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Analysis of Forest Land Aggregation Methods for Timber Supply Modelling

BY

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THE UNDERSIGNED CERTIFY THAT THEY HAVE READ, AND RECOMMEND TO THE FACULTY OF GRADUATE STUDIES AND RESEARCH FOR ACCEPTANCE, A THESIS ENTITLED Analysis of Forest Land Aggregation Methods for Timber Supply Modelling SUBMITTED BY Se-Kyung Chong IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF Doctor of Philosophy

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Dedication

To my parents, Dae-Sung and Song, my wife, Hyo-Sang and my daughters, You-Sun and You-Jin.

ABSTRACT

The difference in compartment based and stand based land classification on the predicted allowable cuts resulting from various timber supply models has recently been recognized as a potential problem. The only work on this problem is by Jamnick (Jamnick 1988 and Jamnick *et al.* 1990). Using a forest of about 1000 hectares, this research found that larger present values were predicted using stand based classification, but that the differences diminished as the number of management choices increased. A number of questions still remain on the applicability of these results to large forest management agreement (FMA) holders in Alberta: (1) are the results from the previous study appropriate for a large scale (10^6 hectares) industrial forest such as an FMA?, (2) what is the predicted loss in allowable cut of using compartment based management units instead of stand based management units?, (3) how important are forest road access constraints on the optimal timber harvest schedule?, (4) what are the differences between compartment based and stand based management units in regards to data aggregation and computer operation?, and (5) do upper limit constraints on costs per period affect the relationships above?.

In order to address some of these questions, an FMA in Alberta of about 10^6 hectares was used to examine the difference in the volume of the predicted allowable cut

between various scenarios of compartment based and stand based land classification and various scenarios of constraints over time on access, cost, and volume flow. Results of this study support those of Jamnick *et al.* (1990) in that larger allowable cuts (1.31 to 2.10%) are predicted using models with stand based units. Additionally, increases in predicted allowable cut of 1.33 - 2.13% were found if the five independent allowable cut units on the forest were condensed to one allowable cut unit. Removal of the current access constraints led to an increase of predicted cut of 15 - 16%. Maximum cost constraints per period were found to; (a) on average, increase predicted differences from unconstrained stand based versus compartment based analysis, (b) decrease differences found by reducing the number of allowable cut units, and (c) show no meaningful measurable results with access constraint analysis.

Differences in computer time (cost) for determining solutions and differences in data preparation effort were examined. Stand based analysis for this study led to larger problems, which took more computer time to solve. When logging and hauling cost are included in the analysis, data for these stand based methods are more difficult to develop as well. However, in spite of the increased costs and effort, it is estimated that the actual increase in cost is from one third to one half of a cent per cubic meter gain in allowable cut.

Use of the cost constraints led to the ability to develop marginal cost of allowable cut curves to compare stand based and compartment based analyses. Individual managers can use these curves as a policy decision making tool to determine which type of land classification analysis is best (most economical per cubic meter cut) as a function of allowable cut level. These curves can also help the individual manager to set a price policy for the external purchase of wood supplies.

ACKNOWLEDGMENTS

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My gratitude is expressed to Mr. Doug Walker of Weldwood Hinton Division for his cooperation, invaluable suggestions before starting the project and providing inventory data which was essential for the study.

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1. Introduction

1.1 Identification of the Problems

Forest land classification, in terms of stand aggregation versus area aggregation for timber management planning, has been questioned in recent years (Davis and Johnson 1987, Jamnick 1988). This concern has been raised because every aggregation of forest land has different physical, vegetative or developmental characteristics. Because boundary designations of management units to be managed for timber production are arbitrary, the final estimated timber volume depends on the spatial specifications of the aggregated areas. In the short-term and for forests composed of diverse types, the effect of boundary designations may be much more crucial than in forests composed of similar, generally homogeneous characteristics.

Managing a forest usually involves optimizing some goal (usually with an economic component) to best fulfill the need or desires of either the owners or users of the forest. Often the goal is to maximize the present net value, undiscounted value or volume of harvest output. These cases are often solved with constraints on cost, volume, and value per intra time period. In some cases, the goal, however, may be to provide specific harvest levels over time at minimum cost. To handle these kinds of management problems, linear programming (LP) is often used because of its ability to optimize outputs under a variety of constraints (Nelson *et al.* 1988). Classifying the forest land area on the basis of geo-physical or biological characteristics has been essential in making reasonably sized problems for linear programming models for timber management planning. The problem size for an LP timber harvest scheduling model depends largely on the number of timber classes, which is a determining factor for the number of decision variables. This means that as the number of timber type classes increase, the decision variables in an LP model increase proportionately, requiring more costly runs to get a solution. Computer system capacity, as well as computer budget limitations, are crucial factors in setting up mathematical programming problems for optimal timber harvest scheduling of real, large-scale forest management areas.

Two approaches to forest land classification have been considered in the context of linear programming for timber harvest scheduling models. One approach is to use user-defined biological attributes to aggregate similar kinds of homogeneous stands. This kind of grouping is called stand or strata based aggregation and the pieces of this aggregation are usually non-contiguous. The other approach is to use user-defined spatial or economic information, such as drainage, topography, accessibility, merchantability and logging chance, to aggregate areas based on similar characteristics. This kind of grouping is called compartment or area aggregation and the pieces of this aggregation are usually contiguous. For the remainder of this study, the terms stand and compartment will be used to describe these two types of aggregations, respectively.

Growth and yield predictions are normally more reliable for stand based aggregation, because the vegetation types tend to be more homogeneous with this method. Economic predictions or any other predictions, where spatial location is of importance, tend to be more reliable using compartment based aggregation, since each unit is at a known location. The obvious question is what is the trade-off between two sets of forest land classification methods, when they are incorporated into the LP models to be developed for optimal timber harvest scheduling. So far, only one study (Jamnick *et al.* 1990) has dealt with the effects of different forest land classification methods on timber harvest scheduling. Jamnick's (1990) study used a real, approximately 1000 ha forest, sub-divided into 26 stand types and 29 to 85 compartments to identify the differences between stand based aggregation and compartment based aggregation. One should note that the number of compartments were always greater than the number of stand types. In Canada, typical large forest areas managed by companies have many more stand types than compartments.

If one has a large scale industrial forest that has a large number of stand types which are a mixture of site productivities and species, organized into several compartment based working circles[1] each made up by many different compartments[2] : (1) what is the effect on allowable cut of switching from compartment based units to stand based units?, (2) what is the effect of elimination of working circle boundaries?, (3) what are the impacts of access constraints, reflecting road construction, on the optimal timber harvest schedule?, (4) what are the differences between compartment based and stand based forest land classification in regards to data manipulation and computer operation for LP models to be developed for timber management on a large-scale forest land base, with and without economic or access considerations?, and (5) how important are maximum average cost per period constraints related to the answers to the above questions? Do these cost constraints ameliorate or exaggerate the differences as compared to conditions with no cost constraints?.

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[1] A working circle generally represents an independent forest administrative unit, and numerous practical advantages result from stabilization of wood flows within such unit (Ware and Clutter 1971). This is the smallest unit for which a sustainable allowable cut is calculated.

[2] A compartment is an area based subunit of working circle which is a operating management unit usually determined by vegetative characteristics, topographical features and operational considerations.

1.2 Organization of the Thesis

Chapter 2 provides theoretical foundations on forest land aggregation for timber supply modelling and economic timber supply. Chapter 3 includes the objectives of this study, and chapter 4 contains a description of the methodology uniquely developed for this study. Chapter 5 contains descriptions of the case study area, data requirements and linear programming model structure which will be used to evaluate the problems. Chapter 6 contains a presentation of the effects of different forest land aggregation methods and access concerns on allowable cut, associated with timber operating costs and develops the timber supply curve, while chapter 7 contains final remarks.

2. Theoretical Foundations

2.1 Timber Supply Modelling and Forest Land Classification

Linear programming models have been one of the most common ways of evaluating long-term, large-scale timber supply problems. These timber supply problems are typically, as stated earlier, ones that maximize output subject to constraints or minimize costs subject to constraints (In certain special cases, the problems are the dual of each other). Computer-based linear programming models such as

TIMBER RAM (Navon 1971), Max-Million (Clutter 1968), and MUSYC (Johnson and Jones 1979) have focused on determining the optimal allocation of the timber resource.

Computer models have become more complex, as attempts to capture the essence of increasingly complicated, real world situations have evolved. This trend accelerated the development of FORPLAN (Johnson *et al.* 1986), a linear programming based model. FORPLAN was designed to handle other forest-related resources in addition to timber and, it was designed to take into account some spatial concerns by use of allocation zones. Jamnick *et al.* (1990) state that, because of the size of real forest problems, computational limitations allow only a few distinct choices to be considered for each of these allocation zones. Berck and Bible (1984) and Liittschwager and Tcheng (1967) attempted to adopt an efficiency technique, based on decomposition, using the algorithm developed by Dantzig (1963) and Dantzig and Wolfe (1961) in order to reduce the computational burden in terms of time and computer storage.

Many other aspects of optimal timber harvest scheduling, using LP, have been examined. These aspects include optimal harvest scheduling (Curtis 1962, Leak 1964, Loucks 1964, McConnen *et al.* 1966, Beck 1977, Johnson and Scheurman 1977, and Johnson and Tedder 1983), optimal treatment regimes

(Wardle 1965, Buongiorno and Teeguarden 1978), flow constraints (Armstrong *et al.* 1984, Mcquillan 1986, Hof *et al.* 1986, and Allard *et al.* 1988), the effect of the length of planning horizon (Kristoff 1986), economic timber supply analysis (Nautiyal and Pearse 1967, Hrubes and Navon 1976, Michie and McCandless 1986, and Beck *et al.* 1989), the effect of age classes (Barber 1985), forest regulation (Kidd *et al.* 1966 and Hennes *et al.* 1971), budget allocation (Kirby 1978 and Hof *et al.* 1985), industrial forest management planning (Ware and Clutter 1971 and Walker and Lougheed 1985) and multiple use (Leuschner *et al.* 1975, Steuer and Schuler 1978, Mendoza *et al.* 1987, and Paredes and Brodie 1988).

In terms of size of area processed, Ware and Clutter (1971), from their empirical study, state that the aggregated total cutting schedule for several working circles is obviously a suboptimization in comparison to the schedule that would be prepared by scheduling the entire forest holding as a single unit. As well, they explain, based on past practical experience, the loss in present worth caused by the subdivisions of the forest as independent units can be negligible and the use of working circles as independent scheduling units can be justified.

Only recently, however, has anyone paid much attention to the effects of forest land classification (stand based versus compartment based aggregation). Davis and Johnson (1987) state that forest land classification has received little attention historically, despite it being an important component in the determination of the number of decision variables in an LP harvest scheduling model, and that the most common way of aggregating inventory data for LP model use has been by use of stand type strata. This stand based aggregation tends to ignore spatial organization of stands and an analysis based on it produces a management plan that fails to account for the spatial dimension (Chappelle *et al.* 1976). Hokans (1983) states that such an omission may be important to private as well as public forest management and costs of moving harvesting crews and administering widely separated sales make spatial considerations important to commercial endeavors. Mealey *et al.* (1982) indicate that long-term forest-wide harvest level calculated by stand based aggregation tends to overstate timber harvest capability when additional multiple use objectives for the other uses besides timber must be met. Armel (1986) questioned how the allocations represented by the standard, stratum-based FORPLAN solution, in which homogeneous forest units are aggregated, can be implemented within a heterogeneous area represented by a given parcel of national forest land, when the actual operational considerations such as wildlife habitats and harvest adjacency constraints are necessary. There have been some attempts to overcome the above disadvantages of stand based aggregation use in LP models so that the long-term forest wide planning results can be integrated into site specific project planning. These tools are a simulated stand selection method, a random search algorithm and a mixed integer programming or heuristic procedures (Hokans 1983, Tanke 1985, Gross *et al.* 1988, Meneghin *et al.* 1988, Connelly 1988, Nelson *et al.* 1988, O'Hara *et al.* 1989, Nelson *et al.* 1990, Torres-Rojo *et al.* 1990). With the advent of larger computers and geographic information systems (GIS), interest has revived regarding the effects of area based land classification systems. In direct comparisons of stand based aggregation with compartment based aggregation, Jamnick *et al.* (1990) state that forest land classification systems and the number of management choices considered in LP timber harvest scheduling models significantly influence the optimal harvest schedules. They found that: (1) as the management unit size increases, the objective function values decrease, (2) models using stand based decision variables have larger objective function values than models using compartment based management unit decision variables, and (3) as the number of management choices increase, the difference in objective function values between stand based and compartment based management unit models diminishes. Further, they found that the number of management choices was more important than the size of management unit or type of land classification unit in determining optimal present values.

2.2 Economic Timber Supply Development

Under a model of competitive supply, economic theory states that profit is maximized where marginal revenue (MR) equals marginal cost (MC), where the MC curve intersects the MR curve from below. Since the individual firm, as a perfect-competitor, can not affect price by output levels (price-taker), price is equal to marginal revenue. Marginal cost is the extra cost of producing each additional unit of output. Total profit is the difference between total revenue and total cost. Total profit increases as long as the extra revenue brought in from the last unit sold is greater than the extra cost incurred in producing the last unit and is maximized when there is no longer any extra profit to be earned by selling extra output. Therefore, the individual company will produce all units of output with a marginal cost less than price, where maximum profit equilibrium (price = marginal cost) arises (Samuelson 1980).

Applying this theory to a forest operation, and looking only at wood supply, price is essentially fixed in the short run and is given by what the company has determined is the value of wood delivered to the mill. This price would be based on the current market value of the wood products produced, minus processing costs, any fees or charges levied and some type of reasonable profit margin. Marginal cost of wood delivered to the mill is primarily a function of logging and hauling costs.

A marginal cost curve of wood procurement can be derived using a timber supply linear programming based model. The usual way to do this is to minimize cost subject to maintaining a certain level of timber production over time. As a dual problem to this, an exact opposite formulation can be made by maximizing timber output subject to a constraint on timber production cost over time. Once the marginal cost (timber supply) curve is derived, the following considerations can be made.

In order to increase wood output, additional timber would be required and this timber would have to come from longer distances or modified utilization standards, increasing the marginal cost of supplying timber. However, it should be noted that timber may be obtained from sources other than the company's own land. Wood chips or logs could be purchased from other companies or contract loggers. At this point, the first question to a company is what quantities to produce itself and what quantities to purchase. This question can be answered by examining the individual marginal cost curve. If price is greater than the marginal cost of obtaining the extra wood, the company would produce or buy any wood less than this price. The second question would be whether it is worthwhile for the company to increase output to this level. To do this, the company would need to know what the industry's aggregate timber supply curve is. This would be obtained by horizontally summing the individual supply curves. All of the above assumes that the company has the ability to vary levels of production to the amount where maximum profit equilibrium occurs. In this thesis, marginal cost curves in both stand and compartment configurations are developed and compared as part of the overall valuation of boundary designations.

3 Objectives of the Study

To look at the concerns expressed in the previous sections, six main objectives were established for this study;

(1) Identify the effects of working circle boundaries, within a large scale forest land base, on the allowable cut (both direction of change and magnitude of change), using both compartment based land units and stand based units,

(2) Identify the effect of compartment based unit boundaries, within a large scale forest land base, on the allowable cut (both direction of change and magnitude of change) compared to the allowable cut from the forest using stand based units,

(3) Examine the effects of access constraints on the allowable cut (both direction of change and magnitude of change), in order to illustrate the importance of forest road building schedules for timber management,

(4) Investigate how the different forest land classification methods differ in relation to data aggregation and computational efficiency for LP models to be developed for each case,

(5) Demonstrate how maximum average cost level constraints per planning period impact on objectives 1 to 3 above,

(6) Develop timber supply curves, using marginal costs which are derived from stand and compartment analyses.

4. Methodology

4.1 Model Development

The overall approach of this study can be viewed simply by looking at Table 4.1-1. The table indicates 8 different sets of computer runs based on having working circle boundaries considered (Y) or not considered (N), compartment boundaries considered (Y) or not considered (N), and capital access forest road building concerns considered (Y) or not considered (N). Models 1 to 4, that do not include working circle boundaries, need only one LP run to determine a harvest level for the forest. Models 5 to 8, where working circle boundaries are considered, need one LP run for each working circle in the forest to determine a forest wide harvest level. With each of the eight possible models, multiple sets of runs are needed, with different maximum average cost per period constraint levels set, so as to determine the effect of maximum average cost per period on the analyses.

Table 4.1-1. Table of models to be considered

Models	Working circle boundaries	Compartment boundaries	Access concerns	# of LP runs to get forest wide AAC
1	N	N	N	1
2	N	N	Y	1
3	N	Y	N	1
4	N	Y	Y	1
5	Y	N	N	X
6	Y	N	Y	X
7	Y	Y	N	X
8	Y	Y	Y	X

X = # of working circles in forest

4.2 Design of Analysis

Comparison of any pair of model groups (1 with 5, 2 with 6, 3 with 7, or 4 with 8) will allow analyses of and identification of any major reductions in allowable cut due to working circle boundaries. Comparison of any pair of model groups (1 and 3, 2 and 4, 5 and 7, or 6 and 8) will allow examination of the effects of compartment boundaries on allowable cut. Finally, any pair in the sets (1 and 2, 3 and 4, 5 and 6, or 7 and 8) will allow analysis of any major reductions in allowable cut due to the proposed capital forest road building schedule.

5. Case Study

5.1 Introduction

This case study was designed to identify how different timber management boundary designations and forest road access constraints affect the allowable annual cut (AAC), recognizing the current timber management strategies of Weldwood's forest management agreement (FMA) area near Hinton, Alberta. The company has divided the FMA into 5 working circles. Each working circle is a major contiguous land area separated from other working circles by rivers and other major topographical features. An even-flow AAC is calculated for each working circle. If an even-flow AAC were calculated for the whole forest, it is likely to be larger than the sum of the even-flow AACs from the 5 working circles because even-flow from the whole forest does not guarantee even-flow from each working circle (refer to Ware and Clutter 1971). The company has further divided the 5 working circles into 153 compartments[1]. These compartments are contiguous areas of forest land which the company feels have roughly similiar accessibility and broad forest maturity classes (20 - 40 years of age ranges). Each compartment is made up of many stand types in terms of species, stocking, and site index. Since Jamnick *et al.* (1990) have shown that stand based aggregation tends to give larger allowable cuts than compartment based aggregation, there is a possibility that use of compartments may be restricting allowable cuts. Since both working circle and compartment boundaries have been shown to restrict allowable cuts elsewhere, there is a strong possibility that working circle and compartment boundaries, used as forest subdivisions within the FMA, are restricting the sustainable harvest levels.

One major concern for the company is to maintain a sustainable harvest level, with relatively stable, acceptable annual operating costs for timber production. Thus, the

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[1] The company has designated 135 compartments, but 18 of these are in the process of being harvested, and thus had to be split into 2 compartments (harvested and not harvested) for use in this study.

company needs to estimate sustainable harvest levels over the planning horizon at various maximum average cost levels and determine the effects of working circle boundaries, compartment boundaries and access constraints on these harvest levels. This study will attempt to determine the effects of each of these three constraints independently. The company can respond to significant boundary effects by modifying boundary designations or to significant access constraints by modifying their capital road building plans.

The answers to the problems above will be explored and evaluated through a case study of the FMA area, using the MUSYC (Johnson and Jones 1979) linear programming based model, which has been modified at the University of Alberta (Kristoff *et al.* 1987) to handle larger problems and to run on an IBM compatible main frame computer.

5.2 Description of the Study Area

The study area contains approximately 10^6 hectares of forest land located on the eastern slope of the Rocky Mountains. Figure 5.2-1 is a map of the study area and shows its location within Alberta. The net manageable area for conifer timber production is 737,700 ha. The main forest cover types are composed of white spruce (*Picea glauca (Moench) Voss*), black spruce (*Picea mariana (Mill.) B.S.P.*), lodgepole pine (*Pinus contorta Dougl.*), alpine fir (*Abies lasiocarpa (Hook.) Nutt.*) and mixed hardwood-softwood stands, where the hardwood is some mix of trembling aspen (*Populus tremuloides Michx.*), balsam poplar (*Populus balsamifera L.*) and paper birch (*Betula papyrifera Marsh.*). Most of the area is well stocked and consists of the operating compartments, ranging in size from 150 to 23480 ha. The exact numbers of these subdivisions for the whole management area are shown in Table 5.2-1.

5.3 Yield Data

The 2,502 stand types were assigned by the company to one of 60 yield streams. Each of the 60 yield streams represented stands in terms of species, age, site and stocking and was developed by the company by analyzing 3,000 permanent sample plots (PSP) in the case study area. The stand based timber yield data is appended in Appendix I.

The yield streams reflect only one type of harvesting - clearcut. The company regeneration results per yield type are reflected in specific regeneration yield streams as well. Since the only management prescription considered by the company is clearcut and regenerate, the only prescription used in this study is clearcut and regenerate.

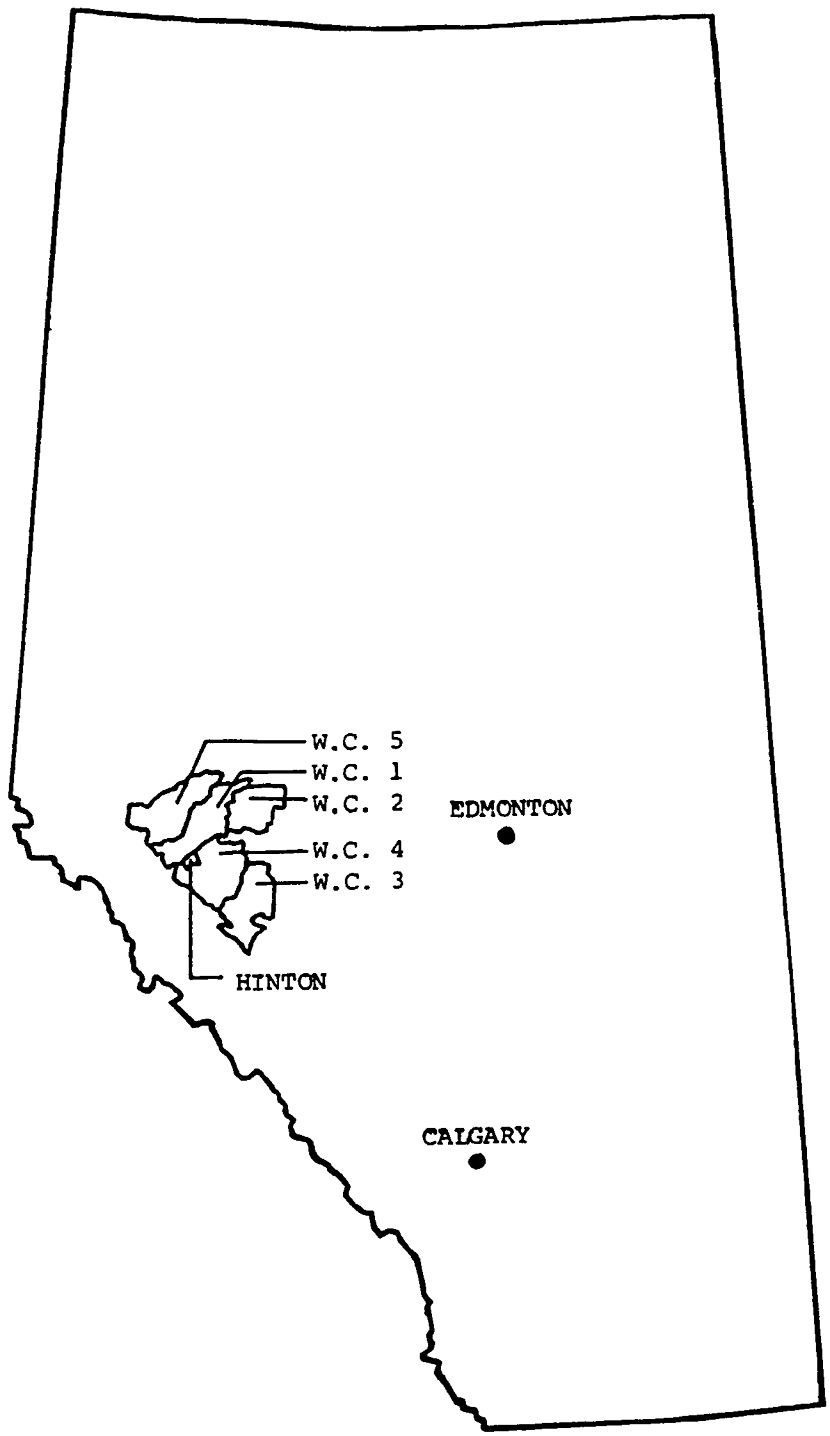

Figure 5.2-1 Map of Weldwood FMA in Alberta

Table 5.2-1. The number of subdivisions of the study area

Working Circles	Compartments	Stands
W. C. 1	37	601
W. C. 2	29	447
W. C. 3	20	422
W. C. 4	30	522
W. C. 5	37	510
Total	153	2,502

For each compartment, it was necessary to calculate an area weighted average age and an area weighted average timber yield table for the unit. In order to calculate the average ages and yield estimates of compartments, the following equations were used for combining stands within each compartment;

$$Y_c = \frac{\sum_{i=1}^{s} a_i Y_i}{\sum_{i=1}^{s} a_i} \qquad (1)$$

for each age class

Y_c: the area weighted average per ha yield for each compartment

Y_i: yield per ha in stand i at each age class s : the number of stands within a compartment

a_i: area of stand i in hectares

$$AA_c = \frac{\sum_{i=1}^{s} a_i A_i}{\sum_{i=1}^{s} a_i} \qquad (2)$$

AA_c: the area weighted average age for each compartment

A_i : the age of stand i

A sample set of data and resulting average ages and average yield tables for the compartments in working circle 1 is given in Appendix II.

5.4 Cost Data

Logging and hauling costs from woodlands to the mill were estimated using the models developed for economic timber supply analysis in Alberta (Beck *et al.* 1989). These cost functions represent an industry wide average for Alberta and are used to demonstrate the process, rather than using proprietary data for Weldwood. The woodlands costs are a function of the natural logarithm of average tree volume and the truck to mill costs are expressed as a function of total haul distance and the inverse of standard utilization stump diameter. In order to calculate average tree volume of each timber yield stream at the stand level, the volume of each yield stream by age class was divided by the number of tree stems per ha that are derived from the PSP data of the study area (Appendix III and IV). Average haul distances to the mill were estimated for each compartment and grouped into 20 Km class intervals of haul distance for economic analyses for both stand and compartment analyses (Appendix V). The standard utilization stump diameter was assumed to be an average of 15 cm diameter inside bark as measured 30 cm above ground level. The following equation was used to calculate the average delivered wood costs of compartment based management units;

$$C_c = \frac{\sum_{i=1}^{s} a_i C_i}{\sum_{i=1}^{s} a_i} \quad - (3)$$

for each age class

C_c: the area weighted average per ha cost for each compartment

C_i: cost per ha in stand i at each age class

s : the number of stands within a compartment

a_i: area of stand i in hectares

An example of the calculations for working circle 1 is given in Appendix VI.

5.5 Data Aggregation

5.5.1 Stand Based Analysis

With stand based analysis, a land unit is classified in terms of its' forest vegetation being of a particular age and is associated with a particular yield function. In this case study, there are 60 (Table 5.5-1) different yield functions, each having a possible 16 different age classes (0 to 150 years in 10 year class intervals). Since not all age classes are present for all yield functions, enumeration yields 407 (Table 5.5-2) different possible timber land classes with stand based data aggregation for Model 1, with no economic or access concerns. If one now looks at the 407 different classes in terms of the cost of logging and hauling products to the mill, the 407 classes expand to 1064 timber classes (Table 5.5-2) representing different forest types and ages and different distances from the mill. Additionally, if access concerns are taken into account, stands of the same type, same age and same total haul distance must be classified according to accessibility to the current and proposed future road system (to simulate the capital road building schedule of the company), then the 1064 classes must be expanded to 2,502 timber classes (Table 5.5-2) for Model 2.

If the forest is broken down into sub units (working

Table 5.5-1. The number of yield tables required for the selected models

	Timber yield tables		Economic tables	
	For exist.	For regen.	For exist.	For regen.
Stand based management units for whole area Model 1 & 2	60	60	284	101
Cmpt based management units for whole area Model 3 & 4	153	153	153	153
Stand based management units for each W. C. Model 5 & 6				
W. C. 1	60	60	125	42
W. C. 2	60	60	114	38
W. C. 3	60	60	147	54
W. C. 4	60	60	180	65
W. C. 5	60	60	123	43
Cmpt based management units for each W. C. Model 7 & 8				
W. C. 1	37	37	37	37
W. C. 2	29	29	29	29
W. C. 3	20	20	20	20
W. C. 4	30	30	30	30
W. C. 5	37	37	37	37

Cmpt: Compartment
exist.:existing stands
regen.:regeneration stands

Table 5.5-2. The possible number of timber classes to be considered

	Alternative 1	Alternative 2	Alternative 3
	Without logging & haul cost or access constraints	With logging & hauling costs	With logging and haul cost access and constraints
Stand based management units for whole forest area	(1) 407	(1) 1064	(2) 2502
Cmpt based management units for whole forest area	(3) 153	(3) 153	(4) 153
stand based management units for each working circles	(5)	(5)	(6)
W. C. 1	199	310	601
W. C. 2	167	264	447
W. C. 3	193	313	422
W. C. 4	204	391	522
W. C. 5	164	275	510
Cmpt based management units for each working circles	(7)	(7)	(8)
W. C. 1	37	37	37
W. C. 2	29	29	29
W. C. 3	20	20	20
W. C. 4	30	30	30
W. C. 5	37	37	37

( ) indicates the Table 4.1-1 model number.
Cmpt: Compartment

circles), a smaller, but similar pattern of increased number of forest classes occurs which can be seen in Table 5.5-2 for Models 5 and 6. An example of the classes for Model 5, Alternative 2, working circle 1 is given in Appendix VII.

5.5.2 Compartment Based Analysis

For this analysis, the forest has been divided into 153 compartments. Each compartment unit is considered to grow by a yield table that is an area weighted average of the stands included within that compartment and the age of the unit is the area weighted age of the stands within the unit. These processes were described in Sections 5.3 and 5.4. Since each compartment has only one age, there is no expansion of the 153 yield table types (Table 5.5-1) to get timber classes for Alternative 1 in Table 5.5-2.

As well, since the location of the compartment is fixed in one place, there is no necessary expansion of the timber classes in Alternative 1 to go to Alternative 2 or 3. Each compartment has a unique average logging and hauling cost and each is either accessible or not at any point in time. Thus, Models 3 and 4 from Table 5.5-2 use only 153 timber classes. Similar reasoning maintains the number of timber classes at a smaller fixed number for Models 7 and 8, when the forest is broken into 5 working circles each with a smaller number of compartments (Table 5.5-2).

5.6 MUSYC as a Tool

Potential allowable cuts were calculated using the MUSYC linear programming model, to maximize timber volume output (m^3)[1] for a 150-year planning horizon of fifteen 10-year planning periods, and subject to the following constraints;

(1) maximum average cost per period for the planning horizon,

(2) even-flow (cut in period i+1 should be equal to cut in period i, for all i) or
non-declining yield (cut in period i+1 is greater than or equal to cut in period i, for all i),

(3) accessibilities reflecting the current forest road building schedule

The maximum per period cost constraints were chosen so as to ensure an upper limit of monetary cost per period for the company's timber operation for the whole planning horizon. The results of these constrained runs can then be used to obtain the marginal cost of allowable cuts to derive an individual

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[1] MUSYC could have handled a formulation of minimize costs subject to maintaining a certain timber output over time, but AFS institutional policy constraints dictates the objective of maximizing the AAC subject to cost constraints. When the constraints are all confining, these two problems are the dual of each other.

timber supply curve. Even-flow harvest policy reflected the timber operation policy of the Alberta Forest Service. Since the even-flow harvest policy was a strict per period constraint for the level of timber harvest, a non-declining yield constraint was also used to examine a more flexible harvest flow policy. The access constraints are in effect for 4 decades, but are totally removed after 5 decades. MUSYC linear programming models developed for this study are all based on a Model I (Johnson and Scheurman 1977) formulation.

Assuming computer funding and computer memory size are not limiting, the modified MUSYC model (Kristoff *et al.* 1987) must be further modified to handle all possible run sets for the various scenarios by extending the upper limits of parameters (Tables 5.5-1 and 5.5-2). The changes in numbers of parameters for the MUSYC model are referred to in Table 5.6-1.

Table 5.6-1. Modifications to the MUSYC model

List of parameters	Previous version at U. of A.	Modified
Land classes	15	42
Timber classes	400	3000
Regeneration classes	100	3000
Management alternatives for existing stands	400	3000
Management alternatives for regeneration stands	200	3000
Existing yield tables	100	300
Regeneration yield tables	100	300
Economic tables for existing stands	50	300
Economic tables for regeneration stands	50	300

6. Results and Discussions

This section describes the results from the models developed for this study. First, using both compartment based forest units and stand based forest units, the impacts of working circle and compartment boundaries and access constraints on the allowable cuts are discussed. Second, the model sizes, computational difficulties, data aggregation problems and computer problems are discussed in relation to the different models used in this study. Third, the effects of maximum cost constraints per period on the allowable cut differences above are discussed. Finally, the timber supply curves using the average marginal cost are developed.

Of the eight model types or possible types of runs, it was found that, in spite of having modified MUSYC to handle all of these runs, the University of Alberta computer system LP optimization code could not handle all of the Models. Runs were completed for Models 3, 4, 5, 7, and 8 and Model 1 without incorporating economic and access constraints. The computer LP solution code was unable, due to memory size, to accept Model 1 with economic factors and Models 2 and 6, which consider both economic factors and access concerns. Therefore, the impacts of working circle and compartment boundaries and access constraints on the optimal timber harvest scheduling are examined using Models 3, 4, 5, 7, and 8 and Model 1 without economic or access concerns.

Examining the impact of working circle boundaries on allowable cut, using stand based Models 1 and 5, or compartment based Models 3 and 7, or 4 and 8, demonstrates the effects of more flexibility to meet even-flow requirements by expanding the size of allowable cut unit.

Examining the effect of compartment boundaries on timber harvest scheduling, looking at Models 1 and 3, or 5 and 7, provides any evidence of the real influences of forest land classification methods on timber production. In each paired example above, one uses stands and the other uses compartments as the management units.

