
Predictive Assessment and Compressive Strength Test of Geopolymer Concrete Mix as a Partial Replacement to Conventional Concrete Mix with Artificial Neural Network Application

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Article

Predictive Assessment and Compressive Strength Test of Geopolymer Concrete Mix as a Partial Replacement to Conventional Concrete Mix with Artificial Neural Network Application

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Abstract: Geopolymers, made from aluminosilicate raw materials, offer significant environmental advantages over conventional concrete (CC) mixes. This study explores the compressive strength, setting time, and durability of geopolymer concrete (GPC) cylinders, some of which include an additional ordinary portland cement (OPC) mix. Consistent material composition and testing methods are emphasized to achieve reliable results. MATLAB was utilized to develop and assess a neural network model predicting the compressive strength of GPC based on key variables. The model was validated using 16 experimental samples and 1047 samples from various studies. The performance plot displayed the Mean Squared Error (MSE) over iterations, identifying the best training performance at epoch 658 with an MSE of 5.3408. The Error Histogram highlighted distribution errors between predicted and actual compressive strength values, with the highest range from -1.015 to 0.3587, meaning that the predicted values were mostly within a small margin of error from the actual values. This narrow error range indicates that the ANN model has high accuracy in its predictions, as most errors are small and clustered around zero, demonstrating reliable performance in estimating compressive strength. Regression analysis showed varying correlation coefficients (training set $R=0.98373$, test set $R=0.88164$, and whole set $R=0.96982$), indicating adequate predictive accuracy. The results demonstrate that properly trained neural networks can effectively predict the compressive strength of GPC, highlighting its potential as a sustainable construction material.

Keywords: geopolymer concrete; conventional concrete mix; artificial neural networks

1. Introduction

The construction industries in the Philippines mostly utilize concrete when it comes to infrastructure projects. However, there are many downsides to conventional concrete (CC) mixes utilized nowadays. The materials employed in some of the current construction materials and the waste produced are not environmentally friendly. The global carbon footprint has been significantly impacted by the manufacture of ordinary portland cement (OPC), leading to ongoing environmental issues [1]. Conventional concrete mixes (CCMs) are among the most popular building materials utilized worldwide to develop structures, including buildings, infrastructures, roads, and bridges. Despite being a good building material, ordinary portland cement production produces a lot of CO₂ [2]. On the other hand, several studies have shown that geopolymers have remarkably lower Carbon dioxide emissions [3]. According to the study of Bagci et al., geopolymer concrete (GPC) cylinders also has higher compressive strength and low shrinkage quick setting, acidity and heat resistance, low thermal conductivity, and other desirable properties [4].

In 1979, Davidovits initially proposed geopolymers made of semi-crystalline, three-dimensional aluminosilicate components. When a highly concentrated aqueous alkali hydroxide-silicate solution is applied to an aluminosilicate raw material, including slag, fly ash, calcined clay, etc., geopolymer, an amorphous, 3-D inorganic polymer, is created. Compared to Portland cement, geopolymers

produce 80% less CO₂ [5]. Geopolymer innovation is still in its early stages. Because these combinations are sensitive to several factors, using them correctly requires training.

Geopolymer concrete mix (GCM) has the potential to exhibit better mechanical properties than traditional concrete, including higher compressive strength, lower permeability, and greater durability [6]. However, the production of GCM is still experimental, and predictive assessments must be needed to determine its mechanical properties. Artificial Neural Networks (ANNs) have shown great potential for modeling and predicting complex systems, including the mechanical properties of concrete. ANNs can be used to model the relationships between various factors and the mechanical properties of GCM, including its constituent materials, curing conditions, and mixing proportions [7].

The proposed research aims to develop an ANN-based predictive model to assess the compressive strength of the GCMs. Using ANNs for the predictive assessment of GCM provides an efficient and reliable method for determining its mechanical properties. The developed ANN model can optimize the GCM design, reducing the need for expensive and time-consuming experimental testing. Moreover, the model can be used to assess the effects of various factors on the mechanical properties of GCM and optimize its production process [8].

As shown in Figure 1, the research started by identifying the mechanical properties that affect the compressive strength of the GCM, including the proportion of cementitious materials, aggregates, alkaline activators, etc. These factors are used as input variables in the ANN model, while the compressive strength is the output variable.

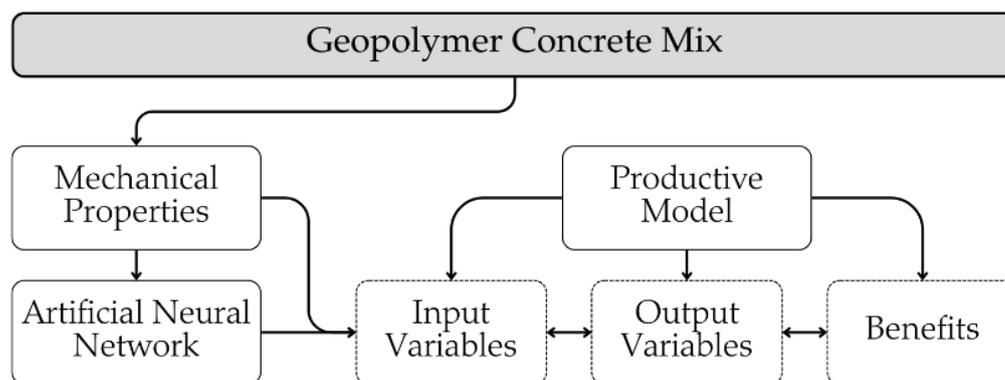


Figure 1. Theoretical Framework.

