804	76.923077	21.0219
508	11	5	5	1	4	115.342086	76.072242	14.6105	112.611837	72.171588	12.8615
509	11	5	5	1	4	115.342086	76.348423	14.6105	112.611837	72.747407	12.8615
510	11	5	5	2	3	102.982204	68.548568	11.117	99.231035	65.033311	10.9003
511	11	5	5	2	3	102.982204	70.452461	11.117	99.231035	66.839574	10.9003
512	11	5	5	2	3	102.982204	69.125915	11.117	99.231035	65.68043	10.9003
513	11	5	5	2	3	102.982204	74.455116	11.117	99.231035	71.208518	10.9003
514	11	5	5	2	3	102.982204	71.022392	11.117	99.231035	67.604387	10.9003
515	11	5	5	3	2	90.135755	61.794463	10.0781	86.365128	58.625576	10.2487
516	11	5	5	3	2	90.135755	65.517759	10.0781	86.365128	62.390732	10.2487
517	11	5	5	3	2	90.135755	64.852769	10.0781	86.365128	61.98181	10.2487
518	11	5	5	3	2	90.135755	61.374141	10.0781	86.365128	58.226809	10.2487
519	11	5	5	3	2	90.135755	61.973711	10.0781	86.365128	58.835178	10.2487
520	11	5	5	3	2	90.135755	65.121291	10.0781	86.365128	62.001147	10.2487
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522	11	5	5	3	2	90.135755	64.17976	10.0781	86.365128	60.891545	10.2487
523	11	5	5	4	1	78.184304	60.663614	9.7636	74.679498	57.553148	10.0889
524	11	5	5	4	1	78.184304	58.275358	9.7636	74.679498	55.305497	10.0889
525	11	5	5	4	1	78.184304	60.939674	9.7636	74.679498	58.062926	10.0889
526	11	5	5	4	1	78.184304	61.012672	9.7636	74.679498	58.124674	10.0889
527	11	5	5	4	1	78.184304	65.737398	9.7636	74.679498	62.752369	10.0889
528	11	5	5	4	1	78.184304	62.400394	9.7636	74.679498	59.210261	10.0889
529	11	5	5	4	1	78.184304	67.0206	9.7636	74.679498	63.874392	10.0889
530	11	5	5	5	0	67.468268	54.092914	9.7599	64.315422	51.448662	10.1666
531	11	5	5	1	4	115.342086	57.167794	14.6105	112.611837	54.236387	12.8615
532	11	5	5	1	4	115.342086	57.211798	14.6105	112.611837	54.327821	12.8615
533	11	5	5	5	0	67.468268	56.911416	9.7599	64.315422	54.136517	10.1666
534	11	5	5	3	2	90.135755	66.136892	10.0781	86.365128	63.060419	10.2487
535	11	5	5	3	2	90.135755	64.071697	10.0781	86.365128	60.790812	10.2487
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537	11	5	5	4	1	78.184304	65.737398	9.7636	74.679498	62.752369	10.0889
538	11	5	5	4	1	78.184304	65.646771	9.7636	74.679498	62.633565	10.0889
539	11	5	5	4	1	78.184304	58.608928	9.7636	74.679498	55.603416	10.0889
540	11	5	5	5	0	67.468268	53.736753	9.7599	64.315422	51.109061	10.1666
541	11	5	5	5	0	67.468268	62.104414	9.7599	64.315422	59.090658	10.1666
542	11	5	5	5	0	67.468268	57.520717	9.7599	64.315422	54.717669	10.1666
543	11	4	3	4	3	62.944672	60.625975	11.5391	60.651886	57.516993	11.504
544	11	4	3	4	3	62.944672	64.372029	11.5391	60.651886	61.070947	11.504
545	11	4	3	5	2	55.09268	53.497888	11.0156	52.788001	50.754451	11.3004
546	11	4	3	5	2	55.09268	56.209923	11.0156	52.788001	53.50599	11.3004

547	11	4	3	5	2	55.09268	53.952874	11.0156	52.788001	51.216075	11.3004
548	11	4	3	6	1	47.787726	55.461662	11.046	45.645523	52.717073	11.4691
549	11	4	4	2	4	77.448175	70.709504	13.8329	75.614908	67.083796	12.5864
550	11	4	4	3	3	69.148947	63.542527	11.432	66.630168	60.283982	11.3912
551	11	4	4	3	3	69.148947	64.038322	11.432	66.630168	60.839632	11.3912
552	11	4	4	3	3	69.148947	63.098174	11.432	66.630168	59.862416	11.3912
553	11	4	4	3	3	69.148947	64.918407	11.432	66.630168	61.598166	11.3912
554	11	4	4	3	3	69.148947	63.587033	11.432	66.630168	60.410286	11.3912
555	11	4	4	4	2	60.523006	59.181514	10.9085	57.991162	56.146619	11.1876
556	11	4	4	4	2	60.523006	59.738814	10.9085	57.991162	56.712086	11.1876
557	11	4	4	4	2	60.523006	59.767469	10.9085	57.991162	56.735833	11.1876
558	11	4	4	4	2	60.523006	67.63321	10.9085	57.991162	64.494463	11.1876
559	11	4	4	4	2	60.523006	62.23216	10.9085	57.991162	59.057762	11.1876
560	11	4	4	5	1	52.498024	55.311767	10.939	50.14467	52.574327	11.3563
561	11	4	4	5	1	52.498024	55.001036	10.939	50.14467	52.388747	11.3563
562	11	4	4	6	0	45.302582	54.361866	11.2072	43.185556	51.705117	11.7049
563	10	5	2	5	2	76.057182	48.795323	9.2574	72.947762	46.29304	9.3836
564	10	5	2	5	2	76.057182	49.27355	9.2574	72.947762	46.746743	9.3836
565	10	5	2	5	2	76.057182	55.211571	9.2574	72.947762	52.380262	9.3836
566	10	5	2	6	1	65.040661	47.973651	8.9428	62.16719	45.513799	9.2237
567	10	5	2	6	1	65.040661	46.794967	8.9428	62.16719	44.408431	9.2237
568	10	5	2	5	2	76.057182	54.996145	9.2574	72.947762	52.175882	9.3836
569	10	5	2	6	1	65.040661	54.052868	8.9428	62.16719	51.281352	9.2237
570	10	5	2	6	1	65.040661	51.74931	8.9428	62.16719	49.101253	9.2237
571	10	5	2	7	0	55.304814	43.318868	8.9391	52.745613	41.188888	9.3014
572	10	5	3	5	1	70.534761	47.862022	8.9702	67.418563	45.407894	9.2526
573	10	5	3	5	1	70.534761	51.672216	8.9702	67.418563	49.038461	9.2526
574	10	5	3	3	3	95.501473	61.501755	10.3236	92.165892	58.347867	10.064
575	10	5	3	4	2	82.481867	63.181359	9.2847	79.109788	60.257757	9.4124
576	10	5	3	4	2	82.481867	58.584816	9.2847	79.109788	55.58492	9.4124
577	10	5	3	4	2	82.481867	58.701139	9.2847	79.109788	55.700448	9.4124
578	10	5	3	5	1	70.534761	51.077247	8.9702	67.418563	48.550825	9.2526
579	10	5	3	5	1	70.534761	50.785801	8.9702	67.418563	48.376747	9.2526
580	10	5	3	5	1	70.534761	54.019686	8.9702	67.418563	51.249871	9.2526
581	10	5	3	5	1	70.534761	58.484927	8.9702	67.418563	55.794119	9.2526
582	10	5	3	6	0	59.97651	48.048653	8.9665	57.201128	45.697219	9.3303
583	10	5	3	5	1	70.534761	53.70125	8.9702	67.418563	51.2306	9.2526
584	10	5	3	6	0	59.97651	52.501414	8.9665	57.201128	49.943501	9.3303
585	10	5	4	5	0	65.042832	53.085421	8.9938	62.033009	50.500571	9.3591
586	10	5	4	3	2	89.449256	63.385177	9.3121	85.792332	60.453173	9.4412
587	10	5	4	3	2	89.449256	59.960857	9.3121	85.792332	56.890607	9.4412
588	10	5	4	3	2	89.449256	60.499181	9.3121	85.792332	57.438179	9.4412
589	10	5	4	4	1	76.492957	61.566782	8.9975	73.113528	58.782129	9.2814
590	10	5	4	4	1	76.492957	61.479344	8.9975	73.113528	58.667464	9.2814
591	10	5	4	4	1	76.492957	56.772502	8.9975	73.113528	53.863176	9.2814
592	10	5	4	5	0	65.042832	50.05145	8.9938	62.033009	47.606904	9.3591
593	10	5	4	5	0	65.042832	58.067334	8.9938	62.033009	55.254059	9.3591
594	10	5	4	5	0	65.042832	53.668729	8.9938	62.033009	51.057008	9.3591
595	10	5	5	0	4	127.231532	83.311518	13.8718	124.576724	79.26732	12.0829
596	10	5	5	1	3	112.31728	69.158072	10.3783	108.394372	65.611565	10.1216
597	10	5	5	1	3	112.31728	69.805096	10.3783	108.394372	66.336903	10.1216
598	10	5	5	1	3	112.31728	71.161962	10.3783	108.394372	68.752029	10.1216
599	10	5	5	2	2	97.005194	64.047704	9.3394	93.039363	60.763277	9.4701
600	10	5	5	2	2	97.005194	63.001624	9.3394	93.039363	59.815799	9.4701
601	10	5	5	2	2	97.005194	68.484915	9.3394	93.039363	65.252895	9.4701

602	10	5	5	2	2	97.005194	64.804034	9.3394	93.039363	61.5239	9.4701
603	10	5	5	3	1	82.954453	59.941988	9.0249	79.289557	56.99606	9.3102
604	10	5	5	3	1	82.954453	59.692997	9.0249	79.289557	56.885504	9.3102
605	10	5	5	3	1	82.954453	59.507138	9.0249	79.289557	56.581657	9.3102
606	10	5	5	3	1	82.954453	59.111923	9.0249	79.289557	56.345367	9.3102
607	10	5	5	3	1	82.954453	59.261739	9.0249	79.289557	56.472701	9.3102
608	10	5	5	4	0	70.537115	55.813395	9.0212	67.273047	53.103163	9.3879
609	10	5	5	4	0	70.537115	61.347177	9.0212	67.273047	58.384847	9.3879
610	10	5	5	1	3	112.31728	55.662921	10.3783	108.394372	53.427632	10.1216
611	10	5	5	1	3	112.31728	52.642391	10.3783	108.394372	50.054697	10.1216
612	10	5	5	1	3	112.31728	52.015289	10.3783	108.394372	49.412937	10.1216
613	10	5	5	3	1	82.954453	61.168839	9.0249	79.289557	58.165296	9.3102
614	10	5	5	3	1	82.954453	53.413365	9.0249	79.289557	50.674286	9.3102
615	10	5	5	4	0	70.537115	60.844094	9.0212	67.273047	57.904559	9.3879
616	10	4	2	5	2	53.221144	49.602968	10.1591	51.045322	47.059269	10.3976
617	10	4	3	3	3	68.335292	58.86061	10.5755	65.948544	55.842161	10.4884
618	10	4	3	4	2	59.01922	55.117602	10.052	56.606357	52.291111	10.2848
619	10	4	3	4	2	59.01922	55.649454	10.052	56.606357	52.830764	10.2848
620	10	4	3	4	2	59.01922	63.209773	10.052	56.606357	60.284999	10.2848
621	10	4	3	5	1	50.470567	51.431311	10.0825	48.240796	48.888026	10.4535
622	10	4	3	5	1	50.470567	51.135822	10.0825	48.240796	48.711525	10.4535
623	10	4	3	6	0	42.915697	50.528243	10.3507	40.929796	48.061588	10.8021
624	10	4	4	1	4	85.842525	71.585963	12.8693	84.051339	67.915362	11.5708
625	10	4	4	2	3	75.779949	64.282653	10.4685	73.133181	60.986159	10.3756
626	10	4	4	2	3	75.779949	66.125999	10.4685	73.133181	62.734979	10.3756
627	10	4	4	2	3	75.779949	64.841298	10.4685	73.133181	61.612346	10.3756
628	10	4	4	3	2	65.448955	57.769316	9.945	62.773227	54.806845	10.172
629	10	4	4	3	2	65.448955	58.353845	9.945	62.773227	55.399967	10.172
630	10	4	4	3	2	65.448955	61.354884	9.945	62.773227	58.433134	10.172
631	10	4	4	3	2	65.448955	57.365312	9.945	62.773227	54.423558	10.172
632	10	4	4	3	2	65.448955	60.826968	9.945	62.773227	57.937878	10.172
633	10	4	4	3	2	65.448955	57.941653	9.945	62.773227	55.008369	10.172
634	10	4	4	3	2	65.448955	59.043367	9.945	62.773227	56.033204	10.172
635	10	4	4	3	2	65.448955	57.971306	9.945	62.773227	55.032946	10.172
636	10	4	4	3	2	65.448955	59.845009	9.945	62.773227	56.793322	10.172
637	10	4	4	4	1	55.968985	56.682722	9.9754	53.496297	53.776385	10.3407
638	10	4	4	4	1	55.968985	54.391627	9.9754	53.496297	51.620154	10.3407
639	10	4	4	4	1	55.968985	56.947875	9.9754	53.496297	54.26608	10.3407
640	10	4	4	4	1	55.968985	61.566782	9.9754	53.496297	58.782129	10.3407
641	10	4	4	4	1	55.968985	58.351998	9.9754	53.496297	55.369099	10.3407
642	10	4	4	4	1	55.968985	56.772502	9.9754	53.496297	53.863176	10.3407
643	10	4	4	5	0	47.591065	50.391388	10.2436	45.388813	47.931077	10.6892
644	10	4	4	1	4	85.842525	53.330822	12.8693	84.051339	50.596171	11.5708
645	10	3	3	3	3	44.385074	59.286029	11.4454	42.834836	56.245764	11.5843
646	9	5	2	5	1	68.058323	43.919757	8.2041	65.105465	41.667775	8.4451
647	9	5	2	5	1	68.058323	47.490185	8.2041	65.105465	45.069903	8.4451
648	9	5	2	4	2	80.981742	58.854354	8.5187	77.765134	55.836248	8.6049
649	9	5	2	5	1	68.058323	46.931921	8.2041	65.105465	44.612329	8.4451
650	9	5	2	5	1	68.058323	44.791358	8.2041	65.105465	42.507809	8.4451
651	9	5	2	5	1	68.058323	49.695493	8.2041	65.105465	47.147406	8.4451
652	9	5	2	5	1	68.058323	57.284702	8.2041	65.105465	54.630834	8.4451
653	9	5	2	6	0	56.837448	44.094384	8.2004	54.239041	41.938504	8.5228
654	9	5	2	4	2	80.981742	57.390278	8.5187	77.765134	54.44725	8.6049
655	9	5	2	5	1	68.058323	49.50157	8.2041	65.105465	46.963425	8.4451
656	9	5	2	5	1	68.058323	56.314776	8.2041	65.105465	53.434409	8.4451

657	9	5	2	6	0	56.837448	56.512562	8.2004	54.239041	53.787683	8.5228
658	9	5	3	5	0	62.196502	48.929788	8.2278	59.353099	46.550352	8.5516
659	9	5	3	3	2	88.617299	60.032538	8.546	85.097405	57.271495	8.6338
660	9	5	3	3	2	88.617299	55.440274	8.546	85.097405	52.601615	8.6338
661	9	5	3	3	2	88.617299	55.951747	8.546	85.097405	53.121886	8.6338
662	9	5	3	4	1	74.475365	56.96684	8.2315	71.244089	54.399992	8.4739
663	9	5	3	4	1	74.475365	56.883666	8.2315	71.244089	54.290881	8.4739
664	9	5	3	4	1	74.475365	53.481359	8.2315	71.244089	50.747602	8.4739
665	9	5	3	5	0	62.196502	46.069786	8.2278	59.353099	43.822269	8.5516
666	9	5	3	5	0	62.196502	53.64319	8.2278	59.353099	51.048291	8.5516
667	9	5	3	5	0	62.196502	49.480554	8.2278	59.353099	47.075815	8.5516
668	9	5	4	3	1	81.497452	57.125138	8.2588	77.961507	54.552152	8.5028
669	9	5	4	4	0	68.060847	56.444987	8.2551	64.949347	53.723159	8.5805
670	9	5	5	0	3	124.883562	84.419233	9.6396	120.750856	80.090142	9.343
671	9	5	5	1	2	106.116102	62.246628	8.6007	101.901153	59.054568	8.6914
672	9	5	5	1	2	106.116102	63.002187	8.6007	101.901153	59.821341	8.6914
673	9	5	5	1	2	106.116102	65.813004	8.6007	101.901153	63.048524	8.6914
674	9	5	5	2	1	89.181633	62.089471	8.2862	85.312293	59.003423	8.5316
675	9	5	5	2	1	89.181633	57.034119	8.2862	85.312293	54.119388	8.5316
676	9	5	5	2	1	89.181633	61.792822	8.2862	85.312293	58.926216	8.5316
677	9	5	5	3	0	74.478126	54.085927	8.2825	71.073251	51.470913	8.6093
678	9	5	5	3	0	74.478126	53.692562	8.2825	71.073251	51.095419	8.6093
679	9	5	5	1	2	106.116102	50.096729	8.6007	101.901153	48.117148	8.6914
680	9	5	5	1	2	106.116102	51.933288	8.6007	101.901153	49.476974	8.6914
681	9	5	5	1	2	106.116102	51.368252	8.6007	101.901153	49.201566	8.6914
682	9	5	5	3	0	74.478126	55.195813	8.2825	71.073251	52.53047	8.6093
683	9	4	2	4	2	57.231906	50.728378	9.1956	54.958645	48.126972	9.382
684	9	4	2	4	2	57.231906	58.854354	9.1956	54.958645	55.836248	9.382
685	9	4	2	5	1	48.098589	47.264109	9.226	46.011727	44.928722	9.5507
686	9	4	2	5	1	48.098589	45.093837	9.226	46.011727	42.794958	9.5507
687	9	4	3	3	2	64.200347	52.97771	9.0885	61.650299	50.260958	9.2692
688	9	4	3	3	2	64.200347	56.263308	9.0885	61.650299	53.59691	9.2692
689	9	4	3	3	2	64.200347	53.52402	9.0885	61.650299	50.815306	9.2692
690	9	4	3	4	1	53.954977	52.331059	9.119	51.614022	49.647859	9.4379
691	9	4	3	4	1	53.954977	50.163527	9.119	51.614022	47.607901	9.4379
692	9	4	3	4	1	53.954977	56.96684	9.119	51.614022	54.399992	9.4379
693	9	4	3	4	1	53.954977	53.913158	9.119	51.614022	51.157401	9.4379
694	9	4	3	5	0	45.05934	46.38984	9.3872	42.999387	44.127515	9.7865
695	9	4	4	0	4	97.347584	78.411105	11.9058	95.651132	74.390655	10.5552
696	9	4	4	1	3	84.754065	64.428802	9.5049	81.949343	61.124819	9.3599
697	9	4	4	1	3	84.754065	65.052961	9.5049	81.949343	61.824567	9.3599
698	9	4	4	2	2	72.017252	59.51341	8.9814	69.156715	56.461509	9.1563
699	9	4	4	2	2	72.017252	58.510378	8.9814	69.156715	55.552999	9.1563
700	9	4	4	2	2	72.017252	63.779869	8.9814	69.156715	60.779005	9.1563
701	9	4	4	2	2	72.017252	60.239279	8.9814	69.156715	57.191514	9.1563
702	9	4	4	3	1	60.524426	55.582741	9.0119	57.898442	52.85466	9.325
703	9	4	4	3	1	60.524426	55.271487	9.0119	57.898442	52.68688	9.325
704	9	4	4	3	1	60.524426	55.167386	9.0119	57.898442	52.458782	9.325
705	9	4	4	3	1	60.524426	52.233156	9.0119	57.898442	49.572815	9.325
706	9	4	4	3	1	60.524426	54.790049	9.0119	57.898442	52.233133	9.325
707	9	4	4	3	1	60.524426	54.059755	9.0119	57.898442	51.28956	9.325
708	9	4	4	4	0	50.545675	51.646592	9.2801	48.234906	49.142667	9.6736
709	9	4	4	4	0	50.545675	56.926182	9.2801	48.234906	54.182641	9.6736
710	9	4	4	1	3	84.754065	51.503441	9.5049	81.949343	49.45147	9.3599
711	9	4	4	1	3	84.754065	48.634512	9.5049	81.949343	46.246577	9.3599

712	9	4	4	1	3	84.754065	48.114855	9.5049	81.949343	45.660673	9.3599
713	9	3	3	2	3	49.864825	59.553603	10.1103	48.214675	56.499622	10.177
714	9	3	3	3	2	42.371156	53.360632	10.2329	40.688167	50.624244	10.548
715	9	3	3	3	2	42.371156	53.914909	10.2329	40.688167	51.18668	10.548
716	8	5	2	5	0	58.813105	44.463644	7.4617	56.16543	42.304034	7.7442
717	8	5	2	3	2	87.588224	55.36084	7.78	84.236656	52.521889	7.8263
718	8	5	2	4	1	72.028044	54.171324	7.4654	68.974363	51.393842	7.6665
719	8	5	2	4	1	72.028044	52.498176	7.4654	68.974363	49.813363	7.6665
720	8	5	2	5	0	58.813105	41.810161	7.4617	56.16543	39.772647	7.7442
721	8	5	2	5	0	58.813105	51.494795	7.4617	56.16543	49.015835	7.7442
722	8	5	2	4	1	72.028044	52.894738	7.4654	68.974363	50.182697	7.6665
723	8	5	2	5	0	58.813105	51.260699	7.4617	56.16543	48.792274	7.7442
724	8	5	3	3	1	79.712134	53.871066	7.4928	76.332681	51.108976	7.6953
725	8	5	3	4	0	65.0874	51.610013	7.4891	62.157265	49.12587	7.773
726	8	5	4	3	0	72.031049	52.211454	7.5164	68.788322	49.700284	7.8018
727	8	5	5	0	2	118.717343	83.415728	7.862	114.174617	79.138149	7.9128
728	8	5	5	1	1	97.627027	59.967931	7.5475	93.48806	57.052906	7.753
729	8	5	5	1	1	97.627027	59.044502	7.5475	93.48806	56.146454	7.753
730	8	5	5	2	0	79.715459	55.353351	7.5438	76.126792	52.701719	7.8307
731	8	5	5	1	1	97.627027	46.331335	7.5475	93.48806	44.219043	7.753
732	8	5	5	1	1	97.627027	47.207247	7.5475	93.48806	44.984678	7.753
733	8	4	2	3	2	62.673032	48.23112	8.232	60.274845	45.75778	8.3664
734	8	4	2	4	1	51.539073	47.628335	8.2625	49.354037	45.18627	8.5351
735	8	4	2	4	1	51.539073	45.610433	8.2625	49.354037	43.28712	8.5351
736	8	4	2	4	1	51.539073	55.497354	8.2625	49.354037	52.651898	8.5351
737	8	4	2	5	0	42.083232	42.106761	-	40.18871	40.055555	-
738	8	4	3	3	1	58.650696	50.409178	8.1554	56.164158	47.937278	8.4223
739	8	4	3	3	1	58.650696	47.657132	8.1554	56.164158	45.230299	8.4223
740	8	4	3	3	1	58.650696	50.05481	8.1554	56.164158	47.725323	8.4223
741	8	4	3	4	0	47.89009	47.107968	8.4236	45.734152	44.827542	8.7708
742	8	4	3	4	0	47.89009	52.062699	8.4236	45.734152	49.55821	8.7708
743	8	4	3	1	3	85.660727	55.431241	8.6484	83.022857	53.358417	8.4572
744	8	4	4	0	3	97.480629	78.659969	8.5414	94.478772	74.626223	8.3443
745	8	4	4	1	2	81.162205	57.274202	8.0179	78.056529	54.337134	8.1407
746	8	4	4	1	2	81.162205	57.994136	8.0179	78.056529	55.067776	8.1407
747	8	4	4	1	2	81.162205	60.677822	8.0179	78.056529	58.15021	8.1407
748	8	4	4	2	1	66.743616	57.124532	-	63.913973	54.288423	-
749	8	4	4	2	1	66.743616	52.324147	-	63.913973	49.650417	-
750	8	4	4	3	0	54.498208	49.537235	8.3166	52.044783	47.146577	8.658
751	8	4	4	3	0	54.498208	49.166088	8.3166	52.044783	46.792224	8.658
752	8	4	4	1	2	81.162205	45.780931	8.0179	78.056529	43.98721	8.1407
753	8	4	4	1	2	81.162205	47.508181	8.0179	78.056529	45.266704	8.1407
754	8	4	4	1	2	81.162205	42.809047	8.0179	78.056529	40.63979	8.1407
755	8	3	2	3	2	40.707328	48.588235	9.2439	39.14966	46.096582	9.5056
756	8	3	3	1	3	57.67545	59.149516	8.7752	55.89937	56.116263	8.7697
757	8	3	3	2	2	48.020481	54.500437	8.8978	46.182975	51.705607	9.1407
758	8	3	3	2	2	48.020481	53.5546	8.8978	46.182975	50.848882	9.1407
759	8	3	3	3	1	39.48957	50.799405	9.3894	37.815381	48.309255	9.7557
760	7	5	1	4	1	68.999286	35.336378	6.6993	66.162073	33.524516	6.859
761	7	5	2	3	1	77.474073	48.446941	6.7267	74.288381	45.962971	6.8878
762	7	5	2	3	1	77.474073	54.095219	6.7267	74.288381	51.698721	6.8878
763	7	5	2	4	0	61.454475	54.905782	6.723	58.743086	52.300474	6.9655
764	7	5	2	4	0	61.454475	51.161273	6.723	58.743086	48.720225	6.9655
765	7	5	3	3	0	69.002576	47.73177	6.7504	65.958162	45.442893	6.9944
766	7	5	5	0	1	109.670987	80.333892	6.8088	105.161375	76.21555	6.9743

767	7	5	5	1	0	86.993916	52.640068	6.8051	83.155719	50.133915	7.052
768	7	5	5	1	0	86.993916	41.581635	6.8051	83.155719	39.569784	7.052
769	7	4	2	3	1	56.326596	45.252817	7.2989	54.010477	43.036412	7.5195
770	7	4	2	3	1	56.326596	42.721744	7.2989	54.010477	40.546611	7.5195
771	7	4	2	4	0	44.67974	42.217532	7.5671	42.708457	40.176791	7.8681
772	7	4	2	4	0	44.67974	55.492433	7.5671	42.708457	52.86157	7.8681
773	7	4	3	3	0	51.792481	44.226772	7.4601	49.507382	42.095123	7.7552
774	7	4	3	1	2	81.648566	48.502456	7.1614	78.677296	46.727749	7.2379
775	7	4	3	1	2	81.648566	50.73589	7.1614	78.677296	48.276827	7.2379
776	7	4	4	0	2	94.646517	76.92479	7.0544	91.202239	72.980076	7.1251
777	7	4	4	1	1	75.687762	54.475796	7.0848	72.575522	51.833318	7.2938
778	7	4	4	2	0	60.037526	50.136505	7.353	57.388653	47.740754	7.6424
779	7	4	4	1	1	75.687762	41.72575	7.0848	72.575522	39.83042	7.2938
780	7	3	2	2	2	46.699107	49.028858	7.9088	44.999682	46.514617	8.0983
781	7	3	2	3	1	37.344754	45.612292	8.4005	35.809158	43.379117	8.7133
782	7	3	2	3	1	37.344754	43.041989	8.4005	35.809158	40.85067	8.7133
783	7	3	3	0	3	69.541473	71.968357	7.44	67.606016	68.277766	7.3625
784	7	3	3	1	2	56.404408	51.759705	7.5626	54.351797	49.105428	7.7335
785	7	3	3	1	2	56.404408	52.431953	7.5626	54.351797	49.787693	7.7335
786	7	3	3	2	1	45.105974	51.620018	8.0543	43.251241	49.059963	8.3484
787	7	3	3	2	1	45.105974	48.352295	8.0543	43.251241	45.892835	8.3484
788	7	3	3	2	1	45.105974	47.152503	8.0543	43.251241	44.743298	8.3484
789	7	3	3	3	0	35.779247	44.570069	8.7044	34.200656	42.422944	9.0812
790	6	5	1	4	0	56.92403	34.813143	5.9569	54.48077	33.12642	6.1581
791	6	5	2	3	0	65.161748	47.546413	5.9843	62.364913	45.292194	6.1869
792	6	5	5	0	0	97.742622	97.737557	6.0664	93.54737	93.506494	6.2734
793	6	4	1	3	1	53.370422	37.233729	-	51.266819	35.324644	6.2734
794	6	4	1	3	1	53.370422	36.435888	-	51.266819	34.567704	6.2734
795	6	4	1	3	1	53.370422	35.13882	-	51.266819	33.33713	6.2734
796	6	4	2	3	0	48.392646	38.895266	6.6036	46.315565	37.023718	6.8524
797	6	4	3	1	1	75.335235	43.687373	6.2283	72.365886	41.760062	6.391
798	6	4	3	1	1	75.335235	43.69632	6.2283	72.365886	41.478076	6.391
799	6	4	4	0	1	89.504919	72.96685	6.1213	85.977069	69.226255	6.2782
800	6	4	4	1	0	68.308836	46.848886	6.3895	65.376924	44.625066	6.6267
801	6	4	4	1	0	68.308836	36.71154	6.3895	65.376924	34.938525	6.6267
802	6	3	2	2	1	43.208024	45.595633	7.0653	41.504974	43.336705	7.306
803	6	3	2	2	1	43.208024	42.626947	7.0653	41.504974	40.459216	7.306
804	6	3	2	3	0	32.975728	39.205099	7.7154	31.560363	37.319634	8.0388
805	6	3	3	0	2	69.902883	69.316588	6.2275	67.53412	65.76203	6.3262
806	6	3	3	1	1	53.856272	48.364152	6.7192	51.733519	46.02295	6.9411
807	6	3	3	1	1	53.856272	47.930073	6.7192	51.733519	45.762786	6.9411
808	6	3	3	2	0	41.102314	44.385192	7.3692	39.338144	42.269382	7.6739
809	6	2	2	1	2	32.661405	45.722792	7.5063	31.554625	43.378094	7.7602
810	5	4	1	3	0	44.0045	36.928501	-	42.189734	35.167931	-
811	5	4	1	3	0	44.0045	35.990546	-	42.189734	34.271384	-
812	5	4	1	3	0	44.0045	34.481834	-	42.189734	32.829641	-
813	5	4	3	1	0	66.547862	37.590116	5.533	63.803397	35.800443	5.724
814	5	4	4	0	0	81.837549	88.524269	5.4259	78.46253	84.754081	5.6111
815	5	3	1	2	1	40.684303	39.147866	6.0763	39.178007	37.14073	6.2635
816	5	3	1	2	1	40.684303	38.193442	6.0763	39.178007	36.23523	6.2635
817	5	3	1	2	1	40.684303	37.369377	6.0763	39.178007	35.453406	6.2635
818	5	3	1	2	1	40.684303	36.409184	6.0763	39.178007	34.542433	6.2635
819	5	3	1	2	1	40.684303	35.582216	6.0763	39.178007	33.757856	6.2635
820	5	3	2	2	0	38.31679	38.119791	6.3803	36.736587	36.30688	6.6315
821	5	3	3	0	1	69.030241	64.275188	5.3841	66.474465	60.98023	5.5338

822	5	3	3	1	0	49.910897	40.442361	6.0341	47.852548	38.528206	6.2667
823	5	2	2	0	2	44.548613	60.573307	5.4623	43.195704	57.46711	5.6057
824	5	2	2	1	1	32.577941	41.65137	6.6562	31.371775	39.639135	6.9142
825	5	2	2	1	1	32.577941	38.697127	6.6562	31.371775	36.730724	6.9142
826	4	3	1	2	0	34.488427	37.637989	5.3913	33.153259	35.880976	5.5891
827	4	3	1	2	0	34.488427	34.894442	5.3913	33.153259	33.253749	5.5891
828	4	3	1	2	0	34.488427	34.7667	5.3913	33.153259	33.131468	5.5891
829	4	3	1	2	0	34.488427	32.182642	5.3913	33.153259	30.658747	5.5891
830	4	3	1	2	0	34.488427	32.062519	5.3913	33.153259	30.543841	5.5891
831	4	3	3	0	0	66.786552	76.859402	4.699	64.20101	73.643561	4.8594
832	4	2	1	1	1	31.161212	41.030188	5.4449	30.119613	38.92669	5.6374
833	4	2	2	0	1	47.989362	54.218351	4.6122	46.385262	51.438995	4.7597
834	4	2	2	0	1	47.989362	48.773952	4.6122	46.385262	46.285502	4.7597
835	4	2	2	1	0	31.995577	33.439787	5.8807	30.756916	31.861522	6.1221
836	3	2	1	1	0	29.973193	31.669581	4.6694	28.939504	30.209039	4.8454
837	3	2	2	0	0	53.305724	62.463143	3.8367	51.467364	59.899479	3.9677
838	3	1	1	0	1	25.730193	42.768931	1.9741	25.025191	40.576542	2.0566
839	2	1	1	0	0	44.112878	45.048148	1.3565	42.966893	43.237414	1.4028