The impact of access constraints on optimal timber harvesting are analyzed by comparing Models 3 and 4, or 7 and 8. These pairs evaluate the importance of the forest road access network on the level of optimal timber harvesting and examine the interaction effects of access constraints with both working circle and compartment boundaries.

Even though solutions to the complete Model 1, or Models 2 and 6 were unavailable due to model sizes, it is clear from the above that each of the first three objectives could still be analyzed by at least 2 different sets of models.

Finally, the effects of maximum average cost per period on the above analyses was examined by the multiple sets of runs of each model group, developed sequentially with different maximum average cost per period constraints. From analyses of these runs, marginal cost of allowable cut curves were developed.

6.1 The Effect of Working Circle Boundaries on Allowable Cut with no Access Constraints

6.1.1 At the Compartment Level

This sub-section illustrates the impact of working circle (consisting of area-based management units) boundaries on the allowable cut by comparing Models 3 and 7. The summarized results are shown in Table 6.1-1.

Comparing Model 3 with no working circles with Model 7 with working circle boundaries, there is a 2.13% increase in allowable cut with an even-flow harvest policy. Using a non-declining yield policy rather than even-flow gives an average increase of only 0.95% in allowable cut over the planning horizon, but gives a 2.13% increase in periods 1 to 11. In other words, removing the current working circle boundaries, gives an average increase of 0.95% to 2.13% in the level of timber volume to be harvested per period for the whole planning horizon.

Table 6.1-1.

The effect of working circle boundaries on AAC(10^6 m^3) with no access constraints using compartments

Even-flow constraint

Model 3 (No working circle boundaries, compartment boundaries):

Total allowable cut for the planning horizon:	226.345 million m^3
AAC per period :	15.090 million m^3
Cut increased per period:	2.13 %

Model 7 (Working circle boundaries, compartment boundaries):

	W.C. 1	W.C. 2	W.C. 3	W.C. 4	W.C. 5
Total	49.876	34.269	44.156	44.546	48.774
AAC	3.325	2.285	2.944	2.970	3.252

Total allowable cut for the planning horizon:	221.621 million m^3
Total AAC per period :	14.776 million m^3

Non-declining constraint

Model 3:

Total allowable cut for the planning horizon:	226.345 million m^3
AAC per period :	15.090 million m^3
Ave. cut increased per period:	0.95 %
1st to 11th periods cut increase:	2.13 %

Model 7:

	W.C. 1	W.C. 2	W.C. 3	W.C. 4	W.C. 5
Total	49.876	34.269	45.846	44.546	49.679
Ave. AAC	3.325	2.285	3.056	2.970	3.312
Cut in per. 1st to 11th	3.325	2.285	2.944	2.970	3.252

Total allowable cut for the planning horizon:	224.216 million m^3
Total AAC per period :	14.948 million m^3

6.1.2 At the Stand Level

This sub-section demonstrates the impact of working circle boundaries on the allowable cut by comparing Models 1 and 5 (consisting of stand-based units). The results are summarized in Table 6.1-2. With Model 1, without working circle boundaries, there is a 1.33% increase in allowable cut, given even-flow harvest policy. In other words, provided that working circle boundaries are present, removing the working circle boundaries gives a 1.33% increment in the allowable cut per period.

Table 6.1-2.

The effect of working circle boundaries on AAC(10^6 m^3) with no access constraints using stands

Even-flow policy

Model 1 (No working circle boundaries, No compartment boundaries):					
Total allowable cut for the planning horizon:				229.311 million m^3	
AAC per period :				15.287 million m^3	
Cut increased per period:				1.33 %	
Model 5 (Working circle boundaries, No compartment boundaries):					
	W.C.1	W.C.2	W.C.3	W.C.4	W.C.5
Total	51.548	35.407	45.194	45.047	49.091
AAC	3.437	2.360	3.013	3.003	3.273
Total allowable cut for the planning horizon:				226.287 million m^3	
Total AAC per period:				15.086 million m^3	

6.2 The Effect of Working Circle Boundaries on Allowable Cut with Access Constraints

In this case, access constraints were added to the compartment analysis above, and one can see the results by comparing Models 4 and 8. The summary of the results are in Table 6.2-1. There is an 8.89% increase in allowable cut, given even-flow harvest policy, if working circle boundaries are removed. Since the previous results with no access constraints gave a 1.33%, or 2.13% increase, there is an obvious possible interaction effect here of access with working circle boundaries on the allowable cut.

Additional insight can be gained by comparing Model 7 from the previous analysis in section 6.1.1 with Model 8 of this analysis, given even-flow harvest policy. It becomes very obvious with this examination by working circle that access constraints have minor effects in working circles 1 and 2, major effects in working circles 3 and 4, and a very major effect in working circle 5.

Upon careful analysis of the individual runs, it was found that the even-flow requirement and restricted initial access in each of these three latter units was restricting harvest so much that considerable land base in each working circle was not being harvested. Actual operations would either open access earlier or allow a higher harvest at a later date.

Table 6.2-1.

The effect of working circle boundaries on AAC(10^6 m^3) with access constraints

Even-flow constraint

Model 4 (No working circle boundaries, compartment boundaries):

Total allowable cut for the planning horizon:	196.031 million m^3
AAC per period :	13.069 million m^3
Cut increased per period:	8.89 %

Model 8 (Working circle boundaries, compartment boundaries):

	W.C. 1	W.C. 2	W.C. 3	W.C. 4	W.C. 5
Total	49.505	33.910	32.332	36.280	28.011
AAC	3.300	2.261	2.155	2.419	1.867

Total allowable cut for the planning horizon:	180.038 million m^3
Total AAC per period :	12.002 million m^3

Non-declining constraint

Model 4:

Total allowable cut for the planning horizon:	220.898 million m^3
Average AAC per period :	14.727 million m^3
1st period cut :	9.518 million m^3
2nd - 3rd period cut :	15.099 million m^3
Ave. cut increased per period:	1.02 %
1st period cut increase:	-7.23 %
2nd period cut increase:	18.50 %
3rd period cut increase:	16.16 %

Model 8:

	W.C. 1	W.C. 2	W.C. 3	W.C. 4	W.C. 5
Total	49.505	33.910	44.514	44.080	46.659
Ave. AAC	3.300	2.261	2.968	2.939	3.111
1st period cut			1.743	1.431	1.525
2nd period cut			2.617	2.980	1.584
3rd period cut			2.873	2.980	1.584

Total allowable cut for the planning horizon:	218.668 million m^3
Average AAC per period :	14.579 million m^3

Thus, the 8.89% increase here is not realistic and overestimates the increase by about 6.76 to 7.56% (8.89-2.13% or 8.89-1.33%). The 1.33 % to 2.13 % increase demonstrated earlier is a more probable figure for the effect of working circle boundaries.

Given a non-declining yield harvest policy, these effects disappear because of the gradual increases of the allowable cuts at later periods. The average difference for the planning horizon is an increase of only 1.02%. However, the difference is -7.23% in period 1, 18.50% in period 2 and 16.16% in period 3.

6.3 The Effect of Compartment Boundaries on Allowable Cut with no Access Constraints

6.3.1 At the Level of Whole Forest Area

The impact of compartment boundaries without working circles on the allowable cut can be examined by comparing Models 1 and 3, where Model 1 consists of stand based units and Model 3 consists of compartment based management units. The results are summarized in Table 6.3-1. The comparison shows a 1.31% increase in the allowable cut when the compartment boundaries are removed at the level of the whole forest area.

Table 6.3-1.

The effect of compartment boundaries on AAC(10^6 m^3) with no access constraints or working circles

Even-flow policy	
Model 1 (No compartment boundaries):	
Total allowable cut for the planning horizon:	229.311 million m^3
AAC per period:	15.287 million m^3
Cut increased per period:	1.31 %
Model 3 (Compartment boundaries):	
Total allowable cut for the planning horizon:	226.345 million m^3
AAC per period:	15.090 million m^3

6.3.2 At the Level of Working Circles

The impact of compartment boundaries within working circles on the level of timber harvesting can be analyzed by comparing Models 5 and 7, where Model 5 is composed of stand based management units and Model 7 of compartment based management units. The summarized results are shown in Table 6.3-2. There is a 2.10% increase of the total allowable cut per period when the compartment boundaries are removed. This result, compared to the previous analysis at the level of the whole forest area, gives a slightly higher average increase because of a probable interaction effect of working circles on the compartment boundary analysis. Comparisons of individual working circles indicates that the 2.10% increase overall is not uniform by working circle. Individual working circle increases vary from 0.65% to 3.37%. It appears that compartment boundaries are less important in working circles 4 and 5 and more important in working circles 1 to 3.

Table 6.3-2.

The effect of compartment boundaries on AAC(10^6 m^3) with no access constraints using working circles

Even-flow constraint

Model 5 (No compartment boundaries, no access constraints):

	W.C. 1	W.C. 2	W.C. 3	W.C. 4	W.C. 5
Total	51.548	35.407	45.194	45.047	49.091
AAC	3.437	2.360	3.013	3.003	3.273
% Cut Increase	3.37	3.28	2.34	1.11	0.65

Total allowable cut for the planning horizon: 226.287 million m^3
Total AAC per period : 15.086 million m^3

Ave. cut increased per period: 2.10 %

Model 7 (Compartment boundaries, no access constraints):

	W.C. 1	W.C. 2	W.C. 3	W.C. 4	W.C. 5
Total	49.876	34.269	44.156	44.546	48.774
AAC	3.325	2.285	2.944	2.970	3.252

Total allowable cut for the planning horizon: 221.621 million m^3
Total AAC per period : 14.776 million m^3

6.4 The Effect of Access Constraints on Allowable Cut with no Working Circle Boundaries

The impact of access constraints on allowable cut without working circle boundaries is analyzed by examining Models 3 and 4, where Model 3 has no access restrictions and Model 4 does. The summary of the results is presented in Table 6.4-1.

These models, with an even-flow harvest policy, show a 15.46% difference which indicates that there is a significant relationship of access limits with the timber cutting level. It implies a large potential increase in the allowable cut when the access constraints are removed. Upon examination of the Model 4 runs, one finds that the large differences due to access constraints are caused by; (a) cuts in early periods being limited due to access concerns and (b) cuts in later periods being limited by the even-flow harvest policy in that they can not be larger than the early period harvests. This leads to a situation where not all of the FMA is used in Model 4. A possible solution to this would be to look at Models 3 and 4 using a non-declining yield constraint.

Model 3, using a non-declining yield constraint produces a solution which is the same as the even-flow version above and gives a 2.46% increase in the allowable cut, compared with Model 4 with access constraints and non-declining yield constraints. However, this Model 4, non-declining yield run, is probably not acceptable from the manager's point of view because of the severe reduction of the allowable cut in the first period of Model 4 to only 9.518 million m^3.

Table 6.4-1.

The effect of access constraints on AAC(10^6 m^3) with no working circle boundaries

Even-flow constraint

Model 3 (No access constraints, compartment boundaries):	
Total allowable cut for the planning horizon:	226.345 million m^3
AAC per period :	15.090 million m^3
Cut increased per period:	15.46 %
Model 4 (Access constraints, compartment boundaries):	
Total allowable cut for the planning horizon:	196.031 million m^3
AAC per period :	13.069 million m^3

Non-declining constraint

Model 3:	
Total allowable cut for the planning horizon:	226.345 million m^3
AAC per period :	15.090 million m^3
Ave. cut increased per period:	2.46 %
1st period cut increase :	58.54 %
Model 4:	
Total allowable cut for the planning horizon:	220.898 million m^3
Average AAC per period :	14.727 million m^3
1st period cut :	9.518 million m^3

6.5 The Effect of Access Constraints on Allowable Cut using Working Circle Boundaries

The results from Models 7 and 8 allow analysis of the impact of access constraints on allowable cut, with working circle boundaries. The summarized results are in Table 6.5-1.

The total 23.11% difference in the levels of optimal timber harvesting between the models with access limits and the ones without access restrictions, given an even-flow harvest policy, indicates that there is a strong significant relationship of the access limits with the allowable cut.

However, in the discussion in Section 6.2 above, it was noted that the runs for Model 8 for working circles 3, 4, and 5 have major reductions for the whole planning horizon due to unrealistic access concerns. In that case, the overall reduction was overestimated to be about 6.76% to 7.56%. It is interesting to note that, if the 23.11% estimated increase in this case is reduced by these amounts, the resulting 15.55 to 16.35% is very close to the 15.46% increase estimated in section 6.4. Thus, it appears that access constraints are causing a real reduction in allowable cut of about 15 to 16%, given an even-flow harvest policy.

The models, with non-declining constraints, show only 2.53% difference between the average volume outputs. However,

Table 6.5-1.
The effect of access constraints on AAC(10^6 m^3) using working circle boundaries

Even-flow constraint

Model 7 (No access constraints, compartment boundaries):

	W.C. 1	W.C. 2	W.C. 3	W.C. 4	W.C.5
Total	49.876	34.269	44.156	44.546	48.774
AAC	3.325	2.285	2.944	2.970	3.252
% Cut Increase	0.76	1.06	36.61	22.78	74.18

Total allowable cut for the planning horizon: 221.621 million m^3
Total AAC per period : 14.776 million m^3

Ave. cut increased per period: 23.11 %

Model 8 (Access constraints, compartment boundaries):

	W.C. 1	W.C. 2	W.C. 3	W.C. 4	W.C. 5
Total	49.505	33.910	32.332	36.280	28.011
AAC	3.300	2.261	2.155	2.419	1.867

Total allowable cut for the planning horizon: 180.038 million m^3
Total AAC per period : 12.002 million m^3

Non-declining constraint

Model 7:

	W.C. 1	W.C. 2	W.C. 3	W.C. 4	W.C. 5
Total	49.876	34.269	45.846	44.546	49.679
Ave. AAC	3.325	2.285	3.056	2.970	3.312
1st to 3rd period cut			2.944		3.252

Total allowable cut for the planning horizon: 224.216 million m^3
Average AAC per period : 14.948 million m^3

Ave. cut increased per period: 2.53 %
1st period cut increase : 43.84 %
2nd period cut increase : 15.82 %
3rd period cut increase : 13.54 %

Model 8:

	W.C. 1	W.C. 2	W.C. 3	W.C. 4	W.C. 5
Total	49.505	33.910	44.514	44.080	46.659
Ave. AAC	3.300	2.261	2.968	2.939	3.111
1st period cut			1.743	1.431	1.525
2nd period cut			2.617	2.980	1.584
3rd period cut			2.873	2.980	1.584

Total allowable cut for the planning horizon: 218.668 million m^3
Average AAC per period : 14.579 million m^3

the result is probably not acceptable to Weldwood because of the severe reductions of the timber volume cuts during the first to third periods with working circles 3, 4, and 5 in model group 8 because of access constraints.

6.6 Model size, Data Aggregation, Computing Relationships of the Various Models

From Tables 5.5-1 and 5.5-2, it is clear for this study that compartment based models (3, 4, 7, and 8) have fewer timber classes and fewer yield tables needed than models (1, 2, 5, and 6) that are stand based. Timber yield tables are more easily produced for the stand based models whereas economic yield tables are more easily produced for the compartment based models.

However, the differences between the two types of models in this study are really significant when one examines the matrix size of equivalent linear programs to determine optimal AAC's. Table 6.6-1 gives the matrix size of five Model 5 formulations and five Model 7 formulations. When these two models are used to examine the effects of compartment boundaries, for working circle one, the matrix is 355 rows by 17,682 columns or 6,277,110 cells for Model 5 while, for Model 7, the same working circle matrix is 82 rows by 1,948 columns or 159,736 cells. This means that Model 5 is 39 times the size of Model 7 for working circle 1. Thus, the models using stand based management units which require many more constraints (rows) and many more decision variables (columns) will require a large computer capacity and be more expensive to solve. The LP matrix size for Model 1 with economic factors and Models 2 and 6 were too large for the solution code on the computer to produce solutions. As well, each of the 15 Model 5 solutions cost an average of $300 to $500 to obtain, while 25 Model 7 solutions varied from $9 to $29 each. However, as demonstrated in the section 6.10, the increased cost for analysis in this case study is on the order of one cent or less per cubic meter of the allowable cut and thus is probably not significant in the decision to use compartment based or stand based units. It is clear that it is easier for the analyst to use compartment based analyses when economic constraints and access concerns are part of the problem, but in the case study, this ease came at a cost of potential loss in allowable cut of 1.31 - 2.10 percent.

Table 6.6-1.
The differences of the problem sizes between two forest land classification methods within working circles

Land classes / Working circles	Model 5 Stand based		Model 7 Compartment based	
	Rows	Columns	Rows	Columns
W. C. 1	355	17682	82	1948
W. C. 2	309	14378	74	1575
W. C. 3	358	18231	65	1195
W. C. 4	436	23832	75	1813
W. C. 5	320	15995	82	2058

6.7 The Effect of Maximum Cost per Period Constraints on Working Circle Boundary Analysis

By summing the 5 working circles in Model 7 to compare with Model 3, the results in Section 6.1 showed that there was a 2.13% increase due to removing working circle boundaries with no cost constraints. Table 6.7-1 indicates clearly that, as maximum cost constraints per period are imposed, the percentage increase in cut due to removal of working circles is reduced. Thus these constraints tend to reduce or eliminate possible gains from removal of working circle boundaries.

Table 6.7-1.

The percentage differences in the AACs of Models 3 and 7 with cost constraints[1]

Max. Ave. Cost Const.	Model 7 (Sum)		Model 3		% Increase in AAC
	AAC M m3/per.	Total Ave. Cost M $/Per.	AAC M m3/per.	Total Ave. Cost M $/per.	
345	14.776	307.816	15.090	314.747	2.13
305	14.460	299.205	14.635	301.196	1.21
291	14.054	288.653	14.228	290.715	1.24
262	12.954	262.000	13.073	262.000	0.92

[1] M in this table and hereafter denotes 10^6

6.8 The Effect of Maximum Cost per Period Constraints on Compartment Boundary Analysis

Unconstrained analysis gave an increase of 2.10 percent for the whole forest when considering compartment boundaries (Section 6.3, Table 6.3-2). When cost constraints per period are imposed, the differences between Models 5 and 7, in general, get larger (Table 6.8-1). Overall with costs constrained to 345 million dollars per period which constitutes no constraint, because costs never reach that level, elimination of compartment boundaries gives an increase in AAC of 2.10%. If costs are constrained to 305 or 262 million dollars per period, then compartment boundary removals at those levels give increases in AAC of 2.34% and 2.48%, respectively (Table 6.8-1). Analysis by each working circle indicates working circles 3, 4, and 5 tend to follow this increasing trend where as working circles 1 and 2 display distinctly opposite trends.

Table 6.8-2 presents an interesting view, if one examines the average cost per cubic meter figures using Model 7 in working circle 1, we get 3.210 million cubic meters for $19.27 per cubic meter. Using Model 5 in working circle 1 at $19.27 per cubic meter, we produce 3.437 million cubic meters. This represents a gain in yield of 227,000 cubic meters per period at the same cost per cubic meter, or a 7.07% increase in yield per period at the same cost per cubic meter without

Table 6.8-1.

The percentage differences in the AACs of model group 5 and 7 with cost constraints[1]

	Max. Cost Const. (M $ /Per.)	Model 7 AAC (M m3/Per.)	Model 5 AAC (M m3/Per.)	% Increase in AAC
W.C.1	70	3.325	3.437	3.37
	65	3.268	3.352	2.57
	63	3.210		
	61	3.150		
	55	2.922	2.987	2.22
W.C.2	60	2.285	2.360	3.28
	50	2.260	2.315	2.43
	48	2.211		
	46	2.150		
	40	1.936	1.970	1.76
W.C.3	70	2.944	3.013	2.34
	63	2.888	2.955	2.32
	62	2.860		
	61	2.829		
	56	2.622	2.706	3.20
W.C.4	70	2.970	3.003	1.11
	60	2.946	2.983	1.26
	59	2.923		
	58	2.897		
	52	2.678	2.720	1.57
W.C.5	75	3.252	3.273	0.65
	67	3.098	3.194	3.10
	66	3.063		
	65	3.028		
	59	2.796	2.892	3.43
Whole forest	345	14.776	15.086	2.10
	305	14.460	14.799	2.34
	262	12.954	13.275	2.48

[1] The level of cost constraints used in each working circle was set at a value approximately equal to the average per period cost of the previous run. The upper limit in each working circle is nonconstraining in any period.

Table 6.8-2.

The AACs and the estimated 15 period average costs in model groups 5 and 7

	Max. Cost Const. per Per.	Model 7			Model 5		
		AAC (M m3 /per.	Total average (M $ /per.)	Ave. cost ($/m3)	AAC (M m3 /per.)	Total average (M $ /per.)	Ave. cost ($/m3)
W.C.1	70	3.325	64.988	19.54	3.437	66.219	19.27
	65	3.268	63.290	19.37	3.352	63.734	19.01
	63	3.210	61.845	19.27			
	61	3.150	60.355	19.16			
	55	2.922	55.000	18.82	2.987	55.000	18.41
W.C.2	60	2.285	48.650	21.29	2.360	50.299	21.31
	50	2.260	48.063	21.26	2.315	48.903	21.22
	48	2.211	46.695	21.12			
	46	2.150	45.146	20.99			
	40	1.936	40.000	20.66	1.970	40.000	20.31
W.C.3	70	2.944	64.214	21.81	3.013	64.257	21.33
	63	2.888	62.594	21.67	2.955	62.220	21.05
	62	2.860	61.887	21.64			
	61	2.829	61.000	21.56			
	56	2.622	56.000	21.36	2.706	56.000	20.69
W.C.4	70	2.970	59.717	20.11	3.003	59.737	19.89
	60	2.946	59.043	20.04	2.983	58.964	19.76
	59	2.923	58.331	19.95			
	58	2.897	57.580	19.86			
	52	2.678	52.000	19.42	2.720	52.000	19.12
W.C.5	75	3.252	70.247	21.60	3.273	68.922	21.06
	67	3.098	66.215	21.37	3.194	66.346	20.77
	66	3.063	65.411	21.35			
	65	3.028	64.572	21.33			
	59	2.796	59.000	21.10	2.892	59.000	20.40

compartment boundaries.

However, this comparison is not very useful to an operational man[illegible]use it uses the average cost per period (decade) [illegible]5 periods. Of more interest to an operational manager would be the cost in the first period (10 years). Models (5 and 7) place an upper limit on cost in any period, thus the manager would make decisions primarily based upon the first period costs knowing that the remaining periods are reasonable. Table 6.8-3 is developed using the first period average cost data. Unlike Table 6.8-2, the average costs in Table 6.8-3 are not, in general, "well behaved". For example, in working circle 2, if costs per period are constrained at 60 million dollars per period (which is unconstraining because no period costs that much), Model 7 gives an AAC of 2.285 million cubic meters per period with a first period total cost of 48.223 million dollars and an average cost of $21.10 per cubic meter. However, when cost per period is limited to 50 million dollars, cut drops to 2.260 million cubic meters per period with a total cost in the first period of 48.679 million dollars and an average cost of $21.54 per cubic meter. Thus, less is cut at more total cost and a higher cost per cubic meter. The reason for this is that the volume of harvest was maximized over fifteen, ten-year periods in a manner that costs in no decade exceeded 60 or 50 million dollars, respectively. With the 60 million constraint, no

Table 6.8-3.

The AACs and the first period average costs in model groups 5 and 7

	Max. Cost Const. per Per.	Model 7			Model 5		
		AAC (M m3)	1st per. Cost (M $)	Ave. Cost ($/m3)	AAC (M m3)	1st per. Cost (M $)	Ave. Cost ($/m3)
W.C. 1	70	3.325	64.535	19.41	3.437	63.213	18.39
	65	3.268	62.954	19.26	3.352	62.050	18.51
	63	3.210	61.893	19.28			
	61	3.150	60.552	19.22			
	55	2.922	55.000	18.82	2.987	55.000	18.41
W.C. 2	60	2.285	48.223	21.10	2.360	50.119	21.24
	50	2.260	48.679	21.54	2.315	48.977	21.16
	48	2.211	46.277	20.93			
	46	2.150	44.871	20.87			
	40	1.936	40.000	20.66	1.970	40.000	20.30
W.C. 3	70	2.944	62.137	21.11	3.013	60.072	19.94
	63	2.888	62.372	21.60	2.955	61.731	20.89
	62	2.860	61.858	21.63			
	61	2.829	61.000	21.56			
	56	2.622	56.000	21.34	2.706	56.000	20.69
W.C. 4	70	2.970	59.311	19.97	3.003	54.478	18.14
	60	2.946	58.092	19.72	2.983	54.886	18.40
	59	2.923	56.981	19.49			
	58	2.897	55.648	19.21			
	52	2.678	52.000	19.42	2.720	52.000	19.12
W.C. 5	75	3.252	71.415	21.96	3.273	70.374	21.50
	67	3.098	67.000	21.63	3.194	67.000	20.98
	66	3.063	66.000	21.55			
	65	3.028	65.000	21.47			
	59	2.796	59.000	21.10	2.892	59.000	20.40

decade's cost reached that level, but several were over 50 million dollars. When cut was maximized with a 50 million dollar per period limit, expensive potential harvest from the future was transferred to the first period to reduce future costs down to the limit and use up unused constraint dollars in the first period. In the other case, the equivalent harvest in the first several periods was achieved without reaching the cost constrained level. This kind of anomaly is also shown with working circle 3 in Model 7 and working circles 3 and 4 in Model 5. These same trends produce all kinds of anomalies in the average cost per cubic meter figures. Theoretically, total cost in the first period and average costs should go up with each increase in the allowable cut, but this occurs only if one optimizes or selects cuts based on cost. In the case study, cuts were selected to maximize volume harvested with an even-flow inter-period volume constraint subject to a maximum total cost constraint per period. Thus, if the even-flow harvest constraint is critical, or if total cost of harvest in period 13, for example, is critical, the first period costs may not "behave normally".

While the results of changing from compartment based units to stand based units shown in either Table 6.8-2 or 6.8-3 favour the stand based units (no compartment boundaries), one must note that specific moving and set up costs for forest equipment are included only at the average value for Alberta.

In general, companies in Alberta have logged using a compartment based aggregation; thus this average cost for set up and moving of logging equipment reflects compartment based aggregation. In this study, the number of the proposed logging areas for the first planning period using compartment based analysis were 3 to 12 compartments which is much smaller than the 34 to 77 stands used in stand based analyses. Even though stands will be aggregated for logging, it is unlikely that this aggregation will reduce the number of separate areas to be logged per period to that of a compartment based aggregation. In the analysis of Models 5 and 7, the increased cost of this function for Model 5 are not reflected in these analyses.

6.9 The Effect of Maximum Cost per Period Constraints on Access Constraint Analysis

Analysis of the effects of maximum cost constraints per period on Models 3 and 4 used to demonstrate access constraints is difficult. Table 6.9-1 shows the effects of cost constraints on each model. However, Model 4 is so constrained by management access concerns and a policy of even-flow that the cost per period constraints used in Model 3 hardly overlap those of Model 4. Due to the lack of significant overlap of harvest levels and cost constraint levels, marginal cost analysis is not attempted for this model comparison. With these constraints, the allowable cut is dramatically restricted to, at most, the cut level of 13.069 million m^3 per period with the 15 period average total cost of 274.11 million dollars per period as compared with the maximum cut level of 15.090 million m^3 per period and a 15 period average total cost of 314.747 million dollars per period without access limits. It is also worthwhile to note that the most constrained harvest of 13.073 million m^3 per period was achieved in Model 3 with no access constraints and a cost constraint per period and an average total cost per period of $262 million. Model 4 with an unconstrained cost constraint per period, however, never reached that level of harvest due to the access constraints and even-flow policy.

The above results reveal that there is a large potential to increase the allowable cut by adjusting either the current forest road access schedule or the even-flow policy for timber production. However, since the adjustment of the flow policy (section 6.4) did not seem to produce acceptable solutions (very low 1st period harvests), modification of access limitations appears to be a logical way to get potentially large increases in the allowable cut.

Table 6.9-1.

The AACs and the costs in Models 3 and 4 with constraints on maximum per period cost[1]

	Max. cost const. (M $ /per.)	AAC (M m3 /per.)	15 per. average total cost (M m3/per.)	15 per. average cost ($/m3)
MODEL 3	345	15.090	314.747	20.86
	305	14.635	301.196	20.58
	291	14.228	290.715	20.43
	262	13.073	262.000	20.04
	0	0	0	0
MODEL 4	290	13.069	274.11	20.97
	275	13.067	273.12	20.90
	270	13.019	269.35	20.69
	262	12.676	261.75	20.65
	0	0	0	0

6.10 Marginal Cost of Allowable Cut

To get a marginal cost of allowable cut curve, the wood supply available on each working circle was examined starting with a maximum cost of 0 and an allowable cut of 0. Using the output from the cost constrained runs of Models 5 and 7 shown in Table 6.8-3, a AAC from 0 to the maximum for each working circle was developed. Any and all intermediate outputs which gave an increasing average marginal cost, are displayed in Table 6.10-1. For example, with working circle 4, Model 5

Table 6.10-1.

The AACs and the first period average marginal costs for model groups 5 and 7

	Max. Cost Const. per Per.	Model 7			Model 5		
		AAC (M m3)	1st per. Cost (M $)	Ave. Mar. Cost ($/m3)	AAC (M m3)	1st per. Cost (M $)	Ave. Mar. Cost ($/m3)
W.C. 1	70	3.325	64.535	27.74	3.437	63.213	18.39
	65	3.268	62.954	22.99			
	55	2.922	55.000	18.82			
	0	0.000	0.000		0.000	0.000	
W.C. 2	60	2.285	48.223	26.30	2.360	50.119	25.95
	48	2.211	46.277	23.05			
	46	2.150	44.871	22.76			
	40	1.936	40.000	20.66	1.970	40.000	20.30
	0	0.000	0.000		0.000	0.000	
W.C. 3	70	2.944	62.137	33.21	3.013	60.072	19.94
	62	2.860	61.858	27.68			
	61	2.829	61.000	24.15			
	56	2.622	56.000	21.36			
	0	0.000	0.000		0.000	0.000	
W.C. 4	70	2.970	59.311	49.57	3.003	54.478	18.14
	59	2.923	56.981	20.33			
	52	2.678	52.000	19.42			
	0	0.000	0.000		0.000	0.000	
W.C. 5	75	3.252	71.415	28.67	3.273	70.374	42.71
	67	3.098	67.000	28.57	3.154	67.000	26.49
	65	3.028	65.000	25.86			
	59	2.796	59.000	21.10	2.892	59.000	20.40
	0	0.000	0.000		0.000	0.000	

produced only one marginal cost entry going from 0 production to 3.003 million cubic meters AAC at an average marginal cost of $18.14 per cubic meter (all other marginal costs between 0 and any other production output value produce marginal costs greater than $18.14). Whereas Model 7 analysis for this same working circle produced three average marginal cost entries. Going from 0 to 2.678 million cubic meters is achieved at an average marginal cost of $19.42 per cubic meter, going from 2.678 to 2.923 million cubic meters is achieved at an average marginal cost of $20.33 per cubic meter and going from 2.923 to 2.970 million cubic meters is achieved at an average marginal cost of $49.57 per cubic meter.

If the FMA is harvested by a rule which harvests least costly stands first, the data in Table 6.10-1 can be used to produce a marginal cost of allowable cut curve for both Model 5 and Model 7. Table 6.10-2 and Figure 6.10-1, respectively, represent a tabular representation and pictorial view of these supply curves.

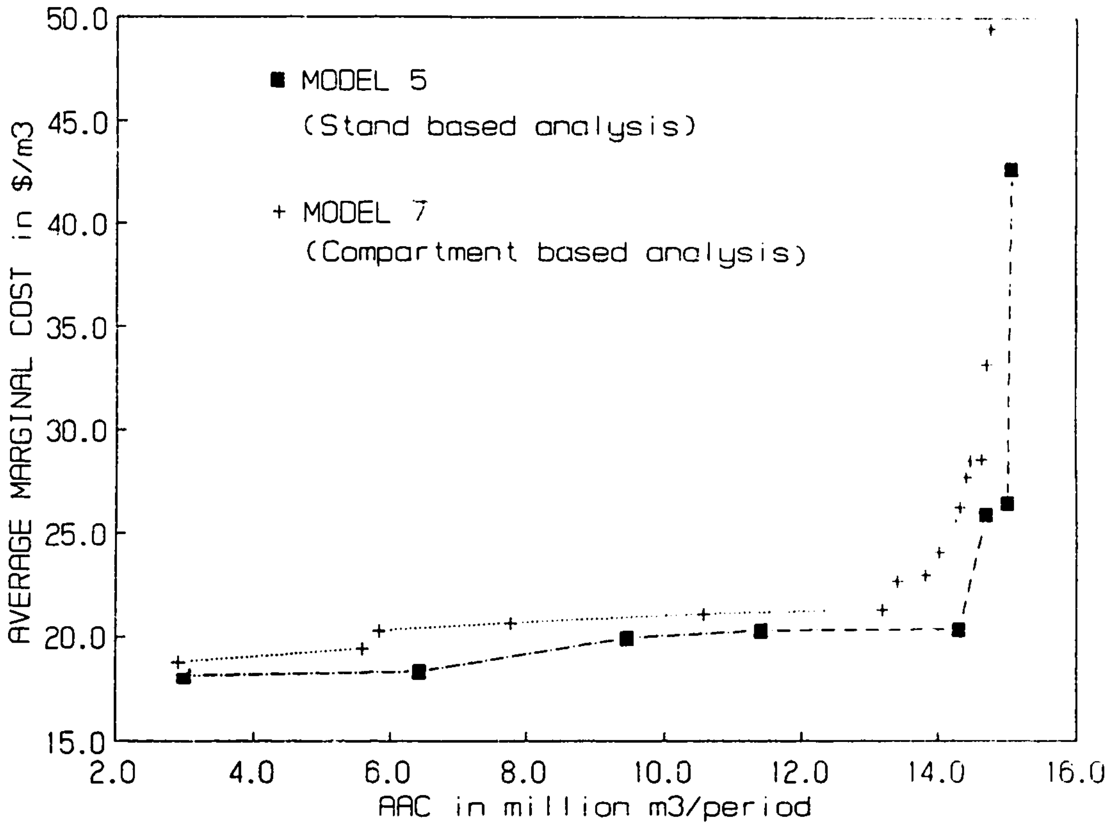
These curves can be used in two major ways; once a curve is selected for use by the company (Model 5 or 7), then that curve can be used as a guide for maximum unit cost for wood quantities purchased from off the lease. For example, at any production level (AAC), one can determine the average marginal cost of this timber supply and thus one would be willing to

Table 6.10-2.

The 1st period average marginal cost of allowable cut for Models 5 and 7

Model 5			Model 7		
AAC (M m3)	Marginal increase in AAC (M m3)	Average marginal costs ($/m3)	AAC (M m3)	Marginal increase in AAC (M m3)	Average marginal costs ($/m3)
3.003		18.14	2.922		18.82
6.440	3.437	18.39	5.600	2.678	19.42
9.453	3.013	19.94	5.845	0.245	20.33
11.423	1.970	20.30	7.781	1.936	20.66
14.315	2.892	20.40	10.577	2.796	21.10
14.705	0.390	25.95	13.199	2.622	21.36
15.007	0.302	26.49	13.413	0.214	22.75
15.086	0.079	42.71	13.759	0.346	22.90
			13.820	0.061	23.05
			14.027	0.207	24.15
			14.259	0.232	25.86
			14.333	0.074	26.30
			14.364	0.031	27.68
			14.421	0.057	27.74
			14.491	0.070	28.57
			14.645	0.154	28.67
			14.729	0.084	33.21
			14.776	0.047	49.57

Figure. 6.10-1 The 1st Period AAC Supply Curves for Models 5 and 7



purchase wood at any cost less than this cost. Large potential purchases would affect the level of the average marginal cost of allowable cut and thus you would have to look at the new average marginal cost of the reduced AAC harvested to ensure that you were not paying too much for the external purchase.

The second way these curves can be used is as an aid to the decision maker to select which Model, 5 or 7, to use. From Figure 6.10-1, it is clear that Model 7 costs more per cubic meter to produce equivalent outputs, however, Model 5 analyses are more expensive to produce. As well, as indicated above, the cost per cubic meter in Model 5 analyses is underestimated by the lack of an additional cost to reflect probable increased costs due to increased equipment movement and set-up costs for stand level management (Model 5) compared to area level management (Model 7). Thus, a manager, to make a valid comparison, would have to increase the cost per cubic meter for Model 5 for analysis expense and for the increased equipment movement cost per cubic meter. Since the analysis expense would be an increased fixed cost, it would increase an average marginal cost per m^3 in a decreasing amount as AAC increases. For example, assuming replanning at every period and increased analysis cost were \$50,000, marginal cost would increase \$0.005/m^3 at an AAC of 10 million cubic meters per period, but only \$0.0033/m^3 at an AAC of 15 million cubic meters per period. Since these costs for more costly analyses give rise to an increase of less than one cent per cubic meter of harvest, they are probably insignificant.

The increase in cost due to increased equipment movement and set up charges is more likely to be expressed by the company in terms of a fixed additional charge per cubic meter logged and thus would result in an equal shift upward of the supply curve. The magnitude of this shift would be critical to the manager to decide whether stand or area based analysis were the best.

7. Conclusions

7.1 Case Study Results

This study shows that increases in allowable cuts ranging from 1.33% to 2.13% are possible by elimination of working circle boundaries for even-flow harvest schedule strategies. With non-declining yield harvest schedule strategies, the increases average 0.95% over the 150 year planning horizon with increases of 2.13% over the first 110 years of the planning horizon.

The effect of changing from compartment based management units to stand based management units is examined by removing compartment boundaries. The different comparisons, using an even-flow policy, result in increases in allowable cuts of 1.31% to 2.10%. When working circle boundaries are ignored, the increase was a 1.31%. When working circle boundaries are included, the overall increase is a 2.10%. In this latter example, results differed by working circle with increases from 0.65% to 3.37%. It appears compartment boundaries are less important in working circles 4 and 5 and more important in working circles 1 to 3.

Removal of access constraints, as interpreted in this study, appears to lead to a 15 - 16% increase in allowable cut for cases where an even-flow policy is used. However, the above results should be examined carefully since the access relationship used here was an interpretation of the 5-year planning period constraints currently used by the company which were translated to the 10-year periods used in this study. Some of these access constraints may be operational priorities rather than real road problems and thus the potential increase shown may be too large.

Results of runs in Model 8, working circle 3, 4, and 5, clearly demonstrate, if LP is used with an even-flow requirement, that early access constraints that are severe will lead to unrealistic results. Clearly, if access is as limited early, as was modeled, one would either modify the even-flow requirement to allow an increase in cut as access improved or one would remove some of the early access problems by a more aggressive road building program.

Using a non-declining yield flow policy, increases due to removal of access constraints average 2.53% to 2.46% for the planning horizon. However, these results are probably not acceptable from the manager's point of view because of the severe reduction of the allowable cut in the first period to only 9.518 to 10.260 million m^3.

Placing a constraint on maximum cost per planning period has different effects on each of the analyses above. The effect of removing working circle boundaries tends to diminish as cost constraints become more severe. Thus, the 2.13% increase reported earlier is reduced as costs became constraining.

In the stand based versus compartment based analysis (compartment boundary analysis), the effect of increasing cost constraints on this analysis tends overall to increase the percentage effect of removal of boundaries. Thus, the 2.10% increase reported earlier is increased as costs become constraining. However, the result is not uniform by individual working circles, ranging from 0.65% to 3.37%. By incrementally examining increases in AAC generated on the working circles at different cost constraints, an average marginal cost of allowable cut curve was developed for each type of analysis (stand and compartment based). Careful use of this curve will permit Weldwood managers to select the least costly method of analysis for any particular desired allowable cut. As well the selected curve can aid Weldwood managers to set upper limits on off lease wood purchase prices.

7.2 General Study Results

The results of this study support those of Jamnick *et al.* (1990) that stand based land unit classifications give higher objective values than compartment based land unit classifications, but these large values are percentage wise not very much larger. To get them, increased costs are incurred in the planning model formulation and solution. As well, logging cost to move and set up equipment more frequently would be increased using stand based operations compared to compartment based operations for forest with larger number of stand types than that of compartments.

If maximum cost constraints per period and access considerations are desirable in the planning model, then it is easier to use compartment based management units for the analysis since the locational data for economic analysis and access concerns can be easily obtained. As well, significant reductions in model sizes and costs for solutions are achieved this way, but at a loss of a gain in allowable cut possible by using stand based forest units.

Finally, when cost constraints per period are used, the method of developing marginal cost of supply curves from section 5.7.1 can be adopted by others to develop timber supply curves which permit managers to select which type of land classification is best or most appropriate for their particular planning problem.

8. References

Allard, J., D. Errico, and W. J. Reed. 1988. Irreversible investment and optimal forest exploitation. Nat. Res. Mod. 2(4): 581 - 597.

Armel, N. B. 1986. Area analysis and version II of FORPLAN. *in* Proceedings of the workshop on lessons from using FORPLAN, Denver, CO. Apr. 29 - May 1. USDA For. Ser., Land Mana. Plan. Sys. Sec., Washington, D.C.

Armstrong, G. W., J. A. Beck, Jr., and B. L. Phillips. 1984. Relaxing even-flow constraints to avoid infeasibility with the Timber Resources Allocation Method (RAM). Can. J. For. Res. 14(6): 860-863

Barber, R. L. 1985. The aggregation of age classes in timber resources scheduling models: its effects and bias. For. Sci. 31: 73 - 82

Beck, J. A. Jr. 1977. Determination of optimal forest production schedules by mathematical programming. Ph.D Dissertation, Univ. of Calif., Berkeley, CA.

Beck, J. A. Jr., R. G. Anderson, G. W. Armstrong, and G. H. Farrow. 1989. Alberta economic timber supply analysis. Dept. of For. Sci., Univ. of Alberta, Edmonton, Alberta.

Berck, P. and T. Bible. 1984. Solving and interpreting large-scale harvest scheduling problems by duality and decomposition. For. Sci. 30(1):173-182.

Buongiorno J. and D. E. Teeguarden. 1978. Operations research techniques in the management of large-scale reforestation programs, in operational forest management planning methods. USDA For. Ser., PSW, Gen. Tech. Rep. PSW-32.

Chappelle, D. E., M. Mang, and R. C. Miley. 1976. Evaluation of timber RAM as a forest management planning model. J. For. 74:288-293.

Clutter, J. L. 1968. Max-Million: a computerized forest management planning system. Sch. of For. Res., Univ. of Georgia, Athens, GA.

Connelly, W. J. 1988. Area based forest planning. Proceedings of the Society of American Foresters' 1988 Symposium on Systems Analysis in Forest Resources. USDA For. Ser. Gen. Tech. Rep. RM-161. pp.131-137.

Curtis, F. H. 1962. Linear programming the management of a forest property. J. For. 60(9):611-616.

Dantzig, G. B. 1963. Linear programming and extensions. Princeton Univ. Press, Princeton NJ.

Dantzig, G. B. and P. Wolfe. 1961. The decomposition algorithm for linear programs. Econometrica 29(4):767-778.

Davis, L. S. and K. N. Johnson. 1987. Forest Management third edition. McGraw Hill Book Company, NY.

Gross, T. E. and D. P. Dykstra. 1988. Harvest scheduling with nonadjacency constraints. *In* Proceedings, Society of American Foresters National Convention, 16 - 19 Oct. 1988, Washington, D.C. pp. 310-315.

Hennes, L. C., M. J. Irving, and D. I. Navon. 1971. Forest control and regulation...a comparison of traditional methods and alternatives. USDA For. Ser., Res. Note PSW-231.

Hof, J. G., R. D. Lee, A. A. Dyer, and B. M. Kent. 1985. An analysis of joint costs in a managed forest ecosystem. J. of Environ. Econ. and Manage. 12:338-352.

Hof, J. G., J. B. Pickens, and E. T. Bartlett. 1986. A MAXMIN approach to non-declining yield timber harvest scheduling problems. For. Sci. 32(3):653-666.

Hokans, R. H. 1983. Evaluating spatial feasibility of harvest schedules with simulated stand selection decisions. J. For. 81:601-603, 613.

Hrubes, R. J. and D. I. Navon. 1976. Application of linear programming to downward sloping demand problems in timber production. USDA Forest Service, Res. Note PSW-315.

Jamnick, M. S. 1988. Effects of forest land classification on calculated timber harvest schedules. Ph.D dissertation, Univ. of Calif., Berkeley, CA.

Jamnick, M. S., L. S. Davis, and J. K. Gilless. 1990. Influence of land classification systems on timber harvest scheduling models. Can. J. For. Res. 20: 172 - 178.

Johnson, K. N. and D. B. Jones. 1979. A user's guide to multiple use - sustained yield resource scheduling calculation (MUSYC). Timber management, USDA Forest Service, Ft. Collins, CO.

Johnson, K. N. and H. L. Scheurman. 1977. Techniques for prescribing optimal timber harvest and investment under different objectives - discussion and synthesis. For. Sci.

Mono. 18.

Johnson, K. N., T. W. Stuart, and S. A. Crim. 1986. FORPLAN Version 2: an overview. Land Management Planning Systems Section, USDA For. Ser., Ft. Collins, CO.

Johnson, K. N. and P. L. Tedder. 1983. Linear programming vs. binary search in periodic harvest level calculation. For. Sci. 29(3):569-581.

Kidd, W. E., Jr., E. F. Thompson, and P. H. Hoepner. 1966. Forest regulation by linear programming - a case study. J. For. 64(9):611-616.

Kirby, M.. 1978. Large-scale budget applications of mathematical programming in the forest service, in operational forest management planning methods. USDA For. Ser. Gen. Tech. Rep. PSW-32.

Kristoff, T. E. 1986. The applicability of various harvest scheduling models to timber supply allocation problems in Saskatchewan. M.S. thesis, Univ. of Alberta, Edmonton, Alberta.

Kristoff, T. E., J. A. Beck, Jr., and B. L. Phillips. 1987. MUSYC at the U of A (Draft Review Copy for Student Use). Dept. of For. Sci., Univ. of Alberta, Edmonton, Alberta.

Leak, W. B. 1964. Estimating maximum allowable timber yields by linear programming. USDA For. Ser., Res. Pap. NE-17.

Leuschner, W. A., J. R. Porter, M. R. Reynolds, and H. E. Burkhart. 1975. A linear programming model for multiple-use planning. Can. J. For. Res. 5:485-491.

Liittschwager, J. M. and T. H. Tcheng. 1967. Solution of a large-scale forest scheduling problem by linear programming decomposition. J. For. 65:644-646.

Loucks, D. P. 1964. The development of an optimal program for sustained-yield management. J. For. 62(7):485-490.

McConnen, R. J., E. L. Amidon, and D. I. Navon. 1966. The use of operation research techniques in determining allowable cut. Proceedings of SAF meeting "Resources, Foresters, and Policies for Progress", Seattle, WA.

McQuillan, A. G. 1986. The declining even flow effect - non sequitur of national forest planning. For. Sci. 32(4):960-972.

Mealey, S. P., J. F. Liscomb. and K. N. Johnson. 1982.

Solving the habitat dispersion problem in forest planning. *In* Transactions of the 47th North American Wildlife and Natural Resources Conference, Portland, OR, 26-31 March 1982. Edited by K. Sabol. Wildlife Management Institute, Washington, D.C. pp. 14. 153.

Mendoza, G. A., B. B. Bare, and G. E. Campbell. 1987. Multiobjective programming for generating alternatives: a multiple-use planning example. For. Sci. 33(2):458-468.

Meneghin, B. J., M. W. Kirby, and J. G. Jones. 1988. An algorithm for writing adjacency constraints efficiently in linear programming models. *In* The 1988 Sym. on Sys. Anal. in For. Res. USDA For. Ser. Gen. Tech. Rep. RM-161. pp. 46-53.

Michie, B. R. and F. D. McCandless. 1986. A matrix model of oak-hickory stand management and valuing forest land. For. Sci. 32(3):759-768.

Nautiyal, J. C. and P. H. Pearse. 1967. Optimizing the conversion to sustained yield - a programming solution. For. Sci. 13(2):131-139.

Navon, D. I. 1971. Timber RAM User's Manual Part II: Forester's Guide. PSW, USDA Forest Service.

Nelson, J., J. D. Brodie, and J. Sessions. 1988. Integrating short term spatially feasible harvest plans with long term harvest schedules using Monte-Carlo integer programming and linear programming. *In* The 1988 Sym. on Sys. Anal. in For. Res. USDA For. Ser. Gen. Tech. Rep. RM-161. pp. 224-229.

Nelson, J. and J. D. Brodie. 1990. Comparison of a random search algorithm and mixed integer programming for solving area-based forest plans. Can. J. For. Res. 20:934-942.

O'Hara, A. J., B. H. Faaland, and B. B. Bare. 1989. Spatially constrained timber harvest scheduling. Can. J. For. Res. 19:715-724.

Paredes V., G. L. and J. D. Brodie. 1988. Activity analysis in forest planning. For. Sci. 34(1):3-18.

Samuelson, P. A. 1980. Economics eleventh edition. McGraw Hill Kogakusha, LTD. International student edition.

Steuer, R. E. and A. T. Schuler. 1978. An interactive multiple-objective linear programming approach to a problem in forest management. Oper. Res. 26(2):254-269.

Tanke, W. C. 1987. PASS - a tool for analyzing alternative harvest schedules. *In* The 1985 sym. on sys. anal. in for. reso. Edited by Peter E. Dress and Richard C. Field. pp. 303-314. Georgia Center for Continuing Education.

Torres-Rojo J. M. and J. D. Brodie. 1990. Adjacency constraints in harvest scheduling: an aggregation heuristic. Can. J. For. Res. 20:978-986.

Walker, H. D. and Wm. H. Lougheed. 1985. Timber production possibilities for a New Brunswick forest. Fac. of For., Univ. of New Brunswick, Fredericton, New Brunswick.

Wardle, P. A. 1965. Forest management and operational research: a linear programming study. Mana. Sci. 11(10):B260-B270.

Ware, G. O. and J. L. Clutter. 1971. A mathematical programming system for the management of industrial forests. For. Sci. 17:428-445.

9. Appendix I - Stand based timber yield data

60 timber yield streams

First rows   the identity and description of yield stream
Second rows   the timber volume (m3/ha) of yield stream
              in 10 years age classes from 1 to 15 decades

Species   Lodgepole pine   1 - 39 yield streams
          White spruce   40 - 50 yield streams
          Black spruce   51 - 54 yield streams
          Alpine fir   55 yield stream
          Mixed   56 - 60 yield streams

Site index - Heis, in feet at reference age 50 years

Density, percent crown closure class:
A = 6 - 30
B = 30 - 50
C = 50 - 70
D = 70 - 100

1 Potentially productive lodgepole pine all density classes
0 0 0 0 0 0 0 0 0 0 0 1 8 14 20

2 Site index 25 lodgepole pine, all density classes
0 0 0 0 0 0 0 0 11 24 37 50 63 76 87

3 Site index 30 lodgepole pine, density classes of B, C and D
0 0 0 0 0 0 9 26 44 62 79 97 113 129 143

4 Site index 35 lodgepole pine, density class B
0 0 0 0 15 38 61 81 100 117 132 146 158 168 178

5 Site index 35 lodgepole pine, density class C
[illegible] [illegible] [illegible] 0 0 13 35 58 83 106 128 148 167 184 200

6 Site index 35, lodgepole pine, density class D
0 0 0 0 0 0 8 40 71 100 128 15[illegible] 175 195 213

7 Site index 40, lodgepole pine, density class B
0 0 0 6 35 53 88 111 132 150 165 179 191 201 211

8 Site index 40, lodgepole pine, density class C
0 0 0 0 9 38 68 99 129 155 180 202 221 238 253

9 Site index 40, lodgepole pine, density class D
0 0 0 0 0 11 52 91 128 160 189 215 236 255 271

10 Site index 30 - 50, lodgepole pine, density class A
0 4 10 20 33 48 66 84 102 119 135 149 162 173 184

11 Site index 45 lodgepole pine, density class B
0 0 0 22 56 88 117 142 163 18[illegible] 197 210 221 231 239

12 Site index 45 lodgepole pine, density class C
0 0 0 0 31 68 106 143 176 206 231 252 271 288 300

13 Site index 45, lodgepole pine, density class D
0 0 0 0 2 52 101 146 185 219 247 270 289 306 318

14 Site index 50, lodgepole pine, density class B
0 0 0 39 79 116 148 172 193 211 226 238 249 258 264

15 Site index 50, lodgepole pine, density class C
0 0 0 14 57 104 148 189 224 254 278 297 313 327 338

16 Site index 50, lodgepole pine, density class D
0 0 0 0 37 97 153 201 240 271 296 316 331 344 354

17 Potentially productive, lodgepole pine and other softwoods, all density classes
0 0 0 0 0 0 0 0 0 0 1 8 16 23 31

18 Site index 25, lodgepole pine and other softwoods, density classes of B, C and D
0 0 0 0 0 0 0 0 0 2 18 35 50 64 77

19 Site index 25 - 30, lodgepole pine and other softwoods, density class A
0 0 0 0 5 13 21 29 38 46 54 62 70 77 84

20 Site index 30, lodgepole pine and other softwoods, density classes of B, C and D
0 0 0 0 0 [illegible] [illegible] 21 34 52 67 82 97 111 124

21 Site index 35 - 40, lodgepole pine and other softwoods, density class A
0 0 0 3 12 23 34 45 56 67 77 86 95 103 112

22 Site index 35, lodgepole pine and other softwoods, density classes of B, C and D
0 0 0 0 0 9 29 50 70 90 110 129 147 164 180

23 Site index 40, lodgepole pine and other softwoods, density class B
0 0 0 6 21 47 68 88 108 127 144 160 176 189 202

24 Site index 40, lodgepole pine and other softwoods, density class C
0 0 0 0 0 20 58 89 119 147 171 193 213 231 247

25 Site index 40, lodgepole pine and other softwoods, density class D
0 0 0 0 7 31 57 84 110 135 160 182 203 223 241

26 Site index 45, lodgepole pine and other softwoods, density class A
0 0 1 15 32 49 67 84 100 114 128 139 150 159 168

27 Site index 45, lodgepole pine and other softwoods, density class B
0 0 0 18 42 68 94 118 142 163 183 201 217 231 244

28 Site index 45, lodgepole pine and other softwoods, density class C
0 0 0 0 11 58 97 135 168 197 223 246 266 283 299

29 Site index 45, lodgepole pine and other softwoods, density class D
0 0 0 0 25 57 91 124 156 186 214 239 263 283 302

30 Site index 50, lodgepole pine and other softwoods, density class A
0 0 6 23 44 65 86 106 125 140 154 166 177 186 194

31 Site index 50, lodgepole pine and other softwoods, density class B
0 0 3 30 60 92 123 152 178 202 223 241 257 272 284

32 Site index 50, lodgepole pine and other softwoods, density class C
0 0 0 0 43 94 141 181 216 247 273 296 315 333 347

33 Site index 50, lodgepole pine and other softwoods, density class D
0 0 0 10 48 88 129 170 207 241 271 298 322 344 362

```
34   Potentially productive, lodgepole pine and hardwoods, all density classes
 0   0   0   0   0   0   0   0   0   1   3   5 [illegible] 9  11

35   Site Index 25 - 40, lodgepole pine and hardwoods, density class A
 0   0   0   1   5  11  18  26  34  42  50  58  65  72  78

36   Site Index 25 - 40, lodgepole pine and hardwoods, density classes of B, C and D
 0   0   0   2   9  19  29  40  53  66  78  91 103 115 127

37   Site Index 45 - 50, lodgepole pine and hardwoods, density class A
 0   0   2  12  25  41  58  74  89 102 113 122 130 136 142

38   Site Index 45 - 50, lodgepole pine and hardwoods, density classes of B, C and D
 0   0   4  19  39  64  91 119 145 170 191 211 227 242 254

39   Site Index 56, lodgepole pine and hardwoods, density classes of C and D
 0   0   8  30  59  93 128 162 192 218 240 258 274 287 297

40   Potentially productive, white spruce, all density classes
 0   0   0   0   0   0   0   0   0   0   2   9  17  26  36

41   Site Index 20 - 50, white spruce, density class A
 0   0   0   0   4  14  24  33  41  49  56  62  68  73  78

42   Site Index 20 - 50, white spruce, density class B
 0   0   0   0   0  16  37  61  8[illegible] [illegible]14 142 169 196 220 244

43   Site Index 20 - 50, white spruce, density classes C and D
 0   0   0   0   0   0   0  45  88 128 164 196 225 251 274

44   Potentially productive, white spruce and other softwoods, all density classes
 0   0   0   0   0   0   0   0   0   0   0   4  18  33  49

45   Site Index 20 - 50, white spruce and other softwoods, density class A
 0   0   0   1   7  15  27  41  58  79 101 124 148 171 193

46   Site Index 20 - 50, white spruce and other softwoods, density classes of B, C and D
 0   0   0   0  11  34  59  85 111 137 162 186 [illegible] 226 248

47   Site Index 60, white spruce and other softwoods, density class A
 0   0   4  20  47  84 129 176 220 237 288 [illegible] [illegible] 344 355

48   Potentially productive, white spruce and hardwoods, all density classes
 0   0   0   1   2   2   3   4   6   7   9  12  14  18  22

49   Site Index 20 - 50, white spruce and hardwoods, all density classes
 0   1   3   6  12  20  32  49  70  96 129 167 189 222 253

50   Site Index 53, white spruce and hardwoods, density classes C and D
 0   2   5  12  25  46  77 116 162 210 257 300 339 373 401

51   Potentially productive, black spruce, all density classes
 0   0   0   0   0   0   1   2   3   4   5   7   9  12  15

52   Site Index 20 - 50, black spruce, all density classes
 0   0   0   0   0   3  14  25  37  50  63  77  90 102 115

53   Potentially productive, black spruce and other softwoods and hardwoods, all density classes
 0   0   0   0   0   0   0   1   4   8  12  17  22  27  32
```

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54   Site Index 20 - 50, black spruce and other softwoods and hardwoods, all density classes
 0   0   0   0   0   4  27  49  70  89 108 124 140 164 186

55   Site Index 20 - 50, balsam (subalpine) fir and other softwoods and hardwoods, all density classes
 0   5  16  30  48  60  78  93 117 130 144 158 171 186 19[illegible]

56   Potentially productive, hardwoods and softwoods, all density classes
 0   0   0   0   0   0   0   0   0   0   1   3   5   8  10

57   Site Index 25 - 50, hardwoods and softwoods, density class A
 0   0   0   5  13  21  29  36  41  46  50  54  57  59  61

58   Site Index 25 - 50, hardwoods and softwoods, density classes of B, C and D
 0   0   0   4  15  27  38  49  58  65  72  77  82  86  88

59   Site Index 50, hardwoods and softwoods, density classes of C and D
 0   0   0   7  19  32  45  56  66  73  79  84  88  91  93

60   Site Index 58, hardwoods and softwoods, density classes of A and B
 0   0  12  28  43  56  68  76  83  89  93  96  99 101 103
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10. Appendix II - The average ages and yield estimates for compartment based management units of working circle 1

WORKING CIRCLE 1

First column — the identity of each stand
Second column — the identity of each compartment
Third column — the area of each stand in hectares
Fourth column — the age of each stand
Fifth column — the yield stream identity for existing stand
Sixth to Eighteenth columns — the yield stream (m3/ha) for existing stand from 3 to 15 decades
Ninteenth column — the yield stream identity for regeneration stand
20th to 32th columns — the yield stream (m3/ha) for regeneration stand from 3 to 15 decades

The total area of compartment, average age, and yield estimates are below each compartment