Table of Criteria Values for PBDs

Dsgn	p	dv	l	c	q	$r_s = 1, n_0 = 0$		$r_s = 1, n_0 = 1$		$r_s = 1, n_0 = 3$	
						D	G	D	G	D	G
1	21	5	5	10	5	0	0	60.065488	22.458779	58.228137	20.662077
2	20	5	5	9	5	0	0	63.440895	21.552822	61.661373	19.828596
3	20	5	5	10	4	60.960821	22.361555	59.394451	21.389482	55.97067	19.678456
4	19	5	4	10	4	61.567431	22.599609	60.043661	21.617198	56.653999	19.887965
5	19	5	5	8	5	0	0	67.386617	24.489636	65.686047	22.530465
6	19	5	5	8	5	0	0	66.983001	26.595958	65.292617	24.468281
7	19	5	5	9	4	64.471375	21.405871	62.875734	20.475343	59.326192	18.837443
8	19	5	5	9	4	64.471375	21.405871	62.875734	20.494056	59.326192	18.869422
9	19	5	5	10	3	58.995071	21.243586	56.962791	20.320296	53.19195	18.695072
10	18	5	4	9	4	65.255999	21.580272	63.709533	20.642174	60.197379	18.990937
11	18	5	4	10	3	59.506446	21.410272	57.486551	20.47976	53.725464	18.841808
12	18	5	5	7	5	0	0	71.904211	27.447532	70.315147	25.25173
13	18	5	5	7	5	0	0	71.904211	26.746693	70.315147	24.606958
14	18	5	5	7	5	0	0	71.036099	28.801817	69.46622	26.497671
15	18	5	5	8	4	68.603036	24.255285	66.97725	23.200928	63.284955	21.345027
16	18	5	5	8	4	68.603036	24.255285	66.97725	23.201322	63.284955	21.345699
17	18	5	5	8	4	68.169379	26.341451	66.553871	25.19643	62.884915	23.18092
18	18	5	5	8	4	68.169379	26.341451	66.553871	25.453853	62.884915	23.624368
19	18	5	5	8	4	68.169379	26.341451	66.553871	25.212878	62.884915	23.201755
20	18	5	5	9	3	62.472935	20.27935	60.352345	19.397971	56.403762	17.846518
21	18	5	5	9	3	62.472935	20.279625	60.352345	19.398401	56.403762	17.847108
22	18	5	5	9	3	62.472935	20.488742	60.352345	19.628388	56.403762	18.093572
23	18	5	5	10	2	55.983227	20.125773	53.866255	19.251275	50.065253	17.71191
24	17	5	4	8	4	69.620915	24.477674	68.052894	23.413664	64.402281	21.540758
25	17	5	4	8	4	67.887688	25.111087	66.358703	24.019551	62.798973	22.098183
26	17	5	4	9	3	63.161152	20.38148	61.052809	19.495683	57.111177	17.93644
27	17	5	4	9	3	63.161152	20.381774	61.052809	19.496144	57.111177	17.937071
28	17	5	4	9	3	63.161152	20.415907	61.052809	19.53303	57.111177	17.975345
29	17	5	4	10	2	56.32329	20.221102	54.212282	19.342496	50.417118	17.795884
30	17	5	5	6	5	0	0	77.280041	37.000387	75.843982	34.040356
31	17	5	5	6	5	0	0	76.5834	33.759578	75.160286	31.058812
32	17	5	5	7	4	73.367402	27.100973	71.715001	25.92296	67.867939	23.849353
33	17	5	5	7	4	73.367402	27.100973	71.715001	25.923481	67.867939	23.850242
34	17	5	5	7	4	73.367402	27.100973	71.715001	25.956497	67.867939	23.906682
35	17	5	5	7	4	73.367402	26.408983	71.715001	25.261042	67.867939	23.240376
36	17	5	5	7	4	73.367402	26.408983	71.715001	25.292887	67.867939	23.294812
37	17	5	5	7	4	72.429853	28.438157	70.798569	27.202036	67.000667	25.026125
38	17	5	5	7	4	72.429853	28.438157	70.798569	27.202609	67.000667	25.027105
39	17	5	5	7	4	72.429853	28.438157	70.798569	27.201942	67.000667	25.025965
40	17	5	5	8	3	66.596399	22.90791	64.373387	21.912362	60.217374	20.159893
41	17	5	5	8	3	66.596399	23.167392	64.373387	22.205638	60.217374	20.482236
42	17	5	5	8	3	66.596399	22.907885	64.373387	21.912869	60.217374	20.160975
43	17	5	5	8	3	66.596399	23.179857	64.373387	22.215337	60.217374	20.488555
44	17	5	5	6	5	0	0	74.307715	31.493008	72.926889	28.973568
45	17	5	5	8	3	66.150747	24.878203	63.942611	23.797071	59.814409	21.893918
46	17	5	5	8	3	66.150747	25.271807	63.942611	24.243665	59.814409	22.386641
47	17	5	5	8	3	66.150747	24.896309	63.942611	23.818165	59.814409	21.913004
48	17	5	5	9	2	59.300551	19.152979	57.077955	18.320755	53.082178	16.855801
49	17	5	5	9	2	59.300551	19.406366	57.077955	18.575353	53.082178	17.106898

50	17	5	5	9	2	59.300551	19.351535	57.077955	18.538103	53.082178	17.093669
51	17	5	5	10	1	52.434095	19.289067	50.355618	18.45679	46.665395	16.989944
52	16	5	3	9	3	63.864472	20.203974	61.773184	19.32591	57.845179	17.780267
53	16	5	4	7	4	74.610458	27.72962	73.028911	26.524308	69.233479	24.402618
54	16	5	4	7	4	73.280745	24.858581	71.727385	23.778033	67.999595	21.875995
55	16	5	4	7	4	72.380404	26.960519	70.846129	25.788629	67.164139	23.725779
56	16	5	4	8	3	67.521352	23.037962	65.310317	22.036793	61.157394	20.274408
57	16	5	4	8	3	67.521352	23.317017	65.310317	22.352237	61.157394	20.621179
58	16	5	4	8	3	65.736735	23.634124	63.584138	22.60706	59.540979	20.799083
59	16	5	4	8	3	65.736735	24.011603	63.584138	23.035372	59.540979	21.271652
60	16	5	4	8	3	65.736735	23.633974	63.584138	22.60665	59.540979	20.798397
61	16	5	4	9	2	59.799791	19.182846	57.580975	18.349357	53.586159	16.882162
62	16	5	4	9	2	59.799791	19.453139	57.580975	18.620954	53.586159	17.150044
63	16	5	4	10	1	52.556989	19.331643	50.486276	18.497943	46.807755	17.028458
64	16	5	5	5	5	0	0	81.812182	43.400642	80.616861	39.92859
65	16	5	5	6	4	79.08852	36.406798	77.41205	34.824451	73.388819	32.038934
66	16	5	5	6	4	79.08852	36.406798	77.41205	34.888792	73.388819	32.148977
67	16	5	5	5	5	0	0	80.70163	35.753627	79.522534	32.893336
68	16	5	5	5	5	0	0	80.286364	32.167529	79.113336	29.594127
69	16	5	5	5	5	0	0	79.622564	37.239758	78.459234	34.260578
70	16	5	5	6	4	78.331231	33.21798	76.670814	31.774185	72.686106	29.232615
71	16	5	5	6	4	78.331231	33.21798	76.670814	31.775016	72.686106	29.234035
72	16	5	5	6	4	78.331231	33.21798	76.670814	32.131145	72.686106	29.848077
73	16	5	5	6	4	78.331231	33.21798	76.670814	31.827739	72.686106	29.324197
74	16	5	5	7	3	71.388335	25.506984	69.050673	24.398575	64.65991	22.447373
75	16	5	5	7	3	71.388335	25.564306	69.050673	24.460763	64.65991	22.513129
76	16	5	5	7	3	71.388335	25.50695	69.050673	24.399241	64.65991	22.448798
77	16	5	5	7	3	71.388335	25.571057	69.050673	24.466171	64.65991	22.516885
78	16	5	5	7	3	71.388335	24.85569	69.050673	23.775568	64.65991	21.874172
79	16	5	5	7	3	71.388335	24.910118	69.050673	23.834617	64.65991	21.936608
80	16	5	5	7	3	71.388335	24.967064	69.050673	23.99883	64.65991	22.216487
81	16	5	5	5	5	0	0	77.731621	29.947856	76.595919	27.552028
82	16	5	5	7	3	70.419449	26.765529	68.113514	25.602461	63.782343	23.555017
83	16	5	5	7	3	70.419449	26.78507	68.113514	25.622417	63.782343	23.574846
84	16	5	5	7	3	70.419449	27.271401	68.113514	26.169286	63.782343	24.173413
85	16	5	5	7	3	70.419449	26.789302	68.113514	25.625946	63.782343	23.57749
86	16	5	5	7	3	70.419449	26.784126	68.113514	25.621649	63.782343	23.574297
87	16	5	5	8	2	63.261271	21.560736	60.914021	20.624004	56.687966	18.975036
88	16	5	5	8	2	63.261271	21.89526	60.914021	20.9614	56.687966	19.309473
89	16	5	5	8	2	63.261271	21.80716	60.914021	20.899453	56.687966	19.283433
90	16	5	5	8	2	63.261271	21.910423	60.914021	20.974117	56.687966	19.318702
91	16	5	5	8	2	63.261271	21.818259	60.914021	20.908668	56.687966	19.289964
92	16	5	5	6	4	75.860451	30.987773	74.252408	29.640882	70.393388	27.26993
93	16	5	5	6	4	75.860451	30.987773	74.252408	30.158787	70.393388	28.167727
94	16	5	5	8	2	62.811573	23.922123	60.481008	22.91067	56.284995	21.117373
95	16	5	5	8	2	62.811573	23.435576	60.481008	22.417522	56.284995	20.624687
96	16	5	5	8	2	62.811573	23.788024	60.481008	22.817854	56.284995	21.081295
97	16	5	5	8	2	62.811573	23.455509	60.481008	22.436172	56.284995	20.641923
98	16	5	5	9	1	55.513596	18.295269	53.326394	17.505919	49.440937	16.114715
99	16	5	5	9	1	55.513596	18.267088	53.326394	17.48747	49.440937	16.110704
100	16	5	5	10	0	48.513466	18.163197	46.533286	17.382072	43.034307	16.005417
101	15	5	3	8	3	68.443204	22.269835	66.251246	21.302061	62.111668	19.598452
102	15	5	3	8	3	66.539875	25.737126	64.408872	24.618761	60.384411	22.650003
103	15	5	3	9	2	60.290129	18.941513	58.078831	18.118538	54.090857	16.669839

104	15	5	3	9	2	60.290129	18.988944	58.078831	18.164874	54.090857	16.7138
105	15	5	4	6	4	78.573523	33.364972	77.026122	31.91482	73.169193	29.362028
106	15	5	4	7	3	72.546845	25.996725	70.223463	24.867086	65.835689	22.878478
107	15	5	4	7	3	72.546845	26.060251	70.223463	24.936008	65.835689	22.951356
108	15	5	4	7	3	71.168538	23.305085	68.889298	22.292346	64.584886	20.509568
109	15	5	4	7	3	71.168538	23.356125	68.889298	22.347719	64.584886	20.568116
110	15	5	4	7	3	70.236239	25.275682	67.986857	24.177357	63.738832	22.243885
111	15	5	4	7	3	70.236239	25.294269	67.986857	24.196341	63.738832	22.262747
112	15	5	4	7	3	70.236239	25.275498	67.986857	24.176857	63.738832	22.243049
113	15	5	4	8	2	63.979396	21.598464	61.632784	20.66014	57.400779	19.008348
114	15	5	4	8	2	63.979396	21.956921	61.632784	21.021696	57.400779	19.366767
115	15	5	4	8	2	63.979396	21.862444	61.632784	20.955253	57.400779	19.33883
116	15	5	4	6	4	75.383292	29.177944	73.898719	27.90972	70.198388	25.677243
117	15	5	4	8	2	62.177263	22.641677	59.896749	21.684623	55.783948	19.987652
118	15	5	4	8	2	62.177263	22.1571	59.896749	21.19414	55.783948	19.499149
119	15	5	4	8	2	62.177263	22.553136	59.896749	21.615215	55.783948	19.945013
120	15	5	4	8	2	62.177263	22.175634	59.896749	21.211922	55.783948	19.515582
121	15	5	4	9	1	55.766373	18.269708	53.584411	17.481858	49.705759	16.093169
122	15	5	4	9	1	55.766373	18.239735	53.584411	17.462234	49.705759	16.088903
123	15	5	4	10	0	48.383434	18.13275	46.417158	17.35349	42.941827	15.980001
124	15	5	5	4	5	0	0	86.111743	49.100909	85.242914	45.172836
125	15	5	5	4	5	0	0	85.629105	51.727577	84.765147	47.589371
126	15	5	5	5	4	83.926064	42.537561	82.273251	40.688914	78.153582	37.43444
127	15	5	5	5	4	83.926064	42.537561	82.273251	40.690368	78.153582	37.436923
128	15	5	5	5	4	83.926064	42.537561	82.273251	40.782648	78.153582	37.594817
129	15	5	5	6	3	77.200454	34.131728	74.728037	32.648867	70.058803	30.038265
130	15	5	5	6	3	77.200454	34.131664	74.728037	32.650141	70.058803	30.040987
131	15	5	5	5	4	82.711419	35.042617	81.082528	33.519576	77.022481	30.838444
132	15	5	5	5	4	82.711419	35.042617	81.082528	33.521882	77.022481	30.842382
133	15	5	5	5	4	82.711419	35.042617	81.082528	34.161156	77.022481	31.428582
134	15	5	5	4	5	0	0	83.908148	42.841552	83.061553	39.414227
135	15	5	5	5	4	82.257516	31.527834	80.637563	30.157505	76.599798	27.745256
136	15	5	5	5	4	82.257516	31.527834	80.637563	30.159371	76.599798	27.748443
137	15	5	5	5	4	82.257516	31.527834	80.637563	30.208965	76.599798	27.833258
138	15	5	5	5	4	81.532278	36.499195	79.926609	34.912871	75.924443	32.120312
139	15	5	5	5	4	81.532278	36.499195	79.926609	34.913942	75.924443	32.122141
140	15	5	5	5	4	81.532278	36.499195	79.926609	34.912696	75.924443	32.120013
141	15	5	5	6	3	76.412216	31.142152	73.965042	29.789084	69.343483	27.407045
142	15	5	5	6	3	76.412216	31.688989	73.965042	30.407847	69.343483	28.088121
143	15	5	5	6	3	76.412216	31.233358	73.965042	29.888044	69.343483	27.511695
144	15	5	5	6	3	76.412216	31.142098	73.965042	29.790144	69.343483	27.409311
145	15	5	5	6	3	76.412216	31.715429	73.965042	30.428464	69.343483	28.101592
146	15	5	5	6	3	76.412216	31.244108	73.965042	29.896657	69.343483	27.51768
147	15	5	5	6	3	76.412216	31.328926	73.965042	30.164118	69.343483	27.983293
148	15	5	5	7	2	67.895136	24.363384	65.404905	23.326874	60.913887	21.492148
149	15	5	5	7	2	67.895136	24.237276	65.404905	23.236773	60.913887	21.451629
150	15	5	5	7	2	67.895136	24.37346	65.404905	23.33529	60.913887	21.4982
151	15	5	5	7	2	67.895136	24.251902	65.404905	23.248925	60.913887	21.460251
152	15	5	5	7	2	67.895136	24.265559	65.404905	23.260354	60.913887	21.46849
153	15	5	5	7	2	67.895136	23.302644	65.404905	22.290347	60.913887	20.508306
154	15	5	5	7	2	67.895136	23.374473	65.404905	22.360519	60.913887	20.574883
155	15	5	5	7	2	67.895136	23.610222	65.404905	22.634257	60.913887	20.893531
156	15	5	5	5	4	79.468543	29.352303	77.903516	28.076502	74.002653	25.830686
157	15	5	5	7	2	66.912675	25.716122	64.458478	24.633339	60.032447	22.711462

158	15	5	5	7	2	66.912675	25.119954	64.458478	24.028128	60.032447	22.106355
159	15	5	5	7	2	66.912675	25.617712	64.458478	24.556903	60.032447	22.665726
160	15	5	5	7	2	66.912675	25.119431	64.458478	24.027668	60.032447	22.105985
161	15	5	5	8	1	59.216109	20.574936	56.89917	19.688599	52.780582	18.126018
162	15	5	5	8	1	59.216109	20.53693	56.89917	19.663712	52.780582	18.120607
163	15	5	5	8	1	59.216109	20.544623	56.89917	19.670339	52.780582	18.125586
164	15	5	5	6	3	73.844013	29.834503	71.479089	28.681875	67.012859	26.556887
165	15	5	5	6	3	73.844013	29.051052	71.479089	27.78835	67.012859	25.565732
166	15	5	5	6	3	73.844013	30.063077	71.479089	28.86441	67.012859	26.682093
167	15	5	5	8	1	58.76721	22.432237	56.467834	21.489708	52.380469	19.815969
168	15	5	5	8	1	58.76721	21.993728	56.467834	21.037557	52.380469	19.354672
169	15	5	5	8	1	58.76721	22.444572	56.467834	21.492244	52.380469	19.808699
170	15	5	5	9	0	51.292063	17.160175	49.207581	16.422249	45.523327	15.121714
171	15	4	4	6	4	56.396204	41.7427	55.285556	39.928582	52.517242	36.734911
172	14	5	3	7	3	73.598354	32.061375	71.301886	30.668467	66.936847	28.216226
173	14	5	3	7	3	72.364765	23.031835	70.10679	22.031	65.814913	20.269158
174	14	5	3	7	3	71.075533	26.362906	68.857784	25.217413	64.642371	23.200856
175	14	5	3	8	2	64.666372	20.78555	62.326096	19.882565	58.097278	18.292971
176	14	5	3	8	2	64.666372	21.141429	62.326096	20.241531	58.097278	18.648839
177	14	5	3	8	2	62.741552	24.633855	60.470935	23.597534	56.36799	21.757705
178	14	5	3	8	2	62.741552	24.046335	60.470935	23.005433	56.36799	21.171323
179	14	5	3	9	1	55.976539	17.974895	53.803794	17.200104	49.938661	15.834323
180	14	5	4	5	4	83.176456	34.088286	81.681583	32.606746	77.769159	29.998646
181	14	5	4	5	4	82.605676	31.508075	81.121061	30.138636	77.235485	27.727921
182	14	5	4	5	4	81.511802	34.36413	80.046847	32.870605	76.212724	30.241404
183	14	5	4	6	3	76.529775	31.140957	74.141839	29.788008	69.602941	27.406133
184	14	5	4	6	3	76.529775	31.727544	74.141839	30.451904	69.602941	28.137105
185	14	5	4	6	3	76.529775	31.238691	74.141839	29.894053	69.602941	27.518281
186	14	5	4	7	2	68.829243	24.264116	66.338312	23.210155	61.837266	21.35472
187	14	5	4	7	2	68.829243	24.347586	66.338312	23.291702	61.837266	21.432092
188	14	5	4	7	2	68.829243	24.761468	66.338312	23.710082	61.837266	21.848063
189	14	5	4	7	2	68.829243	24.621965	66.338312	23.610382	61.837266	21.803208
190	14	5	4	7	2	67.429117	21.75182	64.988857	20.806893	60.579371	19.143448
191	14	5	4	7	2	67.429117	21.818876	64.988857	20.872402	60.579371	19.205603
192	14	5	4	7	2	67.429117	22.038964	64.988857	21.127955	60.579371	19.503081
193	14	5	4	5	4	79.566113	28.48797	78.136126	27.249753	74.393524	25.07008
194	14	5	4	7	2	66.483155	24.181137	64.077129	23.163233	59.729504	21.356398
195	14	5	4	7	2	66.483155	23.616461	64.077129	22.589986	59.729504	20.78324
196	14	5	4	7	2	66.483155	23.613281	64.077129	22.587159	59.729504	20.780932
197	14	5	4	8	1	59.654387	20.544532	57.338886	19.660079	53.2198	18.100636
198	14	5	4	8	1	59.654387	20.49592	57.338886	19.626543	53.2198	18.089554
199	14	5	4	8	1	59.654387	20.503937	57.338886	19.633494	53.2198	18.094854
200	14	5	4	6	3	73.205467	27.970472	70.921259	26.89047	66.579521	24.898926
201	14	5	4	6	3	73.205467	27.232762	70.921259	26.049094	66.579521	23.96559
202	14	5	4	8	1	57.855883	21.13994	55.610191	20.242125	51.615291	18.655219
203	14	5	4	8	1	57.855883	20.701233	55.610191	19.801254	51.615291	18.217267
204	14	5	4	8	1	57.855883	21.12925	55.610191	20.232923	51.615291	18.648316
205	14	5	4	9	0	51.251977	17.060581	49.179534	16.327468	45.515448	15.035298
206	14	5	5	3	5	0	0	91.37651	50.461327	90.929015	46.424421
207	14	5	5	3	5	0	0	90.53798	49.597978	90.094591	45.63014
208	14	5	5	4	4	88.540618	47.910584	86.949338	45.828619	82.784597	42.163198
209	14	5	5	4	4	88.540618	47.910584	86.949338	45.830595	82.784597	42.166573
210	14	5	5	4	4	88.540618	47.910584	86.949338	45.833238	82.784597	42.171087
211	14	5	5	4	4	88.540618	47.910584	86.949338	45.956083	82.784597	42.381379

212	14	5	5	4	4	88.009027	50.473575	86.427302	48.280297	82.287565	44.418838
213	14	5	5	4	4	88.009027	50.473575	86.427302	48.28249	82.287565	44.422584
214	14	5	5	5	3	82.128784	39.702238	79.566144	37.977688	74.695174	34.941368
215	14	5	5	5	3	82.128784	39.861234	79.566144	38.150229	74.695174	35.123869
216	14	5	5	5	3	82.128784	39.702145	79.566144	37.979535	74.695174	34.945314
217	14	5	5	5	3	82.128784	40.707306	79.566144	39.099938	74.695174	36.16223
218	14	5	5	5	3	82.128784	40.028199	79.566144	38.633807	74.695174	35.952673
219	14	5	5	6	2	73.570377	31.857152	70.907865	30.473783	66.096776	28.038256
220	14	5	5	6	2	73.570377	32.739493	70.907865	31.357705	66.096776	28.906651
221	14	5	5	5	3	80.85591	32.706792	78.332987	31.285866	73.53751	28.784283
222	14	5	5	5	3	80.85591	32.70771	78.332987	31.287305	73.53751	28.786258
223	14	5	5	5	3	80.85591	33.332633	78.332987	31.883935	73.53751	29.333855
224	14	5	5	5	3	80.85591	32.706676	78.332987	31.288695	73.53751	28.790297
225	14	5	5	5	3	80.85591	34.190847	78.332987	32.863236	73.53751	30.420577
226	14	5	5	3	5	0	0	89.98323	52.347342	89.542557	48.159555
227	14	5	5	4	4	86.115266	41.802969	84.567575	39.986288	80.516917	36.788047
228	14	5	5	4	4	86.115266	41.802969	84.567575	39.987793	80.516917	36.790616
229	14	5	5	4	4	86.115266	41.802969	84.567575	39.986042	80.516917	36.787627
230	14	5	5	5	3	80.380588	29.426261	77.872497	28.147756	73.105211	25.896977
231	14	5	5	5	3	80.380588	29.427004	77.872497	28.148921	73.105211	25.898575
232	14	5	5	5	3	80.380588	29.513513	77.872497	28.242426	73.105211	25.997091
233	14	5	5	5	3	80.380588	29.998221	77.872497	28.778019	73.105211	26.573937
234	14	5	5	5	3	80.380588	29.604944	77.872497	28.506575	73.105211	26.448367
235	14	5	5	5	3	79.621518	34.066294	77.137112	32.586354	72.414845	29.980841
236	14	5	5	5	3	79.621518	34.065937	77.137112	32.585381	72.414845	29.979213
237	14	5	5	5	3	79.621518	34.542016	77.137112	33.042892	72.414845	30.402596
238	14	5	5	5	3	79.621518	34.066496	77.137112	32.586408	72.414845	29.980729
239	14	5	5	6	2	72.765842	29.066735	70.132446	27.8044	65.373969	25.582025
240	14	5	5	6	2	72.765842	29.767454	70.132446	28.511484	65.373969	26.283433
241	14	5	5	6	2	72.765842	29.1866	70.132446	27.921506	65.373969	25.693141
242	14	5	5	6	2	72.765842	29.193471	70.132446	27.92752	65.373969	25.697905
243	14	5	5	6	2	72.765842	29.799497	70.132446	28.538383	65.373969	26.302981
244	14	5	5	6	2	72.765842	29.199657	70.132446	27.932869	65.373969	25.702044
245	14	5	5	6	2	72.765842	29.605113	70.132446	28.400144	65.373969	26.242148
246	14	5	5	7	1	63.574605	22.793142	61.106939	21.812953	56.717166	20.084367
247	14	5	5	7	1	63.574605	22.403199	61.106939	21.429839	56.717166	19.716504
248	14	5	5	7	1	63.574605	22.753295	61.106939	21.788943	56.717166	20.083798
249	14	5	5	7	1	63.574605	22.199092	61.106939	21.244173	56.717166	19.560243
250	14	5	5	7	1	63.574605	22.161292	61.106939	21.221399	56.717166	19.559704
251	14	5	5	5	3	77.46416	27.395728	75.04707	26.205387	70.452754	24.109858
252	14	5	5	5	3	77.46416	27.499162	75.04707	26.318762	70.452754	24.230933
253	14	5	5	5	3	77.46416	27.509554	75.04707	26.327026	70.452754	24.236587
254	14	5	5	7	1	62.589465	24.011658	60.160038	22.995173	55.838288	21.197464
255	14	5	5	7	1	62.589465	23.997867	60.160038	22.983298	55.838288	21.188552
256	14	5	5	7	1	62.589465	24.009122	60.160038	22.992999	55.838288	21.195846
257	14	5	5	8	0	54.656278	19.214503	52.446177	18.390064	48.538712	16.936657
258	14	5	5	6	2	70.148683	28.251586	67.610002	27.068926	63.022672	24.966561
259	14	5	5	6	2	70.148683	28.0937	67.610002	26.934504	63.022672	24.865977
260	14	5	5	6	2	70.148683	28.124416	67.610002	26.97009	63.022672	24.907364
261	14	5	5	8	0	54.21247	21.004062	52.020316	20.103956	48.144579	18.516911
262	14	4	4	5	4	59.590127	43.167048	58.519154	41.291116	55.716175	37.988532
263	14	4	4	6	3	55.380997	38.960349	53.652961	37.267994	50.368373	34.28838
264	14	4	4	6	3	55.380997	39.113447	53.652961	37.434133	50.368373	34.464106
265	13	5	3	6	3	77.626864	32.80693	75.278502	31.381743	70.77996	28.872597

266	13	5	3	7	2	69.621912	29.772096	67.141487	28.47928	62.649143	26.203172
267	13	5	3	7	2	69.621912	29.907581	67.141487	28.611648	62.649143	26.328773
268	13	5	3	7	2	68.366023	21.387127	65.930342	20.458089	61.519033	18.822595
269	13	5	3	7	2	68.366023	21.456953	65.930342	20.526305	61.519033	18.887318
270	13	5	3	7	2	67.055243	25.166628	64.666261	24.111453	60.339531	22.236489
271	13	5	3	7	2	67.055243	24.509792	64.666261	23.44453	60.339531	21.569492
272	13	5	3	7	2	67.055243	24.479994	64.666261	23.416199	60.339531	21.543664
273	13	5	3	8	1	60.020452	19.682133	57.712327	18.835074	53.602823	17.341477
274	13	5	3	8	1	60.020452	19.634088	57.712327	18.801927	53.602823	17.330523
275	13	5	3	6	3	73.009985	28.73871	70.801293	27.490123	66.570302	25.291982
276	13	5	3	8	1	58.098717	22.880592	55.864493	21.925152	51.886568	20.231223
277	13	5	3	8	1	58.098717	22.485826	55.864493	21.508276	51.886568	19.787758
278	13	5	3	9	0	51.126939	16.70011	49.071535	15.982946	45.436307	14.718787
279	13	5	4	5	3	81.203741	31.653761	78.747171	30.278629	74.041346	27.857636
280	13	5	4	5	3	81.203741	32.177839	78.747171	30.780543	74.041346	28.320119
281	13	5	4	5	3	81.203741	31.653429	78.747171	30.277724	74.041346	27.856122
282	13	5	4	4	4	86.259666	38.836556	84.881032	37.148791	81.028856	34.177503
283	13	5	4	5	3	80.603792	29.257799	78.165372	27.986677	73.494314	25.748851
284	13	5	4	5	3	80.603792	29.258591	78.165372	27.987917	73.494314	25.750553
285	13	5	4	5	3	80.603792	29.35071	78.165372	28.08749	73.494314	25.855466
286	13	5	4	5	3	79.45491	31.909907	77.051246	30.523657	72.446767	28.083083
287	13	5	4	5	3	79.45491	31.909569	77.051246	30.522737	72.446767	28.081544
288	13	5	4	6	2	72.612782	28.917377	70.025801	27.66163	65.340471	25.450808
289	13	5	4	6	2	72.612782	29.66555	70.025801	28.416677	65.340471	26.199907
290	13	5	4	6	2	72.612782	29.045177	70.025801	27.78649	65.340471	25.569283
291	13	5	4	6	2	72.612782	29.052505	70.025801	27.792904	65.340471	25.574364
292	13	5	4	6	2	72.612782	29.467035	70.025801	28.276833	65.340471	26.140958
293	13	5	4	7	1	64.191562	23.052245	61.723034	22.061889	57.327942	20.315062
294	13	5	4	7	1	64.191562	22.623358	61.723034	21.640495	57.327942	19.91041
295	13	5	4	7	1	64.191562	22.986365	61.723034	22.016426	57.327942	20.300031
296	13	5	4	7	1	64.191562	22.997225	61.723034	22.025847	57.327942	20.307219
297	13	5	4	7	1	62.786438	20.616039	60.371946	19.729219	56.073059	18.165375
298	13	5	4	5	3	77.414317	26.453362	75.072385	25.303997	70.586159	23.280583
299	13	5	4	5	3	77.414317	26.557237	75.072385	25.417858	70.586159	23.40218
300	13	5	4	7	1	61.838366	22.463285	59.460332	21.51254	55.226359	19.831034
301	13	5	4	7	1	61.838366	21.931423	59.460332	20.977973	55.226359	19.299872
302	13	5	4	7	1	61.838366	22.450287	59.460332	21.501348	55.226359	19.822634
303	13	5	4	8	0	54.753515	19.089002	52.552317	18.27071	48.659231	16.827973
304	13	5	4	6	2	69.221746	26.353044	66.755577	25.250055	62.289054	23.289225
305	13	5	4	6	2	69.221746	26.205102	66.755577	25.124095	62.289054	23.194971
306	13	5	4	8	0	52.977867	19.672727	50.848052	18.82978	47.081219	17.343494
307	13	5	5	2	5	0	0	97.051292	56.521739	97.160733	58.294362
308	13	5	5	3	4	94.263041	48.986807	92.756494	46.858189	88.546905	43.110512
309	13	5	5	3	4	94.263041	48.986807	92.756494	47.001736	88.546905	43.356281
310	13	5	5	3	4	93.331811	48.148687	91.840148	46.056466	87.672145	42.372894
311	13	5	5	3	4	93.331811	48.148687	91.840148	46.058616	87.672145	42.376565
312	13	5	5	3	4	93.331811	48.148687	91.840148	46.987726	87.672145	43.991149
313	13	5	5	3	4	93.331811	48.148687	91.840148	46.195135	87.672145	42.610301
314	13	5	5	4	3	86.85724	44.489096	84.229642	42.556997	79.196191	39.155
315	13	5	5	4	3	86.85724	44.490925	84.229642	42.559864	79.196191	39.158935
316	13	5	5	4	3	86.85724	44.704278	84.229642	42.790542	79.196191	39.402066
317	13	5	5	4	3	86.85724	44.488969	84.229642	42.559494	79.196191	39.160336
318	13	5	5	4	3	86.85724	44.729694	84.229642	42.810916	79.196191	39.416231
319	13	5	5	4	3	86.85724	44.753922	84.229642	42.830767	79.196191	39.430629