1	1	412	95	2	0	0	0	0	0	0	11	24	37	50	63	75	87	16	0	0	37	97	153	201	240	271	286	316	331	344	354
2	1	412	95	2	0	0	0	0	0	0	11	24	37	50	63	75	87	16	0	0	37	97	153	201	240	271	286	316	331	344	354
3	1	103	125	2	0	0	0	0	0	0	11	24	37	50	63	75	87	16	0	0	37	97	153	201	240	271	286	316	331	344	354
4	1	103	125	2	0	0	0	0	0	0	11	24	37	50	63	75	87	16	0	0	37	97	153	201	240	271	286	316	331	344	354
5	1	103	205	2	0	0	0	0	0	0	11	24	37	50	63	75	87	16	0	0	37	97	153	201	240	271	286	316	331	344	354
6	1	103	205	2	0	0	0	0	0	0	11	24	37	50	63	75	87	16	0	0	37	97	153	201	240	271	286	316	331	344	354
7	1	103	75	3	0	0	0	0	9	26	44	62	79	97	113	129	143	16	0	0	37	97	153	201	240	271	286	316	331	344	354
8	1	103	75	3	0	0	0	0	9	26	44	62	79	97	113	129	143	16	0	0	37	97	153	201	240	271	286	316	331	344	354
9	1	103	145	3	0	0	0	0	9	26	44	62	79	97	113	129	143	16	0	0	37	97	153	201	240	271	286	316	331	344	354
10	1	103	145	3	0	0	0	0	9	26	44	62	79	97	113	129	143	16	0	0	37	97	153	201	240	271	286	316	331	344	354
11	1	3090	95	5	0	0	0	13	35	59	83	106	128	148	167	184	200	16	0	0	37	97	153	201	240	271	286	316	331	344	354
12	1	3090	95	5	0	0	0	13	35	59	83	106	128	148	167	184	200	16	0	0	37	97	153	201	240	271	286	316	331	344	354
13	1	103	115	5	0	0	0	13	35	59	83	106	128	148	167	184	200	16	0	0	37	97	153	201	240	271	286	316	331	344	354
14	1	103	115	5	0	0	0	13	35	59	83	106	128	148	167	184	200	16	0	0	37	97	153	201	240	271	286	316	331	344	354
15	1	206	125	5	0	0	0	13	35	59	83	106	128	148	167	184	200	16	0	0	37	97	153	201	240	271	286	316	331	344	354
16	1	206	125	5	0	0	0	13	35	59	83	106	128	148	167	184	200	16	0	0	37	97	153	201	240	271	286	316	331	344	354
17	1	1030	95	6	0	0	0	0	8	40	71	100	128	153	175	195	213	16	0	0	37	97	153	201	240	271	286	316	331	344	354
18	1	1030	95	6	0	0	0	0	8	40	71	100	128	153	175	195	213	16	0	0	37	97	153	201	240	271	286	316	331	344	354
19	1	515	95	10	10	20	33	48	66	84	102	119	135	149	162	173	184	16	0	0	37	97	153	201	240	271	286	316	331	344	354
20	1	515	95	10	10	20	33	48	66	84	102	[illegible]	135	149	162	173	184	16	0	0	37	97	153	201	240	271	286	316	331	[illegible]	354
21	1	412	95	14	0	39	79	115	146	172	193	211	226	238	249	256	284	16	0	0	37	97	153	201	240	271	286	316	331	[illegible]	354
22	1	412	95	14	0	39	79	115	146	172	[illegible]	211	[illegible]	238	249	256	284	16	0	0	37	97	153	201	240	271	286	316	331	344	354
23	1	618	95	15	0	14	57	104	149	189	[illegible]	[illegible]	278	297	313	327	338	16	0	0	37	97	153	201	240	271	286	316	331	344	354
24	1	618	95	15	0	14	57	104	149	189	224	[illegible]	[illegible]	297	313	327	338	16	0	0	37	97	153	201	240	271	286	316	331	344	354
25	1	103	95	16	0	0	37	97	153	201	240	[illegible]	[illegible]	316	331	344	354	16	0	0	37	97	153	201	240	271	286	316	331	344	354
26	1	103	95	16	0	0	37	97	153	201	240	[illegible]	[illegible]	316	331	344	354	16	0	0	37	97	153	201	240	271	286	316	331	344	354
27	1	206	35	18	0	0	0	0	0	0	0	7	[illegible]	35	50	64	77	28	0	0	11	56	97	135	168	197	223	246	266	283	299
28	1	206	35	18	0	0	0	0	0	0	0	2	18	35	50	64	77	28	0	0	11	56	97	135	168	197	223	246	266	283	299
29	1	927	95	22	0	0	0	9	29	50	70	90	110	129	147	164	180	28	0	0	11	56	97	135	168	197	223	246	266	283	299
30	1	927	95	22	0	0	0	9	29	50	70	90	110	129	147	164	180	28	0	0	11	56	97	135	168	197	223	246	266	283	299
31	1	309	105	22	0	0	0	9	29	50	70	90	110	129	147	164	180	28	0	0	11	56	97	135	168	197	223	246	266	283	299
32	1	309	105	22	0	0	0	9	29	50	70	90	110	129	147	164	180	28	0	0	11	56	97	135	168	197	223	246	266	283	299
33	1	103	205	23	0	8	27	47	68	88	108	127	144	160	176	189	202	28	0	0	11	56	97	135	168	197	223	246	266	283	299
34	1	103	205	23	0	8	27	47	68	88	108	127	144	160	176	189	202	28	0	0	11	56	97	135	168	197	223	246	266	283	299
35	1	206	205	24	0	0	0	20	56	89	119	147	171	193	213	231	247	28	0	0	11	56	97	135	168	197	223	246	266	283	299
36	1	206	205	24	0	0	0	20	56	89	119	147	171	193	213	231	247	28	0	0	11	56	97	135	168	197	223	246	266	283	299
37	1	309	95	31	3	30	60	92	123	152	178	202	223	241	257	272	284	28	0	0	11	56	97	135	168	197	223	246	266	283	299
38	1	309	95	31	3	30	60	92	123	152	178	202	223	241	257	272	284	28	0	0	11	56	97	135	168	197	223	246	266	283	299
39	1	206	115	32	0	0	43	94	141	181	216	247	273	296	315	333	347	28	0	0	11	56	97	135	168	197	223	246	266	283	299
40	1	206	115	32	0	0	43	94	141	181	216	247	273	296	315	333	347	28	0	0	11	56	97	135	168	197	223	246	266	283	299
41	1	103	95	35	0	1	5	11	18	26	34	42	50	58	65	72	78	38	8	30	59	93	128	162	192	218	240	258	274	287	297
42	1	103	95	35	0	1	5	11	18	26	34	42	50	58	65	72	78	38	8	30	59	93	128	162	192	218	240	258	274	287	297
43	1	103	95	38	4	19	39	64	91	119	145	170	191	211	227	242	254	38	8	30	59	93	128	162	192	218	240	258	274	287	297
44	1	103	95	38	4	19	39	64	91	119	145	170	191	211	227	242	254	38	8	30	59	93	128	162	192	218	240	258	274	287	297
45	1	103	125	42	0	0	0	16	37	61	87	114	142	169	198	220	244	43	0	0	0	0	0	45	88	128	164	196	225	251	274
46	1	103	125	42	0	0	0	16	37	61	87	114	142	169	196	220	244	43	0	0	0	0	0	45	88	128	164	196	225	251	274
47	1	206	115	43	0	0	0	0	0	45	88	128	164	196	225	251	274	43	0	0	0	0	0	45	88	128	164	196	225	251	274
48	1	206	115	43	0	0	0	0	0	45	88	128	164	196	225	251	274	43	0	0	0	0	0	45	88	128	164	196	225	251	274
49	1	103	135	43	0	0	0	0	0	45	88	128	164	196	225	251	274	43	0	0	0	0	0	45	88	128	164	196	225	251	274
50	1	103	135	43	0	0	0	0	0	45	88	128	164	196	225	251	274	43	0	0	0	0	0	45	88	128	164	196	225	251	274
51	1	206	95	46	0	0	11	34	59	85	111	137	162	186	208	229	248	47	4	20	47	84	129	176	220	257	288	312	330	344	355
52	1	206	95	46	0	0	11	34	59	85	111	137	162	186	208	229	248	47	4	20	47	84	129	176	220	257	288	312	330	344	355
53	1	309	115	46	0	0	11	34	59	85	111	137	162	186	208	229	248	47	4	20	47	84	129	176	220	257	288	312	330	344	355
54	1	309	115	46	0	0	11	34	59	85	111	137	162	186	208	229	248	47	4	20	47	84	129	176	220	257	288	312	330	344	355
55	1	103	135	46	0	0	11	34	59	85	111	137	162	186	208	229	248	47	4	20	47	84	129	176	220	257	288	312	330	344	355
56	1	103	135	46	0	0	11	34	59	85	111	137	162	186	208	229	248	47	4	20	47	84	129	176	220	257	288	312	330	344	355
57	1	206	205	46	0	0	11	34	59	85	111	137	162	186	208	229	248	47	4	20	47	84	129	176	220	257	288	312	330	344	355
58	1	206	205	46	0	0	11	34	59	85	111	137	162	186	208	229	248	47	4	20	47	84	129	176	220	257	288	317	330	344	355
59	1	103	95	49	3	6	12	20	32	48	70	96	125	157	189	222	253	50	5	12	25	46	77	118	162	210	257	300	339	373	401
60	1	103	95	49	3	6	12	20	32	48	70	96	125	157	189	222	253	50	5	12	25	46	77	118	162	210	257	300	338	373	401
61	1	412	145	52	0	0	0	3	14	25	37	50	63	77	90	102	115	52	0	0	[illegible]	3	14	25	37	50	63	77	90	102	115
62	1	412	145	52	0	0	0	3	14	25	37	50	63	77	90	102	115	52	0	0	0	3	14	25	37	50	63	77	90	102	115
63	1	103	95	54	0	0	0	4	27	48	70	88	108	124	140	164	186	54	0	0	0	4	27	48	70	88	108	124	140	164	186
64	1	103	95	54	0	0	0	4	27	48	70	88	108	124	140	164	186	54	0	0	0	4	27	48	70	88	108	124	140	164	186
65	1	309	145	54	0	0	0	4	27	48	70	88	108	124	140	164	186	54	0	0	0	4	27	48	70	88	108	124	140	164	186
66	1	309	145	54	0	0	0	4	27	48	70	88	108	124	140	164	186	54	0	0	0	4	27	48	70	88	108	124	140	164	186
67	1	103	75	58	0	4	15	27	38	48	58	65	72	77	82	85	88	59	0	7	19	32	45	56	65	73	79	84	88	91	93
68	1	103	75	58	0	4	15	27	38	48	58	65	72	77	82	85	88	59	0	7	19	32	45	56	65	73	79	84	88	91	93
69	1	103	95	58	0	4	15	27	38	48	58	65	72	77	82	85	88	59	0	7	19	32	45	56	65	73	79	84	88	91	93
70	1	103	95	58	0	4	15	27	38	48	58	65	72	77	82	85	88	59	0	7	19	32	46	56	65	73	79	84	88	91	93
	23484108.				0.	4.	11.	26.	48.	70.	93.	115.	138.	156.	174.	190.	206.		0.	2.	28	76	122.	165	201	231	256	277	294	308	320
73	2	54	205	1	0	0	0	0	0	0	0	0	0	1	8	14	20	1	0	0	0	0	0	0	0	0	0	1	8	14	20
74	2	54	205	1	0	0	0	0	0	0	0	0	0	1	8	14	20	1	0	0	0	0	0	0	0	0	0	1	8	14	20
75	2	54	95	10	10	20	33	48	66	84	102	119	135	149	162	173	184	16	0	0	37	97	153	201	240	271	286	316	331	344	354
76	2	54	95	10	10	20	33	48	66	84	102	119	135	149	162	173	184	16	0	0	37	97	153	201	240	271	286	316	331	344	354
77	2	54	75	11	0	22	58	88	117	142	163	181	197	210	221	231	239	16	0	0	37	97	153	201	240	271	286	316	331	344	354
78	2	54	75	11	0	22	58	88	117	142	163	181	197	210	221	231	239	16	0	0	37	97	153	201	240	271	286	316	331	344	354
79	2	54	75	12	0	0	31	68	106	143	178	205	231	252	271	288	300	16	0	0	37	97	153	201	240	271	286	316	331	344	354
80	2	54	75	12	0	0	31	68	106	143	178	205	231	252	271	288	300	16	0	0	37	97	153	201	240	271	286	316	331	344	354
81	2	54	125	15	0	14	57	104	149	189	224	254	278	297	313	327	338	16	0	0	37	97	153	201	240	271	286	316	331	344	354
82	2	54	125	15	0	14	57	104	149	189	224	254	278	297	313	327	338	16	0	0	37	97	153	201	240	271	286	316	331	344	354
83	2	54	65	22	0	0	0	9	29	50	70	90	110	129	147	164	180	28	0	0	11	56	97	135	168	197	223	246	266	283	299
84	2	54	65	22	0	0	0	9	29	50	70	90	110	129	147	164	180	28	0	0	11	56	97	135	168	197	223	246	266	283	299
85	2	108	125	22	0	0	0	9	29	50	70	90	110	129	147	164	180	28	0	0	11	56	97	135	168	197	223	246	266	283	299
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4640 21					0.	8	27.	61.	94.	127.	157.	185.	209.	231.	250.	267.	282.		1.	8	27.	69	112.	153	188	220.	247.	268.	288	304	318.
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569	17	67	125	14	0	39	79	115	146	172	193	211	225	238	249	256	264	16	0	0	37	97	153	201	240	271	296	316	331	344	354
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617	19	62	[illegible]	[illegible]	0	39	79	115	146	172	193	211	225	238	249	256	264	16	0	0	37	97	153	201	240	271	296	316	331	344	354
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622	19	248	[illegible]	[illegible]	0	14	57	104	149	189	224	254	278	297	313	327	338	16	0	0	37	97	153	201	240	271	296	316	331	344	354
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	1392115				1	8	20	36	55	74	93	111	129	146	161	178	189		2	10	24	48	76	107	137	163	187	208	225	240	253
707	21	63	125	5	0	0	0	13	[illegible]	59	83	106	128	148	167	184	200	16	0	0	37	97	153	201	240	271	286	316	331	344	364
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713	21	63	125	22	0	0	0	9	[illegible]	[illegible]	70	90	110	129	147	164	180	28	0	0	11	56	97	135	168	197	223	246	266	283	299
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716	21	126	105	31	3	30	60	92	[illegible]	[illegible]	[illegible]	202	223	241	257	272	284	28	0	0	11	56	97	135	168	197	223	246	266	283	299
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732	21	63	105	54	0	0	0	4	27	49	70	89	108	124	140	154	166	54	0	0	0	4	27	49	70	89	108	124	140	154	166
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804	23	57	15	38	4	19	39	64	91	119	145	170	191	211	227	242	254	39	8	30	59	93	128	162	192	218	240	258	274	287	297
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812	23	57	25	54	0	0	0	4	27	49	70	89	108	124	140	154	166	54	0	0	0	4	27	49	70	89	108	124	140	154	166
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809	23	57	205	52	0	0	0	3	14	25	37	50	63	77	90	102	115	52	0	0	0	3	14	25	37	50	63	77	90	102	115
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1203	32	177	115	51	0	0	0	0	1	2	3	4	5	7	9	12	15	51	0	0	0	0	1	2	3	4	5	7	9	12	15
1204	32	177	115	51	0	0	0	0	1	2	3	4	5	7	9	12	15	51	0	0	0	0	1	2	3	4	5	7	9	12	15
1205	32	59	205	51	0	0	0	0	1	2	3	4	5	7	9	12	15	51	0	0	0	0	1	2	3	4	5	7	9	12	15
1206	32	59	205	51	0	0	0	0	1	2	3	4	5	7	9	12	15	51	0	0	0	0	1	2	3	4	5	7	9	12	15
1207	32	59	95	52	0	0	0	3	14	25	37	50	63	77	90	102	115	52	0	0	0	3	14	25	37	50	63	77	90	102	115
1208	32	59	95	52	0	0	0	3	14	25	37	50	63	77	90	102	115	52	0	0	0	3	14	25	37	50	63	77	90	102	115
1209	32	59	105	52	0	0	0	3	14	25	37	50	63	77	90	102	115	52	0	0	0	3	14	25	37	50	63	77	90	102	115
1210	32	59	105	52	0	0	0	3	14	25	37	50	63	77	90	102	115	52	0	0	0	3	14	25	37	50	63	77	90	102	116
1211	32	59	115	52	0	0	0	3	14	25	37	50	63	77	90	102	115	52	0	0	0	3	14	25	37	50	63	77	90	102	115
1212	32	59	115	52	0	0	0	3	14	25	37	50	63	77	90	102	115	52	0	0	0	3	14	25	37	50	63	77	90	102	115
1213	32	59	205	53	0	0	0	0	0	1	4	8	12	17	22	27	32	53	0	0	0	0	0	1	4	8	12	17	22	27	32
1214	32	59	205	53	0	0	0	0	0	1	4	8	12	17	22	27	32	53	0	0	0	0	0	1	4	8	12	17	22	27	32
1215	32	118	115	54	0	0	0	4	27	49	70	89	108	124	140	154	166	54	0	0	0	4	27	49	70	89	108	124	140	154	166
1216	32	118	115	54	0	0	0	4	27	49	70	89	108	124	140	154	166	54	0	0	0	4	27	49	70	89	108	121	140	154	166
1217	32	59	95	58	0	4	15	27	38	49	58	65	72	77	82	85	88	59	0	7	19	32	45	56	65	73	79	84	88	91	93
1218	32	59	95	58	0	4	15	27	38	49	58	65	72	77	82	85	88	59	0	7	19	32	45	56	65	73	79	84	88	91	93
1219	32	59	105	58	0	4	15	27	38	49	58	65	72	77	82	85	88	59	0	7	19	32	45	56	65	73	79	84	88	91	93
1220	32	59	105	58	0	4	15	27	38	49	58	65	72	77	82	85	88	59	0	7	19	32	45	56	65	73	79	84	88	91	93
1221	32	59	115	58	0	4	15	27	38	49	58	65	72	77	82	85	88	59	0	7	19	32	45	56	65	73	79	84	88	91	93
1222	32	59	115	58	0	4	15	27	38	49	58	65	72	77	82	85	88	59	0	7	19	32	45	56	65	73	79	84	88	91	93
		4484116			0	7	23	44	67	91	113.	133	150.	166	180	192	203.		0.	4.	23.	55.	88.	119.	147.	170.	189.	208.	220	232.	243
1223	33	285	95	5	0	0	0	13	35	59	83	106	128	148	167	184	200	16	0	0	37	97	153	201	240	271	296	316	331	344	354
1224	33	265	95	5	0	0	0	13	35	59	83	106	128	148	167	184	200	16	0	0	37	97	153	201	240	271	296	316	331	344	354
1225	33	159	95	14	0	39	79	115	146	172	193	211	225	238	249	256	264	16	0	0	37	97	153	201	240	271	296	316	331	344	354
1226	33	159	95	14	0	39	79	115	146	172	193	211	225	238	249	256	264	16	0	0	37	97	153	201	240	271	296	316	331	344	354
1227	33	53	95	18	0	0	0	0	0	0	0	2	19	35	50	64	77	28	0	0	11	56	97	135	168	197	223	246	266	283	299
1228	33	53	95	18	0	0	0	0	0	0	0	2	19	35	50	64	77	28	0	0	11	56	97	135	168	197	223	246	266	283	299

1229	33	53	115	22	0	0	0	9	29	50	70	90	110	129	147	164	180	28	0	0	11	56	97	135	168	197	223	246	266	283	299
1230	33	53	115	22	0	0	0	9	29	50	70	90	110	129	147	164	180	28	0	0	11	56	97	135	168	197	223	246	266	283	299
1231	33	53	95	32	0	0	43	84	141	181	216	247	273	296	315	333	347	28	0	0	11	56	97	135	168	197	223	246	266	283	299
1232	33	53	95	32	0	0	43	84	141	181	216	247	273	296	315	333	347	28	0	0	11	56	97	135	168	197	223	246	266	283	299
1233	33	212	95	38	4	19	39	64	91	119	145	170	191	211	227	242	254	39	8	30	59	93	128	162	192	218	240	258	274	287	297
1234	33	212	95	38	4	19	39	64	91	119	145	170	191	211	227	242	254	39	8	30	59	93	128	162	192	218	240	258	274	287	297
1235	33	53	95	42	0	0	0	16	37	61	87	114	142	169	196	220	244	43	0	0	0	0	0	45	88	128	164	196	225	251	274
1236	33	53	95	42	0	0	0	16	37	61	87	114	142	169	196	220	244	43	0	0	0	0	0	45	88	128	164	196	225	251	274
1237	33	53	115	42	0	0	0	16	37	61	87	114	142	169	196	220	244	43	0	0	0	0	0	45	88	128	164	196	225	251	274
1238	33	53	115	42	0	0	0	16	37	61	87	114	142	169	196	220	244	43	0	0	0	0	0	45	88	128	164	196	225	251	274
1239	33	159	95	43	0	0	0	0	0	45	88	128	164	196	225	251	274	43	0	0	0	0	0	45	88	128	164	196	225	251	274
1240	33	159	95	43	0	0	0	0	0	45	88	128	164	196	225	251	274	43	0	0	0	0	0	45	88	128	164	196	225	251	274
1241	33	53	95	46	0	0	11	34	59	85	111	137	162	186	208	229	248	47	4	20	47	84	129	176	220	257	288	312	330	344	355
1242	33	53	95	46	0	0	11	34	59	85	111	137	162	186	200	229	248	47	4	20	47	84	129	176	220	257	288	312	330	344	355
1243	33	106	205	46	0	0	11	34	59	85	111	137	162	186	208	229	248	47	4	20	47	84	129	176	220	257	288	312	330	344	355
1244	33	106	205	46	0	0	11	34	59	85	111	137	162	186	208	229	248	47	4	20	47	84	129	176	220	257	288	312	330	344	355
1245	33	371	95	49	3	6	12	20	32	49	70	96	125	157	189	222	253	50	5	12	25	46	77	118	162	210	257	300	339	373	401
1246	33	371	95	49	3	6	12	20	32	49	70	96	125	157	189	222	253	50	5	12	25	46	77	118	162	210	257	300	339	373	401
1247	33	53	115	49	3	6	12	20	32	49	70	96	125	157	189	222	253	50	5	12	25	46	77	118	162	210	257	300	339	373	401
1248	33	53	115	49	3	6	12	20	32	49	70	96	125	157	189	222	253	50	5	12	25	46	77	118	162	210	257	300	339	373	401
1249	33	212	115	51	0	0	0	0	1	2	3	4	5	7	9	12	15	51	0	0	0	0	1	2	3	4	5	7	9	12	15
1250	33	212	115	51	0	0	0	0	1	2	3	4	5	7	9	12	15	51	0	0	0	0	1	2	3	4	5	7	9	12	15
1251	33	106	95	52	0	0	0	3	14	25	37	50	63	77	90	102	115	52	0	0	0	3	14	25	37	50	63	77	90	102	115
1252	33	106	95	52	0	0	0	3	14	25	37	50	63	77	90	102	115	52	0	0	0	3	14	25	37	50	63	77	90	102	115
1253	33	53	95	54	0	0	0	4	27	49	70	89	108	124	140	154	166	54	0	0	0	4	27	49	70	89	108	124	140	154	166
1254	33	53	95	54	0	0	0	4	27	49	70	89	108	124	140	154	166	54	0	0	0	4	27	49	70	89	108	124	140	154	166
1255	33	53	115	54	0	0	0	4	27	49	70	89	108	124	140	154	166	54	0	0	0	4	27	49	70	89	108	124	140	154	166
1256	33	53	115	54	0	0	0	4	27	49	70	89	108	124	140	154	166	54	0	0	0	4	27	49	70	89	108	124	140	154	166
1257	33	954	95	58	0	4	15	27	38	49	58	65	72	77	82	85	88	59	0	7	19	32	45	56	65	73	79	84	88	91	93
1258	33	954	95	58	0	4	15	27	38	49	58	65	72	77	82	85	88	59	0	7	19	32	45	56	65	73	79	84	88	91	93
		6042101			0.	5.	14.	27.	42	60.	76.	95	112	128.	143.	157.	170.		1.	7.	21.	44.	68.	95.	122.	146.	167.	185.	200	214.	228.

11. Appendix III - The number of trees per ha for the main species

The number of trees per hectare as a function of age was determined by fitting a least squares straight line to PSP data from the company for each species below:

Lodgepole pine: # of TREES/HA = 2374 - 103 AGE/10

White spruce: # of TREES/HA = 1105 - 50.4 AGE/10

Black spruce: # of TREES/HA = 1643 - 18.0 AGE/10

Alpine/Balsam fir: # of TREES/HA = 1405 - 45.6 AGE/10

Mixed softwood: # of TREES/HA = 351 - 20.0 AGE/10

12. Appendix IV - The tree sizes and woodlands costs for each yield stream by age class

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First rows    the identity of yield streams
Second rows   the tree sizes (m3/tree)  from 3 to 15 decades
Third rows    woodlands costs ($/m3) from 3 to 15 decades

Woodlands cost = 8.9465 - 2.6288 * LNLOG(TREE SIZE)
 * LNLOG   Natural logarithm

 1
0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0009 0.0078 0.0151 0.0243
 0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000 27.434 21.717 19.969 18.718

 2
0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0076 0.0179 0.0295 0.0441 0.0612 0.0809 0.1057
 0.000  0.000  0.000  0.000  0.000  0.000 21.768 19.521 18.172 17.150 16.292 15.557 14.854

 3
0.0000 0.0000 0.0000 0.0000 0.0055 0.0168 0.0305 0.0463 0.0639 0.0856 0.1097 0.1392 0.1738
 0.000  0.000  0.000  0.000 22.646 19.668 18.124 17.026 16.178 15.408 14.756 14.131 13.547

 4
0.0000 0.0000 0.0081 0.0217 0.0370 0.0524 0.0693 0.0873 0.1067 0.1289 0.1534 0.1812 0.2163
 0.000  0.000 21.614 19.020 17.615 16.700 15.965 15.356 14.829 14.333 13.875 13.436 12.972

 5
0.0000 0.0000 0.0000 0.0074 0.0212 0.0381 0.0575 0.0791 0.1035 0.1306 0.1621 0.1985 0.2430
 0.000  0.000  0.000 21.840 19.076 17.534 16.455 15.616 14.910 14.297 13.729 13.197 12.665

 6
0.0000 0.0000 0.0000 0.0000 0.0048 0.0259 0.0492 0.0746 0.1035 0.1350 0.1699 0.2104 0.2588
 0.000  0.000  0.000  0.000 22.966 18.585 16.866 15.769 14.910 14.210 13.606 13.045 12.500

 7
0.0000 0.0031 0.0188 0.0359 0.0533 0.0718 0.0914 0.1119 0.1334 0.1580 0.1854 0.2168 0.2564
 0.000 24.164 19.386 17.691 16.652 15.872 15.236 14.703 14.242 13.797 13.376 12.965 12.525

 8
0.0000 0.0000 0.0048 0.0217 0.0412 0.0640 0.0886 0.1157 0.1455 0.1783 0.2146 0.2567 0.3074
 0.000  0.000 22.967 19.020 17.330 16.173 15.318 14.617 14.013 13.479 12.993 12.521 12.047

 9
0.0000 0.0000 0.0000 0.0083 0.0316 0.0588 0.0886 0.1194 0.1528 0.1898 0.2291 0.2751 0.3293
 0.000  0.000  0.000 22.279 18.035 16.394 15.316 14.533 13.865 13.316 12.820 12.338 11.867

 10
0.0048 0.0102 0.0178 0.0274 0.0400 0.0543 0.0705 0.0888 0.1091 0.1315 0.1573 0.1866 0.2236
22.959 20.999 19.541 18.406 17.408 16.605 15.913 15.312 14.770 14.279 13.809 13.369 12.884

 11
0.0000 0.0112 0.0302 0.0502 0.0708 0.0918 0.1129 0.1361 0.1593 0.1853 0.2146 0.2482 0.2904
 0.000 20.749 18.161 16.813 15.903 15.225 14.681 14.209 13.776 13.377 12.993 12.598 12.187

 12
0.0000 0.0000 0.0187 0.0388 0.0642 0.0924 0.1219 0.1530 0.1867 0.2224 0.2631 0.3085 0.3645
 0.000  0.000 19.705 17.490 16.163 15.206 14.479 13.882 13.358 12.898 12.456 12.038 11.599

 13
0.0000 0.0000 0.0011 0.0298 0.0612 0.0944 0.1281 0.1634 0.1997 0.2383 0.2806 0.3290 0.3864
 0.000  0.000 26.811 18.188 16.290 15.152 14.348 13.708 13.182 12.717 12.287 11.889 11.446

 14
0.0000 0.0189 0.0425 0.0656 0.0885 0.1112 0.1337 0.1575 0.1819 0.2101 0.2417 0.2782 0.3206
 0.000 19.244 17.246 16.108 15.321 14.721 14.237 13.808 13.427 13.048 12.678 12.329 11.935

 15
0.0000 0.0071 0.0307 0.0593 0.0903 0.1222 0.1551 0.1886 0.2247 0.2621 0.3039 0.3528 0.4107
 0.000 21.937 18.104 16.374 15.268 14.473 13.845 13.318 12.871 12.466 12.078 11.686 11.286

 16
0.0000 0.0000 0.0198 0.0553 0.0927 0.1298 0.1662 0.2022 0.2383 0.2789 0.3214 0.3711 0.4301
 0.000  0.000 19.240 16.557 15.198 14.311 13.664 13.148 12.706 12.303 11.931 11.552 11.164

 17
0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0008 0.0071 0.0155 0.0248 0.0377
 0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000 27.885 21.967 19.895 18.664 17.566

 18
0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0015 0.0164 0.0309 0.0485 0.0680 0.0936
 0.000  0.000  0.000  0.000  0.000  0.000  0.000 26.083 19.824 18.088 16.898 15.973 15.175

 19
0.0000 0.0000 0.0027 0.0074 0.0127 0.0187 0.0263 0.0343 0.0437 0.0547 0.0680 0.0831 0.1021
 0.000  0.000 24.502 21.840 20.419 19.401 18.509 17.810 17.176 16.584 16.015 15.487 14.946

 20
0.0000 0.0000 0.0000 0.0000 0.0036 0.0138 0.0249 0.0388 0.0542 0.0724 0.0942 0.1197 0.1507
 0.000  0.000  0.000  0.000 23.712 20.248 18.651 17.488 16.611 15.849 15.157 14.526 13.922

 21
0.0000 0.0015 0.0065 0.0131 0.0206 0.0291 0.0388 0.0500 0.0622 0.0759 0.0922 0.1111 0.1361
 0.000 25.987 22.200 20.340 19.152 18.246 17.480 16.822 16.248 15.724 15.212 14.723 14.190

 22
0.0000 0.0000 0.0000 0.0051 0.0176 0.0323 0.0485 0.0672 0.0889 0.1139 0.1427 0.1769 0.2187
 0.000  0.000  0.000 22.807 19.570 17.968 16.903 16.046 15.308 14.656 14.064 13.500 12.942

 23
0.0000 0.0041 0.0145 0.0268 0.0412 0.0569 0.0748 0.0948 0.1184 0.1412 0.1709 0.2039 0.2454
 0.000 23.408 20.089 18.481 17.330 16.483 15.763 15.141 14.600 14.092 13.591 13.127 12.639

 24
0.0000 0.0000 0.0000 0.0114 0.0338 0.0575 0.0824 0.1097 0.1382 0.1703 0.2068 0.2492 0.3001
 0.000  0.000  0.000 20.706 17.840 16.453 15.508 14.786 14.148 13.599 13.090 12.598 12.110

 25
0.0000 0.0000 0.0038 0.0177 0.0346 0.0543 0.0762 0.1007 0.1293 0.1606 0.1971 0.2406 0.2928
 0.000  0.000 23.617 19.555 17.784 16.606 15.715 14.980 14.323 13.754 13.218 12.692 12.175

 26
0.0005 0.0077 0.0172 0.0279 0.0408 0.0543 0.0693 0.0851 0.1035 0.1227 0.1458 0.1715 0.2041
29.012 21.766 19.622 18.352 17.369 16.606 15.965 15.424 14.910 14.462 14.011 13.581 13.124

 27
0.0000 0.0092 0.0228 0.0388 0.0570 0.0763 0.0983 0.1216 0.1478 0.1774 0.2107 0.2492 0.2965
 0.000 21.276 18.907 17.490 16.479 15.711 15.044 14.485 13.970 13.493 13.041 12.599 12.143

 28
0.0000 0.0000 0.0059 0.0318 0.0588 0.0873 0.1163 0.1470 0.1803 0.2171 0.2583 0.3053 0.3633
```

	0.000	0.000	22.429	16.001	16.396	15.354	14.602	13.986	13.450	12.981	12.507	12.061	11.608
29													
	0.0000	0.0000	0.0135	0.0325	0.0552	0.0802	0.1080	0.1388	0.1730	0.2109	0.2593	0.3053	0.3670
	0.000	0.000	20.271	17.954	16.564	15.581	14.796	14.138	13.559	13.037	12.535	12.068	11.582
30													
	0.0029	0.0117	0.0237	0.0371	0.0521	0.0685	0.0866	0.1045	0.1248	0.1485	0.1718	0.2006	0.2357
	24.302	20.639	18.785	17.609	16.712	15.993	15.379	14.884	14.424	13.895	13.576	13.169	12.748
31													
	0.0015	0.0153	0.0323	0.0525	0.0745	0.0983	0.1233	0.1507	0.1803	0.2127	0.2495	0.2934	0.3451
	26.124	19.934	17.970	16.686	15.772	15.046	14.450	13.921	13.450	13.015	12.596	12.170	11.743
32													
	0.0000	0.0000	0.0232	0.0536	0.0855	0.1170	0.1496	0.1843	0.2207	0.2613	0.3058	0.3692	0.4216
	0.000	0.000	18.845	16.639	15.413	14.587	13.941	13.392	12.919	12.475	12.061	11.638	11.217
33													
	0.0000	0.0051	0.0258	0.0502	0.0782	0.1089	0.1434	0.1799	0.2191	0.2639	0.3126	0.3711	0.4399
	0.000	22.822	18.558	16.813	15.647	14.752	14.053	13.457	12.938	12.449	12.003	11.552	11.106
34													
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0007	0.0024	0.0044	0.0068	0.0097	0.0134
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	27.875	24.777	23.203	22.088	21.130	20.290
35													
	0.0000	0.0005	0.0027	0.0063	0.0109	0.0168	0.0235	0.0313	0.0404	0.0512	0.0631	0.0777	0.0948
	0.000	28.875	24.502	22.279	20.824	19.688	18.801	18.049	17.381	16.760	16.210	15.664	15.141
36													
	0.0000	0.0010	0.0048	0.0108	0.0176	0.0259	0.0367	0.0493	0.0631	0.0803	0.1000	0.1241	0.1543
	0.000	27.052	22.957	20.842	19.570	18.555	17.634	16.861	16.212	15.576	15.000	14.433	13.859
37													
	0.0010	0.0061	0.0135	0.0234	0.0352	0.0478	0.0618	0.0761	0.0914	0.1077	0.1262	0.1467	0.1725
	27.190	22.342	20.271	18.820	17.748	16.938	16.272	15.717	15.237	14.805	14.388	13.992	13.586
38													
	0.0019	0.0097	0.0210	0.0365	0.0552	0.0769	0.1004	0.1269	0.1544	0.1862	0.2204	0.2611	0.3088
	25.388	21.134	19.102	17.650	16.564	15.689	14.989	14.374	13.858	13.366	12.922	12.477	12.037
39													
	0.0039	0.0153	0.0318	0.0530	0.0776	0.1047	0.1330	0.1627	0.1940	0.2277	0.2660	0.3096	0.3608
	23.545	19.934	18.014	16.667	15.667	14.878	14.251	13.720	13.257	12.838	12.428	12.029	11.626
40													
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0036	0.0180	0.0378	0.0652	0.1032
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23.712	19.507	17.559	16.126	14.918
41													
	0.0000	0.0000	0.0047	0.0175	0.0319	0.0470	0.0630	0.0815	0.1018	0.1240	0.1511	0.1830	0.2235
	0.000	0.000	23.043	19.588	18.002	16.984	16.215	15.536	14.952	14.434	13.914	13.412	12.886
42													
	0.0000	0.0000	0.0000	0.0200	0.0492	0.0869	0.1336	0.1897	0.2582	0.3380	0.4358	0.5514	0.6891
	0.000	0.000	0.000	19.237	16.884	15.369	14.237	13.317	12.506	11.798	11.131	10.512	9.887
43													
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0641	0.1352	0.2130	0.2982	0.3920	0.5000	0.6291	0.7851
	0.000	0.000	0.000	0.000	0.000	16.188	14.207	13.012	12.127	11.408	10.788	10.185	9.583
44													
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0080	0.0400	0.0827	0.1404
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21.638	17.408	15.499	14.107
45													
	0.0000	0.0011	0.0082	0.0187	0.0359	0.0584	0.0906	0.1314	0.1838	0.2480	0.3289	0.4286	0.5530
	0.000	26.837	21.572	19.407	17.892	16.413	15.258	14.281	13.402	12.612	11.870	11.174	10.504
46													
	0.0000	0.0000	0.0129	0.0424	0.0785	0.1211	0.1705	0.2280	0.2948	0.3720	0.4622	0.5738	0.7106
	0.000	0.000	20.384	17.285	15.637	14.497	13.597	12.833	12.160	11.548	10.975	10.408	9.845
47													
	0.0042	0.0221	0.0551	0.1047	0.1715	0.2507	0.3379	0.4278	0.5238	0.6240	0.7333	0.8622	1.0172
	23.338	18.962	16.588	14.878	13.581	12.683	11.798	11.180	10.647	10.188	9.782	9.338	8.902
48													
	0.0000	0.0011	0.0023	0.0025	0.0040	0.0057	0.0092	0.0116	0.0184	0.0240	0.0311	0.0461	0.0830
	0.000	26.837	24.866	24.703	23.468	22.531	21.267	20.852	19.758	18.751	18.069	17.082	16.213
49													
	0.0031	0.0066	0.0141	0.0249	0.0428	0.0898	0.1078	0.1597	0.2273	0.3140	0.4200	0.5584	0.7248
	24.094	22.127	20.155	18.850	17.248	15.945	14.809	13.768	12.841	11.992	11.227	10.488	9.782
50													
	0.0062	0.0133	0.0293	0.0574	0.1024	0.1652	0.2488	0.3494	0.4673	0.6000	0.7533	0.9348	1.1490
	22.751	20.305	18.228	16.481	14.937	13.879	12.603	11.711	10.947	10.289	9.691	9.124	8.581
51													
	0.0000	0.0000	0.0000	0.0000	0.0007	0.0013	0.0020	0.0027	0.0035	0.0049	0.0064	0.0086	0.0108
	0.000	0.000	0.000	0.000	28.201	26.348	25.252	24.463	23.844	22.927	22.231	21.443	20.820
52													
	0.0000	0.0000	0.0000	0.0020	0.0092	0.0187	0.0260	0.0342	0.0438	0.0539	0.0639	0.0733	0.0838
	0.000	0.000	0.000	25.344	21.264	19.708	18.847	17.824	17.184	16.623	16.178	15.817	15.486
53													
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0007	0.0027	0.0055	0.0083	0.0119	0.0188	0.0194	0.0233
	0.000	0.000	0.000	0.000	0.000	28.170	24.495	22.641	21.543	20.694	19.881	19.311	18.828
54													
	0.0000	0.0000	0.0000	0.0028	0.0178	0.0327	0.0472	0.0608	0.0747	0.0868	0.0994	0.1106	0.1209
	0.000	0.000	0.000	24.588	19.537	17.939	16.971	16.308	15.767	15.371	15.018	14.734	14.501
55													
	0.0126	0.0245	0.0408	0.0531	0.0718	0.0884	0.1177	0.1370	0.1595	0.1641	0.2108	0.2412	0.2748
	20.441	18.692	17.357	16.666	15.870	15.283	14.571	14.172	13.773	13.394	13.042	12.685	12.344
56													
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0076	0.0270	0.0549	0.1127	0.1981
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21.782	18.439	16.674	14.686	13.229
57													
	0.0000	0.0185	0.0518	0.0909	0.1327	0.1832	0.2398	0.3048	0.3817	0.4885	0.6264	0.8310	1.1981
	0.000	19.442	16.729	15.250	14.256	13.407	12.701	12.071	11.478	10.841	10.178	9.433	8.478
58													
	0.0000	0.0148	0.0598	0.1189	0.1801	0.2585	0.3392	0.4306	0.5498	0.6937	0.9011	1.1972	1.7266

0 000	20 035	16 353	14 889	13 453	12 525	11 789	11 162	10 520	9 908	9 220	8 473	7 512	

69

0 0000	0 0258	0 0757	0 1388	0 2133	0 2932	0 3801	0 4834	0 6031	0 7568	0 9870	1 2817	1 8235	
0 000	18 868	15 731	14 143	13 009	12 172	11 489	10 857	10 276	9 679	9 035	8 294	7 367	

1 80

0 0412	0 1033	0 1713	0 2424	0 3223	0 3879	0 4854	0 5894	0 7089	0 8649	1 0879	1 4225	2 0198	
17 328	14 914	13 564	12 872	11 923	11 369	10 847	10 336	9 847	9 328	8 725	8 020	7 089	

13. Appendix V - The hauling costs from truck to mill

Delivery Cost= 0.7616 + 0.03795(Haul Distance) + 65.7272(1/INSDIAM)

Units: Haul Distance: Km
INSDIAM: Cm (the utilization standard stump diameter inside bark)
Delivery Cost: $\$/m^3$

Determination of representative haul distances:

```
If(0 < Haul Distance <= 20) then
        Haul Distance = 10 Km
Elseif(20 < Haul Distance <= 40) then
             Haul Distance = 30 Km
Elseif(40 < Haul Distance <= 60) then
             Haul Distance = 50 Km
Elseif(60 < Haul Distance <= 80) then
             Haul Distance = 70 Km
Elseif(80 < Haul Distance <= 100) then
             Haul Distance = 90 Km
Elseif(100 < Haul Distance <=120) then
              Haul Distance = 110 Km
Endif
```

14. Appendix VI - The average delivered wood costs for compartment based management units in working circle 1

WORKING CIRCLE 1 (20km class grouped data for hauling cost)

First column the identity of stand
Second column the identity of compartment
Third column the area of stand in hectares
Fourth column the age of stand
Fifth column the yield stream identity for existing stand
Sixth to Fifteenth the cost stream ($/m3) for existing stand from 6 to 15 decades
Sixteenth column the yield stream identity for regeneration stand
Seventeenth to the end the cost stream ($/m3) for regeneration stand from 6 to 15 decades

The average delivered wood costs (woodlands cost + hauling cost) are below each compartment from 6 to 15 decades

1	1	412	95	2	0.0	0.0	0.0	28.1	25.8	24.5	23.4	22.6	21.8	21.1	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
2	1	412	95	2	0.0	0.0	0.0	28.1	25.8	24.5	23.4	22.6	21.8	21.1	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
3	1	103	125	2	0.0	0.0	0.0	28.1	25.8	24.5	23.4	22.6	21.8	21.1	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
4	1	103	125	2	0.0	0.0	0.0	28.1	25.8	24.5	23.4	22.6	21.8	21.1	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
5	1	103	205	2	0.0	0.0	0.0	28.1	25.8	24.5	23.4	22.6	21.8	21.1	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
6	1	103	205	2	0.0	0.0	0.0	28.1	25.8	24.5	23.4	22.6	21.8	21.1	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
7	1	103	75	3	0.0	28.9	26.0	24.4	23.3	22.5	21.7	21.0	20.4	19.8	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
8	1	103	75	3	0.0	28.9	26.0	24.4	23.3	22.5	21.7	21.0	20.4	19.8	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
9	1	103	145	3	0.0	28.9	26.0	24.4	23.3	22.5	21.7	21.0	20.4	19.8	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
10	1	103	145	3	0.0	28.9	26.0	24.4	23.3	22.5	21.7	21.0	20.4	19.8	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
11	1	3090	95	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
12	1	3090	95	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
13	1	103	115	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
14	1	103	115	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
15	1	206	125	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
16	1	206	125	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
17	1	1030	95	6	0.0	29.2	24.8	23.1	22.1	21.2	20.5	19.9	19.3	18.8	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
18	1	1030	95	6	0.0	29.2	24.8	23.1	22.1	21.2	20.5	19.9	19.3	18.8	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
19	1	515	95	10	24.7	23.7	22.9	22.2	21.6	21.1	20.6	20.1	19.6	19.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
20	1	515	95	10	24.7	23.7	22.9	22.2	21.6	21.1	20.6	20.1	19.6	19.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
21	1	412	95	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
22	1	412	95	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
23	1	618	95	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
24	1	618	95	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
25	1	103	95	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
26	1	103	95	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
27	1	206	35	18	0.0	0.0	0.0	0.0	32.3	28.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
28	1	206	35	18	0.0	0.0	0.0	0.0	32.3	28.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
29	1	927	95	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
30	1	927	95	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
31	1	309	105	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
32	1	309	105	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
33	1	103	205	23	24.7	23.6	22.8	22.0	21.4	20.9	20.4	19.9	19.4	18.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
34	1	103	205	23	24.7	23.6	22.8	22.0	21.4	20.9	20.4	19.9	19.4	18.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
35	1	206	205	24	27.0	24.1	22.7	21.8	21.0	20.4	19.9	19.4	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
36	1	206	205	24	27.0	24.1	22.7	21.8	21.0	20.4	19.9	19.4	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
37	1	309	95	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
38	1	309	95	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
39	1	206	115	32	22.9	21.7	20.9	20.2	19.7	19.2	18.8	18.3	17.9	17.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
40	1	206	115	32	22.9	21.7	20.9	20.2	19.7	19.2	18.8	18.3	17.9	17.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
41	1	103	95	35	28.6	27.1	26.0	25.1	24.3	23.7	23.0	22.5	21.9	21.4	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
42	1	103	95	35	28.6	27.1	26.0	25.1	24.3	23.7	23.0	22.5	21.9	21.4	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
43	1	103	95	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
44	1	103	95	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
45	1	103	125	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
46	1	103	125	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
47	1	206	115	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
48	1	206	115	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
49	1	103	135	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
50	1	103	135	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
51	1	206	95	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
52	1	206	95	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
53	1	309	115	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
54	1	309	115	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
55	1	103	135	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
56	1	103	135	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
57	1	206	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
58	1	206	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
59	1	103	95	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
60	1	103	95	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
61	1	412	145	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
62	1	412	145	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
63	1	103	95	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
64	1	103	95	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
65	1	309	145	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
66	1	309	145	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
67	1	103	75	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
68	1	103	75	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
69	1	103	95	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
70	1	103	95	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
		23484	106		26.853	24.848	23.196	22.470	21.783	20.563	20.353	19.789	19.281	18.736											
					23.576	21.948	21.024	20.270	19.682	19.184	18.738	18.328	17.922	17.506											
73	2	64	205	1	0.0	0.0	0.0	0.0	0.0	0.0	33.7	28.0	26.3	25.0	1	0.0	0.0	0.0	0.0	0.0	0.0	33.7	28.0	26.3	25.0
74	2	64	205	1	0.0	0.0	0.0	0.0	0.0	0.0	33.7	28.0	26.3	25.0	1	0.0	0.0	0.0	0.0	0.0	0.0	33.7	28.0	26.3	25.0
75	2	64	95	10	24.7	23.7	22.9	22.2	21.6	21.1	20.6	20.1	19.6	19.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
76	2	64	95	10	24.7	23.7	22.9	22.2	21.6	21.1	20.6	20.1	19.6	19.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
77	2	64	75	11	23.1	22.2	21.5	21.0	20.5	20.1	19.7	19.3	18.9	18.5	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
78	2	64	75	11	23.1	22.2	21.5	21.0	20.5	20.1	19.7	19.3	18.9	18.5	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
79	2	64	75	12	23.8	22.4	21.5	20.8	20.2	19.6	19.2	18.7	18.3	17.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
80	2	64	75	12	23.8	22.4	21.5	20.8	20.2	19.6	19.2	18.7	18.3	17.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
81	2	64	125	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
82	2	64	125	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
83	2	64	65	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
84	2	64	65	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
85	2	108	125	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
86	2	108	125	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
87	2	64	95	36	27.1	25.9	24.8	23.9	23.1	22.5	21.9	21.3	20.7	20.1	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
88	2	64	95	36	27.1	25.9	24.8	23.9	23.1	22.5	21.9	21.3	20.7	20.1	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
89	2	64	95	37	25.1	24.0	23.2	22.6	22.0	21.5	21.1	20.7	20.3	19.8	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
90	2	64	95	37	25.1	24.0	23.2	22.6	22.0	21.5	21.1	20.7	20.3	19.8	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
91	2	64	95	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
92	2	64	95	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
93	2	216	95	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
94	2	216	95	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
95	2	162	125	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
96	2	162	125	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
97	2	162	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
98	2	162	205	42	25.5	23.1	21.7	20.5	19.3	18.8	18.1	17.4	16.6	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
99	2	64	65	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
100	2	64	65	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
101	2	64	125	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
102	2	64	125	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9

103	2	54	65	45	25.7	24.0	22.7	21.5	20.6	19.7	18.9	18.2	17.5	16.8	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
104	2	54	65	45	25.7	24.0	22.7	21.5	20.6	19.7	18.9	18.2	17.5	16.8	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
105	2	162	95	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
106	2	162	95	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
107	2	216	125	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
108	2	216	125	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
109	2	54	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
110	2	54	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
111	2	54	55	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
112	2	54	55	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
113	2	54	65	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
114	2	54	65	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
115	2	54	75	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
116	2	54	75	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
117	2	270	95	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
118	2	270	95	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
119	2	216	125	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
120	2	216	125	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
121	2	54	205	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
122	2	54	205	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
123	2	54	65	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
124	2	54	65	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
125	2	54	75	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
126	2	54	75	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
127	2	54	205	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
128	2	54	205	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
129	2	108	95	57	21.5	20.5	19.7	19.0	18.4	17.8	17.1	16.5	15.7	14.8	60	19.0	18.2	17.7	17.1	16.6	16.1	15.6	15.0	14.3	13.4
130	2	108	95	57	21.5	20.5	19.7	19.0	18.4	17.8	17.1	16.5	15.7	14.8	60	19.0	18.2	17.7	17.1	16.6	16.1	15.6	15.0	14.3	13.4
131	2	54	125	57	21.5	20.5	19.7	19.0	18.4	17.8	17.1	16.5	15.7	14.8	60	19.0	18.2	17.7	17.1	16.6	16.1	15.6	15.0	14.3	13.4
132	2	54	125	57	21.5	20.5	19.7	19.0	18.4	17.8	17.1	16.5	15.7	14.8	60	19.0	18.2	17.7	17.1	16.6	16.1	15.6	15.0	14.3	13.4
133	2	54	75	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
134	2	54	75	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
135	2	324	95	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
136	2	324	95	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
137	2	54	125	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
138	2	54	125	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
		6372	111		24.252	22.622	21.496	20.522	19.715	18.993	18.596	17.863	17.245	16.585											
					22.113	20.787	20.380	19.317	18.546	17.802	17.610	16.985	16.423	15.841											
143	3	118	205	2	0.0	0.0	0.0	28.1	25.8	24.5	23.4	22.6	21.8	21.1	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
144	3	118	205	2	0.0	0.0	0.0	28.1	25.8	24.5	23.4	22.6	21.8	21.1	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
145	3	118	95	5	26.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
146	3	118	95	5	26.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
147	3	59	5	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
148	3	59	5	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
149	3	59	125	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
150	3	59	125	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
151	3	59	95	21	26.6	25.4	24.5	23.8	23.1	22.5	22.0	21.5	21.0	20.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
152	3	59	95	21	26.6	25.4	24.5	23.8	23.1	22.5	22.0	21.5	21.0	20.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
153	3	59	205	21	26.6	25.4	24.5	23.8	23.1	22.5	22.0	21.5	21.0	20.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
154	3	59	205	21	26.6	25.4	24.5	23.8	23.1	22.5	22.0	21.5	21.0	20.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
155	3	59	205	23	24.7	23.6	22.8	22.0	21.4	20.9	20.4	19.9	19.4	18.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
156	3	59	205	23	24.7	23.6	22.8	22.0	21.4	20.9	20.4	19.9	19.4	18.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
157	3	59	95	30	23.9	23.0	22.3	21.7	21.2	20.7	20.3	19.9	19.5	19.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
158	3	59	95	30	23.9	23.0	22.3	21.7	21.2	20.7	20.3	19.9	19.5	19.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
159	3	59	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
160	3	59	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
161	3	59	55	45	25.7	24.0	22.7	21.5	20.6	19.7	18.9	18.2	17.5	16.8	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
162	3	59	55	45	25.7	24.0	22.7	21.5	20.6	19.7	18.9	18.2	17.5	16.8	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
163	3	59	205	45	25.7	24.0	22.7	21.5	20.6	19.7	18.9	18.2	17.5	16.8	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2

164	3	59	205	45	25.7	24.0	22.7	21.5	20.6	19.7	18.9	18.2	17.5	16.8	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
165	3	354	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
166	3	354	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
167	3	59	5	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
168	3	59	5	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
169	3	59	95	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
170	3	59	95	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
171	3	59	5	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
172	3	59	5	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
		2586	142.		24.661	22.944	21.848	21.630	20.772	20.073	19.495	18.874	18.316	17.739											
					22.628	21.092	20.211	19.417	18.797	18.288	17.798	17.384	16.908	16.440											
173	4	62	35	2	0.0	0.0	0.0	28.1	25.8	24.5	23.4	22.6	21.8	21.1	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
174	4	62	35	2	0.0	0.0	0.0	28.1	25.8	24.5	23.4	22.6	21.8	21.1	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
175	4	124	105	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
176	4	124	105	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
177	4	62	125	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
178	4	62	125	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
179	4	62	205	41	25.9	24.3	23.3	22.5	21.8	21.2	20.7	20.2	19.7	19.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
180	4	62	205	41	25.9	24.3	23.3	22.5	21.8	21.2	20.7	20.2	19.7	19.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
181	4	62	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
182	4	62	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
183	4	186	125	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
184	4	186	125	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
185	4	62	205	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
186	4	62	205	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
187	4	62	205	44	0.0	0.0	0.0	0.0	0.0	0.0	27.9	23.7	21.8	20.4	44	0.0	0.0	0.0	0.0	0.0	0.0	27.9	23.7	21.8	20.4
188	4	62	205	44	0.0	0.0	0.0	0.0	0.0	0.0	27.9	23.7	21.8	20.4	44	0.0	0.0	0.0	0.0	0.0	0.0	27.9	23.7	21.8	20.4
189	4	186	35	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
190	4	186	35	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
191	4	186	115	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
192	4	186	115	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
193	4	186	125	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
194	4	186	125	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
195	4	62	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
196	4	62	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
197	4	62	95	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
198	4	62	95	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
199	4	62	205	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
200	4	62	205	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
201	4	62	75	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
202	4	62	75	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
203	4	62	95	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
204	4	62	95	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
205	4	124	125	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
206	4	124	125	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
		3348	122.		23.777	22.144	21.256	20.507	19.643	18.918	18.634	17.892	17.244	16.592											
					21.735	20.435	20.164	19.123	18.371	17.749	17.589	16.849	16.379	15.802											
207	5	130	95	41	25.1	23.5	22.5	21.7	21.1	20.5	20.0	19.4	18.9	18.4	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
208	5	130	95	41	25.1	23.5	22.5	21.7	21.1	20.5	20.0	19.4	18.9	18.4	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
209	5	65	95	49	24.2	22.8	21.5	20.3	19.3	18.4	17.5	16.8	16.0	15.3	50	22.0	20.5	19.2	18.1	17.2	16.5	15.8	15.2	14.8	14.1
210	5	65	95	49	24.2	22.8	21.5	20.3	19.3	18.4	17.5	16.8	16.0	15.3	50	22.0	20.5	19.2	18.1	17.2	16.5	15.8	15.2	14.8	14.1
		390	95.		24.799	23.273	22.161	21.270	20.470	19.772	19.143	18.542	17.981	17.377											
					21.984	20.480	20.862	19.196	18.102	17.267	16.558	15.933	15.341	14.772											
211	6	60	85	22	28.3	25.1	23.5	22.4	21.6	20.8	20.2	19.6	19.0	18.5	28	23.5	21.9	20.9	20.1	19.5	19.0	18.5	18.0	17.6	17.1
212	6	60	95	22	28.3	25.1	23.5	22.4	21.6	20.8	20.2	19.6	19.0	18.5	28	23.5	21.9	20.9	20.1	19.5	19.0	18.5	18.0	17.6	17.1
213	6	120	85	42	24.8	22.4	20.9	19.8	18.8	18.0	17.3	16.7	16.0	15.4	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
214	6	120	85	42	24.8	22.4	20.9	19.8	18.8	18.0	17.3	16.7	16.0	15.4	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1

215	6	180	85	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
216	6	140	65	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
217	6	60	205	44	0.0	0.0	0.0	0.0	0.0	0.0	27.2	22.9	21.0	19.6	44	0.0	0.0	0.0	0.0	0.0	0.0	27.2	22.9	21.0	19.6
218	6	60	205	44	0.0	0.0	0.0	0.0	0.0	0.0	27.2	22.9	21.0	19.6	44	0.0	0.0	0.0	0.0	0.0	0.0	27.2	22.9	21.0	19.6
		640	85		25.950	23.249	21.726	20.190	19.143	18.307	18.969	17.615	17.026	16.319										
					23.524	21.919	21.557	19.796	18.698	17.871	18.615	17.489	16.722	16.042										
219	7	59	205	41	25.1	23.5	22.5	21.7	21.1	20.5	20.0	19.4	18.9	18.4	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
220	7	59	205	41	25.1	23.5	22.5	21.7	21.1	20.5	20.0	19.4	18.9	18.4	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
221	7	59	205	46	22.8	21.2	20.0	19.1	18.4	17.7	17.1	16.5	15.9	15.4	47	20.4	19.1	18.1	17.3	16.7	16.2	15.7	15.3	14.9	14.4
222	7	59	205	46	22.8	21.2	20.0	19.1	18.4	17.7	17.1	16.5	15.9	15.4	47	20.4	19.1	18.1	17.3	16.7	16.2	15.7	15.3	14.9	14.4
223	7	59	105	49	24.2	22.8	21.5	20.3	19.3	18.4	17.5	16.8	16.0	15.3	50	22.0	20.5	19.2	18.1	17.2	16.5	15.8	15.2	14.6	14.1
224	7	59	105	49	24.2	22.8	21.5	20.3	19.3	18.4	17.5	16.8	16.0	15.3	50	22.0	20.5	19.2	18.1	17.2	16.5	15.8	15.2	14.6	14.1
225	7	59	205	57	20.8	19.8	18.9	18.2	17.6	17.0	16.4	15.7	15.0	14.0	60	18.2	17.4	16.9	16.4	15.9	15.4	14.9	14.2	13.5	12.6
226	7	59	205	57	20.8	19.8	18.9	18.2	17.6	17.0	16.4	15.7	15.0	14.0	60	18.2	17.4	16.9	16.4	15.9	15.4	14.9	14.2	13.5	12.6
		472	180		23.209	21.809	20.732	19.854	19.075	18.381	17.727	17.096	16.458	15.773										
					20.194	19.004	18.973	17.887	17.083	16.415	15.826	15.280	14.685	14.065										
227	8	58	205	7	23.2	22.2	21.4	20.8	20.2	19.8	19.3	18.9	18.5	18.0	16	22.1	20.7	19.8	19.2	18.7	18.2	17.8	17.5	17.1	16.7
228	8	58	205	7	23.2	22.2	21.4	20.8	20.2	19.8	19.3	18.9	18.5	18.0	16	22.1	20.7	19.8	19.2	18.7	18.2	17.8	17.5	17.1	16.7
229	8	58	205	8	24.5	22.9	21.7	20.8	20.1	19.5	19.0	18.5	18.0	17.6	16	22.1	20.7	19.8	19.2	18.7	18.2	17.8	17.5	17.1	16.7
230	8	58	205	8	24.5	22.9	21.7	20.8	20.1	19.5	19.0	18.5	18.0	17.6	16	22.1	20.7	19.8	19.2	18.7	18.2	17.8	17.5	17.1	16.7
231	8	58	105	14	21.6	20.8	20.2	19.8	19.3	19.0	18.6	18.2	17.9	17.5	16	22.1	20.7	19.8	19.2	18.7	18.2	17.8	17.5	17.1	16.7
232	8	58	105	14	21.6	20.8	20.2	19.8	19.3	19.0	18.6	18.2	17.9	17.5	16	22.1	20.7	19.8	19.2	18.7	18.2	17.8	17.5	17.1	16.7
233	8	58	205	18	0.0	0.0	0.0	0.0	31.8	25.4	23.6	22.4	21.5	20.7	28	23.5	21.9	20.9	20.1	19.5	19.0	18.5	18.0	17.6	17.1
234	8	58	205	18	0.0	0.0	0.0	0.0	31.8	25.4	23.6	22.4	21.5	20.7	28	23.5	21.9	20.9	20.1	19.5	19.0	18.5	18.0	17.6	17.1
235	8	58	105	32	22.2	20.9	20.1	19.5	18.9	18.4	18.0	17.6	17.2	16.7	28	23.5	21.9	20.9	20.1	19.5	19.0	18.5	18.0	17.6	17.1
236	8	58	105	32	22.2	20.9	20.1	19.5	18.9	18.4	18.0	17.6	17.2	16.7	28	23.5	21.9	20.9	20.1	19.5	19.0	18.5	18.0	17.6	17.1
237	8	58	205	38	26.4	25.1	24.1	23.2	22.4	21.7	21.1	20.5	20.0	19.4	39	22.2	21.2	20.4	19.8	19.2	18.8	18.4	18.0	17.6	17.1
238	8	58	205	38	26.4	25.1	24.1	23.2	22.4	21.7	21.1	20.5	20.0	19.4	39	22.2	21.2	20.4	19.8	19.2	18.8	18.4	18.0	17.6	17.1
239	8	58	205	46	22.8	21.2	20.0	19.1	18.4	17.7	17.1	16.5	15.9	15.4	47	20.4	19.1	18.1	17.3	16.7	16.2	15.7	15.3	14.9	14.4
240	8	58	205	46	22.8	21.2	20.0	19.1	18.4	17.7	17.1	16.5	15.9	15.4	47	20.4	19.1	18.1	17.3	16.7	16.2	15.7	15.3	14.9	14.4
241	8	58	105	49	24.2	22.8	21.5	20.3	19.3	18.4	17.5	16.8	16.0	15.3	50	22.0	20.5	19.2	18.1	17.2	16.5	15.8	15.2	14.6	14.1
242	8	58	105	49	24.2	22.8	21.5	20.3	19.3	18.4	17.5	16.8	16.0	15.3	50	22.0	20.5	19.2	18.1	17.2	16.5	15.8	15.2	14.6	14.1
243	8	58	205	49	24.2	22.8	21.5	20.3	19.3	18.4	17.5	16.8	16.0	15.3	50	22.0	20.5	19.2	18.1	17.2	16.5	15.8	15.2	14.6	14.1
244	8	58	205	49	24.2	22.8	21.5	20.3	19.3	18.4	17.5	16.8	16.0	15.3	50	22.0	20.5	19.2	18.1	17.2	16.5	15.8	15.2	14.6	14.1
245	8	58	205	52	30.9	26.8	25.2	24.2	23.3	22.7	22.1	21.7	21.3	21.0	52	30.9	26.8	25.2	24.2	23.3	22.7	22.1	21.7	21.3	21.0
246	8	58	205	52	30.9	26.8	25.2	24.2	23.3	22.7	22.1	21.7	21.3	21.0	52	30.9	26.8	25.2	24.2	23.3	22.7	22.1	21.7	21.3	21.0
247	8	116	105	57	20.8	19.8	18.9	18.2	17.6	17.0	16.4	15.7	15.0	14.0	60	18.2	17.4	16.9	16.4	15.9	15.4	14.9	14.2	13.5	12.6
248	8	116	105	57	20.8	19.8	18.9	18.2	17.6	17.0	16.4	15.7	15.0	14.0	60	18.2	17.4	16.9	16.4	15.9	15.4	14.9	14.2	13.5	12.6
249	8	58	205	57	20.8	19.8	18.9	18.2	17.6	17.0	16.4	15.7	15.0	14.0	60	18.2	17.4	16.9	16.4	15.9	15.4	14.9	14.2	13.5	12.6
250	8	58	205	57	20.8	19.8	18.9	18.2	17.6	17.0	16.4	15.7	15.0	14.0	60	18.2	17.4	16.9	16.4	15.9	15.4	14.9	14.2	13.5	12.6
251	8	58	85	58	20.1	19.0	18.0	17.3	16.7	16.0	15.4	14.7	14.0	13.0	59	19.7	18.5	17.7	17.0	16.4	15.8	15.2	14.6	13.8	12.9
252	8	58	85	58	20.1	19.0	18.0	17.3	16.7	16.0	15.4	14.7	14.0	13.0	59	19.7	18.5	17.7	17.0	16.4	15.8	15.2	14.6	13.8	12.9
253	8	116	105	58	20.1	19.0	18.0	17.3	16.7	16.0	15.4	14.7	14.0	13.0	59	19.7	18.5	17.7	17.0	16.4	15.8	15.2	14.6	13.8	12.9
254	8	116	105	58	20.1	19.0	18.0	17.3	16.7	16.0	15.4	14.7	14.0	13.0	59	19.7	18.5	17.7	17.0	16.4	15.8	15.2	14.6	13.8	12.9
255	8	58	205	58	20.1	19.0	18.0	17.3	16.7	16.0	15.4	14.7	14.0	13.0	59	19.7	18.5	17.7	17.0	16.4	15.8	15.2	14.6	13.8	12.9
256	8	58	205	58	20.1	19.0	18.0	17.3	16.7	16.0	15.4	14.7	14.0	13.0	59	19.7	18.5	17.7	17.0	16.4	15.8	15.2	14.6	13.8	12.9
		1872	157		22.867	21.280	20.283	19.491	18.552	18.598	17.922	17.289	16.856	15.843										
					21.410	20.028	19.110	18.382	17.759	17.208	16.885	16.183	15.808	14.872										
259	9	59	85	14	21.8	20.8	20.2	19.8	19.3	19.0	18.6	18.2	17.9	17.5	16	22.1	20.7	19.8	19.2	18.7	18.2	17.8	17.5	17.1	16.7
260	9	59	85	14	21.8	20.8	20.2	19.8	19.3	19.0	18.6	18.2	17.9	17.5	16	22.1	20.7	19.8	19.2	18.7	18.2	17.8	17.5	17.1	16.7
261	9	59	85	18	0.0	0.0	0.0	0.0	31.8	25.4	23.6	22.4	21.5	20.7	28	23.5	21.9	20.9	20.1	19.5	19.0	18.5	18.0	17.6	17.1
262	9	59	85	18	0.0	0.0	0.0	0.0	31.8	25.4	23.6	22.4	21.5	20.7	28	23.5	21.9	20.9	20.1	19.5	19.0	18.5	18.0	17.6	17.1
263	9	59	85	38	23.2	22.1	21.2	20.5	19.9	19.4	18.9	18.4	18.0	17.6	39	22.2	21.2	20.4	19.8	19.2	18.8	18.4	18.0	17.6	17.1
264	9	59	85	38	23.2	22.1	21.2	20.5	19.9	19.4	18.9	18.4	18.0	17.6	39	22.2	21.2	20.4	19.8	19.2	18.8	18.4	18.0	17.6	17.1
265	9	59	205	41	25.1	23.5	22.5	21.7	21.1	20.5	20.0	19.4	18.9	18.4	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
266	9	59	205	41	25.1	23.5	22.5	21.7	21.1	20.5	20.0	19.4	18.9	18.4	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
267	9	59	85	42	24.8	22.4	20.9	19.8	18.8	18.0	17.3	16.7	16.0	15.4	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1

268	9	59	85	42	24.8	22.4	20.9	19.8	18.8	18.0	17.3	16.7	16.0	15.4	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
269	9	59	105	42	24.8	22.4	20.9	19.8	18.8	18.0	17.3	16.7	16.0	15.4	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
270	9	59	105	42	24.8	22.4	20.9	19.8	18.8	18.0	17.3	16.7	16.0	15.4	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
271	9	118	205	42	24.8	22.4	20.9	19.8	18.8	18.0	17.3	16.7	16.0	15.4	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
272	9	118	205	42	24.8	22.4	20.9	19.8	18.8	18.0	17.3	16.7	16.0	15.4	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
273	9	118	85	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
274	9	118	85	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
275	9	59	205	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
276	9	59	205	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1	43	0.0	0.0	21.7	19.7	18.5	17.7	16.9	16.3	15.7	15.1
277	9	59	85	46	22.8	21.2	20.0	19.1	18.4	17.7	17.1	16.5	15.9	15.4	47	20.4	19.1	18.1	17.3	16.7	16.2	15.7	15.3	14.9	14.4
278	9	59	85	46	22.8	21.2	20.0	19.1	18.4	17.7	17.1	16.5	15.9	15.4	47	20.4	19.1	18.1	17.3	16.7	16.2	15.7	15.3	14.9	14.4
279	9	59	85	49	24.2	22.8	21.5	20.3	19.3	18.4	17.5	16.8	16.0	15.3	50	22.0	20.5	19.2	18.1	17.2	16.5	15.8	15.2	14.6	14.1
280	9	59	85	49	24.2	22.8	21.5	20.3	19.3	18.4	17.5	16.8	16.0	15.3	50	22.0	20.5	19.2	18.1	17.2	16.5	15.8	15.2	14.6	14.1
281	9	118	85	58	20.1	19.0	18.0	17.3	16.7	16.0	15.4	14.7	14.0	13.0	59	19.7	18.5	17.7	17.0	16.4	15.8	15.2	14.6	13.8	12.9
282	9	118	85	58	20.1	19.0	18.0	17.3	16.7	16.0	15.4	14.7	14.0	13.0	59	19.7	18.5	17.7	17.0	16.4	15.8	15.2	14.6	13.8	12.9
283	9	59	205	58	20.1	19.0	18.0	17.3	16.7	16.0	15.4	14.7	14.0	13.0	59	19.7	18.5	17.7	17.0	16.4	15.8	15.2	14.6	13.8	12.9
284	9	59	205	58	20.1	19.0	18.0	17.3	16.7	16.0	15.4	14.7	14.0	13.0	59	19.7	18.5	17.7	17.0	16.4	15.8	15.2	14.6	13.8	12.9
		1888	124		23.021	21.405	20.548	19.442	19.408	18.344	17.624	18.988	16.339	15.880										
					21.147	19.874	20.318	18.883	18.049	17.327	16.703	16.122	15.543	14.839										
287	10	124	205	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
288	10	124	205	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
289	10	124	205	23	24.7	23.6	22.8	22.0	21.4	20.9	20.4	19.9	19.4	18.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
290	10	124	205	23	24.7	23.6	22.8	22.0	21.4	20.9	20.4	19.9	19.4	18.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
291	10	62	205	38	27.1	25.9	24.8	23.9	23.1	22.5	21.9	21.3	20.7	20.1	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
292	10	62	205	38	27.1	25.9	24.8	23.9	23.1	22.5	21.9	21.3	20.7	20.1	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
293	10	62	105	41	25.9	24.3	23.3	22.5	21.8	21.2	20.7	20.2	19.7	19.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
294	10	62	105	41	25.9	24.3	23.3	22.5	21.8	21.2	20.7	20.2	19.7	19.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
295	10	62	205	41	25.9	24.3	23.3	22.5	21.8	21.2	20.7	20.2	19.7	19.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
296	10	62	205	41	25.9	24.3	23.3	22.5	21.8	21.2	20.7	20.2	19.7	19.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
297	10	62	85	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
298	10	62	85	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
299	10	124	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
300	10	124	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
301	10	62	105	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
302	10	62	105	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
303	10	62	205	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
304	10	62	205	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
305	10	62	205	46	25.7	24.0	22.7	21.5	20.6	19.7	18.9	18.2	17.5	16.8	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
306	10	62	205	45	25.7	24.0	22.7	21.5	20.6	19.7	18.9	18.2	17.5	16.8	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
307	10	62	25	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
308	10	62	25	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
309	10	62	30	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
310	10	62	35	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
311	10	62	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
312	10	62	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
313	10	62	205	48	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
314	10	62	205	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
315	10	62	205	54	30.9	26.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	26.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
316	10	62	205	54	30.9	26.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	26.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
317	10	124	85	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
318	10	124	85	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
319	10	124	205	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
320	10	124	205	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
		2726	165		24.473	22.729	21.674	20.688	21.002	19.806	19.068	18.404	17.778	17.123										
					22.670	21.089	20.835	19.885	18.870	18.208	17.831	17.088	16.548	15.879										
323	11	110	205	2	0.0	0.0	0.0	26.1	25.8	24.5	23.4	22.6	21.8	21.1	18	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
324	11	110	205	2	0.0	0.0	0.0	26.1	25.8	24.5	23.4	22.6	21.8	21.1	18	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
325	11	188	205	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9

326	11	165	205	18	0.0	0.0	0.0	0.0	32.3	28.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
327	11	55	205	19	28.1	26.7	25.7	24.8	24.1	23.5	22.9	22.3	21.8	21.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
328	11	55	205	19	28.1	26.7	25.7	24.8	24.1	23.5	22.9	22.3	21.8	21.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
329	11	55	125	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
330	11	55	125	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
331	11	55	205	23	24.7	23.6	22.8	22.0	21.4	20.9	20.4	19.9	19.4	18.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
332	11	55	205	23	24.7	23.6	22.8	22.0	21.4	20.9	20.4	19.9	19.4	18.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
333	11	55	205	24	27.0	24.1	22.7	21.8	21.0	20.4	19.9	19.4	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
334	11	55	205	24	27.0	24.1	22.7	21.8	21.0	20.4	19.9	19.4	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
335	11	220	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
336	11	220	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
337	11	110	205	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
338	11	110	205	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
		1650	189		26.485	23.961	22.701	22.829	23.943	22.118	21.245	20.548	19.939	19.367											
					24.137	22.188	21.106	20.328	19.719	19.186	18.738	18.315	17.909	17.496											
339	12	59	125	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
340	12	55	125	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
341	12	59	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
342	12	59	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
343	12	118	65	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
344	12	118	65	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
345	12	59	205	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
346	12	59	205	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
		590	133		24.478	22.911	22.023	20.665	19.689	18.894	18.208	17.582	16.983	16.401											
					23.514	21.950	21.782	20.249	19.230	18.439	17.778	17.184	16.620	16.071											
347	13	126	5	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
348	13	126	5	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
382	13	63	5	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
381	13	63	5	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
349	13	63	15	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
350	13	63	15	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
359	13	126	15	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
360	13	128	15	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
368	13	128	15	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
367	13	126	15	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
376	13	63	15	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
375	13	63	15	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
351	13	252	25	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
352	13	252	25	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
353	13	63	25	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
354	13	63	25	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
358	13	315	25	27	23.8	22.8	22.0	21.3	20.8	20.3	19.8	19.3	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
357	13	315	25	27	23.8	22.8	22.0	21.3	20.8	20.3	19.8	19.3	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
361	13	189	25	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
362	13	189	25	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
364	13	63	25	29	24.2	22.8	21.9	21.1	20.4	19.8	19.3	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
363	13	63	25	29	24.2	22.8	21.9	21.1	20.4	19.8	19.3	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
369	13	441	25	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
370	13	441	25	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
378	13	189	25	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
377	13	189	25	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
384	13	126	25	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
383	13	126	25	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
387	13	63	25	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
388	13	63	25	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
372	13	189	35	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
371	13	189	35	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
380	13	252	35	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9