320	13	5	5	4	3	86.295773	46.869092	83.685159	44.833758	78.684246	41.249902
321	13	5	5	4	3	86.295773	48.820849	83.685159	47.029218	78.684246	43.657028
322	13	5	5	4	3	86.295773	46.939331	83.685159	44.906243	78.684246	41.32274
323	13	5	5	6	1	68.965728	30.486773	66.313606	29.182105	61.591634	26.879257
324	13	5	5	6	1	68.965728	30.41006	66.313606	29.13585	61.591634	26.878159
325	13	5	5	5	2	77.04269	30.371446	74.297884	29.052637	69.326715	26.730751
326	13	5	5	5	2	77.04269	30.952293	74.297884	29.607424	69.326715	27.240046
327	13	5	5	5	2	77.04269	30.372801	74.297884	29.054814	69.326715	26.733967
328	13	5	5	5	2	77.04269	32.028997	74.297884	30.70339	69.326715	28.339816
329	13	5	5	5	2	77.04269	31.847369	74.297884	30.561829	69.326715	28.254484
330	13	5	5	3	4	92.716098	50.817712	91.234275	50.338242	87.093769	46.312312
331	13	5	5	3	4	92.716098	50.817712	91.234275	48.764079	87.093769	44.986411
332	13	5	5	4	3	84.297704	38.817572	81.747537	37.131534	76.862413	34.162962
333	13	5	5	4	3	84.297704	38.817072	81.747537	37.130172	76.862413	34.160686
334	13	5	5	4	3	84.297704	40.146843	81.747537	38.428696	76.862413	35.358967
335	13	5	5	4	3	84.297704	38.879154	81.747537	37.192376	76.862413	34.221186
336	13	5	5	4	3	84.297704	39.616188	81.747537	38.231846	76.862413	35.455222
337	13	5	5	4	3	84.297704	38.865739	81.747537	37.181239	76.862413	34.212907
338	13	5	5	5	2	76.555056	27.325076	73.827623	26.138396	68.887919	24.049206
339	13	5	5	5	2	76.555056	27.992173	73.827623	26.811565	68.887919	24.716988
340	13	5	5	5	2	76.555056	28.022688	73.827623	26.837182	68.887919	24.735606
341	13	5	5	5	2	76.555056	27.837586	73.827623	26.705537	68.887919	24.67767
342	13	5	5	5	2	76.555056	27.858352	73.827623	26.722939	68.887919	24.690244
343	13	5	5	5	2	75.776785	32.075747	73.07708	30.683033	68.187593	28.230984
344	13	5	5	5	2	75.776785	31.633243	73.07708	30.258807	68.187593	27.839373
345	13	5	5	5	2	75.776785	32.075508	73.07708	30.684451	68.187593	28.234556
346	13	5	5	5	2	75.776785	32.568731	73.07708	31.256377	68.187593	28.899809
347	13	5	5	6	1	68.153876	27.742038	65.532975	26.553121	60.866589	24.455131
348	13	5	5	6	1	68.153876	27.123236	65.532975	25.945057	60.866589	23.871113
349	13	5	5	6	1	68.153876	27.646681	65.532975	26.487291	60.866589	24.433352
350	13	5	5	6	1	68.153876	27.678502	65.532975	26.514819	60.866589	24.454223
351	13	5	5	7	0	58.638053	21.179754	56.280688	20.273255	52.111405	18.674693
352	13	5	5	7	0	58.638053	20.627379	56.280688	19.744157	52.111405	18.186722
353	13	5	5	5	2	73.567988	26.18136	70.946975	25.085279	66.200011	23.136861
354	13	5	5	5	2	73.567988	25.573791	70.946975	24.46687	66.200011	22.516383
355	13	5	5	5	2	73.567988	26.006169	70.946975	24.966914	66.200011	23.096634
356	13	5	5	7	0	57.660099	22.351751	55.34205	21.39593	51.242301	19.710208
357	13	5	5	6	1	65.517727	26.246409	62.998201	25.140654	58.512308	23.183362
358	13	5	5	6	1	65.517727	26.321301	62.998201	25.200386	58.512308	23.220124
359	13	4	3	6	3	54.803111	39.033541	53.145212	37.338131	49.969325	34.353053
360	13	4	4	4	4	63.49484	48.585596	62.480042	46.474401	59.644495	42.757412
361	13	4	4	4	4	62.787195	48.378856	61.783707	46.27664	58.979763	42.575463
362	13	4	4	5	3	58.683863	40.084253	56.908563	38.343253	53.507783	35.277873
363	13	4	4	5	3	58.683863	40.258851	56.908563	38.532736	53.507783	35.478308
364	13	4	4	6	2	53.045346	36.178678	51.155496	34.608088	47.732752	31.842741
365	12	5	2	7	2	69.133517	26.139837	66.715924	25.004677	62.325395	23.006169
366	12	5	3	5	3	82.80104	38.260365	80.388093	36.598641	75.72141	33.672803
367	12	5	3	5	3	82.035602	38.370916	79.64496	36.704396	75.021418	33.77011
368	12	5	3	5	3	80.457852	34.599407	78.113189	33.096533	73.578569	30.45049
369	12	5	3	6	2	73.418985	30.284239	70.85153	28.969352	66.18884	26.654308
370	12	5	3	6	2	73.418985	31.079531	70.85153	29.730611	66.18884	27.355417
371	12	5	3	6	2	73.418985	30.436177	70.85153	29.117799	66.18884	26.795171
372	12	5	3	7	1	64.616098	28.328402	62.158366	27.116229	57.778059	24.976601
373	12	5	3	7	1	64.616098	27.631047	62.158366	26.430926	57.778059	24.318319

374	12	5	3	7	1	64.616098	28.220725	62.158366	27.041876	57.778059	24.951993
375	12	5	3	7	1	63.354329	20.17502	60.94459	19.307732	56.649817	17.778151
376	12	5	3	7	1	63.354329	20.120346	60.94459	19.270006	56.649817	17.76568
377	12	5	3	5	3	78.925867	35.584005	76.625848	34.038406	72.177571	31.31711
378	12	5	3	7	1	62.039472	23.241603	59.679744	22.261162	55.474105	20.526098
379	12	5	3	7	1	62.039472	22.626559	59.679744	21.6429	55.474105	19.911625
380	12	5	3	8	0	54.72525	18.179851	52.540157	17.400885	48.673981	16.027407
381	12	5	3	6	2	68.700428	27.406056	66.29798	26.26464	61.934956	24.232852
382	12	5	3	6	2	68.700428	26.645265	66.29798	25.490556	61.934956	23.456519
383	12	5	3	8	0	52.829598	21.326998	50.720195	20.415512	46.987942	18.807869
384	12	5	4	5	2	77.090826	29.702622	74.394967	28.412953	69.499086	26.142326
385	12	5	4	5	2	77.090826	29.219092	74.394967	27.94955	69.499086	25.71476
386	12	5	4	5	2	77.090826	29.704026	74.394967	28.415209	69.499086	26.145658
387	12	5	4	5	2	77.090826	30.259369	74.394967	29.008492	69.499086	26.777461
388	12	5	4	3	4	93.021536	52.879526	91.751264	50.581985	87.857306	46.536661
389	12	5	4	4	3	84.300854	35.849619	81.8442	34.292494	77.092988	31.550897
390	12	5	4	4	3	84.300854	35.849156	81.8442	34.291236	77.092988	31.548793
391	12	5	4	5	2	76.473991	27.007931	73.799703	25.835119	68.942996	23.770302
392	12	5	4	5	2	76.473991	27.715162	73.799703	26.548861	68.942996	24.478441
393	12	5	4	5	2	76.473991	27.731252	73.799703	26.562431	68.942996	24.4884
394	12	5	4	5	2	76.473991	27.527469	73.799703	26.416633	68.942996	24.422697
395	12	5	4	5	2	75.293843	30.541745	72.660824	29.276141	67.879066	27.020284
396	12	5	4	5	2	75.293843	29.455539	72.660824	28.17573	67.879066	25.922865
397	12	5	4	6	1	67.628557	27.49082	65.056244	26.313927	60.471722	24.236753
398	12	5	4	6	1	67.628557	26.833614	65.056244	25.668094	60.471722	23.616407
399	12	5	4	6	1	67.628557	27.389405	65.056244	26.243904	60.471722	24.213581
400	12	5	4	7	0	58.856983	21.295085	56.506916	20.38494	52.348846	18.779667
401	12	5	4	7	0	57.46255	19.043058	55.16816	18.227675	51.108603	16.789864
402	12	5	4	5	2	73.201231	25.160461	70.641391	24.108791	65.99253	22.238534
403	12	5	4	5	2	73.201231	24.55317	70.641391	23.490616	65.99253	21.618221
404	12	5	4	7	0	56.523155	20.787071	54.266274	19.898272	50.273082	18.330726
405	12	5	4	6	1	64.21385	24.337804	61.771419	23.312607	57.418379	21.497865
406	12	5	4	6	1	64.21385	24.407567	61.771419	23.36825	57.418379	21.53211
407	12	5	5	1	5	0	0	103.92644	52.173913	104.778937	60.679626
408	12	5	5	2	4	100.509143	61.147932	99.136623	58.491424	94.929227	53.813762
409	12	5	5	2	4	100.509143	61.147932	99.136623	58.500203	94.929227	53.828755
410	12	5	5	2	4	100.509143	61.147932	99.136623	58.733994	94.929227	54.229464
411	12	5	5	3	3	92.806157	45.219371	90.101646	43.255784	84.871073	39.79819
412	12	5	5	3	3	92.806157	45.488794	90.101646	43.540143	84.871073	40.090762
413	12	5	5	3	3	91.813327	44.445694	89.137748	42.515662	83.963131	39.11718
414	12	5	5	3	3	91.813327	45.857419	89.137748	44.117242	83.963131	40.885911
415	12	5	5	3	3	91.813327	44.445557	89.137748	42.518362	83.963131	39.122949
416	12	5	5	3	3	91.813327	45.926676	89.137748	44.17152	83.963131	40.921602
417	12	5	5	3	3	91.813327	44.70595	89.137748	42.790342	83.963131	39.399789
418	12	5	5	3	3	91.813327	45.990888	89.137748	44.222353	83.963131	40.955782
419	12	5	5	3	3	91.813327	44.73217	89.137748	42.811827	83.963131	39.415374
420	12	5	5	3	3	91.813327	44.923481	89.137748	43.480096	83.963131	40.609111
421	12	5	5	4	2	82.921762	41.068548	80.021996	39.286304	74.755804	36.148005
422	12	5	5	4	2	82.921762	41.348465	80.021996	39.559811	74.755804	36.407572
423	12	5	5	4	2	82.921762	42.803524	80.021996	41.025653	74.755804	37.858671
424	12	5	5	4	2	82.921762	41.379047	80.021996	39.586431	74.755804	36.428432
425	12	5	5	4	2	82.921762	42.389744	80.021996	40.73724	74.755804	37.743693
426	12	5	5	4	2	82.341222	45.64887	79.461757	43.803454	74.232434	40.492536
427	12	5	5	4	2	82.341222	45.187399	79.461757	43.439304	74.232434	40.266113

428	12	5	5	5	1	73.435474	35.339269	70.642289	33.833126	65.664119	31.17268
429	12	5	5	5	1	73.435474	35.171858	70.642289	33.717454	65.664119	31.134358
430	12	5	5	5	1	73.435474	35.227674	70.642289	33.765797	65.664119	31.171081
431	12	5	5	1	5	0	0	103.92644	52.173913	104.778937	51.66492
432	12	5	5	6	0	63.613554	28.169785	61.073564	26.972541	56.579457	24.85944
433	12	5	5	5	1	72.109366	28.036564	69.366621	26.819831	64.478346	24.677661
434	12	5	5	5	1	72.109366	29.713153	69.366621	28.453712	64.478346	26.226832
435	12	5	5	5	1	72.109366	29.605331	69.366621	28.367397	64.478346	26.173166
436	12	5	5	3	3	91.157337	48.577679	88.500875	46.46846	83.36323	42.754293
437	12	5	5	3	3	91.157337	48.569775	88.500875	46.770416	83.36323	43.073787
438	12	5	5	4	2	80.277848	37.08271	77.470539	35.473146	72.372256	32.639049
439	12	5	5	4	2	80.277848	35.83196	77.470539	34.275331	72.372256	31.53507
440	12	5	5	4	2	80.277848	37.15071	77.470539	35.680428	72.372256	33.027638
441	12	5	5	4	2	80.277848	37.323881	77.470539	35.707455	72.372256	32.859606
442	12	5	5	4	2	80.277848	37.141084	77.470539	35.672437	72.372256	33.021996
443	12	5	5	5	1	71.615054	25.934386	68.891111	24.823144	64.036345	22.862155
444	12	5	5	5	1	71.615054	25.844111	68.891111	24.76082	64.036345	22.841535
445	12	5	5	5	1	71.615054	25.874235	68.891111	24.786882	64.036345	22.861295
446	12	5	5	5	1	70.826668	29.609925	68.132711	28.325045	63.331391	26.062852
447	12	5	5	5	1	70.826668	30.393564	68.132711	29.106043	63.331391	26.829271
448	12	5	5	5	1	70.826668	30.280757	68.132711	29.015731	63.331391	26.773114
449	12	5	5	6	0	62.802702	25.631341	60.295089	24.539724	55.858265	22.613542
450	12	5	5	5	1	68.592858	24.175026	65.983867	23.17156	61.333976	21.390568
451	12	5	5	6	0	60.175395	24.298107	57.772686	23.262147	53.521474	21.434416
452	12	4	3	5	3	58.273392	39.694652	56.575217	37.970703	53.290918	34.935257
453	12	4	3	6	2	52.257983	36.032262	50.430526	34.468216	47.111728	31.714305
454	12	4	3	6	2	52.257983	36.247555	50.430526	34.678572	47.111728	31.913926
455	12	4	4	3	4	68.368354	51.438382	67.434738	49.203415	64.572782	45.268311
456	12	4	4	3	4	67.534694	50.644885	66.612462	48.444372	63.785404	44.569956
457	12	4	4	4	3	62.780561	44.849009	60.951041	42.901485	57.412716	39.472188
458	12	4	4	4	3	62.780561	44.851023	60.951041	42.904642	57.412716	39.47652
459	12	4	4	4	3	62.780561	45.086016	60.951041	43.158734	57.412716	39.744355
460	12	4	4	4	3	62.022924	44.658166	60.215482	42.718918	56.719858	39.304202
461	12	4	4	5	2	56.278465	37.002221	54.310413	35.396144	50.736282	32.568192
462	12	4	4	5	2	56.278465	38.342711	54.310413	36.74976	50.736282	33.912354
463	12	4	4	5	2	56.278465	37.984406	54.310413	36.496881	50.736282	33.805459
464	12	4	4	6	1	49.95192	34.654004	48.051953	33.176488	44.665726	30.566796
465	11	5	2	6	2	73.209885	30.756857	70.706643	29.421648	66.145468	27.070735
466	11	5	2	6	2	70.639226	27.34185	68.223881	26.154692	63.822865	24.064543
467	11	5	2	7	1	63.688286	24.662455	61.297453	23.606294	57.031218	21.74232
468	11	5	2	7	1	63.688286	24.085146	61.297453	23.038984	57.031218	21.197413
469	11	5	3	5	2	78.375334	35.073346	75.695471	33.55108	70.812474	30.870658
470	11	5	3	5	2	78.375334	36.86547	75.695471	35.27052	70.812474	32.459757
471	11	5	3	4	3	85.68107	42.808569	83.296775	40.949745	78.629585	37.67657
472	11	5	3	5	2	77.585275	35.174693	74.932426	33.648035	70.098653	30.959878
473	11	5	3	5	2	77.585275	36.497937	74.932426	34.984344	70.098653	32.287016
474	11	5	3	5	2	77.585275	35.398599	74.932426	33.86681	70.098653	31.167495
475	11	5	3	5	2	75.958897	31.717223	73.361659	30.34039	68.629213	27.916156
476	11	5	3	5	2	75.958897	33.296625	73.361659	31.850154	68.629213	29.303805
477	11	5	3	6	1	68.00703	28.489793	65.454073	27.253639	60.898542	25.077197
478	11	5	3	6	1	68.00703	27.926627	65.454073	26.713795	60.898542	24.578772
479	11	5	3	6	1	68.00703	28.58519	65.454073	27.396246	60.898542	25.286833
480	11	5	3	7	0	58.816013	25.993848	56.486601	24.889253	52.363092	22.939636
481	11	5	3	7	0	57.564213	18.507026	55.284378	17.715332	51.248631	16.31913

482	11	5	3	5	2	74.382466	34.083369	71.83913	32.68616	67.2049	30.188615
483	11	5	3	5	2	74.382466	32.681562	71.83913	31.261425	67.2049	28.761612
484	11	5	3	7	0	56.262152	21.364396	54.033886	20.452781	50.089425	18.844589
485	11	5	3	6	1	63.253163	25.337024	60.878664	24.252429	56.641576	22.338126
486	11	5	3	6	1	63.253163	25.123515	60.878664	24.082055	56.641576	22.233189
487	11	5	4	5	1	71.725716	27.228826	69.033161	26.047278	64.228529	23.967011
488	11	5	4	5	1	71.725716	27.879812	69.033161	26.698799	64.228529	24.610362
489	11	5	4	5	1	71.725716	27.757095	69.033161	26.59936	64.228529	24.546352
490	11	5	4	3	3	91.344085	48.473876	88.802202	46.369416	83.826539	42.663458
491	11	5	4	3	3	91.344085	48.776198	88.802202	46.697608	83.826539	43.010748
492	11	5	4	4	2	79.92531	34.349294	77.19245	32.941852	72.212886	30.3787
493	11	5	4	4	2	79.92531	32.925984	77.19245	31.495232	72.212886	28.976731
494	11	5	4	4	2	79.92531	32.862476	77.19245	31.434849	72.212886	28.921682
495	11	5	4	4	2	79.92531	34.072568	77.19245	32.724176	72.212886	30.291277
496	11	5	4	4	2	79.92531	34.309673	77.19245	32.908804	72.212886	30.402065
497	11	5	4	4	2	79.92531	32.918119	77.19245	31.488237	72.212886	28.971024
498	11	5	4	5	1	71.099864	25.506264	68.430803	24.414538	63.668095	22.487614
499	11	5	4	5	1	71.099864	25.411031	68.430803	24.348781	63.668095	22.465853
500	11	5	4	5	1	71.099864	25.426719	68.430803	24.362401	63.668095	22.476258
501	11	5	4	5	1	69.903746	28.013822	67.279587	26.843498	62.597002	24.768766
502	11	5	4	5	1	69.903746	28.114727	67.279587	26.924028	62.597002	24.818378
503	11	5	4	5	1	69.903746	27.989938	67.279587	26.822907	62.597002	24.753282
504	11	5	4	6	0	61.813596	25.224541	59.365465	24.151902	55.031799	22.258847
505	11	5	4	5	1	67.787021	23.071323	65.242323	22.115542	60.701529	20.418587
506	11	5	4	6	0	58.4167	22.37501	56.103103	21.421128	52.007589	19.738188
507	11	5	5	0	5	0	0	112.68219	47.826087	114.555983	65.405693
508	11	5	5	1	4	108.208094	63.207943	107.02875	60.462217	102.859899	55.627165
509	11	5	5	1	4	108.208094	63.207943	107.02875	60.745122	102.859899	56.112215
510	11	5	5	2	3	99.393743	56.053577	96.627858	53.62061	91.213716	49.33577
511	11	5	5	2	3	99.393743	56.057009	96.627858	53.625991	91.213716	49.343154
512	11	5	5	2	3	99.393743	56.458232	96.627858	54.05996	91.213716	49.800774
513	11	5	5	2	3	99.393743	58.770207	96.627858	56.627459	91.213716	52.5837
514	11	5	5	2	3	99.393743	56.551862	96.627858	54.135871	91.213716	49.854717
515	11	5	5	3	2	88.761397	41.452969	85.726407	39.654383	80.19633	36.487152
516	11	5	5	3	2	88.761397	43.346027	85.726407	41.559825	80.19633	38.371341
517	11	5	5	3	2	88.761397	42.926175	85.726407	41.273067	80.19633	38.268673
518	11	5	5	3	2	87.726019	40.743702	84.726431	38.975828	79.260862	35.862707
519	11	5	5	3	2	87.726019	41.044422	84.726431	39.269671	79.260862	36.141583
520	11	5	5	3	2	87.726019	42.613078	84.726431	40.850256	79.260862	37.706729
521	11	5	5	3	2	87.726019	41.077298	84.726431	39.298287	79.260862	36.164009
522	11	5	5	3	2	87.726019	42.16606	84.726431	40.538497	79.260862	37.582335
523	11	5	5	4	1	77.663941	39.405751	74.748468	37.733627	69.546057	34.777654
524	11	5	5	4	1	77.663941	37.952235	74.748468	36.304667	69.546057	33.404135
525	11	5	5	4	1	77.663941	39.216209	74.748468	37.609231	69.546057	34.750501
526	11	5	5	4	1	77.663941	39.254484	74.748468	37.642306	69.546057	34.775483
527	11	5	5	4	1	77.070971	41.883285	74.177757	40.168919	69.015067	37.118545
528	11	5	5	4	1	77.070971	39.75866	74.177757	38.030372	69.015067	34.988474
529	11	5	5	4	1	77.070971	41.873468	74.177757	40.160474	69.015067	37.112232
530	11	5	5	5	0	67.625757	32.43503	64.947434	31.064637	60.206286	28.64418
531	11	5	5	1	4	108.208094	53.817625	107.02875	51.479501	102.859899	47.362536
532	11	5	5	1	4	108.208094	53.817625	107.02875	51.592029	102.859899	47.555056
533	11	5	5	5	0	66.294643	27.239143	63.669039	26.082914	59.021214	24.041887
534	11	5	5	3	2	87.042474	47.304724	84.066259	45.411274	78.643276	42.00522
535	11	5	5	3	2	87.042474	44.58365	84.066259	42.658553	78.643276	39.264226

536	11	5	5	3	2	87.042474	44.891191	84.066259	42.95111	78.643276	39.531154
537	11	5	5	4	1	74.966507	34.357157	72.152294	32.935096	67.130574	30.409873
538	11	5	5	4	1	74.966507	34.241827	72.152294	32.755111	67.130574	30.137829
539	11	5	5	4	1	74.966507	34.350551	72.152294	32.929419	67.130574	30.338925
540	11	5	5	5	0	65.799032	23.7951	63.193057	22.781957	58.579978	20.994185
541	11	5	5	5	0	65.009218	27.862949	62.434524	26.680901	57.876818	24.594152
542	11	5	5	5	0	62.77573	22.408734	60.289493	21.453443	55.888374	19.76801
543	11	4	3	4	3	62.654087	43.476625	60.910577	41.588831	57.497705	38.264617
544	11	4	3	4	3	61.459471	44.756538	59.749204	42.813245	56.401404	39.391251
545	11	4	3	5	2	55.637079	36.388212	53.734698	34.80898	50.268357	32.028206
546	11	4	3	5	2	55.637079	37.806174	53.734698	36.241055	50.268357	33.450619
547	11	4	3	5	2	55.637079	36.627886	53.734698	35.043164	50.268357	32.25045
548	11	4	3	6	1	48.875908	34.376338	47.041125	32.913042	43.767115	30.327703
549	11	4	4	2	4	73.60373	59.745167	72.801533	57.149736	69.965859	52.579477
550	11	4	4	3	3	67.985285	47.152775	66.093421	45.105587	62.39015	41.500543
551	11	4	4	3	3	67.985285	47.438794	66.093421	45.416074	62.39015	41.829084
552	11	4	4	3	3	67.081437	46.425374	65.214724	44.409723	61.560687	40.860244
553	11	4	4	3	3	67.081437	48.113164	65.214724	46.326113	61.560687	42.978925
554	11	4	4	3	3	67.081437	46.702611	65.214724	44.710671	61.560687	41.178686
555	11	4	4	4	2	60.347679	41.11344	58.28423	39.329556	54.524405	36.188227
556	11	4	4	4	2	60.347679	41.419664	58.28423	39.628777	54.524405	36.472209
557	11	4	4	4	2	60.347679	41.43728	58.28423	39.644198	54.524405	36.484427
558	11	4	4	4	2	59.553632	43.270335	57.517333	41.525588	53.80698	38.393141
559	11	4	4	4	2	59.553632	41.02354	57.517333	39.24199	53.80698	36.105497
560	11	4	4	5	1	52.992055	35.340511	51.002754	33.837077	47.453019	31.180535
561	11	4	4	5	1	52.992055	35.157947	51.002754	33.7109	47.453019	31.138712
562	11	4	4	6	0	46.255613	31.805306	44.423657	30.46076	41.18074	28.086119
563	10	5	2	5	2	78.406573	40.503687	75.798835	38.746561	71.027677	35.652213
564	10	5	2	5	2	77.026079	34.755835	74.464255	33.247586	69.777102	30.591738
565	10	5	2	5	2	75.39644	31.131689	72.888816	29.780444	68.30083	27.401184
566	10	5	2	6	1	67.276879	29.019447	64.791421	27.782288	60.349818	25.597091
567	10	5	2	6	1	67.276879	28.146225	64.791421	26.924006	60.349818	24.77241
568	10	5	2	5	2	75.447993	34.570137	72.938655	33.069932	68.347531	30.428254
569	10	5	2	6	1	64.682927	25.689353	62.293299	24.591665	58.022948	22.653619
570	10	5	2	6	1	64.682927	25.002671	62.293299	23.916806	58.022948	22.005296
571	10	5	2	7	0	57.345823	22.441853	55.096898	21.487086	51.113568	19.802158
572	10	5	3	5	1	72.516441	31.887007	69.837414	30.504106	65.049896	28.069081
573	10	5	3	5	1	72.516441	33.556611	69.837414	32.099803	65.049896	29.535123
574	10	5	3	3	3	91.930866	48.795986	89.517821	46.677877	84.719678	42.947655
575	10	5	3	4	2	80.933396	40.89973	78.241618	39.125461	73.316699	36.000907
576	10	5	3	4	2	80.933396	39.015414	78.241618	37.320346	73.316699	34.336446
577	10	5	3	4	2	80.933396	38.917383	78.241618	37.227139	73.316699	34.251467
578	10	5	3	5	1	71.71275	33.369205	69.063414	31.950843	64.328956	29.444233
579	10	5	3	5	1	71.71275	33.190199	69.063414	31.827108	64.328956	29.403211
580	10	5	3	5	1	70.060891	28.835595	67.472581	27.584728	62.847178	25.382286
581	10	5	3	5	1	70.060891	31.367197	67.472581	30.077031	62.847178	27.783433
582	10	5	3	6	0	61.637563	26.125193	59.22033	25.017732	54.938888	23.062471
583	10	5	3	5	1	68.463133	31.00809	65.93385	29.72418	61.413931	27.444428
584	10	5	3	6	0	56.915	23.056287	54.682971	22.07597	50.729566	20.345824
585	10	5	4	5	0	65.354974	25.34727	62.791956	24.271964	58.252297	22.373651
586	10	5	4	3	2	86.836611	47.073392	83.948497	45.204636	78.664358	41.835659
587	10	5	4	3	2	86.836611	44.125458	83.948497	42.221316	78.664358	38.863393
588	10	5	4	3	2	86.836611	44.457039	83.948497	42.536757	78.664358	39.151223
589	10	5	4	4	1	74.095512	31.250204	71.358149	29.956776	66.466381	27.659962

590	10	5	4	4	1	74.095512	31.38844	71.358149	30.067173	66.466381	27.728049
591	10	5	4	4	1	74.095512	31.217516	71.358149	29.928573	66.466381	27.638724
592	10	5	4	5	0	64.72796	23.210445	62.189531	22.223722	57.693425	20.48224
593	10	5	4	5	0	63.531157	25.560863	61.039663	24.476723	56.626689	22.562766
594	10	5	4	5	0	61.418255	21.218702	59.009622	20.314891	54.743414	18.720123
595	10	5	5	0	4	118.229201	67.567865	117.33297	74.15456	113.256066	68.225381
596	10	5	5	1	3	107.679737	57.463277	104.85331	54.969665	99.233186	50.577651
597	10	5	5	1	3	107.679737	57.931499	104.85331	55.478106	99.233186	51.115878
598	10	5	5	1	3	107.679737	58.42737	104.85331	56.928825	99.233186	53.635007
599	10	5	5	2	2	95.290443	50.960921	92.121161	48.751409	86.322594	44.859809
600	10	5	5	2	2	95.290443	51.47986	92.121161	49.258545	86.322594	45.341206
601	10	5	5	2	2	95.290443	54.159551	92.121161	51.973934	86.322594	48.05082
602	10	5	5	2	2	95.290443	51.509798	92.121161	49.284758	86.322594	45.36198
603	10	5	5	3	1	83.154486	39.633212	80.08245	37.955846	74.592611	34.989196
604	10	5	5	3	1	83.154486	39.464962	80.08245	37.854232	74.592611	34.986778
605	10	5	5	3	1	82.088138	38.920645	79.055497	37.272627	73.636058	34.35814
606	10	5	5	3	1	82.088138	38.677341	79.055497	37.104349	73.636058	34.302297
607	10	5	5	3	1	82.088138	38.758378	79.055497	37.174633	73.636058	34.355809
608	10	5	5	4	0	71.330889	35.878174	68.533514	34.371871	63.578759	31.709314
609	10	5	5	4	0	70.73204	38.28566	67.958149	36.682127	63.044991	33.846883
610	10	5	5	1	3	107.679737	52.401315	104.85331	50.797351	99.233186	47.539936
611	10	5	5	1	3	107.679737	49.553054	104.85331	47.496103	99.233186	43.810065
612	10	5	5	1	3	107.679737	48.925114	104.85331	46.923633	99.233186	43.316427
613	10	5	5	3	1	81.384836	43.701947	78.378178	41.857576	73.00517	38.593896
614	10	5	5	3	1	81.384836	39.743926	78.378178	38.019936	73.00517	34.984429
615	10	5	5	4	0	68.610451	31.374913	65.919763	30.051781	61.153973	27.714267
616	10	4	2	5	2	54.873716	35.443512	53.048662	33.905479	49.709513	31.197158
617	10	4	3	3	3	66.879143	43.81668	65.123668	41.914393	61.633048	38.564474
618	10	4	3	4	2	59.976449	39.526084	57.981681	37.811276	54.332024	34.791494
619	10	4	3	4	2	59.976449	39.837555	57.981681	38.115631	54.332024	35.080356
620	10	4	3	4	2	58.719736	43.237256	56.766766	41.448209	53.193581	38.138505
621	10	4	3	5	1	52.014197	34.572364	50.092599	33.104076	46.658634	30.508845
622	10	4	3	5	1	52.014197	34.380254	50.092599	32.971266	46.658634	30.464805
623	10	4	3	6	0	44.814916	31.292885	43.057415	29.973105	39.944501	27.641537
624	10	4	4	1	4	80.373802	65.986389	79.764528	63.120346	76.992998	58.073027
625	10	4	4	2	3	73.691954	54.315137	71.757653	51.957891	67.911453	47.806226
626	10	4	4	2	3	73.691954	54.318682	71.757653	51.963448	67.911453	47.813853
627	10	4	4	2	3	73.691954	54.733275	71.757653	52.411913	67.911453	48.286804
628	10	4	4	3	2	65.613441	42.868369	63.431192	41.0089	59.438515	37.734211
629	10	4	4	3	2	65.613441	43.234987	63.431192	41.367153	59.438515	38.074243
630	10	4	4	3	2	65.613441	45.109442	63.431192	43.265439	59.438515	39.966778
631	10	4	4	3	2	64.654534	42.207028	62.504178	40.376179	58.569852	37.151923
632	10	4	4	3	2	64.654534	44.328318	62.504178	42.51998	58.569852	39.283355
633	10	4	4	3	2	64.654534	42.562374	62.504178	40.723415	58.569852	37.481496
634	10	4	4	3	2	64.654534	44.377737	62.504178	42.561768	58.569852	39.314145
635	10	4	4	3	2	64.654534	42.582837	62.504178	40.74133	58.569852	37.495691
636	10	4	4	3	2	64.654534	43.755704	62.504178	42.114834	58.569852	39.111441
637	10	4	4	4	1	56.878452	39.291947	54.777151	37.628632	51.022049	34.686959
638	10	4	4	4	1	56.878452	37.707958	54.777151	36.071228	51.022049	33.189702
639	10	4	4	4	1	56.878452	39.08475	54.777151	37.4926	51.022049	34.657248
640	10	4	4	4	1	56.055757	39.374082	53.984849	37.765851	50.284061	34.903231
641	10	4	4	4	1	56.055757	37.3122	53.984849	35.69027	50.284061	32.835563
642	10	4	4	4	1	56.055757	39.322204	53.984849	37.709824	50.284061	34.693622
643	10	4	4	5	0	48.983534	32.171779	47.062552	30.816111	43.660079	28.420887

644	10	4	4	1	4	80.373802	55.552315	79.764528	53.139074	76.992998	48.889585
645	10	3	3	3	3	44.389553	55.844846	43.224395	53.421336	40.907574	49.152879
646	9	5	2	5	1	71.924951	36.456437	69.320195	34.876444	64.656914	32.094031
647	9	5	2	5	1	71.924951	38.526035	69.320195	36.854175	64.656914	33.910681
648	9	5	2	4	2	80.037044	37.552043	77.466494	35.923074	72.738667	33.054363
649	9	5	2	5	1	70.519253	32.766098	67.965405	31.376277	63.393262	28.919177
650	9	5	2	5	1	70.519253	31.538548	67.965405	30.169441	63.393262	27.759129
651	9	5	2	5	1	68.863465	28.020362	66.369581	26.80508	61.904792	24.665224
652	9	5	2	5	1	68.863465	30.147556	66.369581	28.838743	61.904792	26.534607
653	9	5	2	6	0	60.240869	26.149837	57.907004	25.044526	53.770304	23.092371
654	9	5	2	4	2	80.45662	44.631082	77.872594	42.695868	73.119983	39.287452
655	9	5	2	5	1	68.915785	31.115395	66.420006	29.766244	61.951825	27.390556
656	9	5	2	5	1	68.915785	32.29567	66.420006	30.893749	61.951825	28.425649
657	9	5	2	6	0	57.665718	23.145753	55.431619	22.164199	51.471754	20.431316
658	9	5	3	5	0	65.475803	31.371254	62.939125	30.052832	58.442946	27.722663
659	9	5	3	3	2	86.966266	45.981442	84.17317	43.98784	79.036031	40.476512
660	9	5	3	3	2	86.966266	43.980731	84.17317	42.084372	79.036031	38.739461
661	9	5	3	3	2	86.966266	44.347036	84.17317	42.432872	79.036031	39.057489
662	9	5	3	4	1	74.505005	36.812936	71.806813	35.217543	66.976253	32.407994
663	9	5	3	4	1	74.505005	37.373097	71.806813	35.816652	66.976253	33.055856
664	9	5	3	4	1	74.505005	35.120732	71.806813	33.594078	66.976253	30.907059
665	9	5	3	5	0	64.670011	30.075046	62.164551	28.809293	57.723705	26.572597
666	9	5	3	5	0	63.016996	28.435629	60.575577	27.236712	56.248243	25.118589
667	9	5	3	5	0	61.422232	28.032469	59.042598	26.850027	54.824775	24.761121
668	9	5	4	3	1	80.567111	43.119539	77.64938	41.30505	72.425781	38.092553
669	9	5	4	4	0	67.061884	28.252338	64.463757	27.06091	59.858663	24.956067
670	9	5	5	0	3	118.750841	79.332546	115.86341	75.893454	109.998392	69.833753
671	9	5	5	1	2	103.670157	51.720524	100.34058	49.478879	94.216736	45.530311
672	9	5	5	1	2	103.670157	52.315213	100.34058	50.060077	94.216736	46.082062
673	9	5	5	1	2	103.670157	54.339156	100.34058	52.42585	94.216736	48.863887
674	9	5	5	2	1	89.327917	49.13161	86.092915	47.073721	80.301306	43.427235
675	9	5	5	2	1	89.327917	46.926541	86.092915	44.886852	80.301306	41.296809
676	9	5	5	2	1	89.327917	48.844781	86.092915	46.900232	80.301306	43.423097
677	9	5	5	3	0	76.231682	35.73023	73.278296	34.235836	68.043519	31.593113
678	9	5	5	3	0	75.146268	35.086768	72.234934	33.61824	67.074691	31.021482
679	9	5	5	1	2	103.670157	47.178888	100.34058	45.723696	94.216736	42.914112
680	9	5	5	1	2	103.670157	49.404527	100.34058	47.442204	94.216736	43.905034
681	9	5	5	1	2	103.670157	48.622897	100.34058	46.973508	94.216736	43.87159
682	9	5	5	3	0	74.431246	39.405129	71.547614	37.76375	66.436471	34.859666
683	9	4	2	4	2	59.028847	41.969977	57.133017	40.149853	53.646155	36.94428
684	9	4	2	4	2	57.701814	39.931971	55.848604	38.200014	52.440131	35.14982
685	9	4	2	5	1	50.840069	33.445841	48.9989	32.027925	45.702665	29.520919
686	9	4	2	5	1	50.840069	32.167823	48.9989	30.771443	45.702665	28.313101
687	9	4	3	3	2	64.17464	39.437091	62.113543	37.726547	58.322716	34.714087
688	9	4	3	3	2	64.17464	41.498823	62.113543	39.810401	58.322716	36.786282
689	9	4	3	3	2	64.17464	39.781908	62.113543	38.0635	58.322716	35.033906
690	9	4	3	4	1	56.119425	37.507789	54.087065	35.922613	50.448541	33.118297
691	9	4	3	4	1	56.119425	35.907919	54.087065	34.349472	50.448541	31.605718
692	9	4	3	4	1	54.814405	38.954215	52.829307	37.373347	49.275394	34.556188
693	9	4	3	4	1	54.814405	36.723431	52.829307	35.127125	49.275394	32.317509
694	9	4	3	5	0	47.562739	31.161031	45.720052	29.851141	42.453951	27.536115
695	9	4	4	0	4	89.452258	72.450466	89.138315	69.304372	86.501356	63.763114
696	9	4	4	1	3	81.27157	59.389542	79.295452	56.813076	75.281505	52.274628
697	9	4	4	1	3	81.27157	59.945926	79.295452	57.417364	75.281505	52.914471

698	9	4	4	2	2	71.478241	48.886818	69.182573	46.767623	64.96032	43.034917
699	9	4	4	2	2	71.478241	49.417792	69.182573	47.286538	64.96032	43.527518
700	9	4	4	2	2	71.478241	52.171022	69.182573	50.07715	64.96032	46.313257
701	9	4	4	2	2	71.478241	49.448447	69.182573	47.313379	64.96032	43.548792
702	9	4	4	3	1	62.009746	40.867314	59.764069	39.144611	55.743644	36.095576
703	9	4	4	3	1	62.009746	40.618469	59.764069	38.981133	55.743644	36.059833
704	9	4	4	3	1	61.003633	40.200101	58.794392	38.504653	54.839199	35.504135
705	9	4	4	3	1	61.003633	38.36792	58.794392	36.702909	54.839199	33.771476
706	9	4	4	3	1	61.003633	39.911963	58.794392	38.305246	54.839199	35.437895
707	9	4	4	3	1	61.003633	39.959291	58.794392	38.346466	54.839199	35.469553
708	9	4	4	4	0	52.529917	35.422056	50.494791	33.940045	46.887597	31.319328
709	9	4	4	4	0	51.686378	35.63877	49.683933	34.14805	46.134664	31.511857
710	9	4	4	1	3	81.27157	54.069837	79.295452	52.518308	75.281505	49.277016
711	9	4	4	1	3	81.27157	50.726973	79.295452	48.635046	75.281505	44.876697
712	9	4	4	1	3	81.27157	50.136769	79.295452	48.003209	75.281505	44.216771
713	9	3	3	2	3	48.939034	59.219527	47.749082	56.65042	45.332016	52.124947
714	9	3	3	3	2	43.38492	50.263738	41.991526	48.085039	39.428758	44.247437
715	9	3	3	3	2	43.38492	50.825216	41.991526	48.633772	39.428758	44.768355
716	8	5	2	5	0	64.052319	35.956472	61.608814	34.460489	57.273958	31.81328
717	8	5	2	3	2	86.622392	41.856143	83.964176	40.041522	79.041182	36.845379
718	8	5	2	4	1	72.820113	33.382535	70.249336	31.935902	65.636186	29.388297
719	8	5	2	4	1	72.820113	34.994201	70.249336	33.475671	65.636186	30.802109
720	8	5	2	5	0	62.645734	29.170672	60.255888	27.946688	56.016226	25.783008
721	8	5	2	5	0	60.993396	27.500318	58.666584	26.344026	54.538747	24.300521
722	8	5	2	4	1	73.249714	39.676228	70.663771	37.95793	66.023406	34.931561
723	8	5	2	5	0	61.045532	29.900047	58.716731	28.646596	54.585365	26.430583
724	8	5	3	3	1	79.950025	40.876803	77.12754	39.106721	72.062711	35.98908
725	8	5	3	4	0	66.642912	33.224798	64.10058	31.837731	59.590401	29.384265
726	8	5	4	3	0	72.773431	38.406885	69.997227	36.813863	65.072154	33.993899
727	8	5	5	0	2	115.188539	79.431633	111.6537	75.996855	105.107214	69.942967
728	8	5	5	1	1	97.42253	49.700299	93.983211	47.629539	87.811499	43.956758
729	8	5	5	1	1	97.42253	49.37037	93.983211	47.42983	87.811499	43.951989
730	8	5	5	2	0	81.734601	43.774364	78.616542	41.970982	73.085005	38.77605
731	8	5	5	1	1	97.42253	44.053682	93.983211	42.376366	87.811499	39.353326
732	8	5	5	1	1	97.42253	45.04545	93.983211	43.258374	87.811499	40.06085
733	8	4	2	3	2	63.567206	41.9119	61.616494	40.094869	58.003791	36.894476
734	8	4	2	4	1	54.666814	39.723589	52.736905	38.054027	49.273766	35.097473
735	8	4	2	4	1	54.666814	37.721152	52.736905	36.084537	49.273766	33.202994
736	8	4	2	4	1	53.286179	37.054243	51.405011	35.449081	48.029334	32.622108
737	8	4	2	5	0	45.841069	29.776786	44.092297	28.528311	40.98992	26.321136
738	8	4	3	3	1	60.056539	37.180902	57.936356	35.614754	54.131778	32.842438
739	8	4	3	3	1	60.056539	35.420931	57.936356	33.88392	54.131778	31.177808
740	8	4	3	3	1	60.056539	36.903689	57.936356	35.422872	54.131778	32.778677
741	8	4	3	4	0	51.2301	33.399567	49.275744	32.005508	45.808655	29.53961
742	8	4	3	4	0	49.891824	34.843167	47.988522	33.391478	44.612003	30.823083
743	8	4	3	1	3	81.431798	56.653755	79.649032	54.19637	75.914902	49.867416
744	8	4	4	0	3	91.796909	73.616025	89.787222	70.42516	85.577791	64.802554
745	8	4	4	1	2	79.497134	52.794895	77.057574	50.507756	72.539528	46.478557
746	8	4	4	1	2	79.497134	53.493194	77.057574	51.190269	72.539528	47.126567
747	8	4	4	1	2	79.497134	55.887751	77.057574	53.993218	72.539528	50.429606
748	8	4	4	2	1	67.798801	46.769574	65.405292	44.815912	61.110242	41.352424
749	8	4	4	2	1	67.798801	45.187406	65.405292	43.223358	61.110242	39.766433
750	8	4	4	3	0	57.317902	36.396922	55.131305	34.88345	51.252213	32.205117
751	8	4	4	3	0	56.272733	35.801561	54.126008	34.311733	50.317649	31.675479

752	8	4	4	1	2	79.497134	48.082765	77.057574	46.690073	72.539528	43.952979
753	8	4	4	1	2	79.497134	50.701572	77.057574	48.717315	72.539528	45.126519
754	8	4	4	1	2	79.497134	44.607559	77.057574	42.73845	72.539528	39.416636
755	8	3	2	3	2	41.988515	48.950121	40.699997	46.828983	38.313671	43.092482
756	8	3	3	1	3	55.287082	60.211435	54.076696	57.600123	51.541456	52.999744
757	8	3	3	2	2	48.280026	52.643746	46.798438	50.363132	44.054548	46.345438
758	8	3	3	2	2	48.280026	53.338027	46.798438	51.041716	44.054548	46.989715
759	8	3	3	3	1	41.544856	48.190393	40.078193	46.179883	37.446329	42.614815
760	7	5	1	4	1	77.031468	39.955396	74.402419	38.226035	69.670224	35.179851
761	7	5	2	3	1	78.638144	36.628172	75.954259	35.042223	71.123364	32.248844
762	7	5	2	3	1	78.638144	42.913059	75.954259	41.244596	71.123364	38.248602
763	7	5	2	4	0	63.897214	32.18505	61.508431	30.847366	57.265841	28.479981
764	7	5	2	4	0	64.328208	37.765563	61.923312	36.208516	57.652105	33.450256
765	7	5	3	3	0	71.095892	37.572894	68.437987	36.023358	63.717426	33.278496
766	7	5	5	0	1	108.916853	77.529155	105.19957	74.187807	98.508593	68.297616
767	7	5	5	1	0	89.114479	43.603184	85.782954	41.820655	79.866011	38.659778
768	7	5	5	1	0	89.114479	39.750904	85.782954	38.116714	79.866011	35.220806
769	7	4	2	3	1	58.847119	39.363604	56.838693	37.716741	53.223599	34.79797
770	7	4	2	3	1	58.847119	37.131304	56.838693	35.520704	53.223599	32.684827
771	7	4	2	4	0	49.074204	34.831836	47.239576	33.389646	43.981191	30.836144
772	7	4	2	4	0	47.660331	33.032908	45.87856	31.661656	42.714052	29.234508
773	7	4	3	3	0	54.641623	32.597843	52.598858	31.243805	48.970812	28.847306
774	7	4	3	1	2	79.425407	51.177169	77.134284	49.858567	72.850302	47.177352
775	7	4	3	1	2	79.425407	49.785822	77.134284	47.660605	72.850302	43.902094
776	7	4	4	0	2	91.080817	72.961485	88.453479	69.807347	83.540837	64.247697
777	7	4	4	1	1	75.983204	50.547913	73.389931	48.456751	68.722134	44.74304
778	7	4	4	2	0	62.763681	41.025573	60.417275	39.342103	56.249948	36.35821
779	7	4	4	1	1	75.983204	44.525547	73.389931	42.867827	68.722134	39.868327
780	7	3	2	2	2	47.223931	51.341852	45.861699	49.118559	43.314574	45.201419
781	7	3	2	3	1	39.773191	46.547401	38.41575	44.613957	35.972405	41.182827
782	7	3	2	3	1	39.773191	43.457944	38.41575	41.57368	35.972405	38.255704
783	7	3	3	0	3	64.673407	67.079748	63.459513	64.172567	60.790732	59.049586
784	7	3	3	1	2	55.393849	52.689776	53.795946	50.408355	50.808158	46.388688
785	7	3	3	1	2	55.393849	53.486138	53.795946	51.186782	50.808158	47.127859
786	7	3	3	2	1	46.654103	50.031125	45.061819	47.868136	42.195766	44.057346
787	7	3	3	2	1	46.654103	46.788796	45.061819	44.760541	42.195766	41.188876
788	7	3	3	2	1	46.654103	47.295835	45.061819	45.240272	42.195766	41.622233
789	7	3	3	3	0	38.932657	42.275101	37.477168	40.543512	34.892152	37.473667
790	6	5	1	4	0	66.758513	41.406126	64.330811	39.725052	60.012568	36.741657
791	6	5	2	3	0	68.385797	37.308685	65.898918	35.78331	61.475415	33.078466
792	6	5	5	0	0	100.001085	100.00109	96.364502	96.351418	89.89598	89.796912
793	6	4	1	3	1	58.383226	41.124018	56.482118	39.345695	53.045659	36.212748
794	6	4	1	3	1	58.383226	40.350353	56.482118	38.605306	53.045659	35.531042
795	6	4	1	3	1	58.383226	39.083725	56.482118	37.393173	53.045659	34.415004
796	6	4	2	3	0	52.526265	33.82127	50.616125	32.430261	47.218489	29.965411
797	6	4	3	1	1	75.333463	47.017125	72.880411	45.335324	68.446255	42.270917
798	6	4	3	1	1	75.333463	42.765779	72.880411	40.967131	68.446255	37.782375
799	6	4	4	0	1	88.382573	70.163866	85.504609	67.141438	80.302377	61.812966
800	6	4	4	1	0	70.773008	43.460505	68.199317	41.702252	63.621399	38.580591
801	6	4	4	1	0	70.773008	39.548327	68.199317	37.937557	63.621399	35.079999
802	6	3	2	2	1	45.206822	46.32027	43.734771	44.318623	41.073881	40.791795
803	6	3	2	2	1	45.206822	44.781262	43.734771	42.840707	41.073881	39.42326
804	6	3	2	3	0	36.604309	40.011138	35.273177	38.382809	32.905445	35.493831
805	6	3	3	0	2	66.535527	65.486139	64.779929	62.655927	61.450259	57.666892

806	6	3	3	1	1	54.456946	50.081061	52.683688	48.025715	49.478331	44.370367
807	6	3	3	1	1	54.456946	49.414426	52.683688	47.562483	49.478331	44.215437
808	6	3	3	2	0	44.094205	43.323976	42.4907	41.570833	39.638487	38.458333
809	6	2	2	1	2	32.167399	51.181769	31.318634	48.966865	29.708865	45.063831
810	5	4	1	3	0	50.86069	43.248527	49.083794	41.524319	45.916459	38.457883
811	5	4	1	3	0	50.86069	42.226763	49.083794	40.539674	45.916459	37.539998
812	5	4	1	3	0	50.86069	40.575418	49.083794	38.948692	45.916459	36.057499
813	5	4	3	1	0	69.059282	40.945656	66.64659	39.305356	62.345943	36.389778
814	5	4	4	0	0	83.652035	90.538974	80.729523	87.289725	75.520116	81.444023
815	5	3	1	2	1	43.255742	41.875218	41.942302	40.066598	39.553175	36.879575
816	5	3	1	2	1	43.255742	41.006235	41.942302	39.234902	39.553175	36.113663
817	5	3	1	2	1	43.255742	40.250725	41.942302	38.511819	39.553175	35.447784
818	5	3	1	2	1	43.255742	39.364249	41.942302	37.6634	39.553175	34.666502
819	5	3	1	2	1	43.255742	38.595399	41.942302	36.927566	39.553175	33.988909
820	5	3	2	2	0	41.98139	40.694215	40.514706	39.063131	37.900326	36.16411
821	5	3	3	0	1	67.62108	61.579757	65.567798	58.928419	61.83291	54.25375
822	5	3	3	1	0	52.489928	41.883177	50.656112	40.208609	47.387317	37.231445
823	5	2	2	0	2	41.756437	57.001986	40.798923	54.539106	38.939559	50.197288
824	5	2	2	1	1	33.247074	47.992976	32.237542	46.040924	30.401219	42.563695
825	5	2	2	1	1	33.247074	43.526389	32.237542	41.641257	30.401219	38.321078
826	4	3	1	2	0	39.000463	44.88678	37.721668	43.145689	35.434945	40.03954
827	4	3	1	2	0	39.000463	41.964716	37.721668	40.324097	35.434945	37.399791
828	4	3	1	2	0	39.000463	41.81822	37.721668	40.182685	35.434945	37.267572
829	4	3	1	2	0	39.000463	38.844043	37.721668	37.312713	35.434945	34.585794
830	4	3	1	2	0	39.000463	38.705285	37.721668	37.178862	35.434945	34.460795
831	4	3	3	0	0	68.173828	78.575816	65.938462	75.806931	61.94121	70.816046
832	4	2	1	1	1	31.745003	41.913388	30.886043	40.106147	29.307359	36.920584
833	4	2	2	0	1	46.448548	51.753596	45.191738	49.526434	42.881844	45.59929
834	4	2	2	0	1	46.448548	45.926004	45.191738	43.979663	42.881844	40.538143
835	4	2	2	1	0	34.375772	38.552055	33.248618	37.031055	31.233055	34.322772
836	3	2	1	1	0	32.682459	37.71736	31.728141	36.275768	30.01257	33.699702
837	3	2	2	0	0	54.288824	63.82972	52.703606	61.624585	49.85387	57.641859
838	3	1	1	0	1	24.410555	40.674588	23.885183	38.925066	22.899105	35.839864
839	2	1	1	0	0	44.721651	46.012066	43.738637	44.45622	41.952627	41.640189

Table of Criteria Values for PBDs

Dsgn	p	dv	l	c	q	$r_s = 2, n_0 = 1$		$r_s = 2, n_0 = 3$	
						D	G	D	G
1	21	5	5	10	5	56.578485	21.062099	56.210477	19.85855
2	20	5	5	9	5	60.043292	20.245641	59.808988	19.088747
3	20	5	5	10	4	56.341693	20.059283	53.97603	18.913196
4	19	5	4	10	4	55.922241	19.713809	53.619171	18.587466
5	19	5	5	8	5	64.120122	22.813158	64.05483	21.509549
6	19	5	5	8	5	63.6788	24.95232	63.613957	23.526473
7	19	5	5	9	4	59.966099	19.233496	57.496489	18.134592
8	19	5	5	9	4	59.966099	19.244011	57.496489	18.156226
9	19	5	5	10	3	53.182774	19.056341	50.60963	17.967536
10	18	5	4	9	4	59.645931	18.77996	57.242861	17.706973
11	18	5	4	10	3	52.596059	18.676262	50.077023	17.609178
12	18	5	5	7	5	68.875572	24.968119	69.026817	23.541369
13	18	5	5	7	5	68.875572	23.807693	69.026817	22.447253
14	18	5	5	7	5	67.907729	26.577716	68.05685	25.058989
15	18	5	5	8	4	64.267232	21.612648	61.677974	20.377843
16	18	5	5	8	4	64.267232	21.612522	61.677974	20.377583
17	18	5	5	8	4	63.800412	23.639258	61.229962	22.288687
18	18	5	5	8	4	63.800412	23.749825	61.229962	22.517301
19	18	5	5	8	4	63.800412	23.639307	61.229962	22.288787
20	18	5	5	9	3	56.618577	18.221228	53.906886	17.180139
21	18	5	5	9	3	56.618577	18.221355	53.906886	17.180203
22	18	5	5	9	3	56.618577	18.362341	53.906886	17.33433
23	18	5	5	10	2	49.276897	18.053501	46.757602	17.021947
24	17	5	4	8	4	64.101332	20.780694	61.582907	19.593425
25	17	5	4	8	4	62.996702	22.479309	60.521676	21.19501
26	17	5	4	9	3	56.108641	17.73665	53.452057	16.723252
27	17	5	4	9	3	56.108641	17.736777	53.452057	16.723316
28	17	5	4	9	3	56.108641	17.759603	53.452057	16.749774
29	17	5	4	10	2	48.483447	17.638818	46.021937	16.630962
30	17	5	5	6	5	74.607004	34.86327	75.039763	32.871084
31	17	5	5	6	5	73.902677	31.833673	74.33135	30.014606
32	17	5	5	7	4	69.334072	23.581231	66.610063	22.233988
33	17	5	5	7	4	69.334072	23.581072	66.610063	22.233661
34	17	5	5	7	4	69.334072	23.598899	66.610063	22.270351
35	17	5	5	7	4	69.334072	22.485252	66.610063	21.200614
36	17	5	5	7	4	69.334072	22.501316	66.610063	21.233672
37	17	5	5	7	4	68.302905	25.101437	65.619408	23.667359
38	17	5	5	7	4	68.302905	25.101256	65.619408	23.666988
39	17	5	5	7	4	68.302905	25.101495	65.619408	23.667478
40	17	5	5	8	3	60.72184	20.411973	57.846834	19.245741
41	17	5	5	8	3	60.72184	20.587238	57.846834	19.441573
42	17	5	5	8	3	60.72184	20.411866	57.846834	19.245508
43	17	5	5	8	3	60.72184	20.593717	57.846834	19.446408
44	17	5	5	6	5	72.135389	30.854237	72.553811	29.091138
45	17	5	5	8	3	60.254928	22.325999	57.402029	21.050426
46	17	5	5	8	3	60.254928	22.594709	57.402029	21.349984
47	17	5	5	8	3	60.254928	22.32602	57.402029	21.050611
48	17	5	5	9	2	52.418178	17.209058	49.756902	16.225756
49	17	5	5	9	2	52.418178	17.368931	49.756902	16.387741
50	17	5	5	9	2	52.418178	17.342216	49.756902	16.372424
51	17	5	5	10	1	44.986819	17.223739	42.617481	16.246621

52	16	5	3	9	3	55.512541	17.022003	52.918354	16.04944
53	16	5	4	7	4	69.356203	23.076467	66.709494	21.758072
54	16	5	4	7	4	68.695145	21.16259	66.073663	19.953519
55	16	5	4	7	4	67.673919	23.770479	65.091408	22.412443
56	16	5	4	8	3	60.34092	19.558327	57.521095	18.44087
57	16	5	4	8	3	60.34092	19.729322	57.521095	18.631938
58	16	5	4	8	3	59.236701	21.157028	56.468478	19.948244
59	16	5	4	8	3	59.236701	21.413438	56.468478	20.234096
60	16	5	4	8	3	59.236701	21.157048	56.468478	19.948421
61	16	5	4	9	2	51.667189	16.693438	49.064693	15.7396
62	16	5	4	9	2	51.667189	16.853323	49.064693	15.9016
63	16	5	4	10	1	43.966553	16.775767	41.663279	15.824304
64	16	5	5	5	5	79.792391	39.17339	80.580035	36.93491
65	16	5	5	6	4	75.511107	32.812963	72.62952	30.938464
66	16	5	5	6	4	75.511107	32.849324	72.62952	31.01333
67	16	5	5	5	5	79.164546	35.006338	79.945993	33.005976
68	16	5	5	5	5	78.655205	32.250122	79.431624	30.407258
69	16	5	5	5	5	77.972922	36.962237	78.742605	34.850109
70	16	5	5	6	4	74.753915	29.961499	71.901223	28.249852
71	16	5	5	6	4	74.753915	29.961226	71.901223	28.249291
72	16	5	5	6	4	74.753915	30.119414	71.901223	28.5766
73	16	5	5	6	4	74.753915	29.991812	71.901223	28.312258
74	16	5	5	7	3	65.587574	22.194135	62.522565	20.926107
75	16	5	5	7	3	65.587574	22.232337	62.522565	20.970253
76	16	5	5	7	3	65.587574	22.194	62.522565	20.925815
77	16	5	5	7	3	65.587574	22.23565	62.522565	20.97264
78	16	5	5	7	3	65.587574	21.162622	62.522565	19.953519
79	16	5	5	7	3	65.587574	21.197353	62.522565	19.993653
80	16	5	5	7	3	65.587574	21.268718	62.522565	20.119174
81	16	5	5	5	5	76.667201	31.839266	77.423996	30.019879
82	16	5	5	7	3	64.551644	23.624921	61.535046	22.275161
83	16	5	5	7	3	64.551644	23.638942	61.535046	22.29211
84	16	5	5	7	3	64.551644	23.955629	61.535046	22.640084
85	16	5	5	7	3	64.551644	23.64104	61.535046	22.293554
86	16	5	5	7	3	64.551644	23.638484	61.535046	22.29181
87	16	5	5	8	2	56.192027	19.211429	53.361614	18.113729
88	16	5	5	8	2	56.192027	19.419414	53.361614	18.325349
89	16	5	5	8	2	56.192027	19.376357	53.361614	18.298925
90	16	5	5	8	2	56.192027	19.427595	53.361614	18.331868
91	16	5	5	8	2	56.192027	19.382369	53.361614	18.303727
92	16	5	5	6	4	72.855973	29.039652	70.075709	27.380657
93	16	5	5	6	4	72.855973	29.277206	70.075709	27.873892
94	16	5	5	8	2	55.733052	21.331686	52.925757	20.136202
95	16	5	5	8	2	55.733052	21.01282	52.925757	19.812366
96	16	5	5	8	2	55.733052	21.282862	52.925757	20.100376
97	16	5	5	8	2	55.733052	21.025755	52.925757	19.826487
98	16	5	5	9	1	47.767101	16.362843	45.264728	15.434628
99	16	5	5	9	1	47.767101	16.349623	45.264728	15.42832
100	16	5	5	10	0	40.461323	16.216957	38.289801	15.299134
101	15	5	3	8	3	59.865246	18.493419	57.109446	17.436807
102	15	5	3	8	3	58.668648	21.443714	55.967931	20.218566
103	15	5	3	9	2	50.801822	15.958246	48.265939	15.046417
104	15	5	3	9	2	50.801822	15.985084	48.265939	15.074268
105	15	5	4	6	4	74.391442	28.089478	71.647726	26.484777
106	15	5	4	7	3	65.367377	21.634223	62.358295	20.398192

107	15	5	4	7	3	65.367377	21.672945	62.358295	20.44294
108	15	5	4	7	3	64.703014	19.839958	61.724515	18.706424
109	15	5	4	7	3	64.703014	19.872519	61.724515	18.744049
110	15	5	4	7	3	63.677521	22.284862	60.746229	21.011665
111	15	5	4	7	3	63.677521	22.29817	60.746229	21.027751
112	15	5	4	7	3	63.677521	22.284885	60.746229	21.011874
113	15	5	4	8	2	55.528358	18.336087	52.75654	17.288404
114	15	5	4	8	2	55.528358	18.538222	52.75654	17.494074
115	15	5	4	8	2	55.528358	18.496369	52.75654	17.468388
116	15	5	4	6	4	72.047199	27.392221	69.389944	25.827343
117	15	5	4	8	2	54.445129	20.137912	51.727383	19.009485
118	15	5	4	8	2	54.445129	19.834823	51.727383	18.701669
119	15	5	4	8	2	54.445129	20.0915	51.727383	18.975428
120	15	5	4	8	2	54.445129	19.847117	51.727383	18.715091
121	15	5	4	9	1	46.747005	15.815549	44.312933	14.918584
122	15	5	4	9	1	46.747005	15.802375	44.312933	14.912298
123	15	5	4	10	0	39.20517	15.733686	37.110162	14.843515
124	15	5	5	4	5	85.504829	45.000924	86.745035	42.429442
125	15	5	5	4	5	84.913567	45.454545	86.145196	43.511839
126	15	5	5	5	4	81.18708	36.725685	78.192726	34.627779
127	15	5	5	5	4	81.18708	36.725248	78.192726	34.626879
128	15	5	5	5	4	81.18708	36.774282	78.192726	34.727864
129	15	5	5	6	3	71.572847	30.762224	68.278106	29.00481
130	15	5	5	6	3	71.572847	30.761948	68.278106	29.004211
131	15	5	5	5	4	80.505852	32.818947	77.536624	30.944141
132	15	5	5	5	4	80.505852	32.818454	77.536624	30.943127
133	15	5	5	5	4	80.505852	33.2489	77.536624	31.842131
134	15	5	5	4	5	83.611073	42.627773	84.82381	40.1919
135	15	5	5	5	4	79.953469	30.234918	77.004613	28.507686
136	15	5	5	5	4	79.953469	30.2345	77.004613	28.506825
137	15	5	5	5	4	79.953469	30.267848	77.004613	28.575485
138	15	5	5	5	4	79.213902	34.65266	76.292323	32.673135
139	15	5	5	5	4	79.213902	34.652271	76.292323	32.672334
140	15	5	5	5	4	79.213902	34.689039	76.292323	32.707576
141	15	5	5	6	3	70.807556	28.088964	67.548044	26.484237
142	15	5	5	6	3	70.807556	28.466924	67.548044	26.906933
143	15	5	5	6	3	70.807556	28.154274	67.548044	26.559718
144	15	5	5	6	3	70.807556	28.088734	67.548044	26.483737
145	15	5	5	6	3	70.807556	28.480967	67.548044	26.917431
146	15	5	5	6	3	70.807556	28.159941	67.548044	26.563802
147	15	5	5	6	3	70.807556	28.288752	67.548044	26.796609
148	15	5	5	7	2	60.692977	21.072994	57.663356	19.887712
149	15	5	5	7	2	60.692977	21.01384	57.663356	19.85043
150	15	5	5	7	2	60.692977	21.078149	57.663356	19.891793
151	15	5	5	7	2	60.692977	21.021383	57.663356	19.856457
152	15	5	5	7	2	60.692977	21.028452	57.663356	19.862155
153	15	5	5	7	2	60.692977	19.84014	57.663356	18.706527
154	15	5	5	7	2	60.692977	19.88164	57.663356	18.749595
155	15	5	5	7	2	60.692977	20.02793	57.663356	18.917429
156	15	5	5	5	4	77.79976	29.84973	74.930338	28.144496
157	15	5	5	7	2	59.670989	22.527096	56.692383	21.267756
158	15	5	5	7	2	59.670989	22.165556	56.692383	20.901194
159	15	5	5	7	2	59.670989	22.477354	56.692383	21.23178
160	15	5	5	7	2	59.670989	22.165294	56.692383	20.901017
161	15	5	5	8	1	51.126294	18.230191	48.464197	17.197476

162	15	5	5	8	1	51.126294	18.21269	48.464197	17.189123
163	15	5	5	8	1	51.126294	18.216923	48.464197	17.192616
164	15	5	5	6	3	68.891594	27.805486	65.720281	26.316226
165	15	5	5	6	3	68.891594	27.224765	65.720281	25.669677
166	15	5	5	6	3	68.891594	27.937968	65.720281	26.418955
167	15	5	5	8	1	50.680978	20.001321	48.042067	18.878331
168	15	5	5	8	1	50.680978	19.713727	48.042067	18.588672
169	15	5	5	8	1	50.680978	19.995073	48.042067	18.873181
170	15	5	5	9	0	42.830214	15.346259	40.541493	14.477794
171	15	4	4	6	4	53.056593	34.925543	51.099752	32.930434
172	14	5	3	7	3	65.027059	24.449531	62.085569	23.052704
173	14	5	3	7	3	64.397833	19.059395	61.484806	17.970462
174	14	5	3	7	3	63.129586	21.846622	60.273928	20.598474
175	14	5	3	8	2	54.733573	17.260672	52.029793	16.274436
176	14	5	3	8	2	54.733573	17.452604	52.029793	16.469727
177	14	5	3	8	2	53.562245	20.345302	50.916328	19.207115
178	14	5	3	8	2	53.562245	20.014252	50.916328	18.87087
179	14	5	3	9	1	45.581637	15.054957	43.224811	14.201257
180	14	5	4	5	4	80.418026	32.391969	77.569748	30.541586
181	14	5	4	5	4	79.788393	29.649415	76.962416	27.955654
182	14	5	4	5	4	78.825939	32.793166	76.03405	30.919872
183	14	5	4	6	3	70.167403	26.216901	66.99339	24.719125
184	14	5	4	6	3	70.167403	26.569678	66.99339	25.113658
185	14	5	4	6	3	70.167403	26.27786	66.99339	24.789577
186	14	5	4	7	2	60.140589	20.192143	57.169709	19.038427
187	14	5	4	7	2	60.140589	20.238208	57.169709	19.086234
188	14	5	4	7	2	60.140589	20.46047	57.169709	19.31038
189	14	5	4	7	2	60.140589	20.400728	57.169709	19.272723
190	14	5	4	7	2	59.485927	18.517464	56.547387	17.459425
191	14	5	4	7	2	59.485927	18.556198	56.547387	17.499622
192	14	5	4	7	2	59.485927	18.692735	56.547387	17.656267
193	14	5	4	5	4	77.470522	28.567707	74.72664	26.935723
194	14	5	4	7	2	58.476352	21.157096	55.587684	19.974509
195	14	5	4	7	2	58.476352	20.815449	55.587684	19.628113
196	14	5	4	7	2	58.476352	20.813818	55.587684	19.626926
197	14	5	4	8	1	50.140093	17.326041	47.54757	16.344701
198	14	5	4	8	1	50.140093	17.305087	47.54757	16.333273
199	14	5	4	8	1	50.140093	17.309103	47.54757	16.336618
200	14	5	4	6	3	67.801023	26.114929	64.734053	24.716805
201	14	5	4	6	3	67.801023	25.566159	64.734053	24.105815
202	14	5	4	8	1	49.092846	18.798096	46.554471	17.742793
203	14	5	4	8	1	49.092846	18.525945	46.554471	17.468686
204	14	5	4	8	1	49.092846	18.792183	46.554471	17.737919
205	14	5	4	9	0	41.526115	14.767224	39.318097	13.93178
206	14	5	5	3	5	92.566105	42.424242	94.4013	45.035427
207	14	5	5	3	5	91.760536	42.424242	93.57976	42.91799
208	14	5	5	4	4	87.538391	42.001748	84.437921	39.602635
209	14	5	5	4	4	87.538391	42.001135	84.437921	39.601374
210	14	5	5	4	4	87.538391	42.000883	84.437921	39.600855
211	14	5	5	4	4	87.538391	42.069872	84.437921	39.742985
212	14	5	5	4	4	86.889989	43.073258	83.812485	40.612967
213	14	5	5	4	4	86.889989	43.072613	83.812485	40.61164
214	14	5	5	5	3	77.056815	34.277401	73.571161	32.31926
215	14	5	5	5	3	77.056815	34.38168	73.571161	32.439801
216	14	5	5	5	3	77.056815	34.277034	73.571161	32.318464