379	13	252	35	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
389	13	63	35	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
390	13	63	35	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
		5544	24.		23.763	22.142	21.101	20.277	19.601	19.010	18.480	17.986	17.504	17.021											
					23.221	21.654	20.491	19.677	19.028	18.472	17.982	17.529	17.087	16.640											
355	13	63	205	21	26.6	25.4	24.5	23.8	23.1	22.5	22.0	21.5	21.0	20.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
356	13	63	205	21	26.6	25.4	24.5	23.8	23.1	22.5	22.0	21.5	21.0	20.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
366	13	126	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
365	13	128	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
374	13	126	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
373	13	126	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
385	13	126	205	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
386	13	126	205	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
		882	205.		26.641	23.887	22.649	21.583	20.817	20.157	19.591	19.063	18.573	18.091											
					25.670	22.810	21.818	20.648	19.853	19.217	18.696	18.226	17.789	17.368											
399	14	180	5	27	23.8	22.8	22.0	21.3	20.8	20.3	19.8	19.3	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
400	14	180	5	27	23.8	22.8	22.0	21.3	20.8	20.3	19.8	19.3	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
415	14	240	5	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
416	14	240	5	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
394	14	60	15	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
393	14	60	15	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
401	14	120	15	27	23.8	22.8	22.0	21.3	20.8	20.3	19.8	19.3	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
402	14	120	15	27	23.8	22.8	22.0	21.3	20.8	20.3	19.8	19.3	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
404	14	120	15	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
403	14	120	15	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
410	14	180	15	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	38	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
409	14	180	15	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	38	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
418	14	240	15	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
417	14	240	15	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
432	14	180	15	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
431	14	180	15	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
438	14	60	15	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
437	14	60	15	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
449	14	300	15	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
450	14	300	15	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
395	14	180	25	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
396	14	180	25	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
406	14	180	25	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
405	14	180	25	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
414	14	60	25	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
413	14	60	25	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
420	14	600	25	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
419	14	600	25	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
433	14	180	25	50	22.7	21.2	20.0	18.9	28.0	17.2	16.6	16.0	15.4	14.9	50	22.7	21.2	20.0	18.9	28.0	17.2	16.6	16.0	15.4	14.9
434	14	180	25	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
441	14	180	25	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
442	14	180	25	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
443	14	60	25	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
444	14	60	25	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
452	14	120	25	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
451	14	120	25	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
408	14	60	35	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
407	14	60	35	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
422	14	120	35	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
421	14	120	35	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
435	14	60	35	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
436	14	60	35	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
		6880	19.		23.634	21.986	20.965	20.113	19.695	18.798	18.239	17.713	17.188	16.646											

					22.806	21.215	20.222	19.403	19.036	18.167	17.685	17.213	16.741	16.245											
423	14	60	95	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
424	14	60	95	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
427	14	60	95	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
428	14	60	95	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
391	14	60	105	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
392	14	60	105	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
397	14	60	105	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
398	14	60	105	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
429	14	60	105	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
430	14	60	105	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
439	14	60	105	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
440	14	60	105	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
447	14	60	105	57	21.5	20.5	19.7	19.0	18.4	17.8	17.1	16.5	15.7	14.8	60	19.0	18.2	17.7	17.1	16.6	16.1	15.6	15.0	14.3	13.4
448	14	60	105	57	21.5	20.5	19.7	19.0	18.4	17.8	17.1	16.5	15.7	14.8	60	19.0	18.2	17.7	17.1	16.6	16.1	15.6	15.0	14.3	13.4
411	14	120	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.6	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
412	14	120	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.6	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
426	14	120	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
425	14	120	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
446	14	60	205	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
445	14	60	205	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
		1440	145		24.390	22.709	21.593	20.690	19.953	19.276	18.666	18.100	17.547	16.983											
					22.819	21.290	20.653	19.651	19.918	18.309	17.775	17.284	16.801	16.306											
457	15	672	95	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
458	15	672	95	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
459	15	112	125	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
460	15	112	125	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
461	15	168	95	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
462	15	168	95	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
463	15	168	95	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
464	15	168	95	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
465	15	56	115	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
466	15	56	115	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
467	15	392	95	16	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
468	15	392	95	16	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
469	15	56	205	17	0.0	0.0	0.0	0.0	0.0	34.7	29.0	26.9	25.7	24.6	17	0.0	0.0	0.0	0.0	0.0	34.7	29.0	26.9	25.7	24.6
470	15	56	205	17	0.0	0.0	0.0	0.0	0.0	34.7	29.0	26.9	25.7	24.6	17	0.0	0.0	0.0	0.0	0.0	34.7	29.0	26.9	25.7	24.6
471	15	56	95	22	29.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	26	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
472	15	56	95	22	29.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	26	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
473	15	56	105	22	29.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	26	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
474	15	56	105	22	29.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	26	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
475	15	56	205	23	25.6	24.4	23.5	22.8	22.2	21.6	21.1	20.6	20.2	19.7	26	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
476	15	56	205	23	25.6	24.4	23.5	22.8	22.2	21.6	21.1	20.6	20.2	19.7	26	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
477	15	56	95	30	24.7	23.8	23.0	22.4	21.8	21.5	21.0	20.6	20.2	19.8	26	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
478	15	56	95	30	24.7	23.8	23.0	22.4	21.8	21.5	21.0	20.6	20.2	19.8	26	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
479	15	112	95	31	23.7	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	18.8	26	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
480	15	112	95	31	23.7	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	18.8	26	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
481	15	56	95	32	23.7	22.5	21.6	21.0	20.4	20.0	19.5	19.1	18.7	18.3	26	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
482	15	56	95	32	23.7	22.5	21.6	21.0	20.4	20.0	19.5	19.1	18.7	18.3	26	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
483	15	56	55	39	29.3	27.9	26.7	25.8	25.1	24.4	23.8	23.3	22.7	22.2	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
484	15	56	55	39	29.3	27.9	26.7	25.8	25.1	24.4	23.8	23.3	22.7	22.2	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
485	15	56	95	36	27.9	26.6	25.6	24.7	23.9	23.3	22.8	22.0	21.5	20.9	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
486	15	56	95	36	27.9	26.6	25.6	24.7	23.9	23.3	22.8	22.0	21.5	20.9	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
487	15	112	95	37	25.9	24.8	24.0	23.3	22.8	22.3	21.8	21.4	21.0	20.6	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
488	15	112	95	37	25.9	24.8	24.0	23.3	22.8	22.3	21.8	21.4	21.0	20.6	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
489	15	56	55	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
490	15	56	55	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
491	15	56	55	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
492	15	56	55	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
493	15	56	125	41	26.8	25.0	24.0	23.3	22.6	22.0	21.5	21.0	20.5	19.9	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
494	15	56	125	41	26.8	25.0	24.0	23.3	22.6	22.0	21.5	21.0	20.5	19.9	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
495	15	56	95	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.6	18.2	17.7	17.2	16.8	16.4	15.9
496	15	56	95	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.6	18.2	17.7	17.2	16.8	16.4	15.9
497	15	56	125	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.6	18.2	17.7	17.2	16.8	16.4	15.9
498	15	56	125	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.6	18.2	17.7	17.2	16.8	16.4	15.9
499	15	112	95	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
500	15	112	95	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
501	15	112	95	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
502	15	112	95	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
503	15	56	95	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4
504	15	56	95	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4
505	15	168	95	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	58	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
506	15	168	95	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	58	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
		5936	100		26.316	24.422	23.316	22.481	21.824	21.501	20.885	20.386	19.880	19.380											
					24.265	22.680	21.772	21.061	20.481	20.271	19.730	19.288	18.859	18.419											
527	16	116	5	27	23.8	22.8	22.0	21.3	20.8	20.3	19.8	19.3	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
528	16	116	5	27	23.8	22.8	22.0	21.3	20.8	20.3	19.8	19.3	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
547	16	56	5	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
548	16	56	5	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
516	16	116	15	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
515	16	116	15	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
517	16	56	15	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
518	16	56	15	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
529	16	56	15	27	23.8	22.8	22.0	21.3	20.8	20.3	19.8	19.3	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
530	16	56	15	27	23.8	22.8	22.0	21.3	20.8	20.3	19.8	19.3	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
534	16	232	15	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
533	16	232	15	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
536	16	56	15	29	24.2	22.8	21.9	21.1	20.4	19.8	19.3	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
537	16	56	15	29	24.2	22.8	21.9	21.1	20.4	19.8	19.3	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
539	16	116	15	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
540	16	116	15	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
549	16	56	15	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
550	16	56	15	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
556	16	56	15	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
555	16	56	15	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
520	16	280	25	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
519	16	280	25	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
532	16	56	25	27	23.8	22.8	22.0	21.3	20.8	20.3	19.8	19.3	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
531	16	56	25	27	23.8	22.8	22.0	21.3	20.8	20.3	19.8	19.3	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
536	16	522	25	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
535	16	522	25	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
541	16	56	25	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
542	16	56	25	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
551	16	280	25	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
552	16	280	25	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
544	16	56	35	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
543	16	56	35	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
561	16	56	35	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
562	16	56	35	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
546	16	56	65	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
545	16	56	65	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
		4640	21		23.843	22.368	21.443	20.685	20.028	19.477	18.977	18.510	18.055	17.593											
					23.420	21.857	20.941	20.171	19.561	19.037	18.569	18.135	17.711	17.277											
563	16	56	125	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
564	16	56	125	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
513	16	56	205	2	0.0	0.0	0.0	26.1	25.8	24.5	23.4	22.8	21.8	21.1	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4

514	16	58	205	2	0.0	0.0	0.0	28.1	25.8	24.5	23.4	22.6	21.8	21.1	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
521	16	58	205	17	0.0	0.0	0.0	0.0	0.0	33.9	28.3	26.2	24.9	23.8	17	0.0	0.0	0.0	0.0	0.0	33.9	28.3	26.2	24.9	23.8
522	16	58	205	17	0.0	0.0	0.0	0.0	0.0	33.9	28.3	26.2	24.9	23.8	17	0.0	0.0	0.0	0.0	0.0	33.9	28.3	26.2	24.9	23.8
523	16	58	205	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
524	16	58	205	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
526	16	58	205	23	24.7	23.6	22.8	22.0	21.4	20.9	20.4	19.9	19.4	18.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
525	16	58	205	23	24.7	23.6	22.8	22.0	21.4	20.9	20.4	19.9	19.4	18.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
554	16	58	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
553	16	58	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
558	16	116	205	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
557	16	116	205	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
560	16	58	205	53	0.0	0.0	34.5	30.8	28.9	27.8	26.9	26.2	25.6	25.1	53	0.0	0.0	34.5	30.8	28.9	27.8	26.9	26.2	25.6	25.1
559	16	58	205	53	0.0	0.0	34.5	30.8	28.9	27.8	26.9	26.2	25.6	25.1	53	0.0	0.0	34.5	30.8	28.9	27.8	26.9	26.2	25.6	25.1
		1044	196		28.482	25.290	25.701	24.839	24.801	24.528	23.178	22.384	21.773	21.210											
					25.671	23.946	24.175	22.862	22.145	22.905	21.793	21.156	20.657	20.184											
565	17	67	125	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
566	17	67	125	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
567	17	134	95	10	24.7	23.7	22.9	22.2	21.6	21.1	20.6	20.1	19.6	19.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
568	17	134	95	10	24.7	23.7	22.9	22.2	21.6	21.1	20.6	20.1	19.6	19.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
569	17	67	125	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
570	17	67	125	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
571	17	67	95	15	22.7	21.8	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
572	17	67	95	15	22.7	21.8	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
573	17	67	65	17	0.0	0.0	0.0	0.0	0.0	33.9	28.3	26.2	24.9	23.8	17	0.0	0.0	0.0	0.0	0.0	33.9	28.3	26.2	24.9	23.8
574	17	67	65	17	0.0	0.0	0.0	0.0	0.0	33.9	28.3	26.2	24.9	23.8	17	0.0	0.0	0.0	0.0	0.0	33.9	28.3	26.2	24.9	23.8
575	17	67	95	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
576	17	67	95	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
577	17	67	125	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
578	17	67	125	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
579	17	67	65	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
580	17	67	65	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
581	17	67	65	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
582	17	67	65	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
583	17	67	95	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
584	17	67	95	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
585	17	134	95	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.6	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
586	17	134	95	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.6	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
587	17	67	125	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
588	17	67	125	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
589	17	67	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
590	17	67	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
591	17	67	105	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
592	17	67	105	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
593	17	67	125	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
594	17	67	125	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
595	17	67	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
596	17	67	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
597	17	67	65	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
598	17	67	65	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
599	17	67	205	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
600	17	67	205	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
601	17	268	95	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	58	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
602	17	268	95	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	58	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.8	13.7
		3216	110.		23.812	22.418	21.408	20.519	20.878	20.342	19.433	18.747	18.121	17.476											
					22.552	21.202	20.538	19.840	19.951	19.018	18.277	17.712	17.175	16.611											
639	19	186	5	27	24.5	23.5	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
640	19	186	5	27	24.5	23.5	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
661	19	124	5	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
662	19	124	5	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
665	19	186	5	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
667	19	186	5	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
680	19	124	5	54	31.6	26.8	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.8	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
679	19	124	5	54	31.6	26.8	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.8	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
617	19	62	15	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
618	19	62	15	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
622	19	248	15	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
621	19	248	15	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
642	19	62	15	27	24.5	23.5	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
641	19	62	15	27	24.5	23.5	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
646	19	62	15	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
645	19	62	15	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
655	19	124	15	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
658	19	124	15	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
673	19	62	15	50	23.5	22.0	20.7	19.6	18.8	18.0	17.3	16.7	16.2	15.6	50	23.5	22.0	20.7	19.6	18.8	18.0	17.3	16.7	16.2	15.6
674	19	62	15	50	23.5	22.0	20.7	19.6	18.8	18.0	17.3	16.7	16.2	15.6	50	23.5	22.0	20.7	19.6	18.8	18.0	17.3	16.7	16.2	15.6
623	19	372	25	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
624	19	372	25	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
629	19	124	25	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
630	19	124	25	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
643	19	124	25	27	24.5	23.5	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
644	19	124	25	27	24.5	23.5	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
648	19	620	25	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
647	19	620	25	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
656	19	310	25	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
657	19	310	25	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
669	19	310	25	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
670	19	310	25	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
		6200	19.		24.609	23.141	22.671	21.435	20.797	20.280	19.758	19.298	18.848	18.392											
					24.181	22.640	21.720	20.943	20.334	19.814	19.353	18.924	18.508	18.080											
610	19	62	105	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
609	19	62	105	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
614	19	62	105	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
613	19	62	105	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
620	19	186	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
619	19	186	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
625	19	434	105	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
626	19	434	105	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
633	19	62	105	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
634	19	62	105	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
653	19	62	105	32	23.7	22.5	21.6	21.0	20.4	20.0	19.5	19.1	18.7	18.3	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
654	19	62	105	32	23.7	22.5	21.6	21.0	20.4	20.0	19.5	19.1	18.7	18.3	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
659	19	62	105	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
660	19	62	105	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
611	19	124	125	6	0.0	30.0	25.6	23.9	22.8	22.0	21.3	20.6	20.1	19.5	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
612	19	124	125	6	0.0	30.0	25.6	23.9	22.8	22.0	21.3	20.6	20.1	19.5	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
628	19	310	125	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
627	19	310	125	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
631	19	62	125	18	0.0	0.0	0.0	0.0	33.1	27.0	25.1	23.9	23.0	22.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
632	19	62	125	18	0.0	0.0	0.0	0.0	33.1	27.0	25.1	23.9	23.0	22.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
636	19	186	125	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
635	19	186	125	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22	21.6	21.0	20.5	20.0	19.5	19.1	18.7
663	19	62	125	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
664	19	62	125	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
616	19	62	205	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
615	19	62	205	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
637	19	62	205	23	25.5	24.4	23.5	22.8	22.2	21.6	21.1	20.6	20.2	19.7	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
638	19	62	205	23	25.5	24.4	23.5	22.8	22.2	21.6	21.1	20.6	20.2	19.7	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7

650	19	62	205	30	24.7	23.8	23.0	22.4	21.9	21.5	21.0	20.6	20.2	19.8	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
649	19	62	205	30	24.7	23.8	23.0	22.4	21.9	21.5	21.0	20.6	20.2	19.8	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
657	19	62	205	31	23.7	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	18.8	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
661	19	62	205	31	23.7	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	18.8	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
665	19	62	205	45	26.5	24.7	23.5	22.3	21.3	20.4	19.7	18.9	18.2	17.5	47	21.9	20.8	19.8	18.8	18.2	17.7	17.2	16.8	16.4	15.9
666	19	62	205	45	26.5	24.7	23.5	22.3	21.3	20.4	19.7	18.9	18.2	17.5	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
672	19	62	205	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
671	19	62	205	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
675	19	62	205	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
676	19	62	205	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
677	19	62	205	53	0.0	0.0	35.2	31.5	29.7	28.6	27.6	26.9	26.4	25.9	53	0.0	0.0	35.2	31.5	29.7	28.6	27.6	26.9	26.4	25.9
678	19	62	205	53	0.0	0.0	35.2	31.5	29.7	28.6	27.6	26.9	26.4	25.9	53	0.0	0.0	35.2	31.5	29.7	28.6	27.6	26.9	26.4	25.9
681	19	62	205	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4
682	19	62	205	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4
		4464	136		25.121	23.998	23.204	22.284	21.924	21.189	20.650	20.158	19.691	19.228											
					24.149	22.875	22.150	21.334	20.726	20.220	19.784	19.348	18.941	18.527											
683	20	58	25	27	23.8	22.8	22.0	21.3	20.8	20.3	19.8	19.3	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
684	20	58	25	27	23.8	22.8	22.0	21.3	20.8	20.3	19.8	19.3	18.9	18.4	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
685	20	58	105	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
686	20	58	105	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
687	20	58	25	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
688	20	58	25	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
689	20	58	95	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
690	20	58	95	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
691	20	58	205	41	25.9	24.3	23.3	22.5	21.8	21.2	20.7	20.2	19.7	19.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
692	20	58	205	41	25.9	24.3	23.3	22.5	21.8	21.2	20.7	20.2	19.7	19.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
693	20	58	95	45	25.7	24.0	22.7	21.5	20.6	19.7	18.9	18.2	17.5	16.8	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
694	20	58	95	45	25.7	24.0	22.7	21.5	20.6	19.7	18.9	18.2	17.5	16.8	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
695	20	58	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
696	20	58	205	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
697	20	58	105	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
698	20	58	105	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
699	20	58	205	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
700	20	58	205	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
701	20	58	205	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
702	20	58	205	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
703	20	58	95	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	58	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
704	20	58	95	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	58	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
705	20	58	25	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
706	20	58	25	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
		1392	115		24.871	23.052	21.976	21.137	20.427	19.803	19.234	18.693	18.180	17.603											
					23.889	22.015	21.073	20.176	19.474	18.890	18.368	17.876	17.381	16.878											
707	21	63	125	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
708	21	63	125	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
709	21	63	95	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
710	21	63	95	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
711	21	189	105	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
712	21	189	105	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
713	21	63	125	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
714	21	63	125	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
715	21	126	105	31	23.7	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	18.8	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
716	21	126	105	31	23.7	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	18.8	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
717	21	126	95	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
718	21	126	95	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
719	21	441	105	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
720	21	441	105	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
721	21	63	125	42	26.3	23.9	22.4	21.3	20.4	19.5	18.8	18.2	17.6	16.9	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
722	21	63	125	42	26.3	23.9	22.4	21.3	20.4	19.5	18.8	18.2	17.6	16.9	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
723	21	126	125	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
724	21	126	125	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
725	21	63	105	49	25.7	24.3	23.0	21.9	20.8	19.9	19.0	18.3	17.5	16.8	50	23.5	22.0	20.7	19.6	18.8	18.0	17.3	16.7	16.2	15.6
726	21	63	105	49	25.7	24.3	23.0	21.9	20.8	19.9	19.0	18.3	17.5	16.8	50	23.5	22.0	20.7	19.6	18.8	18.0	17.3	16.7	16.2	15.6
727	21	63	125	49	25.7	24.3	23.0	21.9	20.8	19.9	19.0	18.3	17.5	16.8	50	23.5	22.0	20.7	19.6	18.8	18.0	17.3	16.7	16.2	15.6
728	21	63	125	49	25.7	24.3	23.0	21.9	20.8	19.9	19.0	18.3	17.5	16.8	50	23.5	22.0	20.7	19.6	18.8	18.0	17.3	16.7	16.2	15.6
729	21	63	105	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
730	21	63	105	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
731	21	63	105	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
732	21	63	105	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
733	21	126	105	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
734	21	126	105	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
		3276	108		25.208	23.610	22.577	21.781	21.105	20.519	19.982	19.480	18.986	18.481											
					24.151	22.645	21.744	20.986	20.344	19.813	19.337	18.888	18.445	17.987											
743	22	60	105	2	0.0	0.0	0.0	28.8	26.6	25.2	24.2	23.3	22.6	21.9	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
744	22	60	105	2	0.0	0.0	0.0	28.8	26.6	25.2	24.2	23.3	22.6	21.9	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
745	22	540	105	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
746	22	540	105	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
747	22	60	125	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
748	22	60	125	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
749	22	120	105	6	0.0	30.0	25.8	23.9	22.8	22.0	21.3	20.6	20.1	19.5	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
750	22	120	105	6	0.0	30.0	25.8	23.9	22.8	22.0	21.3	20.6	20.1	19.5	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
751	22	60	105	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
752	22	60	105	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
753	22	180	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
754	22	180	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
755	22	1500	105	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
756	22	1500	105	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
757	22	300	105	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
758	22	300	105	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
759	22	180	125	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
760	22	180	125	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
761	22	180	105	31	23.7	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	18.8	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
762	22	180	105	31	23.7	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	18.8	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
763	22	60	105	32	23.7	22.5	21.6	21.0	20.4	20.0	19.5	19.1	18.7	18.3	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
764	22	60	105	32	23.7	22.5	21.6	21.0	20.4	20.0	19.5	19.1	18.7	18.3	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
765	22	120	125	32	23.7	22.5	21.6	21.0	20.4	20.0	19.5	19.1	18.7	18.3	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
766	22	120	125	32	23.7	22.5	21.6	21.0	20.4	20.0	19.5	19.1	18.7	18.3	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
767	22	60	105	37	25.9	24.6	24.0	23.3	22.8	22.3	21.8	21.4	21.0	20.6	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
768	22	60	105	37	25.9	24.6	24.0	23.3	22.8	22.3	21.8	21.4	21.0	20.6	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
769	22	180	95	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
770	22	180	95	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
771	22	600	105	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
772	22	600	105	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
773	22	60	125	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
774	22	60	125	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
775	22	60	105	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
776	22	60	105	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
777	22	60	125	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
778	22	60	125	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
779	22	60	125	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
780	22	60	125	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
781	22	120	205	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4
782	22	120	205	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4
783	22	180	105	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
784	22	180	105	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
		8480	109		25.402	23.811	22.810	22.108	21.448	20.881	20.380	19.823	19.486	18.988											
					24.112	22.685	21.774	21.093	20.546	20.073	19.640	19.235	18.830	18.411											

793	23	57	15	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
794	23	57	15	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
795	23	57	15	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
796	23	57	15	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
804	23	57	15	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
803	23	57	15	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
820	23	57	15	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
819	23	57	15	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
798	23	57	25	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
797	23	57	25	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
811	23	57	25	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
812	23	57	25	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
		684	18		24.440	22.467	21.421	20.870	20.080	19.535	19.057	18.602	18.146	17.664											
					24.276	22.317	21.286	20.547	19.951	19.434	18.969	18.520	18.074	17.586											

806	23	57	95	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
805	23	57	95	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
789	23	57	125	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
790	23	57	125	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
791	23	171	125	15	22.7	21.6	20.8	20.1	19.8	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
792	23	171	125	15	22.7	21.6	20.8	20.1	19.8	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
800	23	57	125	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
799	23	57	125	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
801	23	57	125	32	22.9	21.7	20.9	20.2	19.7	19.2	18.8	18.3	17.9	17.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