217	14	5	5	5	3	77.056815	34.905552	73.571161	33.013938
218	14	5	5	5	3	77.056815	34.596869	73.571161	32.819481
219	14	5	5	6	2	66.27783	28.711817	63.003777	27.071387
220	14	5	5	6	2	66.27783	29.26805	63.003777	27.633017
221	14	5	5	5	3	76.364269	30.631093	72.909941	28.881198
222	14	5	5	5	3	76.364269	30.631554	72.909941	28.881429
223	14	5	5	5	3	76.364269	31.694708	72.909941	30.005894
224	14	5	5	5	3	76.364269	30.6307	72.909941	28.880375
225	14	5	5	5	3	76.364269	31.747643	72.909941	30.105764
226	14	5	5	3	5	91.078785	42.424242	92.884493	46.800319
227	14	5	5	4	4	85.462765	39.786717	82.43581	37.514076
228	14	5	5	4	4	85.462765	39.786167	82.43581	37.512944
229	14	5	5	4	4	85.462765	39.786894	82.43581	37.514439
230	14	5	5	5	3	75.803014	28.219321	72.374075	26.607174
231	14	5	5	5	3	75.803014	28.219713	72.374075	26.607369
232	14	5	5	5	3	75.803014	28.28996	72.374075	26.688817
233	14	5	5	5	3	75.803014	28.657848	72.374075	27.086938
234	14	5	5	5	3	75.803014	28.435488	72.374075	26.945277
235	14	5	5	5	3	75.052003	32.342567	71.657036	30.494926
236	14	5	5	5	3	75.052003	32.376457	71.657036	30.527303
237	14	5	5	5	3	75.052003	32.34224	71.657036	30.494217
238	14	5	5	5	3	75.052003	32.610486	71.657036	30.747616
239	14	5	5	6	2	65.518827	26.216707	62.282268	24.718813
240	14	5	5	6	2	65.518827	26.662057	62.282268	25.172167
241	14	5	5	6	2	65.518827	26.294414	62.282268	24.799464
242	14	5	5	6	2	65.518827	26.298231	62.282268	24.802487
243	14	5	5	6	2	65.518827	26.679686	62.282268	25.186229
244	14	5	5	6	2	65.518827	26.301608	62.282268	24.80506
245	14	5	5	6	2	65.518827	26.582337	62.282268	25.125572
246	14	5	5	7	1	55.152802	19.693968	52.301093	18.579865
247	14	5	5	7	1	55.152802	19.469263	52.301093	18.359327
248	14	5	5	7	1	55.152802	19.67738	52.301093	18.573788
249	14	5	5	7	1	55.152802	18.766344	52.301093	17.704212
250	14	5	5	7	1	55.152802	18.751281	52.301093	17.698694
251	14	5	5	5	3	73.617378	27.85981	70.287306	26.268196
252	14	5	5	5	3	73.617378	27.953236	70.287306	26.375285
253	14	5	5	5	3	73.617378	27.960227	70.287306	26.380367
254	14	5	5	7	1	54.158368	21.028683	51.358078	19.850665
255	14	5	5	7	1	54.158368	21.021283	51.358078	19.844565
256	14	5	5	7	1	54.158368	21.027327	51.358078	19.849553
257	14	5	5	8	0	45.707738	17.022877	43.277375	16.061301
258	14	5	5	6	2	63.621191	26.174729	60.478373	24.719433
259	14	5	5	6	2	63.621191	26.080374	60.478373	24.642015
260	14	5	5	6	2	63.621191	26.102816	60.478373	24.667382
261	14	5	5	8	0	45.281313	18.691442	42.873625	17.636815
262	14	4	4	5	4	57.213257	36.393545	55.186855	34.314655
263	14	4	4	6	3	50.43262	32.597259	48.151307	30.735072
264	14	4	4	6	3	50.43262	32.691552	48.151307	30.844065
265	13	5	3	6	3	69.90414	26.431069	66.806501	24.921086
266	13	5	3	7	2	59.421313	22.70341	56.521517	21.406238
267	13	5	3	7	2	59.421313	22.766156	56.521517	21.471359
268	13	5	3	7	2	58.802332	17.698177	55.932743	16.686952
269	13	5	3	7	2	58.802332	17.736283	55.932743	16.726499
270	13	5	3	7	2	57.556152	20.653109	54.747377	19.500014
271	13	5	3	7	2	57.556152	20.302791	54.747377	19.144802

272	13	5	3	7	2	57.556152	20.28628	54.747377	19.127384
273	13	5	3	8	1	48.981549	16.228381	46.469479	15.309284
274	13	5	3	8	1	48.981549	16.208584	46.469479	15.298486
275	13	5	3	6	3	66.872583	27.244023	63.909281	25.687608
276	13	5	3	8	1	47.853619	18.895017	45.399396	17.835839
277	13	5	3	8	1	47.853619	18.599255	45.399396	17.537923
278	13	5	3	9	0	40.045868	13.985442	37.928818	13.194385
279	13	5	4	5	3	75.965304	30.078335	72.59908	28.360044
280	13	5	4	5	3	75.965304	30.078814	72.59908	28.360283
281	13	5	4	5	3	75.965304	30.218294	72.59908	28.492406
282	13	5	4	4	4	85.376247	36.984094	82.496788	34.871541
283	13	5	4	5	3	75.324976	27.531665	71.987126	25.958822
284	13	5	4	5	3	75.324976	27.532066	71.987126	25.959022
285	13	5	4	5	3	75.324976	27.604084	71.987126	26.042526
286	13	5	4	5	3	74.346924	30.450877	71.052414	28.71131
287	13	5	4	5	3	74.346924	30.525567	71.052414	28.782138
288	13	5	4	6	2	64.49487	24.344581	61.347481	22.953652
289	13	5	4	6	2	64.49487	24.758138	61.347481	23.37464
290	13	5	4	6	2	64.49487	24.416741	61.347481	23.028545
291	13	5	4	6	2	64.49487	24.420285	61.347481	23.031352
292	13	5	4	6	2	64.49487	24.67211	61.347481	23.321771
293	13	5	4	7	1	54.211773	19.024976	51.431466	17.949158
294	13	5	4	7	1	54.211773	18.799252	51.431466	17.727612
295	13	5	4	7	1	54.211773	18.997774	51.431466	17.934317
296	13	5	4	7	1	54.211773	19.002987	51.431466	17.938661
297	13	5	4	7	1	53.576523	17.425891	50.828795	16.439626
298	13	5	4	5	3	72.971102	26.527218	69.737558	25.011743
299	13	5	4	5	3	72.971102	26.618442	69.737558	25.116311
300	13	5	4	7	1	52.597938	19.649066	49.900397	18.548472
301	13	5	4	7	1	52.597938	19.329426	49.900397	18.226489
302	13	5	4	7	1	52.597938	19.642108	49.900397	18.542737
303	13	5	4	8	0	44.374879	16.0962	42.028973	15.187163
304	13	5	4	6	2	62.155552	24.459216	59.122324	23.099542
305	13	5	4	6	2	62.155552	24.370488	59.122324	23.026739
306	13	5	4	8	0	43.377558	17.477542	41.084376	16.491495
307	13	5	5	2	5	100.561423	39.393939	103.176061	54.661039
308	13	5	5	3	4	95.520371	44.354136	92.298784	41.820799
309	13	5	5	3	4	95.520371	44.435965	92.298784	41.989433
310	13	5	5	3	4	94.625449	42.268684	91.434044	39.854407
311	13	5	5	3	4	94.625449	42.268015	91.434044	39.853032
312	13	5	5	3	4	94.625449	42.657013	91.434044	40.661687
313	13	5	5	3	4	94.625449	42.342993	91.434044	40.007527
314	13	5	5	4	3	83.232833	39.001756	79.544565	36.773876
315	13	5	5	4	3	83.232833	39.00256	79.544565	36.774278
316	13	5	5	4	3	83.232833	39.147245	79.544565	36.94208
317	13	5	5	4	3	83.232833	39.001243	79.544565	36.772765
318	13	5	5	4	3	83.232833	39.159888	79.544565	36.951198
319	13	5	5	4	3	83.232833	39.172108	79.544565	36.960295
320	13	5	5	4	3	82.569089	39.996736	78.910233	37.712041
321	13	5	5	4	3	82.569089	41.181326	78.910233	39.022656
322	13	5	5	4	3	82.569089	40.04461	78.910233	37.77082
323	13	5	5	6	1	60.192228	27.220718	57.105207	25.688436
324	13	5	5	6	1	60.192228	27.186603	57.105207	25.675927
325	13	5	5	5	2	70.649201	28.443589	67.201478	26.8185
326	13	5	5	5	2	70.649201	29.550607	67.201478	27.86268

327	13	5	5	5	2	70.649201	28.444366	67.201478	26.819052
328	13	5	5	5	2	70.649201	29.71012	67.201478	28.100848
329	13	5	5	5	2	70.649201	29.759704	67.201478	28.140887
330	13	5	5	3	4	93.86855	47.029239	90.702673	44.667736
331	13	5	5	3	4	93.86855	46.180748	90.702673	43.641943
332	13	5	5	4	3	81.109438	36.944927	77.515263	34.834499
333	13	5	5	4	3	81.109438	36.945001	77.515263	34.835161
334	13	5	5	4	3	81.109438	37.268626	77.515263	35.144402
335	13	5	5	4	3	81.109438	36.993475	77.515263	34.889901
336	13	5	5	4	3	81.109438	37.269157	77.515263	35.145673
337	13	5	5	4	3	81.109438	36.985771	77.515263	34.884644
338	13	5	5	5	2	70.090167	26.204021	66.669724	24.706868
339	13	5	5	5	2	70.090167	26.683788	66.669724	25.195308
340	13	5	5	5	2	70.090167	26.702805	66.669724	25.21048
341	13	5	5	5	2	70.090167	26.597816	66.669724	25.145044
342	13	5	5	5	2	70.090167	26.610875	66.669724	25.155589
343	13	5	5	5	2	69.342625	30.032864	65.958663	28.31699
344	13	5	5	5	2	69.342625	30.281283	65.958663	28.551637
345	13	5	5	5	2	69.342625	30.03254	65.958663	28.316419
346	13	5	5	5	2	69.342625	30.133956	65.958663	28.413834
347	13	5	5	6	1	59.450221	24.809921	56.401254	23.411472
348	13	5	5	6	1	59.450221	24.427434	56.401254	23.035976
349	13	5	5	6	1	59.450221	24.763681	56.401254	23.386231
350	13	5	5	6	1	59.450221	24.781578	56.401254	23.401082
351	13	5	5	7	0	49.170303	18.297249	46.570884	17.265578
352	13	5	5	7	0	49.170303	17.434965	46.570884	16.451289
353	13	5	5	5	2	67.91623	26.46958	64.601877	25.001535
354	13	5	5	5	2	67.91623	25.980491	64.601877	24.506025
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356	13	5	5	7	0	48.216206	19.554378	45.667226	18.452846
357	13	5	5	6	1	57.597984	24.309989	54.644011	22.954853
358	13	5	5	6	1	57.597984	24.352634	54.644011	22.985991
359	13	4	3	6	3	49.365367	32.132668	47.177856	30.297053
360	13	4	4	4	4	62.413148	41.714587	60.308158	39.331945
361	13	4	4	4	4	61.754842	41.051349	59.672055	38.706573
362	13	4	4	5	3	54.487162	33.794105	52.072691	31.863608
363	13	4	4	5	3	54.487162	33.903282	52.072691	31.989815
364	13	4	4	6	2	46.771136	30.269371	44.488677	28.539986
365	12	5	2	7	2	57.918249	19.685063	55.13226	18.560337
366	12	5	3	5	3	76.128517	32.625031	72.837052	30.761343
367	12	5	3	5	3	75.368221	30.535889	72.109629	28.791507
368	12	5	3	5	3	74.117643	29.034883	70.91312	27.376222
369	12	5	3	6	2	63.783121	24.398253	60.71502	23.004274
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371	12	5	3	6	2	63.783121	24.476791	60.71502	23.085789
372	12	5	3	7	1	53.048921	21.330508	50.35423	20.127045
373	12	5	3	7	1	53.048921	21.023895	50.35423	19.826057
374	12	5	3	7	1	53.048921	21.293475	50.35423	20.106833
375	12	5	3	7	1	52.450531	16.562867	49.786236	15.625715
376	12	5	3	7	1	52.450531	16.54053	49.786236	15.61353
377	12	5	3	5	3	72.926193	30.549014	69.773183	28.803882
378	12	5	3	7	1	51.247403	19.067663	48.644222	18.000742
379	12	5	3	7	1	51.247403	18.741847	48.644222	17.672516
380	12	5	3	8	0	42.827018	14.987308	40.578243	14.140983
381	12	5	3	6	2	60.791996	25.763085	57.867774	24.336586

382	12	5	3	6	2	60.791996	25.232146	57.867774	23.798461
383	12	5	3	8	0	41.759662	17.465533	39.566932	16.48121
384	12	5	4	5	2	69.795516	27.765062	66.438205	26.178754
385	12	5	4	5	2	69.795516	27.894034	66.438205	26.300744
386	12	5	4	5	2	69.795516	27.765864	66.438205	26.179325
387	12	5	4	5	2	69.795516	28.634787	66.438205	27.057575
388	12	5	4	3	4	94.194718	46.73054	91.204101	44.061649
389	12	5	4	4	3	80.668267	34.139274	77.180524	32.189115
390	12	5	4	4	3	80.668267	34.139342	77.180524	32.189728
391	12	5	4	5	2	69.158392	25.414218	65.831728	23.962201
392	12	5	4	5	2	69.158392	25.90356	65.831728	24.460426
393	12	5	4	5	2	69.158392	25.913231	65.831728	24.468196
394	12	5	4	5	2	69.158392	25.801588	65.831728	24.397725
395	12	5	4	5	2	68.186106	28.108958	64.906212	26.503006
396	12	5	4	5	2	68.186106	28.177674	64.906212	26.56819
397	12	5	4	6	1	57.97286	22.901941	55.028051	21.611039
398	12	5	4	6	1	57.97286	22.548862	55.028051	21.264413
399	12	5	4	6	1	57.97286	22.859257	55.028051	21.587738
400	12	5	4	7	0	47.80251	17.5715	45.29248	16.581288
401	12	5	4	7	0	47.195981	16.093813	44.717799	15.185805
402	12	5	4	5	2	66.820201	25.06912	63.60601	23.679846
403	12	5	4	5	2	66.820201	24.594086	63.60601	23.198547
404	12	5	4	7	0	46.262816	18.163531	43.833633	17.14044
405	12	5	4	6	1	55.698357	22.582304	52.869084	21.323676
406	12	5	4	6	1	55.698357	22.622169	52.869084	21.352785
407	12	5	5	1	5	110.682168	36.363636	114.362504	57.005827
408	12	5	5	2	4	104.763672	53.515983	101.437498	50.459796
409	12	5	5	2	4	104.763672	53.514343	101.437498	50.456424
410	12	5	5	2	4	104.763672	53.64511	101.437498	50.726084
411	12	5	5	3	3	91.101371	40.942437	87.162546	38.603815
412	12	5	5	3	3	91.101371	41.131325	87.162546	38.815648
413	12	5	5	3	3	90.177086	39.01739	86.278223	36.788683
414	12	5	5	3	3	90.177086	39.938104	86.278223	37.82032
415	12	5	5	3	3	90.177086	39.016835	86.278223	36.787479
416	12	5	5	3	3	90.177086	39.972668	86.278223	37.846252
417	12	5	5	3	3	90.177086	39.188896	86.278223	36.981015
418	12	5	5	3	3	90.177086	40.00486	86.278223	37.8707
419	12	5	5	3	3	90.177086	39.202154	86.278223	36.990886
420	12	5	5	3	3	90.177086	39.50179	86.278223	37.548702
421	12	5	5	4	2	77.057255	36.002368	73.35064	33.94554
422	12	5	5	4	2	77.057255	36.173642	73.35064	34.123334
423	12	5	5	4	2	77.057255	37.03194	73.35064	34.985778
424	12	5	5	4	2	77.057255	36.189529	73.35064	34.135698
425	12	5	5	4	2	77.057255	36.840732	73.35064	34.871383
426	12	5	5	4	2	76.391771	38.260381	72.717167	36.174905
427	12	5	5	4	2	76.391771	38.044718	72.717167	36.015612
428	12	5	5	5	1	64.666544	30.120577	61.381721	28.430164
429	12	5	5	5	1	64.666544	30.046786	61.381721	28.389852
430	12	5	5	5	1	64.666544	30.075337	61.381721	28.413567
431	12	5	5	1	5	110.682168	36.363636	114.362504	47.071053
432	12	5	5	6	0	53.540786	25.147259	50.729449	23.7387
433	12	5	5	5	1	63.989	26.256445	60.738593	24.756188
434	12	5	5	5	1	63.989	27.551325	60.738593	26.028644
435	12	5	5	5	1	63.989	27.58685	60.738593	26.058257
436	12	5	5	3	3	89.39592	43.729507	85.530831	41.231756

437	12	5	5	3	3	89.39592	43.927807	85.530831	41.46106
438	12	5	5	4	2	74.929869	35.243435	71.325586	33.315062
439	12	5	5	4	2	74.929869	34.103412	71.325586	32.155625
440	12	5	5	4	2	74.929869	35.066228	71.325586	33.184586
441	12	5	5	4	2	74.929869	35.217249	71.325586	33.294216
442	12	5	5	4	2	74.929869	34.68233	71.325586	32.703093
443	12	5	5	5	1	63.440653	24.687276	60.2181	23.297236
444	12	5	5	5	1	63.440653	24.637684	60.2181	23.270159
445	12	5	5	5	1	63.440653	24.656877	60.2181	23.28609
446	12	5	5	5	1	62.707973	27.723564	59.522637	26.139484
447	12	5	5	5	1	62.707973	28.78511	59.522637	27.178001
448	12	5	5	5	1	62.707973	28.717644	59.522637	27.128438
449	12	5	5	6	0	52.82614	22.918447	50.052328	21.63243
450	12	5	5	5	1	61.311766	24.443446	58.197353	23.097014
451	12	5	5	6	0	51.045466	22.479697	48.365154	21.217856
452	12	4	3	5	3	53.56344	32.973191	51.247591	31.089622
453	12	4	3	6	2	45.413698	29.661432	43.229204	27.966798
454	12	4	3	6	2	45.413698	29.77759	43.229204	28.087368
455	12	4	4	3	4	69.07708	45.159769	66.88393	42.580541
456	12	4	4	3	4	68.284637	42.842229	66.116647	40.395299
457	12	4	4	4	3	59.628655	38.505912	57.050573	36.306411
458	12	4	4	4	3	59.628655	38.506762	57.050573	36.306835
459	12	4	4	4	3	59.628655	38.659584	57.050573	36.484085
460	12	4	4	4	3	58.947607	37.893688	56.39897	35.729144
461	12	4	4	5	2	50.539546	31.19512	48.108488	29.412879
462	12	4	4	5	2	50.539546	31.935644	48.108488	30.167114
463	12	4	4	5	2	50.539546	31.780791	48.108488	30.071801
464	12	4	4	6	1	42.481536	28.608869	40.323629	27.001828
465	11	5	2	6	2	62.425797	24.14137	59.47456	22.762083
466	11	5	2	6	2	60.421642	20.97373	57.565153	19.775398
467	11	5	2	7	1	51.057495	18.346403	48.493527	17.310484
468	11	5	2	7	1	51.057495	18.098739	48.493527	17.067377
469	11	5	3	5	2	69.42246	29.906841	66.140449	28.198217
470	11	5	3	5	2	69.42246	30.662733	66.140449	28.923711
471	11	5	3	4	3	80.8676	34.565793	77.474298	32.591339
472	11	5	3	5	2	68.666453	27.991724	65.420183	26.392494
473	11	5	3	5	2	68.666453	28.641848	65.420183	27.054628
474	11	5	3	5	2	68.666453	28.10459	65.420183	26.509647
475	11	5	3	5	2	67.424439	26.615755	64.236887	25.095123
476	11	5	3	5	2	67.424439	27.171677	64.236887	25.619688
477	11	5	3	6	1	56.722853	22.830492	53.874386	21.545169
478	11	5	3	6	1	56.722853	22.448229	53.874386	21.16986
479	11	5	3	6	1	56.722853	22.784224	53.874386	21.519907
480	11	5	3	7	0	46.154071	19.566469	43.750095	18.467156
481	11	5	3	7	0	45.586417	15.190768	43.212009	14.334036
482	11	5	3	5	2	66.242919	28.839205	63.111224	27.253716
483	11	5	3	5	2	66.242919	28.040761	63.111224	26.443325
484	11	5	3	7	0	44.446877	17.504964	42.131822	16.519703
485	11	5	3	6	1	53.827275	23.743916	51.124217	22.407972
486	11	5	3	6	1	53.827275	23.618928	51.124217	22.316665
487	11	5	4	5	1	62.580113	25.452152	59.43751	23.997858
488	11	5	4	5	1	62.580113	26.330049	59.43751	24.859935
489	11	5	4	5	1	62.580113	26.256466	59.43751	24.804775
490	11	5	4	3	3	89.337459	42.836517	85.588751	40.389845
491	11	5	4	3	3	89.337459	43.044164	85.588751	40.629974

492	11	5	4	4	2	73.950687	32.341986	70.4546	30.572455
493	11	5	4	4	2	73.950687	31.341172	70.4546	29.55636
494	11	5	4	4	2	73.950687	31.294704	70.4546	29.507335
495	11	5	4	4	2	73.950687	32.17919	70.4546	30.452588
496	11	5	4	4	2	73.950687	32.317929	70.4546	30.553303
497	11	5	4	4	2	73.950687	31.336467	70.4546	29.552933
498	11	5	4	5	1	61.957181	23.801799	58.84586	22.462649
499	11	5	4	5	1	61.957181	23.751515	58.84586	22.435191
500	11	5	4	5	1	61.957181	23.761146	58.84586	22.443224
501	11	5	4	5	1	61.007559	25.767412	57.943926	24.295105
502	11	5	4	5	1	61.007559	26.605833	57.943926	25.120686
503	11	5	4	5	1	61.007559	26.530703	57.943926	25.064365
504	11	5	4	6	0	50.846675	21.009013	48.198282	19.83014
505	11	5	4	5	1	59.675576	22.989666	56.678832	21.724548
506	11	5	4	6	0	48.674332	20.737307	46.139087	19.573403
507	11	5	5	0	5	123.964104	33.333333	129.156569	81.106576
508	11	5	5	1	4	116.750642	55.424296	113.317337	52.25938
509	11	5	5	1	4	116.750642	55.575434	113.317337	52.57118
510	11	5	5	2	3	100.326652	49.056565	96.116824	46.254813
511	11	5	5	2	3	100.326652	49.058069	96.116824	46.255564
512	11	5	5	2	3	100.326652	49.329084	96.116824	46.570016
513	11	5	5	2	3	100.326652	50.775636	96.116824	48.141417
514	11	5	5	2	3	100.326652	49.375754	96.116824	46.604234
515	11	5	5	3	2	84.443537	37.531454	80.451391	35.387333
516	11	5	5	3	2	84.443537	38.73311	80.451391	36.606934
517	11	5	5	3	2	84.443537	38.528557	80.451391	36.489087
518	11	5	5	3	2	83.509346	35.766746	79.561365	33.723416
519	11	5	5	3	2	83.509346	35.951226	79.561365	33.914927
520	11	5	5	3	2	83.509346	36.877924	79.561365	34.846302
521	11	5	5	3	2	83.509346	35.968345	79.561365	33.928251
522	11	5	5	3	2	83.509346	36.671157	79.561365	34.722535
523	11	5	5	4	1	69.715633	34.025736	66.214704	32.124244
524	11	5	5	4	1	69.715633	33.183575	66.214704	31.296958
525	11	5	5	4	1	69.715633	33.942719	66.214704	32.084532
526	11	5	5	4	1	69.715633	33.962778	66.214704	32.101131
527	11	5	5	4	1	69.059077	35.084037	65.591119	33.163028
528	11	5	5	4	1	69.059077	33.901066	65.591119	31.969685
529	11	5	5	4	1	69.059077	35.079231	65.591119	33.159079
530	11	5	5	5	0	57.283767	27.637461	54.300092	26.095644
531	11	5	5	1	4	116.750642	45.764863	113.317337	43.151219
532	11	5	5	1	4	116.750642	45.78147	113.317337	43.185384
533	11	5	5	5	0	56.629325	25.345485	53.679738	23.928677
534	11	5	5	3	2	82.720488	41.820627	78.809801	39.56237
535	11	5	5	3	2	82.720488	40.117645	78.809801	37.825338
536	11	5	5	3	2	82.720488	40.318268	78.809801	38.037079
537	11	5	5	4	1	67.618618	32.316682	64.222996	30.541096
538	11	5	5	4	1	67.618618	32.405834	64.222996	30.606287
539	11	5	5	4	1	67.618618	31.819682	64.222996	30.001807
540	11	5	5	5	0	56.100137	22.648092	53.178112	21.379068
541	11	5	5	5	0	55.393705	26.386866	52.508476	24.913195
542	11	5	5	5	0	54.0496	22.58278	51.23438	21.317344
543	11	4	3	4	3	58.985566	36.868834	56.51046	34.76288
544	11	4	3	4	3	58.028602	37.420708	55.593652	35.283243
545	11	4	3	5	2	49.267575	30.226	46.938406	28.499146
546	11	4	3	5	2	49.267575	30.985459	46.938406	29.272751

547	11	4	3	5	2	49.267575	30.357645	46.938406	28.635797
548	11	4	3	6	1	40.780106	27.880635	38.732241	26.31621
549	11	4	4	2	4	76.894246	51.867619	74.633005	48.90567
550	11	4	4	3	3	66.330953	41.39663	63.547626	39.032163
551	11	4	4	3	3	66.330953	41.590521	63.547626	39.256376
552	11	4	4	3	3	65.501272	39.272201	62.752759	37.029025
553	11	4	4	3	3	65.501272	40.292138	62.752759	38.172342
554	11	4	4	3	3	65.501272	39.44666	62.752759	37.230755
555	11	4	4	4	2	55.383818	35.297871	52.765497	33.281321
556	11	4	4	4	2	55.383818	35.477533	52.765497	33.46783
557	11	4	4	4	2	55.383818	35.486377	52.765497	33.474838
558	11	4	4	4	2	54.694106	36.0314	52.108392	34.070025
559	11	4	4	4	2	54.694106	34.787797	52.108392	32.8087
560	11	4	4	5	1	45.826327	29.360826	43.525054	27.714955
561	11	4	4	5	1	45.826327	29.284349	43.525054	27.673167
562	11	4	4	6	0	37.72099	26.249092	35.75626	24.782938
563	10	5	2	5	2	68.24198	32.575308	65.083498	30.714304
564	10	5	2	5	2	67.13443	26.964013	64.02721	25.423515
565	10	5	2	5	2	65.892165	25.733086	62.842441	24.262899
566	10	5	2	6	1	54.75042	22.44051	52.039074	21.178683
567	10	5	2	6	1	54.75042	22.034815	52.039074	20.780333
568	10	5	2	5	2	65.929423	29.629467	62.877975	27.93672
569	10	5	2	6	1	52.82004	19.438654	50.20429	18.343245
570	10	5	2	6	1	52.82004	19.133501	50.20429	18.043664
571	10	5	2	7	0	43.639986	16.689355	41.389092	15.750699
572	10	5	3	5	1	61.537089	27.189099	58.489654	25.635579
573	10	5	3	5	1	61.537089	27.89418	58.489654	26.307679
574	10	5	3	3	3	89.47833	40.160939	85.860751	37.86712
575	10	5	3	4	2	73.509788	32.589474	70.107493	30.815012
576	10	5	3	4	2	73.509788	31.475403	70.107493	29.683591
577	10	5	3	4	2	73.509788	31.423858	70.107493	29.629207
578	10	5	3	5	1	60.800342	26.113302	57.789393	24.648861
579	10	5	3	5	1	60.800342	26.046754	57.789393	24.612501
580	10	5	3	5	1	59.591734	24.196982	56.640637	22.814411
581	10	5	3	5	1	59.591734	25.483718	56.640637	24.063017
582	10	5	3	6	0	48.995141	20.77173	46.468036	19.608048
583	10	5	3	5	1	58.444058	26.224848	55.549796	24.777762
584	10	5	3	6	0	46.25107	21.603482	43.8655	20.394174
585	10	5	4	5	0	54.588243	23.936874	51.772653	22.599965
586	10	5	4	3	2	82.021954	40.749116	78.225686	38.557953
587	10	5	4	3	2	82.021954	38.975784	78.225686	36.748731
588	10	5	4	3	2	82.021954	39.184158	78.225686	36.968661
589	10	5	4	4	1	65.966491	29.411098	62.699704	27.795226
590	10	5	4	4	1	65.966491	29.492324	62.699704	27.854622
591	10	5	4	4	1	65.966491	29.39084	62.699704	27.778487
592	10	5	4	5	0	53.990824	21.656191	51.206048	20.443994
593	10	5	4	5	0	53.081252	24.187597	50.343391	22.837013
594	10	5	4	5	0	51.807833	21.068443	49.135653	19.888476
595	10	5	5	0	4	132.958944	88.016145	129.423685	82.992718
596	10	5	5	1	3	112.535696	50.38601	107.985916	47.508528
597	10	5	5	1	3	112.535696	50.702478	107.985916	47.874626
598	10	5	5	1	3	112.535696	51.362039	107.985916	49.046966
599	10	5	5	2	2	93.186094	44.598254	88.873109	42.05061
600	10	5	5	2	2	93.186094	44.914374	88.873109	42.378846
601	10	5	5	2	2	93.186094	46.483246	88.873109	43.965223

602	10	5	5	2	2	93.186094	44.929968	88.873109	42.391207
603	10	5	5	3	1	76.332591	35.328099	72.552455	33.360156
604	10	5	5	3	1	76.332591	35.253462	72.552455	33.33274
605	10	5	5	3	1	75.404201	33.611011	71.67004	31.736365
606	10	5	5	3	1	75.404201	33.500842	71.67004	31.676115
607	10	5	5	3	1	75.404201	33.543446	71.67004	31.711553
608	10	5	5	4	0	61.472706	30.969679	58.302025	29.251749
609	10	5	5	4	0	60.836188	31.990956	57.698337	30.218142
610	10	5	5	1	3	112.535696	43.69671	107.985916	41.570727
611	10	5	5	1	3	112.535696	41.996814	107.985916	39.675393
612	10	5	5	1	3	112.535696	41.621363	107.985916	39.268995
613	10	5	5	3	1	74.621048	38.384482	70.925671	36.251068
614	10	5	5	3	1	74.621048	35.856091	70.925671	33.807719
615	10	5	5	4	0	59.441815	29.460555	56.375884	27.823935
616	10	4	2	5	2	47.782393	29.024629	45.570853	27.366429
617	10	4	3	3	3	65.025319	36.925311	62.396367	34.816216
618	10	4	3	4	2	54.324469	33.5179	51.810139	31.603059
619	10	4	3	4	2	54.324469	33.69614	51.810139	31.788096
620	10	4	3	4	2	53.355781	35.38962	50.886285	33.470909
621	10	4	3	5	1	44.125157	28.256698	41.939994	26.674522
622	10	4	3	5	1	44.125157	28.178793	41.939994	26.631945
623	10	4	3	6	0	35.636442	25.370998	33.798361	23.955957
624	10	4	4	1	4	87.431334	56.298827	85.106613	53.084233
625	10	4	4	2	3	74.33106	47.152632	71.32588	44.4597
626	10	4	4	2	3	74.33106	47.154161	71.32588	44.460464
627	10	4	4	2	3	74.33106	47.429674	71.32588	44.780159
628	10	4	4	3	2	61.810609	37.634281	58.949794	35.48434
629	10	4	4	3	2	61.810609	37.859136	58.949794	35.717786
630	10	4	4	3	2	61.810609	38.967754	58.949794	36.838073
631	10	4	4	3	2	60.960689	35.702884	58.139211	33.66325
632	10	4	4	3	2	60.960689	36.877296	58.139211	34.860275
633	10	4	4	3	2	60.960689	35.90519	58.139211	33.873278
634	10	4	4	3	2	60.960689	36.900823	58.139211	34.879218
635	10	4	4	3	2	60.960689	35.915155	58.139211	33.881175
636	10	4	4	3	2	60.960689	36.629978	58.139211	34.70773
637	10	4	4	4	1	50.186872	33.155747	47.701522	31.305879
638	10	4	4	4	1	50.186872	32.277699	47.701522	30.443238
639	10	4	4	4	1	50.186872	33.069054	47.701522	31.264396
640	10	4	4	4	1	49.49981	32.767352	47.048484	30.97534
641	10	4	4	4	1	49.49981	31.633308	47.048484	29.831268
642	10	4	4	4	1	49.49981	32.742209	47.048484	30.954553
643	10	4	4	5	0	40.516106	26.719349	38.426339	25.231052
644	10	4	4	1	4	87.431334	46.100337	85.106613	43.467696
645	10	3	3	3	3	43.010653	45.784075	41.271747	43.169261
646	9	5	2	5	1	59.572093	29.319149	56.672638	27.643954
647	9	5	2	5	1	59.572093	30.072918	56.672638	28.36409
648	9	5	2	4	2	71.86737	31.498154	68.628359	29.698719
649	9	5	2	5	1	58.4988	24.941942	55.651584	23.544817
650	9	5	2	5	1	58.4988	24.38743	55.651584	23.000191
651	9	5	2	5	1	57.297298	23.160633	54.508561	21.837284
652	9	5	2	5	1	57.297298	24.410512	54.508561	23.021967
653	9	5	2	6	0	46.345475	20.21407	43.983782	19.083472
654	9	5	2	4	2	72.111878	35.211151	68.861848	33.199659
655	9	5	2	5	1	57.333297	27.074207	54.542808	25.527267
656	9	5	2	5	1	57.333297	26.811269	54.542808	25.286846

657	9	5	2	6	0	44.533468	17.508002	42.264113	16.525915
658	9	5	3	5	0	52.77104	25.721275	50.081912	24.291158
659	9	5	3	3	2	81.389393	37.876874	77.721231	35.84436
660	9	5	3	3	2	81.389393	36.176909	77.721231	34.109786
661	9	5	3	3	2	81.389393	36.37641	77.721231	34.320356
662	9	5	3	4	1	64.703024	29.340802	61.55384	27.735817
663	9	5	3	4	1	64.703024	29.430649	61.55384	27.801546
664	9	5	3	4	1	64.703024	28.330329	61.55384	26.716423
665	9	5	3	5	0	52.069513	23.525823	49.416133	22.214672
666	9	5	3	5	0	50.920731	22.935822	48.325891	21.656741
667	9	5	3	5	0	49.832257	23.660974	47.292884	22.342483
668	9	5	4	3	1	73.079697	37.052598	69.522809	34.997419
669	9	5	4	4	0	57.008044	26.543728	54.103004	25.069194
670	9	5	5	0	3	129.493329	88.27449	124.500785	83.236093
671	9	5	5	1	2	105.003517	45.348991	100.271084	42.758572
672	9	5	5	1	2	105.003517	45.712495	100.271084	43.136044
673	9	5	5	1	2	105.003517	47.028853	100.271084	44.655148
674	9	5	5	2	1	84.212318	42.017331	80.11359	39.696232
675	9	5	5	2	1	84.212318	40.976682	80.11359	38.645557
676	9	5	5	2	1	84.212318	41.900103	80.11359	39.653112
677	9	5	5	3	0	67.044896	31.838958	63.628394	30.080397
678	9	5	5	3	0	66.139478	30.289435	62.769115	28.613638
679	9	5	5	1	2	105.003517	39.327046	100.271084	37.434117
680	9	5	5	1	2	105.003517	40.315844	100.271084	38.143899
681	9	5	5	1	2	105.003517	40.01776	100.271084	38.01249
682	9	5	5	3	0	65.376665	34.597592	62.045174	32.692401
683	9	4	2	4	2	52.77385	34.155811	50.39537	32.20459
684	9	4	2	4	2	51.758454	34.695273	49.425738	32.713243
685	9	4	2	5	1	42.130489	26.905163	40.079941	25.400459
686	9	4	2	5	1	42.130489	26.26105	40.079941	24.767757
687	9	4	3	3	2	59.987955	33.23363	57.284341	31.335076
688	9	4	3	3	2	59.987955	34.365552	57.284341	32.4889
689	9	4	3	3	2	59.987955	33.428434	57.284341	31.537321
690	9	4	3	4	1	48.586548	31.21517	46.221775	29.475517
691	9	4	3	4	1	48.586548	30.351476	46.221775	28.626909
692	9	4	3	4	1	47.624871	31.862776	45.306904	30.12654
693	9	4	3	4	1	47.624871	30.674644	45.306904	28.927634
694	9	4	3	5	0	38.320437	25.458957	36.367688	24.043024
695	9	4	4	0	4	102.26679	82.802915	99.90098	78.077286
696	9	4	4	1	3	85.409203	50.669266	82.116299	47.77581
697	9	4	4	1	3	85.409203	51.025123	82.116299	48.187547
698	9	4	4	2	2	69.599496	42.438754	66.462697	40.014515
699	9	4	4	2	2	69.599496	42.756936	66.462697	40.344906
700	9	4	4	2	2	69.599496	44.339875	66.462697	41.945877
701	9	4	4	2	2	69.599496	42.772638	66.462697	40.357354
702	9	4	4	3	1	56.080685	35.199082	53.351162	33.243754
703	9	4	4	3	1	56.080685	35.090568	53.351162	33.191791
704	9	4	4	3	1	55.224529	33.325592	52.536676	31.471509
705	9	4	4	3	1	55.224529	32.343001	52.536676	30.505962
706	9	4	4	3	1	55.224529	33.205292	52.536676	31.40569
707	9	4	4	3	1	55.224529	33.228306	52.536676	31.424935
708	9	4	4	4	0	44.21258	29.878633	41.959577	28.224827
709	9	4	4	4	0	43.540567	29.582177	41.321809	27.944252
710	9	4	4	1	3	85.409203	43.814966	82.116299	41.726106
711	9	4	4	1	3	85.409203	41.92435	82.116299	39.615499

712	9	4	4	1	3	85.409203	41.563682	82.116299	39.192416
713	9	3	3	2	3	49.320833	49.231709	47.419296	46.420291
714	9	3	3	3	2	40.399558	41.206974	38.578779	38.853075
715	9	3	3	3	2	40.399558	41.506888	38.578779	39.16449
716	8	5	2	5	0	49.9111	27.521696	47.406435	26.000139
717	8	5	2	3	2	80.33838	35.164901	76.839704	33.156122
718	8	5	2	4	1	62.080744	28.268574	59.125261	26.65342
719	8	5	2	4	1	62.080744	28.178051	59.125261	26.577382
720	8	5	2	5	0	48.900607	22.194495	46.446652	20.959465
721	8	5	2	5	0	47.772156	21.884105	45.374828	20.665889
722	8	5	2	4	1	62.318407	32.170328	59.35161	30.332273
723	8	5	2	5	0	47.805924	24.458331	45.406902	23.10107
724	8	5	3	3	1	71.408099	34.027226	68.008568	32.141748
725	8	5	3	4	0	54.772691	26.161273	52.024059	24.712523
726	8	5	4	3	0	62.812381	32.98837	59.660298	31.176782
727	8	5	5	0	2	121.904508	86.572042	116.595658	81.628968
728	8	5	5	1	1	95.107116	42.455146	90.579344	40.120923
729	8	5	5	1	1	95.107116	42.320553	90.579344	40.071377
730	8	5	5	2	0	73.67523	37.416557	69.978021	35.373006
731	8	5	5	1	1	95.107116	35.928751	90.579344	34.039239
732	8	5	5	1	1	95.107116	36.39373	90.579344	34.439097
733	8	4	2	3	2	58.788511	33.808902	56.228316	31.877559
734	8	4	2	4	1	46.377498	31.561714	44.169601	29.808885
735	8	4	2	4	1	46.377498	30.572129	44.169601	28.83634
736	8	4	2	4	1	45.374844	31.789862	43.21468	30.067953
737	8	4	2	5	0	35.741476	23.94349	33.947879	22.613966
738	8	4	3	3	1	53.568349	30.676808	51.018116	28.971739
739	8	4	3	3	1	53.568349	29.741113	51.018116	28.052211
740	8	4	3	3	1	53.568349	30.562144	51.018116	28.908993
741	8	4	3	4	0	41.959662	27.78423	39.85402	26.248653
742	8	4	3	4	0	41.0265	28.417497	38.967687	26.848137
743	8	4	3	1	3	86.442244	45.74451	83.312578	43.640151
744	8	4	4	0	3	101.580495	82.447862	97.902746	77.742306
745	8	4	4	1	2	80.707093	45.041103	77.19236	42.468382
746	8	4	4	1	2	80.707093	45.44489	77.19236	42.887728
747	8	4	4	1	2	80.707093	46.913513	77.19236	44.584181
748	8	4	4	2	1	63.316668	39.59541	60.302346	37.41264
749	8	4	4	2	1	63.316668	39.069692	60.302346	36.847774
750	8	4	4	3	0	49.307888	31.335652	46.833494	29.611322
751	8	4	4	3	0	48.461846	29.665395	46.029909	28.029623
752	8	4	4	1	2	80.707093	38.946645	77.19236	37.112497
753	8	4	4	1	2	80.707093	40.040767	77.19236	37.899059
754	8	4	4	1	2	80.707093	36.970702	77.19236	34.867838
755	8	3	2	3	2	38.804732	39.48355	37.114815	37.228158
756	8	3	3	1	3	58.525936	50.155095	56.406988	47.291218
757	8	3	3	2	2	46.758745	43.763177	44.722436	41.26342
758	8	3	3	2	2	46.758745	44.144279	44.722436	41.659197
759	8	3	3	3	1	36.897298	38.390859	35.140725	36.272133
760	7	5	1	4	1	63.49385	31.861677	60.558086	30.04129
761	7	5	2	3	1	69.05246	30.771231	65.859683	29.013137
762	7	5	2	3	1	69.05246	33.979707	65.859683	32.173069
763	7	5	2	4	0	51.014353	25.425321	48.505263	24.022304
764	7	5	2	4	0	51.237612	28.549764	48.717542	26.981232
765	7	5	3	3	0	59.864218	29.82307	56.919857	28.187518
766	7	5	5	0	1	111.210759	82.75223	106.06871	78.025423

767	7	5	5	1	0	83.064154	37.224948	78.978727	35.204787
768	7	5	5	1	0	83.064154	31.988218	78.978727	30.239283
769	7	4	2	3	1	51.506414	30.891796	49.124914	29.182068
770	7	4	2	3	1	51.506414	29.812356	49.124914	28.120955
771	7	4	2	4	0	38.96176	27.658864	37.045465	26.137372
772	7	4	2	4	0	38.000593	27.920929	36.131572	26.385587
773	7	4	3	3	0	45.939102	26.882227	43.679633	25.401844
774	7	4	3	1	2	81.16442	40.026457	77.788681	38.212542
775	7	4	3	1	2	81.16442	41.353688	77.788681	39.169134
776	7	4	4	0	2	97.602745	80.013813	93.543312	75.445403
777	7	4	4	1	1	73.984451	41.76889	70.563633	39.483659
778	7	4	4	2	0	55.611566	34.712686	52.876366	32.822111
779	7	4	4	1	1	73.984451	35.136684	70.563633	33.30775
780	7	3	2	2	2	45.597553	41.914039	43.701088	39.519996
781	7	3	2	3	1	34.783861	36.346769	33.17556	34.346692
782	7	3	2	3	1	34.783861	34.861613	33.17556	32.886152
783	7	3	3	0	3	72.928961	75.612328	70.509435	71.297151
784	7	3	3	1	2	56.427135	43.887614	54.080253	41.380896
785	7	3	3	1	2	56.427135	44.326198	54.080253	41.836429
786	7	3	3	2	1	43.045152	40.515029	41.054875	38.295435
787	7	3	3	2	1	43.045152	38.678311	41.054875	36.488595
788	7	3	3	2	1	43.045152	39.271599	41.054875	37.039789
789	7	3	3	3	0	32.571297	33.654704	30.969311	31.818995
790	6	5	1	4	0	50.685707	30.507743	48.260345	28.848262
791	6	5	2	3	0	55.899456	29.346035	53.224611	27.746667
792	6	5	5	0	0	97.469748	97.46339	92.805723	92.755027
793	6	4	1	3	1	49.855227	34.138074	47.641301	32.187703
794	6	4	1	3	1	49.855227	33.342038	47.641301	31.437137
795	6	4	1	3	1	49.855227	32.054448	47.641301	30.223097
796	6	4	2	3	0	42.773368	26.524127	40.726619	25.071797
797	6	4	3	1	1	73.402057	35.566706	70.142484	33.748361
798	6	4	3	1	1	73.402057	36.080028	70.142484	34.085514
799	6	4	4	0	1	91.02359	75.314274	86.981496	71.01243
800	6	4	4	1	0	65.26281	35.885037	62.139919	33.950493
801	6	4	4	1	0	65.26281	30.70787	62.139919	29.038058
802	6	3	2	2	1	41.228066	38.220995	39.397247	36.136171
803	6	3	2	2	1	41.228066	36.322608	39.397247	34.268096
804	6	3	2	3	0	29.779831	31.217304	28.354837	29.521227
805	6	3	3	0	2	72.497252	72.261843	69.671698	68.136218
806	6	3	3	1	1	52.864464	40.141403	50.516906	37.957079
807	6	3	3	1	1	52.864464	39.880354	50.516906	37.813709
808	6	3	3	2	0	38.185028	34.805378	36.357836	32.925641
809	6	2	2	1	2	32.92777	41.752288	31.644422	39.367652
810	5	4	1	3	0	39.632834	32.737821	37.81045	30.98301
811	5	4	1	3	0	39.632834	31.862412	37.81045	30.151497
812	5	4	1	3	0	39.632834	30.459348	37.81045	28.819135
813	5	4	3	1	0	63.04522	30.327888	60.146295	28.694322
814	5	4	4	0	0	81.618205	88.280133	77.865263	84.08389
815	5	3	1	2	1	38.81228	36.761955	37.188398	34.661795
816	5	3	1	2	1	38.81228	35.763935	37.188398	33.720776
817	5	3	1	2	1	38.81228	34.906773	37.188398	32.912571
818	5	3	1	2	1	38.81228	33.913285	37.188398	31.975828
819	5	3	1	2	1	38.81228	33.062154	37.188398	31.173311
820	5	3	2	2	0	35.400495	31.929795	33.772721	30.215496
821	5	3	3	0	1	70.485414	66.478177	67.536347	62.681134

822	5	3	3	1	0	47.706152	33.538281	45.512543	31.743479
823	5	2	2	0	2	46.571189	63.288636	44.927264	59.675478
824	5	2	2	1	1	32.153236	37.403311	30.807965	35.380074
825	5	2	2	1	1	32.153236	35.240404	30.807965	33.250465
826	4	3	1	2	0	31.599752	32.773883	30.235565	31.046448
827	4	3	1	2	0	31.599752	30.306459	30.235565	28.698913
828	4	3	1	2	0	31.599752	30.191883	30.235565	28.589945
829	4	3	1	2	0	31.599752	27.880073	30.235565	26.392042
830	4	3	1	2	0	31.599752	27.772879	30.235565	26.290165
831	4	3	3	0	0	66.618722	76.651314	63.742739	73.071385
832	4	2	1	1	1	30.679969	36.797004	29.514901	34.832452
833	4	2	2	0	1	49.298538	56.192084	47.426433	52.982635
834	4	2	2	0	1	49.298538	50.930065	47.426433	48.021913
835	4	2	2	1	0	30.587834	30.009805	29.267333	28.416785
836	3	2	1	1	0	28.25945	27.696671	27.172377	26.252501
837	3	2	2	0	0	53.186638	62.297385	51.140676	59.442894
838	3	1	1	0	1	26.700176	44.417584	25.859139	41.880709
839	2	1	1	0	0	44.038945	44.931169	42.762181	42.914589

Table of Criteria Values for USDs

Dsgn	p	dv	l	c	q	$n_0 = 0$		$n_0 = 1$		$n_0 = 3$	
						D	G	D	G	D	G
1	21	5	5	10	5	12.829481	44.608265	65.455599	1.500042	64.79099	1.700011
2	20	5	5	9	5	11.845861	42.569331	65.714534	1.429342	65.217665	1.620058
3	20	5	5	10	4	66.93537	1.607276	66.10279	1.663748	63.703014	1.655124
4	19	5	4	10	4	65.536064	1.527499	64.789985	1.581209	62.521859	1.573051
5	19	5	5	8	5	10.91296	41.393535	66.4126	1.358187	66.101282	1.539481
6	19	5	5	8	5	78.017958	15.619489	82.222566	47.762001	81.230206	48.116528
7	19	5	5	9	4	67.177221	1.527763	66.412458	1.581503	64.087534	1.57336
8	19	5	5	9	4	73.604331	8.393121	78.885885	34.005003	78.10089	45.861875
9	19	5	5	10	3	67.17734	2.051109	65.539916	1.985	62.387571	1.864767
10	18	5	4	9	4	65.708871	1.447911	65.037886	1.498881	62.854894	1.491201
11	18	5	4	10	3	65.708994	1.944158	64.136262	1.881496	61.09631	1.767532
12	18	5	5	7	5	9.997266	42.344074	67.438232	1.289455	67.338071	1.462221
13	18	5	5	7	5	10.625218	0	67.591331	1.290651	67.490942	1.463859
14	18	5	5	7	5	79.503853	14.79741	84.186456	45.616414	83.403493	47.805106
15	18	5	5	8	4	67.890037	1.447717	67.196778	1.498666	64.941324	1.490974
16	18	5	5	8	4	67.890037	1.935809	67.196778	1.877636	64.941324	1.767064
17	18	5	5	8	4	84.697741	46.737795	83.61613	48.079976	80.635096	45.606462
18	18	5	5	8	4	84.36708	46.947128	83.140405	48.212756	80.047194	47.156469
19	18	5	5	8	4	79.270371	31.634596	80.416883	45.802114	78.812833	47.812972
20	18	5	5	9	3	67.447096	1.951426	65.832763	1.88853	62.7124	1.77414
21	18	5	5	9	3	66.673558	1.660632	65.136885	1.626714	62.123301	1.5525
22	18	5	5	9	3	65.852123	1.644753	64.272047	1.614145	61.220677	1.545455
23	18	5	5	10	2	65.325459	1.958129	63.499932	1.895635	60.127573	1.781759
24	17	5	4	8	4	66.361023	1.367813	65.77047	1.415989	63.669087	1.408755
25	17	5	4	8	4	83.874469	44.695374	82.900539	46.015298	80.068405	43.653688
26	17	5	4	9	3	65.902678	1.843968	64.357723	1.784535	61.357646	1.676445
27	17	5	4	9	3	65.102663	1.569066	63.637645	1.537027	60.747538	1.466915
28	17	5	4	9	3	80.238961	39.449257	79.349455	43.159906	76.673882	42.694696
29	17	5	4	10	2	63.709729	1.850305	61.945555	1.791253	58.683183	1.683648
30	17	5	5	6	5	9.085303	39.991626	68.768086	1.220707	68.912919	1.384942
31	17	5	5	6	5	9.676738	0	68.768198	1.221563	68.913032	1.386116
32	17	5	5	7	4	68.95689	1.370473	68.343236	1.418934	66.159653	1.411859
33	17	5	5	7	4	68.95689	1.833962	68.343236	1.778863	66.159653	1.674117
34	17	5	5	7	4	76.37081	7.61731	82.839863	32.339372	82.523845	45.609188
35	17	5	5	7	4	69.122656	1.400618	68.417024	1.436632	66.159635	1.420473
36	17	5	5	7	4	76.554398	7.583549	83.015443	30.726239	82.696262	42.452708
37	17	5	5	7	4	86.825254	44.500302	85.81706	46.289564	82.885289	45.160912
38	17	5	5	7	4	85.68771	51.119584	84.917118	49.566303	82.197754	46.634694
39	17	5	5	7	4	80.945611	30.041179	82.344418	43.613901	80.903319	47.658467
40	17	5	5	8	3	68.221198	1.843634	66.62189	1.784212	63.516267	1.676141
41	17	5	5	8	3	66.874361	1.477019	65.355436	1.463116	62.370042	1.417774
42	17	5	5	8	3	67.393086	1.856473	65.876515	1.796761	62.884717	1.688078
43	17	5	5	8	3	66.874363	1.828297	65.355438	1.774035	62.370043	1.672288
44	17	5	5	6	5	82.583527	14.039936	87.892676	44.615045	87.345151	48.045539
45	17	5	5	8	3	85.057196	49.794524	83.063193	48.191829	79.191135	45.275596
46	17	5	5	8	3	84.670308	46.614589	82.730471	46.102824	78.930673	44.588168
47	17	5	5	8	3	81.507716	46.505038	80.413105	47.310656	77.537715	45.284235
48	17	5	5	9	2	65.495455	1.857275	63.681833	1.798003	60.32802	1.689996
49	17	5	5	9	2	64.075252	1.580341	62.351556	1.541847	59.143226	1.466893
50	17	5	5	9	2	80.071521	44.646761	78.155158	44.65601	74.461542	43.879871

51	17	5	5	10	1	62.05886	1.868643	60.229573	1.808366	56.882879	1.698771
52	16	5	3	9	3	63.016361	1.737767	61.573956	1.681757	58.75791	1.579892
53	16	5	4	7	4	67.373578	1.290353	66.873627	1.336018	64.858691	1.329388
54	16	5	4	7	4	67.545673	1.318748	66.950344	1.352689	64.858672	1.337503
55	16	5	4	7	4	86.062168	42.412738	85.175139	44.159917	82.408153	43.105825
56	16	5	4	8	3	66.610108	1.736084	65.085444	1.680129	62.108803	1.578362
57	16	5	4	8	3	65.213756	1.390713	63.771656	1.377635	60.918602	1.33496
58	16	5	4	8	3	84.20131	47.530172	82.273984	46.000406	78.511222	43.216844
59	16	5	4	8	3	83.794435	44.454574	81.92387	43.979352	78.236885	42.551508
60	16	5	4	8	3	80.472869	44.348717	79.487828	45.147593	76.77069	43.225207
61	16	5	4	9	2	63.785976	1.748936	62.037944	1.693122	58.801634	1.591416
62	16	5	4	9	2	62.317397	1.488041	60.661915	1.4518	57.575399	1.381231
63	16	5	4	10	1	60.235826	1.759646	58.470763	1.702885	55.240271	1.599683
64	16	5	5	5	5	8.732753	0	70.295665	1.152441	70.728814	1.30833
65	16	5	5	6	4	70.356287	1.293188	69.834203	1.339159	67.730063	1.332699
66	16	5	5	6	4	78.419578	7.273385	85.670934	32.477313	85.657788	43.525214
67	16	5	5	5	5	8.586658	65.521447	70.535416	1.162756	70.970042	1.320603
68	16	5	5	5	5	65.952999	0.66046	70.62718	1.213889	70.436881	1.319159
69	16	5	5	5	5	84.034683	13.207344	89.972567	43.869344	89.727446	47.195485
70	16	5	5	6	4	70.35641	1.321374	69.736307	1.355545	67.557596	1.340476
71	16	5	5	6	4	70.35641	1.726348	69.736307	1.674272	67.557596	1.57564
72	16	5	5	6	4	70.35641	1.314404	69.375973	1.339737	66.895299	1.327506
73	16	5	5	6	4	78.419714	7.23065	85.645258	30.568318	85.629373	44.794343
74	16	5	5	7	3	69.381913	1.740639	67.793805	1.684537	64.693298	1.582504
75	16	5	5	7	3	85.52068	39.632564	84.687096	44.706939	81.976	45.676051
76	16	5	5	7	3	68.487415	1.752799	66.988196	1.696422	64.010054	1.593809
77	16	5	5	7	3	84.334204	40.577231	83.70597	45.835075	81.181986	46.404284
78	16	5	5	7	3	69.102594	1.735714	67.520879	1.67977	64.432854	1.578025
79	16	5	5	7	3	85.630775	37.23861	84.712055	41.035814	81.929462	40.788036
80	16	5	5	7	3	85.698004	36.096827	84.339458	38.301268	81.164559	39.984605
81	16	5	5	5	5	87.979791	15.328867	93.506751	50.566827	93.140101	47.711501
82	16	5	5	7	3	87.352158	48.14843	85.352711	46.653283	81.449145	43.898705
83	16	5	5	7	3	86.545883	48.713222	84.529228	47.157603	80.61761	44.319657
84	16	5	5	7	3	86.196669	48.276548	84.308779	46.73707	80.559366	43.926053
85	16	5	5	7	3	85.559123	49.208568	83.649554	47.660046	79.885391	44.819268
86	16	5	5	7	3	84.841899	49.327163	82.980406	47.787258	79.286047	44.953196
87	16	5	5	8	2	66.172874	1.748617	64.35943	1.692813	61.002016	1.591125
88	16	5	5	8	2	65.368169	1.741913	63.60313	1.686534	60.324814	1.585522
89	16	5	5	8	2	82.584663	40.506925	80.686785	40.905387	76.986983	40.80093
90	16	5	5	8	2	64.649371	1.759124	62.931934	1.702665	59.729911	1.599888
91	16	5	5	8	2	81.596344	39.544886	79.790293	40.239793	76.218515	40.503351
92	16	5	5	6	4	90.78016	44.450395	89.726982	45.789618	86.711189	45.609964
93	16	5	5	6	4	89.629045	51.67572	88.797332	50.075501	85.989192	47.093727
94	16	5	5	8	2	83.615652	47.829675	81.32138	46.30941	77.074847	43.53688
95	16	5	5	8	2	81.670199	48.732394	79.646325	47.193503	75.800257	44.378035
96	16	5	5	8	2	82.385849	47.870363	80.165677	46.583963	76.040184	43.98652
97	16	5	5	8	2	80.902263	47.401915	78.884489	45.993923	75.057491	43.371842
98	16	5	5	9	1	62.031261	1.766344	60.213588	1.709367	56.886805	1.605772
99	16	5	5	9	1	78.694631	44.938384	76.582638	44.215902	72.654466	42.650018
100	16	5	5	10	0	75.31687	42.856697	73.108878	41.589203	69.067965	39.258042
101	15	5	3	8	3	63.548146	1.629706	62.133463	1.57718	59.353948	1.481649
102	15	5	3	8	3	81.595618	45.864078	79.77916	44.388034	76.210258	41.702162
103	15	5	3	9	2	60.67833	1.641786	59.035148	1.589392	55.988857	1.493918
104	15	5	3	9	2	77.642499	41.648562	75.911111	40.787204	72.511508	38.937136
105	15	5	4	6	4	68.726592	1.239277	68.229648	1.271355	66.23378	1.257249

106	15	5	4	7	3	67.71168	1.632697	66.204311	1.580074	63.242688	1.484368
107	15	5	4	7	3	84.633724	37.600233	83.937362	42.498649	81.412842	43.473121
108	15	5	4	7	3	67.420951	1.628075	65.920054	1.575601	62.971147	1.480166
109	15	5	4	7	3	84.749946	35.303516	83.96375	38.964132	81.363543	38.757717
110	15	5	4	7	3	86.568411	45.797188	84.64125	44.37586	80.854844	41.756763
111	15	5	4	7	3	85.716363	46.342324	83.77047	44.86264	79.974645	42.163087
112	15	5	4	7	3	82.485725	41.938138	81.587328	45.176466	78.944279	43.441296
113	15	5	4	8	2	64.376332	1.640184	62.633007	1.587841	59.401062	1.49246
114	15	5	4	8	2	63.541624	1.633892	61.848236	1.581949	58.697932	1.487201
115	15	5	4	8	2	81.538038	38.439907	79.714899	38.838707	76.138712	38.770136
116	15	5	4	6	4	90.196823	42.232455	89.276028	43.542589	86.438501	43.409266
117	15	5	4	8	2	82.624272	45.489609	80.383822	44.044034	76.231406	41.407602
118	15	5	4	8	2	80.575329	46.360833	78.618916	44.897297	74.887466	42.219446
119	15	5	4	8	2	81.328674	45.528867	79.165864	44.308963	75.140332	41.841516
120	15	5	4	8	2	79.767432	45.07694	77.81703	43.739664	74.104979	41.248369
121	15	5	4	9	1	60.087696	1.656821	58.338832	1.603377	55.136525	1.506205
122	15	5	4	9	1	77.447786	42.702397	75.397325	42.025414	71.577009	40.552137
123	15	5	4	10	0	73.907069	43.378553	71.754926	42.278128	67.81444	40.201122
124	15	5	5	4	5	7.624413	61.426356	72.33006	1.092706	73.109643	1.241668
125	15	5	5	4	5	86.994318	12.381885	93.771004	45.222136	93.889046	47.22141
126	15	5	5	5	4	71.976766	1.242067	71.456321	1.274389	69.366065	1.260408
127	15	5	5	5	4	71.976766	1.624051	71.456321	1.575073	69.366065	1.482294
128	15	5	5	5	4	80.808185	6.87807	88.96817	30.58763	89.32209	43.464131
129	15	5	5	6	3	70.913857	1.637543	69.335202	1.584764	66.23352	1.488774
130	15	5	5	6	3	69.939079	1.649022	68.456698	1.595984	65.48764	1.499446
131	15	5	5	5	4	72.238646	1.290524	71.626622	1.30458	69.457649	1.273273
132	15	5	5	5	4	72.238646	1.354634	71.550698	1.353388	69.319614	1.302653
133	15	5	5	5	4	81.102198	6.798461	89.268271	30.236422	89.620855	46.173675
134	15	5	5	4	5	90.423172	25.597153	94.057526	49.118176	93.463514	48.480519
135	15	5	5	5	4	72.102335	1.281157	71.321073	1.294193	69.014218	1.267048
136	15	5	5	5	4	71.925176	1.361701	71.056184	1.351839	68.676425	1.3019
137	15	5	5	5	4	85.217819	17.99792	89.3091	37.621741	88.925707	46.95656
138	15	5	5	5	4	93.071482	42.722232	92.157201	44.54441	89.259413	44.337123
139	15	5	5	5	4	91.813954	49.734006	91.142012	48.297998	88.46938	45.503779
140	15	5	5	5	4	86.013993	27.933547	88.078592	41.689669	87.053912	46.95515
141	15	5	5	6	3	70.417631	1.632348	68.850023	1.579736	65.770046	1.484051
142	15	5	5	6	3	69.164516	1.32234	67.658647	1.307333	64.67472	1.263881
143	15	5	5	6	3	88.516854	37.428013	87.695714	41.984646	84.979935	44.172997
144	15	5	5	6	3	69.793642	1.643396	68.286127	1.590517	65.289579	1.494285
145	15	5	5	6	3	69.164552	1.618457	67.658675	1.570321	64.674739	1.480192
146	15	5	5	6	3	87.32526	40.82895	86.691101	43.547187	84.152983	44.000177
147	15	5	5	6	3	88.590984	37.94154	87.284339	40.734677	84.133925	42.877077
148	15	5	5	7	2	65.587712	1.398579	63.870322	1.364546	60.662199	1.298261
149	15	5	5	7	2	85.162186	43.216832	83.258012	43.905555	79.522874	43.628919
150	15	5	5	7	2	65.587744	1.654435	63.870348	1.601336	60.662216	1.504677
151	15	5	5	7	2	84.075512	42.052579	82.271648	43.08955	78.676458	43.817225
152	15	5	5	7	2	84.433593	44.937215	82.507008	43.501989	78.755719	40.883872
153	15	5	5	7	2	66.948994	1.639832	65.136	1.5875	61.774898	1.492138
154	15	5	5	7	2	85.666286	42.662756	83.755972	41.621173	80.005045	39.422259
155	15	5	5	7	2	85.122677	38.0716	83.199534	38.506382	79.441548	38.518381
156	15	5	5	5	4	97.030915	46.216374	96.052629	48.706209	93.010473	49.754187
157	15	5	5	7	2	85.926296	45.260753	83.596308	43.822341	79.277943	41.199015
158	15	5	5	7	2	84.796336	46.41468	82.533392	44.92003	78.324811	42.201449
159	15	5	5	7	2	83.753361	46.191217	81.558722	44.719114	77.459802	42.03493
160	15	5	5	7	2	83.217505	49.000939	81.015176	47.429449	76.911524	44.568415