802	23	57	125	32	22.9	21.7	20.9	20.2	19.7	19.2	18.8	18.3	17.9	17.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
808	23	114	125	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
807	23	114	125	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
813	23	57	125	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
814	23	57	125	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
787	23	57	205	7	24.0	22.9	22.2	21.5	21.0	20.5	20.1	19.7	19.2	18.8	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
788	23	57	205	7	24.0	22.9	22.2	21.5	21.0	20.5	20.1	19.7	19.2	18.8	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
810	23	57	205	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
809	23	57	205	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
815	23	57	205	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
816	23	57	205	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
818	23	57	205	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
817	23	57	205	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
		1596	145		24.798	22.861	21.856	21.094	20.490	19.971	19.507	19.078	18.685	18.257											
					24.470	22.407	21.348	20.575	19.988	19.488	19.051	18.655	18.274	17.884											

821	24	280	105	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
822	24	280	105	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
823	24	65	125	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
824	24	65	125	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
825	24	195	105	6	0.0	30.0	25.6	23.9	22.8	22.0	21.3	20.6	20.1	19.5	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
826	24	195	105	6	0.0	30.0	25.6	23.9	22.8	22.0	21.3	20.6	20.1	19.5	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
827	24	65	125	6	0.0	30.0	25.6	23.9	22.8	22.0	21.3	20.6	20.1	19.5	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
828	24	65	125	6	0.0	30.0	25.6	23.9	22.8	22.0	21.3	20.6	20.1	19.5	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
829	24	65	105	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
830	24	65	105	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
831	24	280	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
832	24	280	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
833	24	910	105	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
834	24	910	105	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
835	24	65	105	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
836	24	65	105	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
837	24	65	115	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
838	24	65	115	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
839	24	130	105	18	0.0	0.0	0.0	0.0	33.1	27.0	25.1	23.9	23.0	22.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
840	24	130	105	18	0.0	0.0	0.0	0.0	33.1	27.0	25.1	23.9	23.0	22.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7

841	24	280	105	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
842	24	280	105	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
843	24	65	125	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
844	24	65	125	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
845	24	130	105	32	23.7	22.5	21.6	21.0	20.4	20.0	19.5	19.1	18.7	18.3	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
846	24	130	105	32	23.7	22.5	21.6	21.0	20.4	20.0	19.5	19.1	18.7	18.3	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
847	24	65	105	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
848	24	65	105	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
849	24	65	105	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
850	24	65	105	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
851	24	65	105	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4
852	24	65	105	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4	55	23.7	22.9	22.3	21.6	21.2	20.8	20.4	20.1	19.7	19.4
		5460	108.		25.394	24.311	22.857	22.110	22.006	21.184	20.826	20.133	19.686	19.202											
					24.108	22.828	21.702	21.023	20.484	20.020	19.589	19.208	18.820	18.421											

853	25	63	65	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
854	25	63	65	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
855	25	63	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
856	25	63	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
		252	85.		24.301	23.408	22.708	22.118	21.802	21.142	20.707	20.287	19.847	19.483											
					23.800	22.241	21.354	20.707	20.191	19.749	19.346	18.974	18.598	18.207											

857	26	63	105	2	0.0	0.0	0.0	28.8	26.6	25.2	24.2	23.3	22.6	21.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
858	26	63	105	2	0.0	0.0	0.0	28.8	26.6	25.2	24.2	23.3	22.6	21.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
859	26	567	105	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
860	26	567	105	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
861	26	63	125	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
862	26	63	125	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
863	26	126	105	6	0.0	30.0	25.6	23.9	22.8	22.0	21.3	20.6	20.1	19.5	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
864	26	126	105	6	0.0	30.0	25.6	23.9	22.8	22.0	21.3	20.6	20.1	19.5	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
865	26	126	95	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
866	26	126	95	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
867	26	126	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
868	26	126	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
869	26	441	105	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
870	26	441	105	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
871	26	63	105	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
872	26	63	105	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
873	26	126	105	18	0.0	0.0	0.0	0.0	33.1	27.0	25.1	23.9	23.0	22.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
874	26	126	105	18	0.0	0.0	0.0	0.0	33.1	27.0	25.1	23.9	23.0	22.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
875	26	126	125	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
876	26	126	125	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
877	26	126	105	31	23.7	22.6	22.1	21.5	21.0	20.5	20.1	19.6	19.2	18.8	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
878	26	126	105	31	23.7	22.6	22.1	21.5	21.0	20.5	20.1	19.6	19.2	18.8	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
879	26	126	95	37	25.9	24.8	24.0	23.3	22.8	22.3	21.8	21.4	21.0	20.6	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
880	26	126	95	37	25.9	24.8	24.0	23.3	22.8	22.3	21.8	21.4	21.0	20.6	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
881	26	378	95	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
882	26	378	95	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
883	26	315	105	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
884	26	315	105	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
885	26	63	95	57	22.3	21.3	20.5	19.7	19.1	18.5	17.9	17.2	16.5	15.5	60	19.7	19.0	18.4	17.9	17.4	16.9	16.4	15.8	15.1	14.1
886	26	63	95	57	22.3	21.3	20.5	19.7	19.1	18.5	17.9	17.2	16.5	15.5	60	19.7	19.0	18.4	17.9	17.4	16.9	16.4	15.8	15.1	14.1
887	26	189	95	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
888	26	189	95	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
889	26	63	105	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
890	26	63	105	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
		6174	103.		25.188	23.923	22.759	22.098	21.883	21.073	20.491	19.963	19.454	18.925											
					23.630	22.287	21.394	20.743	20.201	19.730	19.293	18.875	18.447	17.881											

893	27	300	105	2	0.0	0.0	0.0	28.8	26.6	25.2	24.2	23.3	22.6	21.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2

894	27	300	105	2	0.0	0.0	0.0	28.8	26.6	25.2	24.2	23.3	22.6	21.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
895	27	60	95	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
896	27	60	95	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
897	27	360	105	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
898	27	360	105	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
899	27	420	125	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
900	27	420	125	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
901	27	240	105	6	0.0	30.0	25.6	23.9	22.8	22.0	21.3	20.6	20.1	19.5	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
902	27	240	105	6	0.0	30.0	25.6	23.9	22.8	22.0	21.3	20.6	20.1	19.5	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
903	27	180	95	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
904	27	180	95	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
905	27	300	95	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
906	27	300	95	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
907	27	120	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
908	27	120	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
909	27	60	95	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
910	27	60	95	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
911	27	480	105	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
912	27	480	105	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
913	27	60	125	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
914	27	60	125	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
915	27	60	105	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
916	27	60	105	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
917	27	180	125	18	0.0	0.0	0.0	0.0	33.1	27.0	25.1	23.9	23.0	22.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
918	27	180	125	18	0.0	0.0	0.0	0.0	33.1	27.0	25.1	23.9	23.0	22.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
919	27	120	105	22	29.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
920	27	120	105	22	29.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
921	27	240	125	22	29.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
922	27	240	125	22	29.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
923	27	60	95	30	24.7	23.8	23.0	22.4	21.9	21.5	21.0	20.6	20.2	19.8	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
924	27	60	95	30	24.7	23.8	23.0	22.4	21.9	21.5	21.0	20.6	20.2	19.8	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
925	27	120	105	31	23.7	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	18.8	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
926	27	120	105	31	23.7	22.8	22.1	21.5	21.0	20.5	20.1	19.6	19.2	18.8	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
927	27	120	95	35	29.3	27.9	26.7	25.8	25.1	24.4	23.8	23.3	22.7	22.2	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
928	27	120	95	35	29.3	27.9	26.7	25.8	25.1	24.4	23.8	23.3	22.7	22.2	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
929	27	60	95	37	25.9	24.8	24.0	23.3	22.8	22.3	21.8	21.4	21.0	20.6	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
930	27	60	95	37	25.9	24.8	24.0	23.3	22.8	22.3	21.8	21.4	21.0	20.6	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
931	27	180	95	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
932	27	180	95	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
933	27	60	125	42	26.3	23.9	22.4	21.3	20.4	19.5	18.8	18.2	17.6	16.9	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
934	27	60	125	42	26.3	23.9	22.4	21.3	20.4	19.5	18.8	18.2	17.6	16.9	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
935	27	60	125	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
936	27	60	125	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
937	27	60	205	54	31.6	28.8	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.8	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
938	27	60	205	54	31.6	28.8	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.8	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
939	27	60	95	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	58	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
940	27	60	95	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	58	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
		7920	108.		26.188	24.741	23.408	23.032	22.709	21.807	21.182	20.830	20.116	19.803											
					23.838	22.514	21.821	20.928	20.377	19.904	19.475	19.076	18.676	18.285											
941	28	192	105	2	0.0	0.0	0.0	28.1	25.8	24.5	23.4	22.6	21.8	21.1	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
942	28	192	105	2	0.0	0.0	0.0	28.1	25.8	24.5	23.4	22.6	21.8	21.1	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
943	28	64	95	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
944	28	64	95	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
945	28	64	105	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
946	28	64	105	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
947	28	64	115	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
948	28	64	115	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
949	28	64	95	10	24.7	23.7	22.9	22.2	21.6	21.1	20.6	20.1	19.6	19.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
950	28	64	95	10	24.7	23.7	22.9	22.2	21.6	21.1	20.6	20.1	19.6	19.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4

951	28	64	115	10	24.7	23.7	22.9	22.2	21.6	21.1	20.6	20.1	19.6	19.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
952	28	64	115	10	24.7	23.7	22.9	22.2	21.6	21.1	20.6	20.1	19.6	19.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
953	28	64	95	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
954	28	64	95	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
955	28	128	105	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
956	28	128	105	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
957	28	64	105	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
958	28	64	105	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
959	28	64	115	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
960	28	64	115	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
961	28	256	105	22	28.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
962	28	256	105	27	28.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
963	28	128	115	22	28.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
964	28	128	115	22	28.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
965	28	64	105	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
966	28	64	105	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
967	28	64	105	32	22.9	21.7	20.9	20.2	19.7	19.2	18.8	18.3	17.9	17.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
968	28	64	105	32	22.9	21.7	20.9	20.2	19.7	19.2	18.8	18.3	17.9	17.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
969	28	192	115	32	22.9	21.7	20.9	20.2	19.7	19.2	18.8	18.3	17.9	17.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
970	28	192	115	32	22.9	21.7	20.9	20.2	19.7	19.2	18.8	18.3	17.9	17.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
971	28	64	95	37	25.1	24.0	23.2	22.6	22.0	21.5	21.1	20.7	20.3	19.8	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
972	28	64	95	37	25.1	24.0	23.2	22.6	22.0	21.5	21.1	20.7	20.3	19.8	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
973	28	64	95	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
974	28	64	95	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
975	28	64	105	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
976	28	64	105	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
977	28	64	105	41	26.9	24.3	23.3	22.5	21.8	21.2	20.7	20.2	19.7	19.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
978	28	64	105	41	26.9	24.3	23.3	22.5	21.8	21.2	20.7	20.2	19.7	19.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
979	28	128	115	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
980	28	128	115	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
981	28	64	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
982	28	64	205	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
983	28	64	95	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
984	28	64	95	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
985	28	128	105	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
986	28	128	105	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
987	28	128	115	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
988	28	128	115	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
989	28	128	95	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
990	28	128	95	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
991	28	128	105	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
992	28	128	105	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
993	28	320	115	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
994	28	320	115	46	23.5	21.9	20.8	19.9	19.1	18.4	17.8	17.3	16.7	16.1	47	21.2	19.9	18.9	18.1	17.5	16.9	16.5	16.0	15.6	15.2
995	28	128	95	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
996	28	128	95	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
997	28	64	105	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
998	28	64	105	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
999	28	64	115	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
1000	28	64	115	49	24.9	23.5	22.2	21.1	20.1	19.1	18.3	17.5	16.8	16.1	50	22.7	21.2	20.0	18.9	18.0	17.2	16.6	16.0	15.4	14.9
1001	28	128	115	51	0.0	34.5	32.6	31.5	30.7	30.1	29.2	28.5	27.7	27.1	51	0.0	34.5	32.6	31.5	30.7	30.1	29.2	28.5	27.7	27.1
1002	28	128	115	51	0.0	34.5	32.6	31.5	30.7	30.1	29.2	28.5	27.7	27.1	51	0.0	34.5	32.6	31.5	30.7	30.1	29.2	28.5	27.7	27.1
1003	28	64	95	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
1004	28	64	95	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
1005	28	64	105	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
1006	28	64	105	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
1007	28	64	115	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
1008	28	64	115	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
1009	28	64	115	53	0.0	0.0	34.5	30.8	28.9	27.8	26.9	26.2	25.6	25.1	53	0.0	0.0	34.5	30.8	28.9	27.8	26.9	26.2	25.6	25.1
1010	28	64	115	53	0.0	0.0	34.5	30.8	28.9	27.8	26.9	26.2	25.6	25.1	53	0.0	0.0	34.5	30.8	28.9	27.8	26.9	26.2	25.6	25.1

1011	28	128	95	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
1012	28	128	95	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
1013	28	128	115	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
1014	28	128	115	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8	54	30.9	25.8	24.2	23.3	22.6	22.1	21.7	21.3	21.0	20.8
1015	28	64	145	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
1016	28	64	145	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6	55	22.9	22.2	21.6	20.9	20.5	20.1	19.7	19.3	19.0	18.6
1017	28	576	95	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
1018	28	576	95	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
1019	28	192	105	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
1020	28	192	105	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
1021	28	256	115	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
1022	28	256	115	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
1023	28	64	145	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
1024	28	64	145	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
1025	28	64	205	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
1026	28	64	205	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
		9984	109		24.469	22.535	22.004	21.308	20.489	19.817	19.202	18.818	18.042	17.428											
					23.081	21.802	21.145	20.202	19.493	18.902	18.359	17.848	17.328	16.773											
1033	29	70	105	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1034	29	70	105	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1035	29	70	115	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1036	29	70	115	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1037	29	140	105	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1038	29	140	105	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1039	29	210	115	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1040	29	210	115	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1041	29	140	105	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1042	29	140	105	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1043	29	140	115	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1044	29	140	115	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1045	29	70	105	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1046	29	70	105	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1047	29	140	115	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1048	29	140	115	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1049	29	140	105	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1050	29	140	105	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1051	29	70	105	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1052	29	70	105	31	23.0	22.1	21.3	20.7	20.2	19.7	19.3	18.9	18.5	18.0	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1053	29	70	115	41	25.9	24.3	23.3	22.5	21.8	21.2	20.7	20.2	19.7	19.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
1054	29	70	115	41	25.9	24.3	23.3	22.5	21.8	21.2	20.7	20.2	19.7	19.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
1055	29	70	105	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
1056	29	70	105	42	25.5	23.1	21.7	20.5	19.6	18.8	18.1	17.4	16.8	16.2	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
1057	29	70	105	51	0.0	34.5	32.6	31.5	30.7	30.1	29.2	28.5	27.7	27.1	51	0.0	34.5	32.6	31.5	30.7	30.1	29.2	28.5	27.7	27.1
1058	29	70	105	51	0.0	34.5	32.6	31.5	30.7	30.1	29.2	28.5	27.7	27.1	51	0.0	34.5	32.6	31.5	30.7	30.1	29.2	28.5	27.7	27.1
1059	29	70	115	51	0.0	34.5	32.6	31.5	30.7	30.1	29.2	28.5	27.7	27.1	51	0.0	34.5	32.6	31.5	30.7	30.1	29.2	28.5	27.7	27.1
1060	29	70	115	51	0.0	34.5	32.6	31.5	30.7	30.1	29.2	28.5	27.7	27.1	51	0.0	34.5	32.6	31.5	30.7	30.1	29.2	28.5	27.7	27.1
1061	29	70	205	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
1062	29	70	205	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7	52	31.6	27.5	26.0	24.9	24.1	23.5	22.9	22.5	22.1	21.7
1063	29	70	105	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
1064	29	70	105	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
		3220	113.		24.661	24.120	23.025	22.240	22.999	21.724	21.019	20.435	19.881	19.367											
					23.632	23.247	22.217	21.389	20.726	20.191	19.678	19.217	18.783	18.287											
1065	30	59	105	2	0.0	0.0	0.0	28.8	26.6	25.2	24.2	23.3	22.6	21.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1066	30	59	105	2	0.0	0.0	0.0	28.8	26.6	25.2	24.2	23.3	22.6	21.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1067	30	354	75	3	0.0	28.7	26.7	25.2	24.1	23.2	22.5	21.8	21.2	20.6	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1068	30	354	75	3	0.0	28.7	26.7	25.2	24.1	23.2	22.5	21.8	21.2	20.6	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1069	30	59	105	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1070	30	59	105	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2

1071	30	177	75	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1072	30	177	75	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1073	30	59	105	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1074	30	59	105	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1075	30	354	75	11	23.9	22.9	22.3	21.7	21.3	20.8	20.4	20.0	19.6	19.2	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1076	30	354	75	11	23.9	22.9	22.3	21.7	21.3	20.8	20.4	20.0	19.6	19.2	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1077	30	531	75	12	24.5	23.2	22.2	21.5	20.9	20.4	19.9	19.5	19.1	18.6	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1078	30	531	75	12	24.5	23.2	22.2	21.5	20.9	20.4	19.9	19.5	19.1	18.6	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1079	30	177	75	13	25.2	23.3	22.2	21.4	20.8	20.2	19.8	19.3	18.9	18.5	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1080	30	177	75	13	25.2	23.3	22.2	21.4	20.8	20.2	19.8	19.3	18.9	18.5	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1081	30	59	65	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1082	30	59	65	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1083	30	59	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1084	30	59	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1085	30	59	115	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1086	30	59	115	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1087	30	177	105	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1088	30	177	105	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1089	30	59	115	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1090	30	59	115	15	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1091	30	59	75	19	28.9	27.5	26.4	25.6	24.9	24.2	23.6	23.1	22.5	22.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1092	30	59	75	19	28.9	27.5	26.4	25.6	24.9	24.2	23.6	23.1	22.5	22.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1093	30	118	75	20	0.0	30.6	27.3	25.7	24.5	23.7	22.9	22.2	21.6	21.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1094	30	118	75	20	0.0	30.6	27.3	25.7	24.5	23.7	22.9	22.2	21.6	21.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1095	30	59	65	21	27.4	26.2	25.3	24.6	23.9	23.3	22.8	22.3	21.8	21.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1096	30	59	65	21	27.4	26.2	25.3	24.6	23.9	23.3	22.8	22.3	21.8	21.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1097	30	59	75	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1098	30	59	75	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1099	30	59	75	34	0.0	0.0	0.0	0.0	34.9	31.6	30.2	29.1	28.2	27.3	34	0.0	0.0	0.0	0.0	34.9	31.6	30.2	29.1	28.2	27.3
1100	30	59	75	34	0.0	0.0	0.0	0.0	34.9	31.6	30.2	29.1	28.2	27.3	34	0.0	0.0	0.0	0.0	34.9	31.6	30.2	29.1	28.2	27.3
1101	30	59	75	38	27.9	26.6	25.6	24.7	23.9	23.3	22.6	22.0	21.5	20.9	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1102	30	59	75	38	27.9	26.6	25.6	24.7	23.9	23.3	22.6	22.0	21.5	20.9	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1103	30	59	105	38	27.9	26.6	25.6	24.7	23.9	23.3	22.6	22.0	21.5	20.9	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1104	30	59	105	38	27.9	26.6	25.6	24.7	23.9	23.3	22.6	22.0	21.5	20.9	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1105	30	177	105	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1106	30	177	105	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1107	30	59	115	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1108	30	59	115	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	39	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1109	30	59	115	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
1110	30	59	115	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
1111	30	59	115	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
1112	30	59	115	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
1113	30	59	105	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
1114	30	59	105	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
1115	30	59	75	53	0.0	0.0	35.2	31.5	29.7	28.6	27.6	26.9	26.4	25.9	53	0.0	0.0	35.2	31.5	29.7	28.6	27.6	26.9	26.4	25.9
1116	30	59	75	53	0.0	0.0	35.2	31.5	29.7	28.6	27.6	26.9	26.4	25.9	53	0.0	0.0	35.2	31.5	29.7	28.6	27.6	26.9	26.4	25.9
1117	30	59	75	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
1118	30	59	75	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
1119	30	59	75	58	21.5	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
1120	30	59	75	58	21.5	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
1121	30	236	105	58	21.5	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
1122	30	236	105	58	21.5	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
1123	30	59	115	58	21.5	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
1124	30	59	115	58	21.5	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
		7080	85		24.738	24.317	23.298	22.500	21.890	21.344	20.781	20.280	19.768	19.230											
					23.750	22.318	21.673	20.927	20.584	20.053	19.585	19.150	18.713	18.254											
1131	31	186	105	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1132	31	186	105	5	28.1	25.4	23.8	22.7	21.9	21.2	20.6	20.0	19.5	18.9	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1133	31	62	105	6	0.0	29.2	24.8	23.1	22.1	21.2	20.5	19.9	19.3	18.8	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4

1134	31	62	105	6	0.0	23.2	24.8	23.1	22.1	21.2	20.5	19.9	19.3	18.8	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1135	31	124	105	10	24.7	23.7	22.9	22.2	21.6	21.1	20.6	20.1	19.6	19.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1136	31	124	105	10	24.7	23.7	22.9	22.2	21.6	21.1	20.6	20.1	19.6	19.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1137	31	186	105	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1138	31	186	105	14	22.4	21.6	21.0	20.5	20.1	19.7	19.3	19.0	18.6	18.2	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1139	31	248	105	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1140	31	248	105	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1141	31	124	115	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1142	31	124	115	15	22.7	21.6	20.8	20.1	19.6	19.2	18.7	18.4	18.0	17.6	16	22.8	21.5	20.6	19.9	19.4	19.0	18.6	18.2	17.8	17.4
1143	31	62	105	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1144	31	62	105	18	0.0	0.0	0.0	0.0	32.3	26.2	24.4	23.2	22.3	21.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1145	31	62	105	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1146	31	62	105	22	29.1	25.9	24.3	23.2	22.3	21.6	20.9	20.3	19.8	19.2	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1147	31	124	105	32	22.9	21.7	20.9	20.2	19.7	19.2	18.8	18.3	17.9	17.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1148	31	124	105	32	22.9	21.7	20.9	20.2	19.7	19.2	18.8	18.3	17.9	17.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1149	31	62	115	32	22.9	21.7	20.9	20.2	19.7	19.2	18.8	18.3	17.9	17.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1150	31	62	115	32	22.9	21.7	20.9	20.2	19.7	19.2	18.8	18.3	17.9	17.5	28	24.3	22.7	21.6	20.9	20.3	19.7	19.2	18.8	18.3	17.9
1151	31	124	105	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
1152	31	124	105	38	23.9	22.8	22.0	21.3	20.7	20.1	19.6	19.2	18.8	18.3	39	23.0	22.0	21.2	20.5	20.0	19.5	19.1	18.7	18.3	17.9
1153	31	62	205	40	0.0	0.0	0.0	0.0	0.0	30.0	25.8	23.8	22.4	21.2	40	0.0	0.0	0.0	0.0	0.0	30.0	25.8	23.8	22.4	21.2
1154	31	62	205	40	0.0	0.0	0.0	0.0	0.0	30.0	25.8	23.8	22.4	21.2	40	0.0	0.0	0.0	0.0	0.0	30.0	25.8	23.8	22.4	21.2
1155	31	62	115	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
1156	31	62	115	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9	43	0.0	0.0	22.5	20.5	19.3	18.4	17.7	17.1	16.4	15.9
1157	31	62	105	57	21.5	20.5	19.7	19.0	18.4	17.8	17.1	16.5	15.7	14.8	60	19.0	18.2	17.7	17.1	16.6	16.1	15.6	15.0	14.3	13.4
1158	31	62	105	57	21.5	20.5	19.7	19.0	18.4	17.8	17.1	16.5	15.7	14.8	60	19.0	18.2	17.7	17.1	16.6	16.1	15.6	15.0	14.3	13.4
1159	31	124	105	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
1160	31	124	105	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
1161	31	62	115	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
1162	31	62	115	58	20.9	19.7	18.8	18.1	17.4	16.8	16.2	15.5	14.8	13.8	59	20.4	19.3	18.5	17.8	17.1	16.6	16.0	15.3	14.6	13.7
		3472	110		23.614	22.528	21.500	20.699	20.511	20.114	19.425	18.857	18.317	17.753											
					22.698	21.369	20.552	19.839	19.265	19.171	18.580	18.087	17.600	17.085											
1167	32	118	115	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1168	32	118	115	5	28.9	26.1	24.6	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1169	32	59	115	6	0.0	30.0	25.6	23.9	22.8	22.0	21.3	20.6	20.1	19.5	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1170	32	59	115	6	0.0	30.0	25.6	23.9	22.8	22.0	21.3	20.6	20.1	19.5	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1171	32	59	105	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1172	32	59	105	10	25.4	24.5	23.6	23.0	22.4	21.8	21.3	20.9	20.4	19.9	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1173	32	59	135	11	23.9	22.9	22.3	21.7	21.3	20.8	20.4	20.0	19.6	19.2	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1174	32	59	135	11	23.9	22.9	22.3	21.7	21.3	20.8	20.4	20.0	19.6	19.2	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1175	32	59	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1176	32	59	105	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1177	32	118	115	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1178	32	118	115	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1179	32	177	105	16	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1180	32	177	105	16	23.4	22.3	21.5	20.9	20.4	19.9	19.5	19.1	18.7	18.3	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1181	32	59	95	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1182	32	59	95	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1183	32	59	105	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1184	32	59	105	16	23.6	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1185	32	59	115	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1186	32	59	115	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1187	32	59	135	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1188	32	59	135	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1189	32	177	115	32	23.7	22.5	21.6	21.0	20.4	20.0	19.5	19.1	18.7	18.3	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1190	32	177	115	32	23.7	22.5	21.6	21.0	20.4	20.0	19.5	19.1	18.7	18.3	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1191	32	59	105	35	29.3	27.9	26.7	25.8	25.1	24.4	23.8	23.3	22.7	22.2	38	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1192	32	59	105	35	29.3	27.9	26.7	25.8	25.1	24.4	23.8	23.3	22.7	22.2	38	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1193	32	118	105	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.6	19.1	38	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1194	32	118	105	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.6	19.1	38	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7

1195	32	59	115	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	38	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1196	32	59	115	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	38	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1197	32	59	105	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
1198	32	59	105	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
1199	32	59	115	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
1200	32	59	115	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
1201	32	59	115	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
1202	32	59	115	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
1203	32	177	115	51	0.0	35.2	33.4	32.3	31.5	30.9	30.0	29.3	28.5	27.9	51	0.0	35.2	33.4	32.3	31.5	30.9	30.0	29.3	28.5	27.9
1204	32	177	115	51	0.0	35.2	33.4	32.3	31.5	30.9	30.0	29.3	28.5	27.9	51	0.0	35.2	33.4	32.3	31.5	30.9	30.0	29.3	28.5	27.9
1205	32	59	205	51	0.0	35.2	33.4	32.3	31.5	30.9	30.0	29.3	28.5	27.9	51	0.0	35.2	33.4	32.3	31.5	30.9	30.0	29.3	28.5	27.9
1206	32	59	205	51	0.0	35.2	33.4	32.3	31.5	30.9	30.0	29.3	28.5	27.9	51	0.0	35.2	33.4	32.3	31.5	30.9	30.0	29.3	28.5	27.9
1207	32	59	95	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
1208	32	59	95	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
1209	32	59	105	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
1210	32	59	105	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
1211	32	59	115	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
1212	32	59	115	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5
1213	32	59	205	53	0.0	0.0	35.2	31.5	29.7	28.6	27.6	26.9	26.4	25.9	53	0.0	0.0	35.2	31.5	29.7	28.6	27.6	26.9	26.4	25.9
1214	32	59	205	53	0.0	0.0	35.2	31.5	29.7	28.6	27.6	26.9	26.4	25.9	53	0.0	0.0	35.2	31.5	29.7	28.6	27.6	26.9	26.4	25.9
1215	32	118	115	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
1216	32	118	115	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5	54	31.6	26.6	25.0	24.0	23.4	22.8	22.4	22.1	21.8	21.5