161	15	5	5	8	1	62.489061	1.656516	60.670305	1.603081	57.340019	1.505928
162	15	5	5	8	1	80.542935	42.242607	78.410529	41.565327	74.437537	40.096241
163	15	5	5	8	1	79.701623	40.502886	77.614288	40.17815	73.715269	39.262048
164	15	5	5	6	3	91.124376	48.606605	89.0484	47.045177	85.003949	44.202287
165	15	5	5	6	3	87.264507	42.588858	86.206088	45.013028	83.315145	44.933567
166	15	5	5	6	3	89.791408	48.446294	87.834326	46.965821	83.957945	44.22122
167	15	5	5	8	1	80.105028	45.979061	77.773556	44.497166	73.504447	41.802494
168	15	5	5	8	1	78.911182	45.987153	76.660664	44.505515	72.527725	41.811109
169	15	5	5	8	1	78.281677	45.829249	76.146421	44.717529	72.193756	42.574976
170	15	5	5	9	0	76.259175	44.727259	74.03854	43.593413	69.972647	41.46647
171	15	4	4	6	4	48.091463	1.212832	47.815309	1.25598	46.47342	1.249952
172	14	5	3	7	3	64.45778	1.525849	63.069127	1.47667	60.319899	1.387227
173	14	5	3	7	3	64.161299	1.521523	62.779033	1.472484	60.042451	1.383294
174	14	5	3	7	3	83.867237	44.373875	82.060422	42.998791	78.483336	40.463577
175	14	5	3	8	2	61.062001	1.532855	59.431077	1.483938	56.402777	1.394799
176	14	5	3	8	2	60.214108	1.526967	58.633594	1.478424	55.687753	1.389878
177	14	5	3	8	2	79.77999	44.064571	77.646051	42.665082	73.684944	40.112401
178	14	5	3	8	2	77.662157	44.589674	75.820926	43.18299	72.29399	40.608656
179	14	5	3	9	1	56.71419	1.548424	55.076307	1.498476	52.075639	1.407662
180	14	5	4	5	4	70.580166	1.204984	70.103675	1.218131	68.135265	1.188918
181	14	5	4	5	4	70.437481	1.196234	69.78331	1.208428	67.669313	1.183103
182	14	5	4	5	4	92.59557	40.423812	91.836175	42.192985	89.142928	42.033869
183	14	5	4	6	3	68.675602	1.524317	67.196082	1.475187	64.266957	1.385834
184	14	5	4	6	3	67.367029	1.234703	65.951045	1.220702	63.1209	1.180145
185	14	5	4	6	3	87.749181	35.354016	87.081025	39.734395	84.571717	41.875825
186	14	5	4	7	2	65.358241	1.53569	63.612568	1.486683	60.371201	1.397381
187	14	5	4	7	2	85.116509	45.833411	83.279334	44.981868	79.644715	43.068491
188	14	5	4	7	2	63.641342	1.305922	62.002619	1.274148	58.934538	1.212261
189	14	5	4	7	2	84.190946	40.89833	82.368341	41.578987	78.766571	41.352039
190	14	5	4	7	2	65.057619	1.531309	63.319974	1.48244	60.093517	1.393391
191	14	5	4	7	2	84.725006	40.366761	82.896281	39.385628	79.27838	37.309107
192	14	5	4	7	2	84.149099	35.969398	82.306357	36.400326	78.680268	36.441985
193	14	5	4	5	4	96.822457	47.972501	96.001508	51.06663	93.162624	52.734057
194	14	5	4	7	2	85.000558	42.860873	82.726979	41.499031	78.506669	39.015235
195	14	5	4	7	2	83.803494	43.970002	81.600498	42.554113	77.495828	39.978773
196	14	5	4	7	2	81.855556	44.692893	79.89994	43.509044	76.162713	41.227254
197	14	5	4	8	1	60.425399	1.546897	58.680339	1.496999	55.483315	1.406274
198	14	5	4	8	1	79.454246	39.875205	77.368694	39.318461	73.481546	38.067466
199	14	5	4	8	1	79.307834	39.963804	77.24099	39.332048	73.382391	37.956044
200	14	5	4	6	3	90.521613	46.07911	88.520961	44.598972	84.597322	41.904028
201	14	5	4	6	3	86.419693	42.299249	85.497151	44.624407	82.797831	42.608367
202	14	5	4	8	1	78.845933	43.551197	76.568895	42.147571	72.397267	39.595216
203	14	5	4	8	1	77.58759	43.558977	75.395582	42.155596	71.367033	39.603497
204	14	5	4	8	1	76.924623	43.407196	74.85383	42.359414	71.014994	40.337981
205	14	5	4	9	0	74.797203	42.348371	72.635937	41.279085	68.676687	39.272245
206	14	5	5	3	5	68.881817	0.775874	71.875927	1.074416	71.666344	1.160537
207	14	5	5	3	5	65.55456	0.258366	77.348994	1.102206	78.354854	1.214936
208	14	5	5	4	4	74.162368	1.20781	73.661693	1.221115	71.59338	1.191944
209	14	5	5	4	4	74.162368	1.525199	73.661693	1.477943	71.59338	1.38995
210	14	5	5	4	4	74.162368	1.267985	73.578038	1.266937	71.440948	1.219533
211	14	5	5	4	4	83.953118	6.438488	93.259813	30.233204	94.073701	47.8954
212	14	5	5	4	4	97.295135	43.866919	96.497198	46.095213	93.667258	44.797795
213	14	5	5	4	4	95.887321	50.885987	95.358722	49.250388	92.779275	46.270134
214	14	5	5	5	3	72.161141	1.528842	70.606529	1.479566	67.528741	1.389948
215	14	5	5	5	3	92.202774	37.959802	91.500706	42.710873	88.864041	42.252533

216	14	5	5	5	3	71.476245	1.539226	69.987123	1.489699	67.000328	1.399568
217	14	5	5	5	3	70.786193	1.515787	69.298333	1.470717	66.324538	1.386321
218	14	5	5	5	3	92.285509	36.540347	91.0409	39.367555	87.91651	40.614039
219	14	5	5	6	2	68.675412	1.540283	66.841139	1.491131	63.435261	1.401564
220	14	5	5	6	2	66.871409	1.549601	65.149508	1.499868	61.925701	1.409335
221	14	5	5	5	3	71.950978	1.527869	70.400894	1.478625	67.332069	1.389064
222	14	5	5	5	3	71.620102	1.328538	70.100942	1.295058	67.07538	1.228383
223	14	5	5	5	3	92.450807	41.785441	91.657276	46.308027	88.938388	46.422033
224	14	5	5	5	3	70.778063	1.301711	69.24782	1.274789	66.222329	1.216989
225	14	5	5	5	3	92.204887	39.760341	91.382881	43.525915	88.645137	46.458677
226	14	5	5	3	5	94.84987	23.952011	99.160237	48.854455	98.926736	50.761703
227	14	5	5	4	4	97.392944	48.368982	96.270143	47.661191	93.152641	45.444579
228	14	5	5	4	4	93.882422	54.706838	93.364875	52.942759	90.839362	49.734624
229	14	5	5	4	4	90.035986	36.10187	91.681824	46.711336	90.558971	46.709417
230	14	5	5	5	3	70.760392	1.597939	69.235958	1.546439	66.217914	1.452773
231	14	5	5	5	3	71.216684	1.321181	69.65175	1.289416	66.576207	1.225342
232	14	5	5	5	3	92.327832	46.705315	91.301204	48.952523	88.380325	47.250002
233	14	5	5	5	3	70.126604	1.300199	68.558696	1.273512	65.496391	1.216542
234	14	5	5	5	3	91.993789	39.16174	90.599041	41.954744	87.331736	44.115668
235	14	5	5	5	3	93.61707	46.573055	91.600208	45.132756	87.607273	42.475417
236	14	5	5	5	3	89.431597	42.247903	88.500382	45.671163	85.727977	44.293544
237	14	5	5	5	3	92.692099	46.693003	90.759607	45.222467	86.88462	42.525476
238	14	5	5	5	3	90.311197	50.403224	88.84988	48.973008	85.547455	46.213466
239	14	5	5	6	2	68.160653	1.535359	66.340129	1.486363	62.95978	1.397079
240	14	5	5	6	2	67.21419	1.529452	65.449936	1.480831	62.161631	1.392143
241	14	5	5	6	2	88.76611	46.100018	86.850161	45.032094	83.059698	42.709259
242	14	5	5	6	2	88.761455	45.016156	86.883395	44.097748	83.139417	41.782777
243	14	5	5	6	2	66.66724	1.54414	64.938192	1.494583	61.706578	1.404373
244	14	5	5	6	2	87.916017	44.262634	86.073809	43.724236	82.387275	42.220535
245	14	5	5	6	2	87.031439	39.818871	85.200307	40.735801	81.541837	41.365547
246	14	5	5	7	1	63.307492	1.55103	61.479198	1.500999	58.129687	1.410032
247	14	5	5	7	1	84.467894	46.814695	82.203963	45.429905	78.003333	42.867024
248	14	5	5	7	1	82.160987	43.419365	80.044977	43.232142	76.083492	42.507917
249	14	5	5	7	1	63.016302	1.546561	61.196417	1.496674	57.862313	1.405969
250	14	5	5	7	1	82.148831	38.527231	80.017813	38.152627	76.035108	37.186955
251	14	5	5	5	3	97.490902	52.87922	95.385103	51.941019	91.220187	49.790741
252	14	5	5	5	3	97.197457	53.210011	95.030598	52.458842	90.794122	50.555266
253	14	5	5	5	3	95.462186	46.475081	93.443649	45.148988	89.418614	42.628564
254	14	5	5	7	1	82.226791	43.326475	79.852115	41.930085	75.501611	39.39089
255	14	5	5	7	1	80.223097	44.022888	78.06351	42.857417	74.060067	40.651815
256	14	5	5	7	1	80.248821	47.509436	77.981803	46.013683	73.815349	43.283773
257	14	5	5	8	0	78.004455	41.864199	75.750516	40.803761	71.621496	38.814325
258	14	5	5	6	2	89.054462	45.443545	86.67245	44.000969	82.250863	41.369431
259	14	5	5	6	2	87.361601	49.898754	85.256985	49.013015	81.245071	47.06919
260	14	5	5	6	2	87.213702	45.71508	84.94289	44.370041	80.702607	41.872437
261	14	5	5	8	0	75.657285	44.981937	73.397606	43.599888	69.273603	41.075232
262	14	4	4	5	4	49.511443	1.159721	49.243165	1.189928	47.914928	1.1769
263	14	4	4	6	3	48.728477	1.52917	47.67869	1.479884	45.600342	1.390247
264	14	4	4	6	3	61.884615	38.14968	61.483055	43.170796	59.770264	41.187144
265	13	5	3	6	3	65.19904	1.417294	63.848473	1.371613	61.149653	1.288534
266	13	5	3	7	2	61.813748	1.427882	60.18921	1.382316	57.167211	1.299284
267	13	5	3	7	2	82.15285	42.620506	80.447495	41.829501	77.042451	40.051333
268	13	5	3	7	2	61.507612	1.423803	59.89112	1.378366	56.884088	1.295569
269	13	5	3	7	2	81.745984	37.530659	80.049074	36.664171	76.660894	34.731864
270	13	5	3	7	2	82.032334	41.321242	79.873026	40.009084	75.857562	37.615621

271	13	5	3	7	2	80.788882	42.432516	78.702359	41.06623	74.80622	38.581076
272	13	5	3	7	2	79.689615	44.209921	77.852975	42.879633	74.31657	40.410823
273	13	5	3	8	1	56.804488	1.438316	55.178788	1.39192	52.198621	1.307564
274	13	5	3	8	1	76.282725	37.103963	74.315802	36.588352	70.641635	35.428124
275	13	5	3	6	3	87.784516	44.551789	85.913329	43.120962	82.213872	40.515648
276	13	5	3	8	1	75.653953	42.012642	73.488796	40.658649	69.519719	38.196537
277	13	5	3	8	1	74.354478	41.689598	72.276775	40.346496	68.45492	37.904002
278	13	5	3	9	0	71.478696	39.426207	69.431844	38.431433	65.679925	36.564263
279	13	5	4	5	3	70.152081	1.419475	68.698914	1.373725	65.79507	1.290518
280	13	5	4	5	3	69.804724	1.234202	68.383749	1.203103	65.524986	1.141167
281	13	5	4	5	3	91.894494	39.36171	91.275278	43.713713	88.788788	43.870197
282	13	5	4	4	4	97.195471	45.667399	96.231708	45.012891	93.32772	42.930453
283	13	5	4	5	3	68.902768	1.48461	67.47548	1.436762	64.62335	1.349739
284	13	5	4	5	3	69.381378	1.227364	67.911971	1.197859	64.999991	1.13834
285	13	5	4	5	3	91.762863	44.071228	90.893471	46.253879	88.188953	44.666772
286	13	5	4	5	3	93.143515	43.944413	91.214077	42.586353	87.358519	40.080133
287	13	5	4	5	3	88.666702	39.803717	87.894248	43.102694	85.342085	41.824722
288	13	5	4	6	2	66.180444	1.426438	64.441145	1.380917	61.205664	1.297968
289	13	5	4	6	2	65.191319	1.420947	63.5104	1.375775	60.370476	1.29338
290	13	5	4	6	2	87.956358	43.490945	86.130532	42.489839	82.484945	40.304381
291	13	5	4	6	2	87.95139	42.452483	86.166026	41.594323	82.570206	39.416145
292	13	5	4	6	2	87.312664	38.088257	85.470623	38.793483	81.814967	39.218721
293	13	5	4	7	1	61.120016	1.441005	59.370809	1.394522	56.164234	1.310008
294	13	5	4	7	1	83.378408	44.176114	81.178776	42.871298	77.090216	40.455697
295	13	5	4	7	1	82.078047	42.877663	79.961693	42.405677	76.008394	40.949524
296	13	5	4	7	1	81.915176	42.210619	79.819565	40.975806	75.897946	38.609313
297	13	5	4	7	1	60.817316	1.43685	59.076772	1.390502	55.886077	1.306231
298	13	5	4	5	3	97.300754	54.33045	95.279306	52.638416	91.244379	49.52441
299	13	5	4	5	3	96.985389	56.155709	94.89801	54.346156	90.785501	51.05492
300	13	5	4	7	1	80.998494	40.83513	78.68038	39.519052	74.430909	37.125893
301	13	5	4	7	1	79.607218	43.506987	77.382737	42.105413	73.290889	39.556563
302	13	5	4	7	1	78.87491	41.501503	76.784101	40.406464	72.901623	38.332719
303	13	5	4	8	0	76.528277	39.436975	74.336826	38.442005	70.319855	36.57445
304	13	5	4	6	2	88.264096	42.861877	85.940752	41.501601	81.620245	39.020064
305	13	5	4	6	2	86.458524	49.541135	84.430227	47.943046	80.545896	45.037423
306	13	5	4	8	0	74.051288	42.419709	71.853212	41.117398	67.84047	38.73823
307	13	5	5	2	5	71.019605	0.722641	74.518837	0.998486	74.637355	1.078012
308	13	5	5	3	4	71.902626	1.123095	71.346197	1.138018	69.338494	1.117916
309	13	5	5	3	4	91.607516	26.697503	94.348939	41.252379	93.870334	44.937369
310	13	5	5	3	4	79.553397	1.194344	79.087622	1.197965	76.994449	1.159699
311	13	5	5	3	4	78.884367	1.437074	78.489963	1.393336	76.47024	1.311034
312	13	5	5	3	4	79.457649	1.144643	78.64378	1.16034	76.24569	1.140919
313	13	5	5	3	4	92.060723	8.341201	101.870217	34.169782	103.145536	51.221866
314	13	5	5	4	3	73.99381	1.423701	72.461063	1.377815	69.398196	1.29436
315	13	5	5	4	3	73.62743	1.237395	72.128639	1.206239	69.113322	1.144171
316	13	5	5	4	3	96.926899	42.892007	96.273774	47.053461	93.651117	45.114873
317	13	5	5	4	3	73.627491	1.434432	72.128686	1.388419	69.11335	1.304592
318	13	5	5	4	3	95.546798	39.55407	95.088349	44.466556	92.657761	44.758117
319	13	5	5	4	3	96.649269	38.246236	95.963424	42.066618	93.318616	45.152146
320	13	5	5	4	3	98.244321	47.252569	96.209222	45.732508	92.142522	42.966122
321	13	5	5	4	3	97.19936	48.530525	95.258746	47.006548	91.324252	44.208596
322	13	5	5	4	3	95.459126	45.515874	93.591824	44.062874	89.774083	41.410853
323	13	5	5	6	1	64.467123	1.44536	62.622125	1.398737	59.239948	1.313967
324	13	5	5	6	1	85.360575	41.904414	83.20502	41.771187	79.158736	41.149295
325	13	5	5	5	2	69.585761	1.429788	67.756966	1.384162	64.355003	1.30102

326	13	5	5	5	2	92.482155	48.975899	90.562381	47.474009	86.729211	44.694975
327	13	5	5	5	2	68.253406	1.237002	66.504396	1.203723	63.232651	1.140642
328	13	5	5	5	2	92.908788	45.557165	90.990725	45.404392	87.152915	44.417681
329	13	5	5	5	2	91.835882	44.342473	89.874009	44.847236	85.998373	44.883032
330	13	5	5	3	4	103.122403	48.864819	102.051102	49.11306	98.924784	47.668095
331	13	5	5	3	4	94.731782	35.396193	96.841483	48.052889	96.025297	49.148348
332	13	5	5	4	3	96.033914	51.22892	94.044603	49.7029	90.0694	46.850029
333	13	5	5	4	3	93.305719	46.354751	92.246119	45.866731	89.332121	44.096984
334	13	5	5	4	3	95.011717	54.055957	93.114601	53.093375	89.268444	50.726502
335	13	5	5	4	3	94.107651	50.829816	92.189191	49.193559	88.331753	46.216365
336	13	5	5	4	3	96.315584	50.131028	94.154591	49.111054	89.957593	46.94807
337	13	5	5	4	3	94.687197	48.883857	92.783382	47.594712	88.93441	45.068922
338	13	5	5	5	2	68.346534	1.495894	66.550307	1.448182	63.208928	1.361231
339	13	5	5	5	2	67.325035	1.489856	65.589099	1.442528	62.346405	1.356185
340	13	5	5	5	2	66.735657	1.507036	65.037388	1.458602	61.855387	1.370466
341	13	5	5	5	2	88.716624	39.605145	86.927068	40.548765	83.31377	41.223812
342	13	5	5	5	2	90.954809	43.011318	88.941331	43.195936	85.013188	42.833554
343	13	5	5	5	2	92.346796	43.375233	89.915984	41.998936	85.39563	39.488071
344	13	5	5	5	2	89.709512	47.402878	87.641939	45.912329	83.660879	43.181895
345	13	5	5	5	2	90.086966	44.506076	87.792745	43.080506	83.494884	40.48435
346	13	5	5	5	2	88.867241	44.90227	86.722967	43.515391	82.649766	40.964443
347	13	5	5	6	1	63.946888	1.440691	62.116778	1.394218	58.761895	1.309723
348	13	5	5	6	1	87.234756	43.596196	84.933388	42.306948	80.655728	39.920761
349	13	5	5	6	1	85.874251	43.128903	83.660014	42.659647	79.52387	41.481086
350	13	5	5	6	1	85.079605	41.208076	82.914047	40.952221	78.856711	40.150946
351	13	5	5	7	0	80.466313	45.374045	78.162093	44.2777	73.938413	42.208662
352	13	5	5	7	0	80.067799	38.974166	77.774991	37.987635	73.572229	36.136688
353	13	5	5	5	2	96.378409	51.662203	93.841465	50.196186	89.12375	47.458965
354	13	5	5	5	2	94.99704	52.11913	92.540729	50.795086	87.955278	48.255454
355	13	5	5	5	2	93.812399	43.155568	91.431741	41.938056	86.9682	39.653489
356	13	5	5	7	0	77.476374	45.500562	75.176631	44.123327	70.978288	41.603933
357	13	5	5	6	1	85.166207	43.363777	82.728817	41.966282	78.260693	39.425053
358	13	5	5	6	1	84.451455	48.804783	82.156989	47.482991	77.916428	44.875907
359	13	4	3	6	3	45.836678	1.421812	44.887193	1.375986	42.98985	1.292642
360	13	4	4	4	4	51.416963	1.122	51.172148	1.134381	49.865709	1.107301
361	13	4	4	4	4	68.878513	41.352234	68.442782	43.509504	66.603188	42.309006
362	13	4	4	5	3	49.924343	1.420379	48.890184	1.3746	46.823638	1.29134
363	13	4	4	5	3	65.004092	35.710708	64.634028	40.26619	62.932455	39.866431
364	13	4	4	6	2	47.33215	1.431015	46.088206	1.38535	43.774194	1.302137
365	12	5	2	7	2	59.066504	1.314842	57.543685	1.272883	54.704672	1.196422
366	12	5	3	5	3	66.430729	1.312008	65.118964	1.269722	62.466994	1.192814
367	12	5	3	5	3	65.150059	1.370411	63.863582	1.326243	61.262737	1.245914
368	12	5	3	5	3	90.310953	42.283565	88.527625	40.979262	84.922318	38.57068
369	12	5	3	6	2	62.366145	1.318452	60.758257	1.276378	57.760647	1.19971
370	12	5	3	6	2	61.356984	1.31337	59.808151	1.271619	56.907275	1.195463
371	12	5	3	6	2	84.875288	40.204201	83.195278	39.335818	79.80199	37.313649
372	12	5	3	7	1	57.216835	1.331934	55.59672	1.28897	52.62466	1.210853
373	12	5	3	7	1	80.100117	40.897655	78.026326	39.690001	74.163521	37.454151
374	12	5	3	7	1	78.747664	39.67471	76.759817	39.241306	73.036703	38.187106
375	12	5	3	7	1	56.909915	1.328089	55.29849	1.285249	52.342373	1.207357
376	12	5	3	7	1	78.325249	34.9014	76.348065	34.428819	72.644923	33.343139
377	12	5	3	5	3	94.685681	52.394964	92.809747	50.765823	89.022087	47.765895
378	12	5	3	7	1	77.62622	39.174301	75.428206	37.911795	71.396004	35.616039
379	12	5	3	7	1	76.182795	41.132599	74.081463	39.832483	70.2121	37.4611
380	12	5	3	8	0	72.995964	36.498729	70.927742	35.578566	67.133961	33.851264

381	12	5	3	6	2	85.197039	41.198921	82.996708	39.89231	78.896098	37.508338
382	12	5	3	6	2	83.310592	47.462111	81.417527	45.931087	77.771686	43.147401
383	12	5	3	8	0	70.439903	40.150165	68.364162	38.919119	64.573461	36.669871
384	12	5	4	5	2	67.514678	1.320498	65.774053	1.278359	62.528981	1.201573
385	12	5	4	5	2	91.882025	46.036637	90.063325	44.626227	86.38991	42.015594
386	12	5	4	5	2	66.115377	1.142367	64.457835	1.111636	61.348462	1.053386
387	12	5	4	5	2	92.341299	42.768391	90.524898	42.646646	86.84722	41.75016
388	12	5	4	3	4	103.387229	45.930316	102.503886	46.196223	99.624093	44.865364
389	12	5	4	4	3	95.710843	48.195056	93.820885	46.761699	90.000009	44.080542
390	12	5	4	4	3	92.768757	43.530121	91.87872	43.088597	89.202178	41.443255
391	12	5	4	5	2	66.213111	1.381584	64.506042	1.337519	61.323529	1.257212
392	12	5	4	5	2	65.1417	1.376005	63.49733	1.332294	60.417518	1.252549
393	12	5	4	5	2	65.56809	1.137238	63.898036	1.107484	60.776388	1.050848
394	12	5	4	5	2	90.977878	42.499064	89.046398	42.840718	85.243888	42.178251
395	12	5	4	5	2	91.736346	40.686864	89.367128	39.396217	84.951776	37.041478
396	12	5	4	5	2	88.901582	44.531821	86.921218	43.132193	83.083823	40.567965
397	12	5	4	6	1	61.608242	1.330572	59.863782	1.287652	56.663616	1.209615
398	12	5	4	6	1	86.247821	40.897506	84.014867	39.689856	79.855591	37.454014
399	12	5	4	6	1	84.791568	40.452083	82.651153	40.026183	78.642289	38.942876
400	12	5	4	7	0	79.022312	42.593567	76.783343	41.570299	72.676357	39.637782
401	12	5	4	7	0	78.598423	36.498619	76.371465	35.578459	72.28651	33.851162
402	12	5	4	5	2	96.082845	50.211073	93.601362	48.623348	88.976793	45.724708
403	12	5	4	5	2	94.591846	51.883152	92.196652	50.218618	87.713729	47.188572
404	12	5	4	7	0	75.84632	42.71435	73.61126	41.422897	69.529615	39.060178
405	12	5	4	6	1	84.034452	40.675945	81.654986	39.365091	77.289917	36.981408
406	12	5	4	6	1	83.270694	48.536686	81.043723	47.248469	76.921657	44.821981
407	12	5	5	1	5	76.268639	0.820952	79.599951	1.011429	79.829982	1.056453
408	12	5	5	2	4	74.589533	1.041615	74.12533	1.053404	72.205922	1.033345
409	12	5	5	2	4	75.307759	1.099355	74.471873	1.091623	72.188204	1.054569
410	12	5	5	2	4	96.96735	26.578426	100.360146	41.742249	100.317989	47.535137
411	12	5	5	3	3	70.21108	1.428094	68.824666	1.382077	66.021782	1.298379
412	12	5	5	3	3	92.828274	43.590079	92.478938	44.944806	90.28823	43.25969
413	12	5	5	3	3	79.064025	1.335393	77.497591	1.29242	74.334836	1.214223
414	12	5	5	3	3	78.324159	1.141013	76.773192	1.119874	73.641038	1.072322
415	12	5	5	3	3	78.565906	1.346138	77.044998	1.302898	73.946132	1.224161
416	12	5	5	3	3	77.728571	1.326544	76.207441	1.28692	73.12141	1.212896
417	12	5	5	3	3	104.309403	44.118299	104.025275	46.848461	101.65414	48.069746
418	12	5	5	3	3	78.195703	1.179197	76.60431	1.151727	73.423602	1.095692
419	12	5	5	3	3	106.482031	46.73444	105.794211	49.344049	103.031667	50.158323
420	12	5	5	3	3	106.744293	39.618818	105.61135	43.450257	102.425738	47.428363
421	12	5	5	4	2	71.529074	1.324459	69.684952	1.282196	66.246929	1.205181
422	12	5	5	4	2	97.345294	46.696366	95.418454	45.197315	91.52662	42.467223
423	12	5	5	4	2	70.046638	1.334534	68.290527	1.291607	64.996256	1.213508
424	12	5	5	4	2	96.813282	44.865757	94.92574	44.424914	91.090701	42.790141
425	12	5	5	4	2	96.608563	42.709838	94.63298	43.280814	90.691377	43.444554
426	12	5	5	4	2	97.190953	44.817582	94.680862	43.398346	90.002974	40.808083
427	12	5	5	4	2	93.230002	42.126692	91.043902	40.826488	86.872038	38.434499
428	12	5	5	5	1	65.271444	1.334595	63.423259	1.291545	60.032812	1.213272
429	12	5	5	5	1	89.833241	41.491614	87.565558	41.078472	83.318328	40.004237
430	12	5	5	5	1	88.933034	39.569325	86.720016	39.366298	82.561351	38.665953
431	12	5	5	1	5	107.479049	32.667877	111.177911	60.675102	111.104938	57.030065
432	12	5	5	6	0	83.720947	43.747645	81.34885	42.706497	76.997664	40.479849
433	12	5	5	5	1	65.049717	1.33373	63.207811	1.290708	59.828881	1.212486
434	12	5	5	5	1	91.065679	46.676241	88.70799	45.564548	84.316374	43.168341
435	12	5	5	5	1	89.06625	43.412222	86.832694	43.123564	82.643055	42.259683

436	12	5	5	3	3	102.048181	55.771578	99.966574	54.095989	95.809612	50.975902
437	12	5	5	3	3	98.833907	49.748271	97.849766	49.015112	94.963568	46.918765
438	12	5	5	4	2	94.823176	51.275101	92.374143	49.833008	87.810082	47.135421
439	12	5	5	4	2	91.518802	47.290576	89.468182	45.87979	85.501908	43.255463
440	12	5	5	4	2	95.061558	46.76478	92.59945	45.624781	88.013708	43.427642
441	12	5	5	4	2	92.924721	42.854873	90.978757	42.767797	87.129364	41.985662
442	12	5	5	4	2	92.364203	46.536478	90.163873	45.74503	85.983066	44.016263
443	12	5	5	5	1	63.79567	1.396077	61.989272	1.351043	58.675483	1.269164
444	12	5	5	5	1	87.579295	44.201985	85.368508	43.829311	81.227842	41.52882
445	12	5	5	5	1	86.700179	40.537993	84.54264	40.345423	80.488266	39.653069
446	12	5	5	5	1	88.253432	41.176914	85.754504	39.84993	81.170285	37.436914
447	12	5	5	5	1	87.451329	45.629749	85.112552	44.439444	80.783537	42.190275
448	12	5	5	5	1	86.163836	46.742977	83.779052	45.408716	79.390052	42.937135
449	12	5	5	6	0	82.989283	42.009882	80.637917	40.995857	76.324757	39.08193
450	12	5	5	5	1	92.434566	49.480491	89.817248	47.93084	85.015845	45.102101
451	12	5	5	6	0	80.083075	45.428017	77.723166	44.031068	73.41352	41.479401
452	12	4	3	5	3	46.817258	1.312845	45.892787	1.270531	44.023803	1.193575
453	12	4	3	6	2	44.18961	1.322688	43.050339	1.280481	40.926379	1.203568
454	12	4	3	6	2	60.138491	40.982127	58.948117	40.245279	56.5438	38.565885
455	12	4	4	3	4	50.054475	1.037131	49.77079	1.050932	48.507374	1.032388
456	12	4	4	3	4	55.849127	1.102955	55.646822	1.106316	54.33544	1.070993
457	12	4	4	4	3	51.633445	1.314873	50.613872	1.272494	48.552622	1.195419
458	12	4	4	4	3	51.356535	1.14273	50.362374	1.113961	48.336745	1.056646
459	12	4	4	4	3	69.175257	40.226333	68.858327	44.223719	67.177607	42.417648
460	12	4	4	4	3	70.194407	44.388122	68.808311	42.960277	66.006078	40.361673
461	12	4	4	5	2	48.474238	1.321345	47.224503	1.27918	44.894603	1.202345
462	12	4	4	5	2	47.689864	1.316241	46.48603	1.2744	44.231317	1.198079
463	12	4	4	5	2	65.446664	36.462459	64.127181	37.209994	61.480688	37.194967
464	12	4	4	6	1	44.471924	1.334887	43.212685	1.291827	40.902644	1.213537
465	11	5	2	6	2	59.74612	1.2091	58.241085	1.170516	55.427721	1.100207
466	11	5	2	6	2	83.474754	35.726898	81.367887	34.592781	77.43113	32.523929
467	11	5	2	7	1	54.067228	1.217942	52.555717	1.178655	49.780517	1.107223
468	11	5	2	7	1	78.041586	32.684044	76.066432	31.707465	72.377903	29.903814
469	11	5	3	5	2	63.395987	1.212061	61.79901	1.173383	58.813779	1.102903
470	11	5	3	5	2	88.728002	42.334804	87.072974	41.827368	83.680203	39.300915
471	11	5	3	4	3	92.769059	44.940136	91.04345	43.554832	87.50212	40.920872
472	11	5	3	5	2	62.06389	1.266454	60.50047	1.226061	57.577965	1.152446
473	11	5	3	5	2	60.969132	1.26134	59.469125	1.221271	56.650583	1.148172
474	11	5	3	5	2	86.625652	42.187845	85.009701	41.505395	81.697149	39.135802
475	11	5	3	5	2	88.574546	38.882253	86.338962	37.649739	82.161694	35.400727
476	11	5	3	5	2	85.592895	42.324738	83.764343	40.995771	80.192837	38.560303
477	11	5	3	6	1	57.370402	1.221321	55.766547	1.181924	52.8218	1.110295
478	11	5	3	6	1	82.809445	37.599753	80.713622	36.489785	76.799746	34.434674
479	11	5	3	6	1	81.285315	37.172391	79.28545	36.784242	75.527678	35.807734
480	11	5	3	7	0	75.270893	39.163835	73.16513	38.22396	69.299215	36.448702
481	11	5	3	7	0	74.83053	33.544946	72.737087	32.699876	68.893789	31.113388
482	11	5	3	5	2	93.162476	48.08864	90.811084	46.569402	86.417428	43.795279
483	11	5	3	5	2	91.586487	49.764276	89.325374	48.168125	85.080041	45.262402
484	11	5	3	7	0	71.976759	40.536394	69.874012	39.313691	66.032451	37.076257
485	11	5	3	6	1	80.493846	38.871375	78.243549	37.618728	74.111905	35.340877
486	11	5	3	6	1	79.696091	46.767594	77.604794	45.54009	73.72677	43.223242
487	11	5	4	5	1	62.555996	1.223235	60.807172	1.183777	57.596255	1.112035
488	11	5	4	5	1	90.294423	43.596231	88.009162	42.564921	83.741519	40.333033
489	11	5	4	5	1	89.268589	42.4976	87.062188	41.60561	82.920643	39.815672
490	11	5	4	3	3	102.236735	52.284193	100.262243	50.716012	96.268275	47.794262

491	11	5	4	3	3	98.728854	46.523492	97.948412	45.854623	95.341273	43.910596
492	11	5	4	4	2	94.366324	47.981087	91.984458	46.635786	87.533894	44.117632
493	11	5	4	4	2	92.677664	44.590054	90.392783	43.183944	86.10148	40.614589
494	11	5	4	4	2	90.784664	44.181032	88.832249	42.865072	85.026829	40.416004
495	11	5	4	4	2	94.625154	43.680495	92.229238	42.622264	87.755356	40.579998
496	11	5	4	4	2	92.307147	39.965105	90.469686	39.905523	86.79389	39.207347
497	11	5	4	4	2	91.988427	42.515636	89.920244	41.285753	85.942695	38.982226
498	11	5	4	5	1	61.24155	1.280448	59.529472	1.239145	56.386024	1.164047
499	11	5	4	5	1	86.529946	41.24387	84.401047	40.914171	80.400817	38.772838
500	11	5	4	5	1	88.526136	43.040877	86.296162	42.237509	82.127651	40.589841
501	11	5	4	5	1	87.256811	38.374229	84.817447	37.137586	80.338669	34.888843
502	11	5	4	5	1	86.39203	42.60072	84.125025	41.494323	79.921176	39.402015
503	11	5	4	5	1	84.972536	39.094113	82.792897	37.952296	78.73358	35.835403
504	11	5	4	6	0	81.594634	39.163697	79.31196	38.223826	75.121257	36.448574
505	11	5	4	5	1	91.776115	47.627059	89.210409	46.092606	84.499661	43.302226
506	11	5	4	6	0	78.48252	45.567064	76.189712	44.208201	72.000924	41.718984
507	11	5	5	0	5	114.637487	35.784374	118.286812	59.791466	118.410472	56.226488
508	11	5	5	1	4	79.592941	1.019457	79.206326	1.022643	77.333732	0.995695
509	11	5	5	1	4	106.434404	32.339436	110.238471	48.35158	110.552481	52.750135
510	11	5	5	2	3	72.920115	1.309547	71.511908	1.26738	68.66334	1.190667
511	11	5	5	2	3	73.021718	1.057418	71.60523	1.032747	68.744693	0.982496
512	11	5	5	2	3	102.396134	47.694177	101.74537	47.166246	99.193644	45.293728
513	11	5	5	2	3	72.659057	1.031588	71.132891	1.011556	68.135638	0.968516
514	11	5	5	2	3	103.021256	39.437924	101.954476	42.653516	98.981322	45.949568
515	11	5	5	3	2	67.341619	1.320415	65.64525	1.278322	62.474224	1.2016
516	11	5	5	3	2	66.70792	1.061489	65.047425	1.034309	61.935477	0.982335
517	11	5	5	3	2	95.60327	42.614915	93.559055	42.255491	89.56744	41.149598
518	11	5	5	3	2	76.576817	1.234653	74.647808	1.195263	71.041909	1.12348
519	11	5	5	3	2	107.25834	48.651558	105.250615	48.104077	101.140501	46.5397
520	11	5	5	3	2	74.847269	1.243282	73.019901	1.203324	69.580163	1.130613
521	11	5	5	3	2	106.504028	50.400938	104.55198	49.89839	100.522311	48.348336
522	11	5	5	3	2	107.05164	43.870612	104.937084	45.235694	100.695163	46.697412
523	11	5	5	4	1	66.624467	1.226944	64.761904	1.187367	61.342157	1.115407
524	11	5	5	4	1	96.166925	44.919377	93.733037	43.868601	89.187838	41.579432
525	11	5	5	4	1	95.074373	43.753938	92.724474	42.850329	88.313574	41.029819
526	11	5	5	4	1	93.865859	41.633088	91.573463	41.406883	87.258685	40.660779
527	11	5	5	4	1	92.931754	42.394554	90.333741	41.028496	85.563676	38.544385
528	11	5	5	4	1	91.048238	42.325186	88.575676	40.961958	84.017027	38.482763
529	11	5	5	4	1	90.533958	44.986807	88.066019	43.711049	83.518542	41.345496
530	11	5	5	5	0	86.901325	40.228181	84.470192	39.271874	80.006938	37.463432
531	11	5	5	1	4	115.932705	61.535583	115.085632	61.938256	112.091409	60.654056
532	11	5	5	1	4	106.243686	46.542938	108.392901	56.480401	107.844874	53.07305
533	11	5	5	5	0	86.579335	44.122638	84.15721	42.880235	79.710493	40.580627
534	11	5	5	3	2	100.131364	54.28082	97.603985	52.567847	92.881527	49.439257
535	11	5	5	3	2	99.247924	51.168468	96.770009	49.678752	92.129176	46.910181
536	11	5	5	3	2	97.278405	53.296089	95.139663	51.586314	90.999272	48.472846
537	11	5	5	4	1	90.461397	48.870704	87.932445	47.343716	83.28918	44.555478
538	11	5	5	4	1	89.146068	47.292524	86.800513	46.022265	82.453107	43.635668
539	11	5	5	4	1	87.769704	48.826218	85.365063	47.375969	80.937557	44.70653
540	11	5	5	5	0	84.523725	43.583513	82.159055	42.580419	77.817832	40.675834
541	11	5	5	5	0	82.790631	43.267383	80.371965	41.968429	75.953243	39.590425
542	11	5	5	5	0	87.033974	45.677668	84.490718	44.280746	79.844487	41.727834
543	11	4	3	4	3	48.285502	1.206891	47.387346	1.167993	45.544125	1.097247
544	11	4	3	4	3	67.501408	42.183146	66.245805	40.82637	63.669034	38.357019
545	11	4	3	5	2	45.071696	1.21284	43.936317	1.174138	41.813952	1.103613

546	11	4	3	5	2	44.276666	1.208148	43.18734	1.169744	41.140474	1.099692
547	11	4	3	5	2	63.081619	38.425351	61.904969	37.613055	59.492861	35.694524
548	11	4	3	6	1	41.027641	1.225286	39.880667	1.185762	37.774772	1.1139
549	11	4	4	2	4	52.498193	0.95521	52.297535	0.966039	51.111659	0.947661
550	11	4	4	3	3	49.145498	1.30983	48.231345	1.267625	46.355295	1.190858
551	11	4	4	3	3	69.012254	41.167652	68.614522	40.987386	66.933081	39.623577
552	11	4	4	3	3	55.942965	1.224761	54.898349	1.185348	52.757812	1.113629
553	11	4	4	3	3	55.372113	1.046403	54.338782	1.027024	52.220866	0.983423
554	11	4	4	3	3	77.537577	47.232202	77.319614	48.060107	75.637746	47.392722
555	11	4	4	4	2	50.152773	1.214728	48.8894	1.175966	46.527773	1.105332
556	11	4	4	4	2	70.193013	43.615384	68.883715	42.215368	66.199683	39.665559
557	11	4	4	4	2	70.575858	40.987559	69.268926	40.927459	66.582064	40.146509
558	11	4	4	4	2	70.071614	41.8287	68.303036	40.504562	64.998386	38.087694
559	11	4	4	4	2	67.138041	39.656216	65.667819	38.455723	62.818194	36.233382
560	11	4	4	5	1	45.385913	1.224029	44.117098	1.184545	41.787499	1.112757
561	11	4	4	5	1	64.305079	38.672432	62.72298	38.302178	59.750194	37.324064
562	11	4	4	6	0	59.547051	40.812426	57.881175	39.847303	54.822837	37.775815
563	10	5	2	5	2	60.571724	1.102348	59.088873	1.067172	56.30776	1.003071
564	10	5	2	5	2	59.173177	1.15184	57.724563	1.115102	55.007664	1.04815
565	10	5	2	5	2	87.506803	35.842418	85.35983	34.706543	81.335021	32.633768
566	10	5	2	6	1	54.269856	1.110773	52.776084	1.074943	50.030607	1.009797
567	10	5	2	6	1	81.262439	34.644218	79.262461	33.622787	75.51566	31.731111
568	10	5	2	5	2	87.506519	35.179558	85.359553	34.064321	81.334757	32.029344
569	10	5	2	6	1	78.260065	33.377113	76.105964	32.30146	72.146838	30.345476
570	10	5	2	6	1	77.407311	38.586905	75.422809	37.347546	71.734529	35.092402
571	10	5	2	7	0	72.692347	30.863094	70.689926	30.088234	67.009956	28.63293
572	10	5	3	5	1	57.927654	1.113522	56.333201	1.077603	53.402678	1.012296
573	10	5	3	5	1	86.739541	40.124455	84.604765	38.959116	80.605428	36.794215
574	10	5	3	3	3	99.439234	48.04125	97.648439	46.601229	93.963867	43.917688
575	10	5	3	4	2	91.051865	44.09209	88.817807	42.859901	84.629786	40.551875
576	10	5	3	4	2	89.261193	41.157006	87.128708	39.868209	83.107659	37.509583
577	10	5	3	4	2	87.257716	40.856768	85.475543	39.641568	81.967361	37.37906
578	10	5	3	5	1	56.590156	1.164045	55.032517	1.126497	52.169658	1.058226
579	10	5	3	5	1	82.770042	38.730416	80.797284	38.140461	77.075416	35.834097
580	10	5	3	5	1	83.535172	36.413868	81.235874	35.240452	77.009884	33.106667
581	10	5	3	5	1	82.624938	40.219331	80.506671	39.184585	76.569783	37.224385
582	10	5	3	6	0	77.592163	35.712877	75.454769	34.856735	71.526751	33.239418
583	10	5	3	5	1	88.306513	45.307443	85.875885	43.847808	81.408515	41.193462
584	10	5	3	6	0	74.343043	43.597232	72.193835	42.302699	68.265495	39.930384
585	10	5	4	5	0	85.340861	40.89471	82.990017	39.746487	78.66973	37.620417
586	10	5	4	3	2	100.14482	50.536923	97.687657	48.942954	93.081397	46.031391
587	10	5	4	3	2	99.173335	47.573417	96.769891	46.191777	92.252367	43.622694
588	10	5	4	3	2	97.010654	49.598399	94.97803	48.007457	91.008577	45.110276
589	10	5	4	4	1	89.559356	45.390792	87.094244	43.973532	82.563494	41.385413
590	10	5	4	4	1	88.127968	43.894268	85.861785	42.720279	81.652285	40.512868
591	10	5	4	4	1	88.601833	40.303072	86.348883	39.420404	82.155345	37.693391
592	10	5	4	5	0	83.114699	40.38539	80.825122	39.46317	76.617443	37.710427
593	10	5	4	5	0	81.242009	40.086852	78.893356	38.885102	74.60047	36.684759
594	10	5	4	5	0	85.833938	48.055792	83.351859	46.598833	78.815211	43.934042
595	10	5	5	0	4	121.97231	58.498243	121.384839	58.885515	118.650138	57.671428
596	10	5	5	1	3	76.526252	1.199212	75.099969	1.160529	72.202874	1.090195
597	10	5	5	1	3	113.080573	52.484906	112.592378	52.021542	110.111587	50.088828
598	10	5	5	1	3	114.41186	44.37704	113.091254	46.769051	109.728563	49.04894
599	10	5	5	2	2	69.09421	1.203793	67.402721	1.165418	64.230303	1.095474
600	10	5	5	2	2	100.538502	48.841096	98.721232	48.174773	94.987444	46.439598

601	10	5	5	2	2	68.546107	0.965506	66.88508	0.940689	63.762936	0.893295
602	10	5	5	2	2	102.504106	44.281516	100.601132	44.994604	96.730203	45.390892
603	10	5	5	3	1	61.905595	1.214215	60.20165	1.175048	57.069886	1.103835
604	10	5	5	3	1	90.228249	42.153752	88.077729	41.365551	84.020491	39.734208
605	10	5	5	3	1	71.30583	1.1345	69.343144	1.097905	65.735828	1.031367
606	10	5	5	3	1	104.688782	44.638714	102.189851	44.58994	97.476912	44.124598
607	10	5	5	3	1	103.92926	46.235365	101.472895	46.265477	96.829613	45.903861
608	10	5	5	4	0	91.465708	42.176616	88.946145	40.997953	84.315795	38.814197
609	10	5	5	4	0	87.072685	41.317849	84.555471	40.082095	79.954488	37.819002
610	10	5	5	1	3	113.385352	68.029536	111.272519	66.012777	106.980574	62.243769
611	10	5	5	1	3	117.268425	60.918222	114.919968	59.542034	110.267499	56.742322
612	10	5	5	1	3	113.004796	53.264008	111.020689	51.568322	106.897875	48.471415
613	10	5	5	3	1	95.595922	51.267254	92.964654	49.615898	88.128518	46.61284
614	10	5	5	3	1	92.7075	48.941648	90.207977	47.392769	85.600767	44.56862
615	10	5	5	4	0	84.095047	44.635199	81.657709	43.268261	77.203777	40.770708
616	10	4	2	5	2	42.558595	1.103057	41.516722	1.067858	39.56267	1.003717
617	10	4	3	3	3	52.384298	1.114912	51.477845	1.079035	49.583346	1.013748
618	10	4	3	4	2	46.452121	1.105767	45.314931	1.070483	43.182111	1.006186
619	10	4	3	4	2	67.236388	40.019036	66.074421	38.734519	63.644645	36.395027
620	10	4	3	4	2	67.108485	39.849009	65.461983	38.588691	62.375379	36.287878
621	10	4	3	5	1	41.619254	1.114245	40.473688	1.078303	38.368197	1.012953
622	10	4	3	5	1	61.059171	35.247058	59.603875	34.912876	56.858267	34.040399
623	10	4	3	6	0	56.108335	37.221151	54.562746	36.341991	51.722323	34.678105
624	10	4	4	1	4	56.923204	0.927189	56.805087	0.930102	55.676569	0.905608
625	10	4	4	2	3	51.696293	1.191174	50.765372	1.152819	48.849938	1.08304
626	10	4	4	2	3	51.775533	0.96173	50.838249	0.939296	48.913607	0.893598
627	10	4	4	2	3	75.09988	44.274941	74.819964	43.805133	73.214791	42.086295
628	10	4	4	3	2	47.363003	1.201066	46.203514	1.162777	44.028871	1.092991
629	10	4	4	3	2	68.111947	40.950922	66.934588	39.635412	64.472846	37.240151
630	10	4	4	3	2	46.872969	0.965435	45.740878	0.940718	43.6114	0.893451
631	10	4	4	3	2	54.554976	1.123014	53.21942	1.087185	50.714563	1.021894
632	10	4	4	3	2	53.549939	1.117184	52.271737	1.081801	49.861054	1.017209
633	10	4	4	3	2	79.031733	45.182859	77.660195	44.695341	74.797005	43.270346
634	10	4	4	3	2	53.750432	1.003971	52.460362	0.975469	50.030327	0.922174
635	10	4	4	3	2	80.162231	49.652337	78.734046	48.803719	75.783329	46.599426
636	10	4	4	3	2	79.241185	43.005856	77.79683	43.838017	74.838642	44.415992
637	10	4	4	4	1	46.80847	1.115998	45.520072	1.079999	43.152061	1.014547
638	10	4	4	4	1	70.08993	41.647845	68.364923	40.68101	65.133257	38.565118
639	10	4	4	4	1	69.21451	40.546367	67.556196	39.718223	64.431286	38.045163
640	10	4	4	4	1	67.500638	39.263023	65.64269	37.997897	62.227876	35.697319
641	10	4	4	4	1	65.997279	39.197576	64.238781	37.93512	60.991686	35.639181
642	10	4	4	4	1	65.559411	36.138963	63.921217	35.08532	60.861672	33.13122
643	10	4	4	5	0	62.698387	37.221015	60.971264	36.341858	57.797228	34.677977
644	10	4	4	1	4	86.090235	57.476669	85.679039	57.91651	83.752187	56.784568
645	10	3	3	3	3	29.505645	1.19221	28.997419	1.153794	27.933255	1.083921
646	9	5	2	5	1	54.51828	1.002606	53.046419	0.970265	50.337735	0.911462
647	9	5	2	5	1	85.379689	36.68709	83.35124	35.623467	79.535629	33.646806
648	9	5	2	4	2	90.108881	41.361819	87.975615	40.054549	83.959853	37.667685
649	9	5	2	5	1	53.121443	1.048117	51.687294	1.014308	49.048009	0.952837
650	9	5	2	5	1	82.913181	36.142219	80.942961	35.094957	77.23703	33.148505
651	9	5	2	5	1	81.882369	33.245385	79.671745	32.174087	75.603503	30.225995
652	9	5	2	5	1	80.891611	40.370342	78.877516	39.324186	75.123586	37.344997
653	9	5	2	6	0	75.435819	32.596368	73.397423	31.818792	69.64657	30.348983
654	9	5	2	4	2	97.240425	41.691748	94.938438	40.376259	90.605022	37.97356
655	9	5	2	5	1	81.882074	32.612145	79.671458	31.561231	75.603231	29.650212

656	9	5	2	5	1	80.89132	39.440502	78.877232	38.412646	75.123315	36.470092
657	9	5	2	6	0	71.420682	35.791986	69.382582	34.706947	65.655125	32.722355
658	9	5	3	5	0	81.105883	37.341524	78.914272	36.285369	74.88149	34.331617
659	9	5	3	3	2	96.881952	45.485995	94.588338	44.051338	90.270731	41.430775
660	9	5	3	3	2	95.838258	43.280254	93.601468	42.026488	89.377844	39.693902
661	9	5	3	3	2	93.51892	45.639937	91.677692	44.171623	88.039924	41.499964
662	9	5	3	4	1	85.572558	41.348192	83.262307	40.057677	79.010723	37.700885
663	9	5	3	4	1	84.054282	40.111614	81.954192	39.060439	78.042432	37.076656
664	9	5	3	4	1	83.002015	37.117531	80.831644	35.947786	76.819392	33.813353
665	9	5	3	5	0	78.758549	37.407796	76.630308	36.563962	72.714147	34.95775
666	9	5	3	5	0	76.789323	37.518226	74.598021	36.396902	70.590374	34.343237
667	9	5	3	5	0	81.626726	44.079291	79.296666	42.744535	75.035367	40.302974
668	9	5	4	3	1	95.11904	47.29833	92.551057	45.774872	87.825166	43.004388
669	9	5	4	4	0	82.492235	41.046465	80.131425	39.790892	75.81491	37.496573
670	9	5	5	0	3	119.65645	64.195041	117.608364	62.28794	113.362451	58.726383
671	9	5	5	1	2	71.622411	1.086833	69.931195	1.052188	66.745813	0.989042
672	9	5	5	1	2	109.929739	47.928606	108.039533	47.044679	104.127624	45.082805
673	9	5	5	1	2	114.022807	47.521929	111.960459	47.870183	107.769875	47.71956
674	9	5	5	2	1	63.105365	1.095938	61.401674	1.060587	58.266348	0.996311
675	9	5	5	2	1	97.000667	44.592055	94.741736	44.489268	90.474226	41.876211
676	9	5	5	2	1	96.191138	45.44811	93.978761	45.286154	89.787491	44.628029
677	9	5	5	3	0	86.679501	39.668365	84.33714	38.600438	80.026997	36.61238
678	9	5	5	3	0	102.129499	47.463475	99.369788	46.51714	94.291647	44.68792
679	9	5	5	1	2	110.802166	61.741697	108.178878	59.806873	103.240724	56.267991
680	9	5	5	1	2	107.553481	63.881871	105.372492	61.828409	101.101807	58.091307
681	9	5	5	1	2	107.335984	49.298235	104.910735	48.178572	100.297108	45.966795
682	9	5	5	3	0	88.692945	54.634714	86.15468	52.981882	81.513704	49.958586
683	9	4	2	4	2	43.729666	0.995621	42.69708	0.963851	40.752218	0.905959
684	9	4	2	4	2	65.8113	36.431216	64.253349	35.279358	61.320553	33.176409
685	9	4	2	5	1	38.704695	1.003257	37.659762	0.970895	35.736759	0.912055
686	9	4	2	5	1	60.614436	32.556614	59.174359	31.600733	56.465505	29.82893
687	9	4	3	3	2	50.571528	1.011877	49.377386	0.979594	47.128235	0.920765
688	9	4	3	3	2	49.537425	1.006819	48.401394	0.974932	46.247783	0.916722
689	9	4	3	3	2	76.341107	40.744937	75.143759	40.307071	72.574301	39.024395
690	9	4	3	4	1	42.658558	1.005749	41.50688	0.973306	39.387434	0.91432
691	9	4	3	4	1	66.80648	37.971857	65.219292	36.875345	62.233717	34.835891
692	9	4	3	4	1	64.069955	37.088549	62.340222	35.893556	59.156972	33.720494
693	9	4	3	4	1	62.486428	35.670781	60.860574	34.546928	57.852661	32.496013
694	9	4	3	5	0	59.025766	33.606653	57.430795	32.813809	54.495891	31.31306
695	9	4	4	0	4	92.604902	54.161211	92.445648	54.582779	90.762742	53.525584
696	9	4	4	1	3	55.168178	1.07991	54.224102	1.045075	52.266769	0.981738
697	9	4	4	1	3	85.135001	48.450591	85.035962	48.052748	83.534998	46.297934
698	9	4	4	2	2	49.248157	1.084036	48.085264	1.049479	45.894969	0.986495
699	9	4	4	2	2	74.710167	45.006551	73.478441	44.412941	70.887882	42.840562
700	9	4	4	2	2	48.814271	0.869356	47.675121	0.847013	45.524062	0.804343
701	9	4	4	2	2	76.334854	40.714192	75.034759	41.414538	72.334456	41.849502
702	9	4	4	3	1	43.589002	1.093427	42.412205	1.058157	40.24653	0.994028
703	9	4	4	3	1	68.373709	36.990418	66.75288	36.322152	63.702602	34.942535
704	9	4	4	3	1	51.002767	1.021604	49.625817	0.98865	47.091797	0.928734
705	9	4	4	3	1	79.843942	45.624705	77.946971	44.340596	74.378694	41.939484
706	9	4	4	3	1	78.14468	41.049767	76.35254	41.033693	72.95515	40.654306
707	9	4	4	3	1	79.425401	45.55774	77.571733	45.336469	74.071515	44.595925
708	9	4	4	4	0	67.257669	38.739089	65.440259	37.659939	62.096044	35.659736
709	9	4	4	4	0	63.678129	37.93444	61.860975	36.801677	58.537603	34.726892
710	9	4	4	1	3	85.389993	63.282127	83.929096	61.411672	80.89997	57.912652

711	9	4	4	1	3	88.645364	56.468898	86.991441	55.209746	83.666432	52.63678
712	9	4	4	1	3	83.296964	63.396624	83.00977	63.150347	81.352967	59.343918
713	9	3	3	2	3	31.438863	1.073367	30.922913	1.038805	29.835808	0.975928
714	9	3	3	3	2	28.524773	1.08252	27.851219	1.048011	26.58259	0.985113
715	9	3	3	3	2	42.710812	37.503654	42.044189	36.298972	40.610744	34.105451
716	8	5	2	5	0	79.010787	34.368127	76.927663	33.602603	73.0883	32.143142
717	8	5	2	3	2	96.499648	41.246316	94.319142	39.945977	90.191769	37.570538
718	8	5	2	4	1	83.922578	38.095456	81.712226	36.868245	77.637826	34.636543
719	8	5	2	4	1	82.249319	40.486049	80.269418	39.458497	76.568249	37.507996
720	8	5	2	5	0	76.442945	33.800213	74.427458	33.043225	70.71277	31.601029
721	8	5	2	5	0	74.296086	36.848866	72.210569	35.76007	68.393565	33.763885
722	8	5	2	4	1	91.434946	38.491169	89.026733	37.251228	84.587611	34.996372
723	8	5	2	5	0	74.295785	35.977923	72.210276	34.912549	68.393288	32.959694
724	8	5	3	3	1	91.051796	42.045618	88.653674	40.691348	84.233154	38.22854
725	8	5	3	4	0	77.571525	37.078107	75.386904	35.954258	71.389717	33.898915
726	8	5	4	3	0	87.372929	50.470915	84.912273	48.925652	80.41003	46.102216
727	8	5	5	0	2	117.370322	57.503055	114.718021	55.702107	109.697691	52.407697
728	8	5	5	1	1	64.968456	0.977278	63.257318	0.945754	60.103131	0.888437
729	8	5	5	1	1	104.726019	43.641272	102.427303	43.457462	98.048191	42.783419
730	8	5	5	2	0	92.377911	44.976162	89.942192	44.128666	85.453008	42.478942
731	8	5	5	1	1	105.892119	57.759292	103.103133	55.89994	97.962122	52.518358
732	8	5	5	1	1	101.140305	44.52287	98.551782	43.3479	93.761251	41.147488
733	8	4	2	3	2	47.754091	0.899841	46.67834	0.871133	44.640767	0.818818
734	8	4	2	4	1	39.434213	0.894389	38.395595	0.865539	36.481083	0.813084
735	8	4	2	4	1	65.318643	34.318418	63.836547	33.329358	61.033642	31.489008
736	8	4	2	4	1	62.316415	33.506995	60.675126	32.42742	57.649694	30.464239
737	8	4	2	5	0	56.824821	30.314805	55.326631	29.603546	52.565349	28.256302
738	8	4	3	3	1	46.440227	0.90915	45.217085	0.879823	42.962434	0.826502
739	8	4	3	3	1	76.890661	40.645238	75.14595	39.50165	71.846411	37.363145
740	8	4	3	3	1	75.052165	36.561477	73.418898	36.549562	70.30131	36.215714
741	8	4	3	4	0	63.395862	34.963258	61.724427	33.981815	58.643838	32.164501
742	8	4	3	4	0	59.612929	35.137577	57.939573	34.091882	54.876925	32.175975
743	8	4	3	1	3	82.924761	59.643867	81.664451	57.751083	78.970951	54.291509
744	8	4	4	0	3	92.585355	59.07415	91.1774	57.324506	88.169044	54.053725
745	8	4	4	1	2	51.974966	0.966631	50.804133	0.935818	48.586463	0.879656
746	8	4	4	1	2	84.162526	43.714754	82.875232	42.92453	80.130888	41.1564
747	8	4	4	1	2	87.696016	43.334238	86.26646	43.698036	83.290947	43.632466
748	8	4	4	2	1	45.075311	0.974734	43.888118	0.943292	41.699733	0.886125
749	8	4	4	2	1	73.111505	40.597813	71.491305	40.534632	68.411441	38.155749
750	8	4	4	3	0	64.419911	36.018786	62.721357	35.053267	59.590816	33.254867
751	8	4	4	3	0	77.474587	43.279559	75.431957	42.430597	71.667231	40.786254
752	8	4	4	1	2	84.914322	56.740058	82.995492	54.963743	79.363474	51.714114
753	8	4	4	1	2	82.11863	58.775853	80.577239	56.886756	77.516121	53.448668
754	8	4	4	1	2	85.579576	58.811465	83.936081	56.963049	80.694273	53.579238
755	8	3	2	3	2	25.993129	0.962693	25.407585	0.932004	24.298509	0.876068
756	8	3	3	1	3	34.155475	0.961307	33.636212	0.930298	32.526592	0.873917
757	8	3	3	2	2	30.060718	0.964984	29.383544	0.934223	28.100912	0.878156
758	8	3	3	2	2	48.041083	41.461915	47.344615	40.94442	45.827714	39.563094
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760	7	5	1	4	1	51.606149	0.785398	50.290744	0.760064	47.860793	0.714
761	7	5	2	3	1	89.841177	37.561073	87.551187	36.351287	83.320884	34.15122
762	7	5	2	3	1	87.796949	45.224184	85.786675	44.094814	82.01033	41.944708
763	7	5	2	4	0	74.808056	37.039828	72.745133	35.927384	68.967194	33.891203
764	7	5	2	4	0	83.052303	34.760689	80.769868	33.709065	76.588624	31.785251
765	7	5	3	3	0	82.113884	45.49005	79.849494	44.146961	75.702598	41.684843

766	7	5	5	0	1	112.363874	53.0247	109.499795	51.317935	104.208979	48.213818
767	7	5	5	1	0	100.844614	41.695281	98.270819	40.94337	93.517044	39.471626
768	7	5	5	1	0	96.938764	56.106415	94.255944	54.515356	89.34432	51.589122
769	7	4	2	3	1	42.96897	0.795859	41.873721	0.770187	39.850464	0.723511
770	7	4	2	3	1	76.456947	36.284691	74.827164	35.266832	71.721918	33.36226
771	7	4	2	4	0	61.324079	31.736405	59.759072	31.047227	56.868487	29.729159
772	7	4	2	4	0	57.160152	34.842945	55.589927	33.817653	52.713288	31.937187
773	7	4	3	3	0	73.889648	37.959258	72.003955	37.215809	68.521065	35.775554
774	7	4	3	1	2	82.052929	54.278759	80.312644	52.584322	76.993263	49.482667
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777	7	4	4	1	1	47.3362	0.855617	46.129633	0.828017	43.900739	0.777836
778	7	4	4	2	0	70.777778	40.439688	68.97136	39.692851	65.634923	38.235401
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780	7	3	2	2	2	27.234747	0.844759	26.659311	0.817831	25.56083	0.768749
781	7	3	2	3	1	23.278967	0.852091	22.685602	0.824605	21.589478	0.77463
782	7	3	2	3	1	41.059019	33.116645	40.183301	32.186553	38.514985	30.446684
783	7	3	3	0	3	62.572833	56.729289	61.775227	55.063741	59.984714	51.94114
784	7	3	3	1	2	32.345703	0.847033	31.662279	0.820033	30.357653	0.770821
785	7	3	3	1	2	56.110565	40.116051	55.38966	39.419054	53.776624	37.834044
786	7	3	3	2	1	27.486827	0.854142	26.786206	0.82659	25.491949	0.776496
787	7	3	3	2	1	48.480766	39.753448	47.446755	38.670376	45.476877	36.631474
788	7	3	3	2	1	47.772538	36.835859	46.783187	36.821703	44.886127	35.152116
789	7	3	3	3	0	41.339048	32.630537	40.283977	31.762168	38.335271	30.14323
790	6	5	1	4	0	83.866205	36.147758	81.820477	35.321319	78.030882	33.750836
791	6	5	2	3	0	79.461363	40.245374	77.332299	39.058622	73.428504	36.882854
792	6	5	5	0	0	102.068756	57.42822	99.317503	55.74782	94.275516	52.66573
793	6	4	1	3	1	37.121403	0.675621	36.217252	0.653828	34.542042	0.614203
794	6	4	1	3	1	31.309393	0.733218	30.546803	0.709567	29.133876	0.666564
795	6	4	1	3	1	67.864266	33.21436	66.211323	32.144627	63.148753	30.199242
796	6	4	2	3	0	72.918185	33.240621	71.1395	32.598826	67.84459	31.353284
797	6	4	3	1	1	79.142345	49.301092	77.214707	47.714475	73.643181	44.828802
798	6	4	3	1	1	77.274355	45.103793	75.433637	43.759288	72.012942	41.287285
799	6	4	4	0	1	91.655117	47.15527	89.42271	45.637554	85.286509	42.877234
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801	6	4	4	1	0	77.150597	50.00492	75.074511	48.594679	71.269292	45.999809
802	6	3	2	2	1	24.133676	0.732471	23.545862	0.708844	22.45676	0.665885
803	6	3	2	2	1	46.788863	34.847423	45.87673	33.901999	44.119708	32.120656
804	6	3	2	3	0	38.850684	30.0189	37.902913	29.408379	36.147243	28.231209
805	6	3	3	0	2	64.899288	49.05233	63.643083	47.522386	61.219496	44.72133
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812	5	4	1	3	0	61.169674	39.360103	59.606849	38.273111	56.734949	36.268243
813	5	4	3	1	0	72.138873	52.370274	70.275073	50.948154	66.853427	48.323316
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815	5	3	1	2	1	20.838411	0.613411	20.36395	0.593624	19.481011	0.557648
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817	5	3	1	2	1	52.72595	33.627776	51.525455	32.545098	49.291416	30.57608
818	5	3	1	2	1	42.580687	38.727803	41.611185	37.481289	39.807009	35.214222
819	5	3	1	2	1	53.507347	37.354408	52.289061	36.152004	50.021914	33.965184
820	5	3	2	2	0	44.944587	31.11779	43.919176	30.576782	42.011458	29.512947

821	5	3	3	0	1	66.529082	43.399292	65.014309	42.002793	62.195421	39.462854
822	5	3	3	1	0	57.180498	32.341703	55.875925	31.798636	53.448841	30.72603
823	5	2	2	0	2	40.527717	42.225496	39.848664	40.909971	38.513276	38.500915
824	5	2	2	1	1	15.731964	0.612348	15.373769	0.592595	14.707194	0.556682
825	5	2	2	1	1	34.818155	30.827692	34.228967	30.001113	33.072914	28.439853
826	4	3	1	2	0	43.70109	38.45499	42.807845	37.583552	41.134232	35.925757
827	4	3	1	2	0	58.401375	40.469471	57.20786	40.134663	54.971601	39.401645
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829	4	3	1	2	0	37.340721	36.27627	36.433624	35.209073	34.764676	33.252585
830	4	3	1	2	0	51.033285	36.450404	49.814011	35.407135	47.56755	33.488995
831	4	3	3	0	0	65.227583	43.873144	63.643046	42.608637	60.727692	40.286379
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834	4	2	2	0	1	43.027195	42.04258	42.335633	40.687382	40.989092	38.22306
835	4	2	2	1	0	37.664814	26.544122	36.89495	26.109224	35.452507	25.247561
836	3	2	1	1	0	39.156653	34.798807	38.511801	34.653838	37.286471	34.285621
837	3	2	2	0	0	51.184339	34.377931	50.077596	33.392402	48.03325	31.581668
838	3	1	1	0	1	25.198898	42.252872	24.785872	40.895372	24.000566	38.425847
839	2	1	1	0	0	44.72263	46.013617	43.995384	44.862255	42.641354	42.724149

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