1217	32	59	95	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
1218	32	59	95	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
1219	32	59	105	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
1220	32	59	105	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
1221	32	59	115	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
1222	32	59	115	58	21.6	20.5	19.6	18.8	18.2	17.6	17.0	16.3	15.5	14.6	59	21.2	20.1	19.2	18.5	17.9	17.3	16.7	16.1	15.3	14.4
		4444	116		25.765	25.357	24.371	23.406	22.688	22.087	21.530	21.024	20.524	20.028											
					24.826	24.486	23.584	22.772	22.088	21.548	21.018	20.546	20.074	19.505											
1223	33	265	95	5	28.9	26.1	24.8	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1224	33	265	95	5	28.9	26.1	24.8	23.5	22.7	22.0	21.3	20.8	20.2	19.7	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1225	33	159	95	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1226	33	159	95	14	23.2	22.4	21.8	21.3	20.8	20.5	20.1	19.7	19.4	19.0	16	23.8	22.2	21.4	20.7	20.2	19.7	19.3	19.0	18.6	18.2
1227	33	53	95	18	0.0	0.0	0.0	0.0	33.1	27.0	25.1	23.9	23.0	22.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1228	33	53	95	18	0.0	0.0	0.0	0.0	33.1	27.0	25.1	23.9	23.0	22.2	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1229	33	53	115	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1230	33	53	115	22	28.9	26.6	25.0	23.9	23.1	22.4	21.7	21.1	20.5	20.0	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1231	33	53	95	32	23.7	22.5	21.6	21.0	20.4	20.0	19.5	19.1	18.7	18.3	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1232	33	53	95	32	23.7	22.5	21.6	21.0	20.4	20.0	19.5	19.1	18.7	18.3	28	25.0	23.4	22.4	21.6	21.0	20.5	20.0	19.5	19.1	18.7
1233	33	212	95	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	38	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1234	33	212	95	38	24.7	23.6	22.7	22.0	21.4	20.9	20.4	20.0	19.5	19.1	38	23.7	22.7	21.9	21.3	20.8	20.3	19.9	19.5	19.1	18.7
1235	33	53	95	42	26.3	23.9	22.4	21.3	20.4	19.5	18.6	18.2	17.6	16.9	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
1236	33	53	95	42	26.3	23.9	22.4	21.3	20.4	19.5	18.6	18.2	17.6	16.9	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
1237	33	53	115	42	26.3	23.9	22.4	21.3	20.4	19.5	18.6	18.2	17.6	16.9	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
1238	33	53	115	42	26.3	23.9	22.4	21.3	20.4	19.5	18.6	18.2	17.6	16.9	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
1239	33	159	95	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
1240	33	159	95	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6	43	0.0	0.0	23.2	21.3	20.1	19.2	18.5	17.8	17.2	16.6
1241	33	53	95	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
1242	33	53	95	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
1243	33	106	205	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
1244	33	106	205	46	24.3	22.7	21.5	20.6	19.9	19.2	18.6	18.0	17.4	16.9	47	21.9	20.6	19.6	18.8	18.2	17.7	17.2	16.8	16.4	15.9
1245	33	371	95	49	25.7	24.3	23.0	21.9	20.8	19.9	19.0	18.3	17.5	16.8	50	23.5	22.0	20.7	19.6	18.8	18.0	17.3	16.7	16.2	15.6
1246	33	371	95	49	25.7	24.3	23.0	21.9	20.8	19.9	19.0	18.3	17.5	16.8	50	23.5	22.0	20.7	19.6	18.8	18.0	17.3	16.7	16.2	15.6
1247	33	53	115	49	25.7	24.3	23.0	21.9	20.8	19.9	19.0	18.3	17.5	16.8	50	23.5	22.0	20.7	19.6	18.8	18.0	17.3	16.7	16.2	15.6
1248	33	53	115	49	25.7	24.3	23.0	21.9	20.8	19.9	19.0	18.3	17.5	16.8	50	23.5	22.0	20.7	19.6	18.8	18.0	17.3	16.7	16.2	15.6
1249	33	212	115	51	0.0	35.2	33.4	32.3	31.5	30.9	30.0	29.3	28.5	27.9	51	0.0	35.2	33.4	32.3	31.5	30.9	30.0	29.3	28.5	27.9
1250	33	212	115	51	0.0	35.2	33.4	32.3	31.5	30.9	30.0	29.3	28.5	27.9	51	0.0	35.2	33.4	32.3	31.5	30.9	30.0	29.3	28.5	27.9
1251	33	106	95	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5	52	32.4	28.3	26.8	25.7	24.9	24.2	23.7	23.2	22.9	22.5

1252	33	106	95	52	32	4	28	3	26	8	25	7	24	9	24	2	23	7	23	2	22	9	22	5	52	32	4	28	3	28	8	25	4	24	9	24	2	23	9	23	2	22	9	21	4
1253	33	53	95	54	31	6	26	6	25	0	24	0	23	4	22	8	22	4	22	1	21	8	21	5	54	31	6	26	6	25	0	24	0	23	4	22	8	22	4	22	1	21	8	21	4
1254	33	53	95	54	31	6	[illegible]	6	25	0	24	0	23	4	22	8	22	4	22	1	21	8	21	5	54	31	6	26	6	26	0	24	0	23	4	22	8	22	4	22	1	21	8	21	4
1255	33	53	115	54	31	6	[illegible]	6	25	0	24	0	23	4	22	8	22	4	22	1	21	8	21	5	54	31	6	26	6	25	0	24	0	23	4	22	8	22	4	22	1	21	8	21	4
1256	33	53	115	54	31	6	26	6	25	0	24	0	23	4	22	8	22	4	22	1	21	8	21	5	54	31	6	26	6	25	0	24	0	23	4	22	8	22	4	22	1	21	8	21	4
1257	33	954	95	58	21	6	20	5	19	6	18	8	18	2	17	6	17	0	16	3	15	5	14	6	59	21	2	20	1	19	2	18	5	17	9	17	3	16	7	16	1	15	3	14	4
1258	33	954	95	58	21	6	20	5	19	6	18	8	18	2	17	6	17	0	16	3	15	5	14	6	59	21	2	20	1	19	2	18	5	17	9	17	3	16	7	16	1	15	3	14	4
		6042	101		24	788	23	982	22	821	21	875	21	321	20	546	19	881	19	253	18	623	17	946																					
					23	374	22	856	21	918	21	016	20	304	19	700	19	122	18	574	18	003	17	389																					

15. Appendix VII - Stand based management units for Model 5 in working circle 1

Stand-based management units of Working Circle 1
based on age, site productivity, and
haul distance in 20 Km class intervals (0 - 20 21 - 40, 41 - 60, etc)

310 number of timber classes

First column : the identity of stand
Second column : the identity of compartment
Third column : the area of stand in hectares
Fourth column : the age of stand
Fifth column : the yield stream identity of the existing stand
Sixth column : the yield stream identity of the regeneration stand
Seventh column: the actual haul distance

74	2	54	205	1	1	35.3
73	2	54	205	1	1	35.3
174	4	62	35	2	16	30.6
173	4	62	35	2	16	30.6
1	1	412	95	2	16	33
2	1	412	95	2	16	33
942	28	192	105	2	16	38.6
941	28	192	105	2	16	38.6
893	27	300	105	2	16	40.3
894	27	300	105	2	16	40.3
1066	30	59	105	2	16	42.3
1065	30	59	105	2	16	42.3
858	26	63	105	2	16	48.9
857	26	63	105	2	16	48.9
744	22	60	105	2	16	54.4
743	22	60	105	2	16	54.4
3	1	103	125	2	16	33
4	1	103	125	2	16	33
513	16	58	205	2	16	29.1
514	16	58	205	2	16	29.1
324	11	110	205	2	16	29.6
323	11	110	205	2	16	29.6
5	1	103	205	2	16	33
6	1	103	205	2	16	33
144	3	118	205	2	16	33.2
143	3	118	205	2	16	33.2
7	1	103	75	3	16	33
8	1	103	75	3	16	33
1068	30	354	75	3	16	42.3
1067	30	354	75	3	16	42.3
10	1	103	145	3	16	33
9	1	103	145	3	16	33
11	1	3090	95	5	16	33
12	1	3090	95	5	16	33
145	3	118	95	5	16	33.2
146	3	118	95	5	16	33.2
943	28	64	95	5	16	38.6
944	28	64	95	5	16	38.6
895	27	60	95	5	16	40.3
896	27	60	95	5	16	40.3
457	15	672	95	5	16	44.4
458	15	672	95	5	16	44.4
1223	33	265	95	5	16	54.4
1224	33	265	95	5	16	54.4
1132	31	186	105	5	16	28.3
1131	31	186	105	5	16	28.3
1034	29	70	105	5	16	30.6
1033	29	70	105	5	16	30.6
946	28	64	105	5	16	38.6
945	28	64	105	5	16	38.6
897	27	360	105	5	16	40.3
898	27	360	105	5	16	40.3
610	19	62	105	5	16	42.3
1069	30	59	105	5	16	42.3
1070	30	59	105	5	16	42.3
609	19	62	105	5	16	42.3
822	24	280	105	5	16	47.5
821	24	280	105	5	16	47.5
859	26	587	105	5	16	48.9
860	26	587	105	5	16	48.9
745	22	540	105	5	16	54.4
746	22	540	105	5	16	54.4
1036	29	70	115	5	16	30.6
1035	29	70	115	5	16	30.6
14	1	103	115	5	16	33
13	1	103	115	5	16	33
947	28	64	115	5	16	38.6
948	28	64	115	5	16	38.6
1168	32	118	115	5	16	41.9
1167	32	118	115	5	16	41.9
15	1	206	125	5	16	33
16	1	206	125	5	16	33
565	17	67	125	5	16	38.6
566	17	67	125	5	16	38.6
900	27	420	125	5	16	40.3
899	27	420	125	5	16	40.3
707	21	63	125	5	16	41.9
708	21	63	125	5	16	41.9
459	15	112	125	5	16	44.4
460	15	112	125	5	16	44.4
823	24	65	125	5	16	47.5
824	24	65	125	5	16	47.5
861	26	63	125	5	16	48.9
862	26	63	125	5	16	48.9
747	22	60	125	5	16	54.4
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18	1	1030	95	6	16	33
17	1	1030	95	6	16	33
1134	31	62	105	6	16	28.3
1133	31	62	105	6	16	28.3
902	27	240	105	6	16	40.3
901	27	240	105	6	16	40.3
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825	24	195	105	6	16	47.5
864	26	128	105	6	16	48.9
863	26	128	105	6	16	48.9
749	22	120	105	6	16	54.4
750	22	120	105	6	16	54.4
1170	32	59	115	6	16	41.9
1169	32	59	115	6	16	41.9
611	19	124	125	6	16	42.3
612	19	124	125	6	16	42.3
828	24	65	125	6	16	47.5
827	24	65	125	6	16	47.5
227	6	68	205	7	16	14.2

228	8	58	205	7	16	14	2
746	23	57	205	7	16	30	4
747	23	57	205	7	16	30	4
229	8	58	205	8	16	14	2
230	8	58	205	8	16	14	2
854	25	63	65	10	16	53	1
853	25	63	65	10	16	53	1
1071	30	177	75	10	16	42	3
1072	30	177	75	10	16	42	3
19	1	515	95	10	16	33	
20	1	515	95	10	16	33	
76	2	54	95	10	16	35	3
75	2	54	95	10	16	35	3
949	28	64	95	10	16	38	6
567	17	134	95	10	16	38	6
950	28	64	95	10	16	38	6
568	17	134	95	10	16	38	6
903	27	180	95	10	16	40	3
904	27	180	95	10	16	40	3
461	15	168	95	10	16	44	4
462	15	168	95	10	16	44	4
1135	31	124	105	10	16	28	3
1136	31	124	105	10	16	28	3
1172	32	59	105	10	16	41	9
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614	19	62	105	10	[illegible]	42	3
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1074	30	59	105	10	16	42	3
613	19	62	105	10	16	42	3
829	24	65	105	10	16	47	5
830	24	65	105	10	16	47	5
751	22	60	105	10	16	54	4
752	22	60	105	10	16	54	4
951	28	64	115	10	16	38	6
952	28	64	115	10	16	38	6
616	19	62	205	10	16	42	3
615	19	62	205	10	16	42	3
77	2	54	75	11	16	35	3
78	2	54	75	11	16	35	3
1076	30	354	75	11	16	42	3
1075	30	354	75	11	16	42	3
1174	32	59	135	11	16	41	9
1173	32	59	135	11	16	41	9
79	2	54	75	12	16	35	3
80	2	54	75	12	16	35	3
1078	30	531	75	12	16	42	3
1077	30	531	75	12	16	42	3
1079	30	177	75	13	16	42	3
1080	30	177	75	13	16	42	3
347	13	126	5	14	16	20	8
348	13	126	5	14	16	20	8
148	3	59	5	14	16	33	2
147	3	59	5	14	16	33	2
349	13	63	15	14	16	20	8
350	13	63	15	14	16	20	8
516	16	116	15	14	16	29	1
515	16	116	15	14	16	29	1
618	19	62	15	14	16	42	3
617	19	62	15	14	16	42	3
1082	30	59	65	14	16	42	3

1081	30	59	85	14	16	42	3
259	9	59	95	14	16	19	3
260	9	59	95	14	16	19	3
22	1	412	95	14	16	33	
21	1	412	95	14	16	33	
954	28	64	95	14	16	38	6
953	28	64	95	14	16	38	6
906	27	300	95	14	16	40	3
905	27	300	95	14	16	[illegible]	3
710	21	63	95	14	16	41	9
709	21	63	95	14	16	41	9
464	15	168	95	14	16	44	4
463	15	168	95	14	16	44	4
866	26	128	95	14	16	49	9
865	26	126	95	14	16	49	9
1226	33	159	95	14	16	54	4
1225	33	159	95	14	16	54	4
231	8	58	105	14	16	14	2
232	8	58	105	14	16	14	2
1138	31	186	105	14	16	28	3
1137	31	186	105	14	16	28	3
392	14	60	105	14	16	28	7
391	14	60	105	14	16	28	7
1038	29	140	105	14	16	30	6
1037	29	140	105	14	16	30	6
956	28	128	105	14	16	38	6
955	28	128	105	14	16	38	6
908	27	120	105	14	16	40	3
907	27	120	105	14	16	40	3
1176	32	59	105	14	16	41	9
1175	32	59	105	14	16	41	9
620	19	186	105	14	16	42	3
619	19	186	105	14	16	42	3
1084	30	59	105	14	16	42	3
1083	30	59	105	14	16	42	3
832	24	260	105	14	16	47	5
831	24	260	105	14	16	47	5
867	26	126	105	14	16	49	9
868	26	126	105	14	16	49	9
856	25	63	105	14	16	53	1
855	25	63	105	14	16	53	1
754	22	180	105	14	16	54	4
753	22	180	105	14	16	54	4
1040	29	210	115	14	16	30	6
1039	29	210	115	14	16	30	6
1178	32	118	115	14	16	41	9
1177	32	118	115	14	16	41	9
1086	30	59	115	14	16	42	3
1085	30	59	115	14	16	42	3
465	15	56	115	14	16	44	4
466	15	56	115	14	16	44	4
789	23	57	125	14	16	30	4
790	23	57	125	14	16	30	4
149	3	59	125	14	16	33	2
150	3	59	125	14	16	33	2
570	17	67	125	14	16	38	6
569	17	67	125	14	16	38	6
393	14	60	15	15	16	28	7
394	14	60	15	15	16	28	7
518	16	56	15	15	16	29	1

517	16	58	15	15	16	29.1
622	19	248	15	15	16	42.3
621	19	248	15	15	16	42.3
352	13	252	25	15	16	20.8
351	13	252	25	15	16	20.8
386	14	180	25	15	16	28.7
385	14	180	25	15	16	28.7
519	16	290	25	15	16	29.1
520	16	290	25	15	16	29.1
623	19	372	25	15	16	42.3
624	19	372	25	15	16	42.3
23	1	618	95	15	16	33
24	1	618	95	15	16	33
572	17	67	95	15	16	38.6
571	17	67	95	15	16	38.6
909	27	60	95	15	16	40.3
910	27	60	95	15	16	40.3
468	15	382	95	15	16	44.4
467	15	382	95	15	16	44.4
1140	31	248	105	15	16	28.3
1139	31	248	105	15	16	28.3
397	14	60	105	15	16	28.7
398	14	60	105	15	16	28.7
1042	29	140	105	15	16	30.6
1041	29	140	105	15	16	30.6
958	28	64	105	15	16	38.6
957	28	64	105	15	16	38.6
911	27	480	105	15	16	40.3
912	27	480	105	15	16	40.3
712	21	189	105	15	16	41.9
1179	32	177	105	15	16	41.9
711	21	189	105	15	16	41.9
1180	32	177	105	15	16	41.9
625	19	434	105	15	16	42.3
626	19	434	105	15	16	42.3
1088	30	177	105	15	16	42.3
1087	30	177	105	15	16	42.3
833	24	910	105	15	16	47.5
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869	26	441	105	15	16	49.9
870	26	441	105	15	16	49.9
756	22	1500	105	15	16	54.4
755	22	1500	105	15	16	54.4
1141	31	124	115	15	16	28.3
1142	31	124	115	15	16	28.3
1043	29	140	115	15	16	30.6
1044	29	140	115	15	16	30.6
959	28	64	115	15	16	38.6
960	28	64	115	15	16	38.6
1090	30	59	115	15	16	42.3
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792	23	171	125	15	16	30.4
791	23	171	125	15	16	30.4
81	2	54	125	15	16	35.3
82	2	54	125	15	16	35.3
913	27	60	125	15	16	40.3
914	27	60	125	15	16	40.3
628	19	310	125	15	16	42.3
627	19	310	125	15	16	42.3
794	23	57	15	16	16	30.4

793	23	57	15	16	16	30.4
354	13	63	25	16	16	20.8
353,	13	63	25	16	16	20.8
630	19	124	25	16	16	42.3
629	19	124	25	16	16	42.3
26	1	103	95	16	16	33
25	1	103	95	16	16	33
1181	32	59	95	16	16	41.9
1182	32	59	95	16	16	41.9
916	27	60	105	16	16	40.3
915	27	60	105	16	16	40.3
1184	32	59	105	16	16	41.9
1183	32	59	105	16	16	41.9
835	24	65	105	16	16	47.5
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871	26	63	105	16	16	49.9
872	26	63	105	16	16	49.9
838	24	65	115	16	16	47.5
837	24	65	115	16	16	47.5
574	17	67	85	17	17	38.6
573	17	67	85	17	17	38.6
522	16	58	205	17	17	29.1
521	16	58	205	17	17	29.1
469	15	55	205	17	17	44.4
470	15	55	205	17	17	44.4
28	1	206	35	18	28	33
27	1	206	35	18	28	33
262	9	59	95	18	28	19.3
261	9	59	95	18	28	19.3
576	17	67	85	18	28	38.6
575	17	67	95	18	28	38.6
1228	33	53	95	18	28	54.4
1227	33	53	95	18	28	54.4
1144	31	62	105	18	28	28.3
1143	31	62	105	18	28	28.3
1045	29	70	105	18	28	30.6
1046	29	70	105	18	28	30.6
840	24	130	105	18	28	47.5
839	24	130	105	18	28	47.5
873	26	126	105	18	28	49.9
874	26	126	105	18	28	49.9
1047	29	140	115	18	28	30.6
1048	29	140	115	18	28	30.6
577	17	67	125	18	28	38.6
578	17	67	125	18	28	38.6
917	27	180	125	18	28	40.3
918	27	180	125	18	28	40.3
632	19	62	125	18	28	42.3
631	19	62	125	18	28	42.3
233	8	58	205	18	28	14.2
234	8	58	205	18	28	14.2
287	10	124	205	18	28	24.2
288	10	124	205	18	28	24.2
524	16	58	205	18	28	29.1
523	16	58	205	18	28	29.1
325	11	165	205	18	28	29.6
326	11	165	205	18	28	29.6
1082	30	59	75	18	28	42.3
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328	11	55	205	18	28	29.6

327	11	55	205	15	28	29.6
1093	30	116	75	20	28	42.3
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1095	30	59	65	21	28	42.3
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152	3	59	95	21	28	33.2
151	3	59	95	21	28	33.2
355	13	63	205	21	28	20.8
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153	3	59	205	21	28	33.2
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212	6	60	65	22	28	13
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83	2	54	65	22	28	35.3
84	2	54	65	22	28	35.3
580	17	67	65	22	28	38.6
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29	1	927	95	22	28	33
30	1	927	95	22	28	33
472	15	56	95	22	28	44.4
471	15	56	95	22	28	44.4
1146	31	62	105	22	28	28.3
1145	31	62	105	22	28	28.3
1049	29	140	105	22	28	30.6
175	4	124	105	22	28	30.6
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176	4	124	105	22	28	30.6
32	1	309	105	22	28	33
31	1	309	105	22	28	33
862	28	256	105	22	28	38.6
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819	27	120	105	22	28	40.3
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633	19	62	105	22	28	42.3
634	19	62	105	22	28	42.3
474	15	56	105	22	28	44.4
473	15	56	105	22	28	44.4
842	24	260	105	22	28	47.5
841	24	260	105	22	28	47.5
758	22	300	105	22	28	54.4
757	22	300	105	22	28	54.4
864	28	128	115	22	28	38.6
863	28	128	115	22	28	38.6
1185	32	59	115	22	28	41.9
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1230	33	53	115	22	28	54.4
1229	33	53	115	22	28	54.4
330	11	55	125	22	28	29.6
329	11	55	125	22	28	29.6
86	2	108	125	22	28	35.3
85	2	108	125	22	28	35.3
822	27	240	125	22	28	40.3
821	27	240	125	22	28	40.3
713	21	63	125	22	28	41.9
714	21	63	125	22	28	41.9
635	19	186	125	22	28	42.3
636	19	186	125	22	28	42.3
843	24	65	125	22	28	47.5
844	24	65	125	22	28	47.5
876	26	126	125	22	28	48.9

875	26	126	125	22	28	48.9
759	22	180	125	22	28	54.4
760	22	180	125	22	28	54.4
289	10	124	205	23	28	24.2
290	10	124	205	23	28	24.2
525	16	58	205	23	28	29.1
526	16	58	205	23	28	29.1
331	11	55	205	23	28	29.6
332	11	55	205	23	28	29.6
34	1	103	205	23	28	33
33	1	103	205	23	28	33
156	3	59	205	23	28	33.2
155	3	59	205	23	28	33.2
638	19	62	205	23	28	42.3
637	19	62	205	23	28	42.3
475	15	56	205	23	28	44.4
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334	11	55	205	24	28	29.6
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36	1	206	205	24	28	33
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400	14	180	5	27	28	28.7
399	14	180	5	27	28	28.7
528	16	118	5	27	28	29.1
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640	19	186	5	27	28	42.3
639	19	186	5	27	28	42.3
402	14	120	15	27	28	28.7
401	14	120	15	27	28	28.7
530	16	58	15	27	28	29.1
529	16	58	15	27	28	29.1
642	19	62	15	27	28	42.3
641	19	62	15	27	28	42.3
358	13	315	25	27	28	20.8
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683	20	58	25	27	28	28.3
684	20	58	25	27	28	28.3
531	16	58	25	27	28	29.1
532	16	58	25	27	28	29.1
643	19	124	25	27	28	42.3
644	19	124	25	27	28	42.3
360	13	126	15	28	28	20.8
359	13	126	15	28	28	20.8
403	14	120	15	28	28	28.7
404	14	120	15	28	28	28.7
534	16	232	15	28	28	29.1
533	16	232	15	28	28	29.1
786	23	57	15	28	28	30.4
785	23	57	15	28	28	30.4
645	19	62	15	28	28	42.3
646	19	62	15	28	28	42.3
361	13	189	25	28	28	20.8
362	13	189	25	28	28	20.8
406	14	180	25	28	28	28.7
405	14	180	25	28	28	28.7
536	16	622	25	28	28	29.1
535	16	622	25	28	28	29.1
787	23	57	25	28	28	30.4
788	23	57	25	28	28	30.4
648	19	620	25	28	28	42.3

647	19	620	25	28	28	42.3
408	14	60	35	28	28	28.7
407	14	60	35	28	28	28.7
582	17	67	65	28	28	38.6
581	17	67	65	28	28	38.6
1097	30	59	75	28	28	42.3
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1188	32	59	135	28	28	41.9
1187	32	59	135	28	28	41.9
538	16	58	15	29	28	29.1
537	16	58	15	29	28	29.1
363	13	63	25	29	28	20.8
364	13	63	25	29	28	20.8
158	3	59	95	30	28	33.2
157	3	59	95	30	28	33.2
924	27	60	95	30	28	40.3
923	27	60	95	30	28	40.3
478	15	56	95	30	28	44.4
477	15	56	95	30	28	44.4
650	19	62	205	30	28	42.3
649	19	62	205	30	28	42.3
38	1	309	95	31	28	33
37	1	309	95	31	28	33
583	17	67	95	31	28	38.6
584	17	67	95	31	28	38.6
479	15	112	95	31	28	44.4
480	15	112	95	31	28	44.4
685	20	58	105	31	28	28.3
686	20	58	105	31	28	28.3
1051	29	70	105	31	28	30.6
1052	29	70	105	31	28	30.6
965	28	64	105	31	28	38.6
966	28	64	105	31	28	38.6
925	27	120	105	31	28	40.3
926	27	120	105	31	28	40.3
715	21	126	105	31	28	41.9
716	21	126	105	31	28	41.9
877	26	128	105	31	28	49.9
878	26	126	105	31	28	49.9
762	22	180	105	31	28	54.4
761	22	180	105	31	28	54.4
340	12	59	125	31	28	20.1
339	12	59	125	31	28	20.1
800	23	57	125	31	28	30.4
799	23	57	125	31	28	30.4
177	4	62	125	31	28	30.6
178	4	62	125	31	28	30.6
651	19	62	205	31	28	42.3
652	19	62	205	31	28	42.3
481	15	56	95	32	28	44.4
482	15	56	95	32	28	44.4
1232	33	53	95	32	28	54.4
1231	33	53	95	32	28	54.4
236	8	58	105	32	28	14.2
235	8	58	105	32	28	14.2
1147	31	124	105	32	28	28.3
1148	31	124	105	32	28	28.3
967	28	64	105	32	28	38.6
968	28	64	105	32	28	38.6
654	19	62	105	32	28	42.3

653	19	62	105	32	28	42.3
846	24	130	105	32	28	47.5
845	24	130	105	32	28	47.5
763	22	80	105	32	28	54.4
764	22	80	105	32	28	54.4
1149	31	62	115	32	28	28.3
1150	31	62	115	32	28	28.3
40	1	206	115	32	28	33
39	1	206	115	32	28	33
969	28	192	115	32	28	38.6
970	28	192	115	32	28	38.6
1189	32	177	115	32	28	41.9
1190	32	177	115	32	28	41.9
802	23	57	125	32	28	30.4
801	23	57	125	32	28	30.4
766	22	120	125	32	28	54.4
765	22	120	125	32	28	54.4
1100	30	59	75	34	34	42.3
1099	30	59	75	34	34	42.3
483	15	56	55	35	39	44.4
484	15	56	65	35	39	44.4
42	1	103	95	35	39	33
41	1	103	95	35	39	33
928	27	120	95	35	39	40.3
927	27	120	95	35	39	40.3
1192	32	59	105	35	39	41.9
1191	32	59	105	35	39	41.9
1102	30	59	75	36	39	42.3
1101	30	59	75	36	39	42.3
87	2	54	95	36	39	35.3
88	2	54	95	36	39	35.3
485	15	56	95	36	39	44.4
486	15	56	95	36	39	44.4
1104	30	59	105	36	39	42.3
1103	30	59	105	36	39	42.3
238	8	58	205	36	39	14.2
237	8	58	205	36	39	14.2
291	10	82	205	36	39	24.2
292	10	82	205	36	39	24.2
89	2	54	95	37	39	35.3
90	2	54	95	37	39	35.3
971	28	64	95	37	39	38.6
972	28	64	95	37	39	38.6
929	27	80	95	37	39	40.3
930	27	80	95	37	39	40.3
488	15	112	95	37	39	44.4
487	15	112	95	37	39	44.4
880	26	128	95	37	39	49.9
879	26	128	95	37	39	49.9
768	22	80	105	37	39	54.4
767	22	80	105	37	39	54.4
409	14	180	15	38	39	28.7
410	14	180	15	38	39	28.7
540	16	116	15	38	39	29.1
539	16	116	15	38	39	29.1
804	23	57	15	38	39	30.4
803	23	57	15	38	39	30.4
656	19	124	15	38	39	42.3
655	19	124	15	38	39	42.3
689	20	58	25	38	39	28.3

567	20	58	25	38	39	26.3
541	16	58	25	38	39	29.1
542	16	58	25	38	39	29.1
657	19	310	25	38	39	42.3
658	19	310	25	38	39	42.3
544	16	58	35	38	39	29.1
543	16	58	35	38	39	29.1
489	15	56	65	38	39	44.4
490	15	56	65	38	39	44.4
264	9	59	95	38	39	19.3
263	9	59	95	38	39	19.3
689	20	58	95	38	39	28.3
690	20	58	95	38	39	28.3
44	1	103	95	38	39	33
43	1	103	95	38	39	33
91	2	54	95	38	39	35.3
92	2	54	95	38	39	35.3
586	17	134	95	38	39	38.6
974	28	64	95	38	39	38.6
973	28	64	95	38	39	38.6
585	17	134	95	38	39	38.6
932	27	180	95	38	39	40.3
931	27	180	95	38	39	40.3
718	21	128	95	38	39	41.9
717	21	128	95	38	39	41.9
491	15	56	95	38	39	44.4
492	15	56	95	38	39	44.4
882	26	378	95	38	39	49.9
881	26	378	95	38	39	49.9
769	22	180	95	38	39	54.4
1233	33	212	95	38	39	54.4
1234	33	212	95	38	39	54.4
770	22	180	95	38	39	54.4
1151	31	124	105	38	39	28.3
1152	31	124	105	38	39	28.3
975	28	64	105	38	39	38.6
976	28	64	105	38	39	38.6
720	21	441	105	38	39	41.9
1193	32	118	105	38	39	41.9
1194	32	118	105	38	39	41.9
719	21	441	105	38	39	41.9
1106	30	177	105	38	39	42.3
1105	30	177	105	38	39	42.3
660	19	62	105	38	39	42.3
659	19	62	105	38	39	42.3
847	24	65	105	38	39	47.5
848	24	65	105	38	39	47.5
884	26	315	105	38	39	49.9
883	26	315	105	38	39	49.9
772	22	600	105	38	39	54.4
771	22	600	105	38	39	54.4
1196	32	59	115	38	39	41.9
1195	32	59	115	38	39	41.9
1107	30	59	115	38	39	42.3
1108	30	59	115	38	39	42.3
773	22	60	125	38	39	54.4
774	22	60	125	38	39	54.4
1154	31	62	205	40	40	28.3
1153	31	62	205	40	40	28.3
207	5	130	95	41	43	16.8

208	5	130	95	41	43	16.8
294	10	62	105	41	43	24.2
293	10	62	105	41	43	24.2
978	28	64	105	41	43	38.6
977	28	64	105	41	43	38.6
1053	29	70	115	41	43	30.6
1054	29	70	115	41	43	30.6
494	15	56	125	41	43	44.4
493	15	56	125	41	43	44.4
219	7	59	205	41	43	18.3
220	7	59	205	41	43	18.3
266	9	59	205	41	43	19.3
265	9	59	205	41	43	19.3
295	10	62	205	41	43	24.2
296	10	62	205	41	43	24.2
692	20	58	205	41	43	28.3
691	20	58	205	41	43	28.3
179	4	62	205	41	43	30.6
180	4	62	205	41	43	30.6
214	6	120	95	42	43	13
213	6	120	95	42	43	13
267	9	59	95	42	43	19.3
268	9	59	95	42	43	19.3
298	10	62	95	42	43	24.2
297	10	62	95	42	43	24.2
93	2	216	95	42	43	35.3
94	2	216	95	42	43	35.3
1235	33	53	95	42	43	54.4
1236	33	53	95	42	43	54.4
269	9	59	105	42	43	19.3
270	9	59	105	42	43	19.3
1055	29	70	105	42	43	30.6
1056	29	70	105	42	43	30.6
980	28	128	115	42	43	38.6
979	28	128	115	42	43	38.6
1237	33	53	115	42	43	54.4
1238	33	53	115	42	43	54.4
45	1	103	125	42	43	33
46	1	103	125	42	43	33
95	2	162	125	42	43	35.3
96	2	162	125	42	43	35.3
587	17	67	125	42	43	38.6
588	17	67	125	42	43	38.6
934	27	60	125	42	43	40.3
933	27	60	125	42	43	40.3
721	21	63	125	42	43	41.9
722	21	63	125	42	43	41.9
271	9	118	205	42	43	19.3
272	9	118	205	42	43	19.3
341	12	59	205	42	43	20.1
342	12	59	205	42	43	20.1
385	13	126	205	42	43	20.8
386	13	126	205	42	43	20.8
300	10	124	205	42	43	24.2
299	10	124	205	42	43	24.2
411	14	120	205	42	43	28.7
412	14	120	205	42	43	28.7
181	4	62	205	42	43	30.6
182	4	62	205	42	43	30.6
180	3	69	205	42	43	33.2

159	3	59	205	42	43	33.2
97	2	162	205	42	43	35.3
98	2	162	205	42	43	35.3
981	28	64	205	42	43	38.6
589	17	67	205	42	43	38.6
590	17	67	205	42	43	38.6
982	28	64	205	42	43	38.6
662	19	124	5	43	43	42.3
661	19	124	5	43	43	42.3
414	14	60	25	43	43	28.7
413	14	60	25	43	43	28.7
216	6	180	65	43	43	13
215	6	180	65	43	43	13
274	9	118	65	43	43	19.3
273	9	118	65	43	43	19.3
343	12	118	65	43	43	20.1
344	12	118	65	43	43	20.1
546	16	58	65	43	43	29.1
545	16	58	65	43	43	29.1
100	2	54	65	43	43	35.3
99	2	54	65	43	43	35.3
984	28	64	95	43	43	38.6
983	28	64	95	43	43	38.6
1240	33	159	95	43	43	54.4
1239	33	159	95	43	43	54.4
302	10	62	105	43	43	24.2
301	10	62	105	43	43	24.2
985	28	128	105	43	43	38.6
592	17	67	105	43	43	38.6
986	28	128	105	43	43	38.6
591	17	67	105	43	43	38.6
1197	32	59	105	43	43	41.9
1198	32	59	105	43	43	41.9
1155	31	62	115	43	43	28.3
1156	31	62	115	43	43	28.3
48	1	208	115	43	43	33
47	1	206	115	43	43	33
987	28	128	115	43	43	38.6
988	28	128	115	43	43	38.6
1200	32	59	115	43	43	41.9
1199	32	59	115	43	43	41.9
1110	30	59	115	43	43	42.3
1109	30	59	115	43	43	42.3
184	4	186	125	43	43	30.6
183	4	186	125	43	43	30.6
102	2	54	125	43	43	35.3
101	2	54	125	43	43	35.3
664	19	62	125	43	43	42.3
663	19	62	125	43	43	42.3
50	1	103	135	43	43	33
49	1	103	135	43	43	33
276	9	59	205	43	43	19.3
275	9	59	205	43	43	19.3
304	10	62	205	43	43	24.2
303	10	62	205	43	43	24.2
185	4	62	205	43	43	30.6
186	4	62	205	43	43	30.6
217	6	60	205	44	44	13
218	6	60	205	44	44	13
187	4	62	205	44	44	30.6

188	4	62	205	44	44	30.6
161	3	59	55	45	47	33.2
162	3	59	55	45	47	33.2
103	2	54	65	45	47	35.3
104	2	54	65	45	47	35.3
694	20	58	95	45	47	28.3
693	20	58	95	45	47	28.3
305	10	62	205	45	47	24.2
306	10	62	205	45	47	24.2
163	3	59	205	45	47	33.2
164	3	59	205	45	47	33.2
666	19	62	205	45	47	42.3
665	19	62	205	45	47	42.3
415	14	240	5	46	47	28.7
416	14	240	5	46	47	28.7
547	16	58	5	46	47	29.1
548	16	58	5	46	47	29.1
668	19	186	5	46	47	42.3
667	19	186	5	46	47	42.3
368	13	126	15	46	47	20.8
367	13	126	15	46	47	20.8
417	14	240	15	46	47	28.7
418	14	240	15	46	47	28.7
549	16	58	15	46	47	29.1
550	16	58	15	46	47	29.1
370	13	441	25	46	47	20.8
369	13	441	25	46	47	20.8
308	10	62	25	46	47	24.2
307	10	62	25	46	47	24.2
420	14	600	25	46	47	28.7
419	14	600	25	46	47	28.7
551	16	280	25	46	47	29.1
552	16	280	25	46	47	29.1
670	19	310	25	46	47	42.3
669	19	310	25	46	47	42.3
372	13	189	35	46	47	20.8
371	13	189	35	46	47	20.8
310	10	62	35	46	47	24.2
309	10	62	35	46	47	24.2
421	14	120	35	46	47	28.7
422	14	120	35	46	47	28.7
189	4	186	35	46	47	30.6
190	4	186	35	46	47	30.6
277	9	59	65	46	47	19.3
278	9	59	65	46	47	19.3
423	14	60	95	46	47	28.7
424	14	60	95	46	47	28.7
805	23	57	95	46	47	30.4
806	23	57	95	46	47	30.4
51	1	208	95	46	47	33
52	1	208	95	46	47	33
105	2	162	95	46	47	35.3
106	2	162	95	46	47	35.3
990	28	128	95	46	47	38.6
989	28	128	95	46	47	38.6
486	15	55	95	46	47	44.4
485	15	55	95	46	47	44.4
1241	33	53	95	46	47	54.4
1242	33	53	95	46	47	54.4
991	28	128	105	46	47	38.6

992	28	128	105	46	47	38 6
191	4	186	115	46	47	30 6
192	4	186	115	46	47	30 6
53	1	309	115	46	47	33
54	1	309	115	46	47	33
993	28	320	115	46	47	38 6
994	28	320	115	46	47	38 6
1202	32	59	115	46	47	41.9
1201	32	59	115	46	47	41 9
1111	30	59	115	46	47	42 3
1112	30	59	115	46	47	42 3
807	23	114	125	46	47	30 4
808	23	114	125	46	47	30 4
193	4	186	125	46	47	30 6
194	4	186	125	46	47	30.6
107	2	216	125	46	47	35 3
108	2	216	125	46	47	35 3
593	17	67	125	46	47	38.6
594	17	67	125	46	47	38 6
836	27	60	125	46	47	40 3
835	27	60	125	46	47	40 3
724	21	126	125	46	47	41 9
723	21	126	125	46	47	41 9
496	15	56	125	46	47	44 4
497	15	56	125	46	47	44 4
55	1	103	135	46	47	33
56	1	103	135	46	47	33
240	8	58	205	46	47	14 2
239	8	58	205	46	47	14 2
222	7	59	205	46	47	16 3
221	7	59	205	46	47	16 3
373	13	126	205	46	47	20 8
374	13	126	205	46	47	20 8
312	10	62	205	46	47	24 2
311	10	62	205	46	47	24 2
695	20	58	205	46	47	28 3
696	20	58	205	46	47	28 3
425	14	120	205	46	47	28 7
426	14	120	205	46	47	28 7
553	18	58	205	46	47	29 1
554	18	58	205	46	47	29 1
336	11	220	205	46	47	29 6
335	11	220	205	46	47	29 6
195	4	62	205	46	47	30.6
196	4	62	205	46	47	30 6
57	1	206	205	46	47	33
58	1	206	205	46	47	33
165	3	354	205	46	47	33 2
166	3	354	205	46	47	33.2
109	2	54	205	46	47	35 3
110	2	54	205	46	47	35.3
596	17	67	205	46	47	38.6
595	17	67	205	46	47	38 6
672	19	62	205	46	47	42 3
671	19	62	205	46	47	42.3
1244	33	106	205	46	47	54 4
1243	33	106	205	46	47	54 4
112	2	54	55	49	50	35.3
111	2	54	55	49	50	35.3
113	2	54	65	49	50	35.3

114	2	54	65	49	50	35.3
597	17	67	65	49	50	38.6
598	17	67	65	49	50	38.6
116	2	54	75	49	50	35.3
115	2	54	75	49	50	35.3
209	5	65	95	49	50	16.6
210	5	65	95	49	50	16.6
280	9	59	95	49	50	19.3
279	9	59	95	49	50	19.3
427	14	60	95	49	50	28.7
428	14	60	95	49	50	28.7
198	4	62	95	49	50	30.6
197	4	62	95	49	50	30.6
60	1	103	95	49	50	33
59	1	103	95	49	50	33
118	2	270	95	49	50	35.3
117	2	270	95	49	50	35.3
995	28	128	95	49	50	38.6
996	28	128	95	49	50	38.6
1245	33	371	95	49	50	54.4
1246	33	371	95	49	50	54.4
242	6	58	105	49	50	14.2
241	6	58	105	49	50	14.2
223	7	59	105	49	50	16 3
224	7	59	105	49	50	16.3
697	20	58	105	49	50	28.3
698	20	58	105	49	50	28.3
430	14	60	105	49	50	28.7
429	14	60	105	49	50	28.7
997	28	64	105	49	50	38.6
998	28	64	105	49	50	38.6
725	21	63	105	49	50	41.9
726	21	63	105	49	50	41.9
999	28	64	115	49	50	38.6
1000	28	64	115	49	50	38.6
1248	33	53	115	49	50	54.4
1247	33	53	115	49	50	54.4
119	2	216	125	49	50	35.3
120	2	216	125	49	50	35.3
727	21	63	125	49	50	41.9
728	21	63	125	49	50	41.9
244	6	58	205	49	50	14.2
243	6	58	205	49	50	14.2
346	12	59	205	49	50	20.1
345	12	59	205	49	50	20.1
313	10	62	205	49	50	24.2
314	10	62	205	49	50	24.2
599	17	67	205	49	50	38.6
600	17	67	205	49	50	38.6
376	13	63	15	50	50	20.8
375	13	63	15	50	50	29.8
431	14	180	15	50	50	28.7
432	14	180	15	50	50	28.7
556	16	58	15	50	50	29.1
555	16	58	15	50	50	29.1
673	19	62	15	50	50	42.3
674	19	62	15	50	50	42.3
377	13	189	25	50	50	20.8
378	13	189	25	50	50	20.8
434	14	180	25	50	50	28.7

433	14	180	25	50	50	28.7
380	13	252	35	50	50	20.8
379	13	252	35	50	50	20.8
436	14	60	35	50	50	28.7
435	14	60	35	50	50	28.7
1058	29	70	105	51	51	30.6
1057	29	70	105	51	51	30.6
1060	29	70	115	51	51	30.6
1059	29	70	115	51	51	30.6
1002	28	128	115	51	51	38.6
1001	28	128	115	51	51	38.6
1203	32	177	115	51	51	41.9
1204	32	177	115	51	51	41.9
1250	33	212	115	51	51	54.4
1249	33	212	115	51	51	54.4
1205	32	59	205	51	51	41.9
1206	32	59	205	51	51	41.9
438	14	60	15	52	52	28.7
437	14	60	15	52	52	28.7
1003	28	64	95	52	52	38.6
1004	28	64	95	52	52	38.6
1207	32	59	95	52	52	41.9
1208	32	59	95	52	52	41.9
499	15	112	95	52	52	44.4
500	15	112	95	52	52	44.4
1251	33	106	95	52	52	54.4
1252	33	106	95	52	52	54.4
439	14	60	105	52	52	28.7
440	14	60	105	52	52	28.7
1006	28	64	105	52	52	38.6
1005	28	64	105	52	52	38.6
729	21	63	105	52	52	41.9
1209	32	59	105	52	52	41.9
1210	32	59	105	52	52	41.9
730	21	63	105	52	52	41.9
1113	30	59	105	52	52	42.3
1114	30	59	105	52	52	42.3
775	22	60	105	52	52	54.4
776	22	60	105	52	52	54.4
1007	28	64	115	52	52	38.6
1008	28	64	115	52	52	38.6
1211	32	59	115	52	52	41.9
1212	32	59	115	52	52	41.9
778	22	60	125	52	52	54.4
777	22	60	125	52	52	54.4
61	1	412	145	52	52	33
62	1	412	145	52	52	33
246	8	58	205	52	52	14.2
245	8	58	205	52	52	14.2
699	20	58	205	52	52	28.3
700	20	58	205	52	52	28.3
558	16	116	205	52	52	29.1
557	16	116	205	52	52	29.1
810	23	57	205	52	52	30.4
809	23	57	205	52	52	30.4
1062	29	70	205	52	52	30.6
1061	29	70	205	52	52	30.6
121	2	54	205	52	52	35.3
122	2	54	205	52	52	35.3
676	19	62	205	52	52	42.3

675	19	62	205	52	52	42.3
1116	30	59	75	53	53	42.3
1115	30	59	75	53	53	42.3
1009	28	64	115	53	53	38.6
1010	28	64	115	53	53	38.6
559	16	58	205	53	53	29.1
560	16	58	205	53	53	29.1
1213	32	59	205	53	53	41.9
1214	32	59	205	53	53	41.9
678	19	62	205	53	53	42.3
677	19	62	205	53	53	42.3
381	13	63	5	54	54	20.8
382	13	63	5	54	54	20.8
186	3	59	5	54	54	33.2
187	3	59	5	54	54	33.2
680	19	124	5	54	54	42.3
679	19	124	5	54	54	42.3
383	13	126	25	54	54	20.8
384	13	126	25	54	54	20.8
442	14	180	25	54	54	28.7
441	14	180	25	54	54	28.7
811	23	57	25	54	54	30.4
812	23	57	25	54	54	30.4
561	16	58	35	54	54	29.1
562	16	58	35	54	54	29.1
1118	30	59	75	54	54	42.3
1117	30	59	75	54	54	42.3
63	1	103	95	54	54	33
64	1	103	95	54	54	33
1012	28	128	95	54	54	38.6
1011	28	128	95	54	54	38.6
502	15	112	95	54	54	44.4
501	15	112	95	54	54	44.4
1254	33	53	95	54	54	54.4
1253	33	53	95	54	54	54.4
732	21	63	105	54	54	41.9
731	21	63	105	54	54	41.9
850	24	65	105	54	54	47.5
849	24	65	105	54	54	47.5
1014	28	128	115	54	54	38.6
1013	28	128	115	54	54	38.6
1215	32	118	115	54	54	41.9
1216	32	118	115	54	54	41.9
1255	33	53	115	54	54	54.4
1256	33	53	115	54	54	54.4
563	16	58	125	54	54	29.1
564	16	58	125	54	54	29.1
813	23	57	125	54	54	30.4
814	23	57	125	54	54	30.4
779	22	60	125	54	54	54.4
780	22	60	125	54	54	54.4
65	1	309	145	54	54	33
66	1	309	145	54	54	33
385	13	126	205	54	54	20.8
386	13	126	205	54	54	20.8
316	10	62	205	54	54	24.2
315	10	62	205	54	54	24.2
702	20	58	205	54	54	28.3
701	20	58	205	54	54	28.3
338	11	110	205	54	54	29.6

337	11	116	205	54	54	25 6
816	23	57	205	54	54	30 4
815	23	57	205	54	54	30 4
838	27	60	205	54	54	40 3
837	27	60	205	54	54	40 3
387	13	63	25	55	55	20 8
388	13	63	25	55	55	20 8
443	14	60	25	55	55	28.7
444	14	60	25	55	55	28 7
123	2	54	65	55	55	35 3
124	2	54	65	55	55	35.3
125	2	54	75	55	55	35 3
126	2	54	75	55	55	35 3
504	15	56	95	55	55	44 4
503	15	56	95	55	55	44 4
852	24	65	105	55	55	47 5
851	24	65	105	55	55	47.5
1016	28	64	145	55	55	38.6
1015	28	64	145	55	55	38.6
446	14	60	205	55	55	28 7
445	14	60	205	55	55	28 7
817	23	57	205	55	55	30 4
818	23	57	205	55	55	30.4
199	4	62	205	55	55	30 6
200	4	62	205	55	55	30 6
127	2	54	205	55	55	35 3
128	2	54	205	55	55	35 3
682	19	62	205	55	55	42 3
681	19	62	205	55	55	42.3
781	22	120	205	55	55	54.4
782	22	120	205	55	55	54 4
129	2	108	95	57	60	35.3
130	2	108	95	57	60	35.3
885	26	63	95	57	60	48 9
886	26	63	95	57	60	48 9
248	8	116	105	57	60	14 2
247	8	116	105	57	60	14.2
1157	31	62	105	57	60	28.3
1158	31	62	105	57	60	28.3
448	14	60	105	57	60	28.7
447	14	60	105	57	60	28 7
131	2	54	125	57	60	35 3
132	2	54	125	57	60	35.3
250	8	58	205	57	60	14.2
249	8	58	205	57	60	14.2
226	7	59	205	57	60	16.3
225	7	59	205	57	60	16.3
202	4	62	75	58	59	30 6
201	4	62	75	58	59	30.6
67	1	103	75	58	59	33
68	1	103	75	58	59	33
133	2	54	75	58	59	35.3
134	2	54	75	58	59	35.3
1119	30	58	75	58	59	42.3
1120	30	58	75	58	59	42.3
251	8	58	95	58	59	14 2
252	8	58	95	58	59	14 2
282	9	118	95	58	59	19 3
281	9	118	95	58	59	19.3
317	10	124	95	58	59	24 2
318	10	124	95	58	59	24.2
703	20	58	95	58	59	28.3
704	20	58	95	58	59	28.3
203	4	62	95	58	59	30.6
204	4	62	95	58	59	30.6
70	1	103	95	58	59	33
69	1	103	95	58	59	33
169	3	59	95	58	59	33.2
170	3	59	95	58	59	33.2
135	2	324	95	58	59	35.3
136	2	324	95	58	59	35.3
1017	28	576	95	58	59	38.6
1018	28	576	95	58	59	38.6
801	17	268	95	58	59	38.6
802	17	268	95	58	59	38.6
840	27	60	95	58	59	40.3
839	27	60	95	58	59	40.3
1216	32	59	95	58	59	41.9
1217	32	59	95	58	59	41.9
506	15	168	95	58	59	44.4
505	15	168	95	58	59	44.4
887	26	189	95	58	59	48.9
888	26	189	95	58	59	48.9
1258	33	854	95	58	59	54.4
1257	33	854	95	58	59	54.4
253	8	116	105	58	59	14.2
254	8	116	105	58	59	14.2
1159	31	124	105	58	59	28.3
1160	31	124	105	58	59	28.3
1064	29	70	105	58	59	30.6
1063	29	70	105	58	59	30.6
1020	28	192	105	58	59	38.6
1019	28	192	105	58	59	38.6
1218	32	59	105	58	59	41.9
734	21	128	105	58	59	41.9
1220	32	59	105	58	59	41.9
733	21	128	105	58	59	41.9
1121	30	238	105	58	59	42.3
1122	30	238	105	58	59	42.3
889	26	63	105	58	59	48.9
890	26	63	105	58	59	48.9
784	22	180	105	58	59	54.4
783	22	180	105	58	59	54.4
1161	31	62	115	58	59	28.3
1162	31	62	115	58	59	28.3
1021	28	258	115	58	59	38.6
1022	28	258	115	58	59	38.6
1221	32	59	115	58	59	41.9
1222	32	59	115	58	59	41.9
1123	30	59	115	58	59	42.3
1124	30	59	115	58	59	42.3
206	4	124	125	58	59	30.6
205	4	124	125	58	59	30.6
137	2	54	125	58	59	35.3
138	2	54	125	58	59	35.3
1023	28	64	145	58	59	38.6
1024	28	64	145	58	59	38.6
255	8	58	205	58	59	14.2
256	8	58	205	58	59	14.2
283	9	59	205	58	59	19.3

284	9	59	205	58	58	19.3
319	10	124	205	58	59	24.2
320	10	124	205	56	59	24.2
1025	28	64	205	58	59	38.6
1026	28	64	205	58	58	38.6
171	3	59	5	59	59	33.2
172	3	58	5	58	58	33.2
449	14	300	15	59	59	28.7
450	14	300	15	59	69	28.7
818	23	57	15	59	59	30.4
820	23	57	15	59	59	30.4
706	20	58	25	58	59	28.3
705	20	56	25	59	59	28.3
451	14	120	25	58	59	28.7
452	14	120	25	59	59	28.7
390	13	63	35	59	59	20.8
389	13	63	35	58	58	20.8