1.1. Objectives

This section may be divided by subheadings. It should provide a concise and precise description of the experimental results, their interpretation, as well as the experimental conclusions that can be drawn.

Furthermore, this research aims to fulfill and accomplish the following specific objectives:

1. Justify how ANNs can contribute to predictively analyzing and determining the compressive strength of geopolymer concrete;
2. Refer to the related literature on various geopolymer material properties and compressive strength;
3. Conduct experiments for prototyping geopolymer concrete and compressive strength tests;
4. Use neural networks to effectively determine the compressive strength of geopolymer concrete aligned to the experimental data; and
5. Analyze the approaches of neural networks in determining the compressive strength of GPC.

1.2. Conceptual Framework

As shown in Figure 2, the conceptual framework exhibits the initial to final phases of the research that the study undertook in achieving the objectives, desired result, and conclusion.

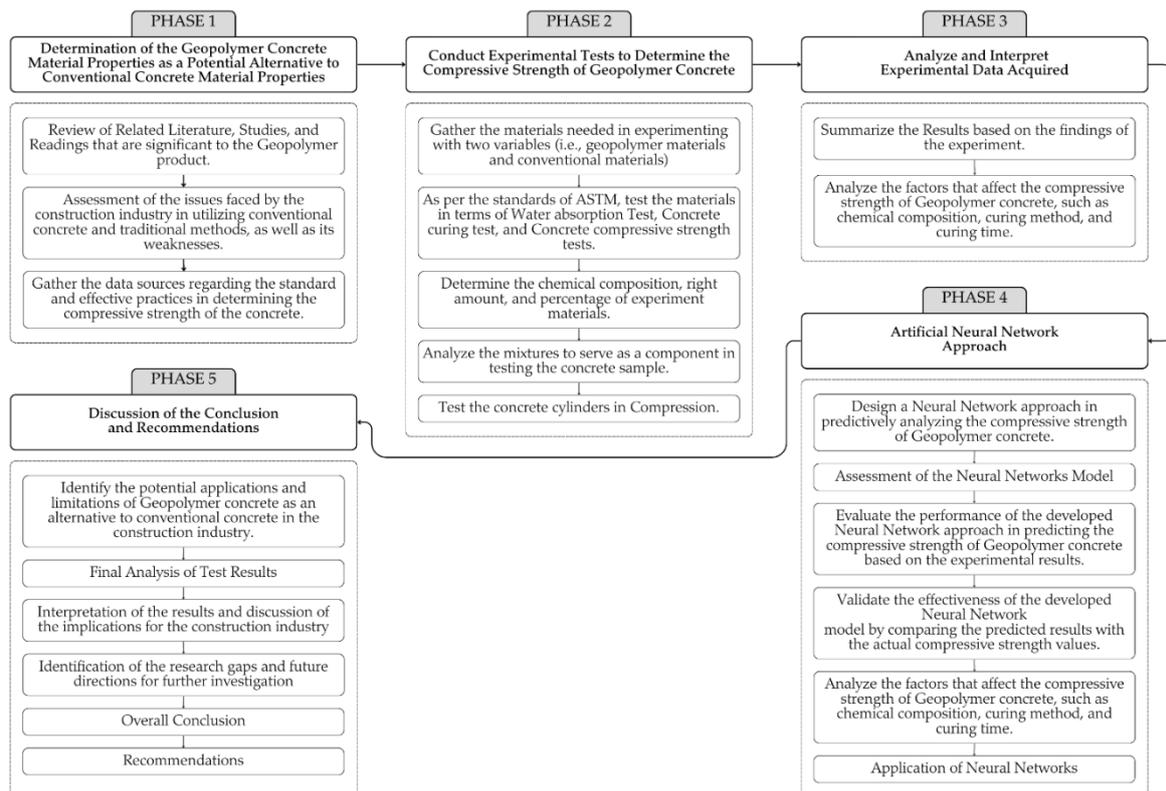


Figure 2. Conceptual Framework.

2. Materials and Methods

2.1. Research Materials

Research materials are essential for the preparation and testing of GPC. The materials include alkaline activators, supplementary cementitious materials, aggregates, and other additives required to produce the GPC mix. The equipment consists of tools for mixing, casting, curing, and testing concrete specimens. These research materials are employed to investigate GPC's properties, strength, and performance, enhancing our understanding and advancement of this alternative construction material. It also includes sodium hydroxide, sodium silicate, superplasticizer, fly ash (Class F), water, mixed aggregate (sand and gravel), cooking spray, and a wooden spoon [9].

2.2. Data Gathering Procedures

The research problem and objectives are determined to ensure that the data gathered is written in an organized manner and taken into account during the experiment. This aids in determining what data needs to be collected and what techniques are needed to gather it. Then, the researchers determine the sample size, which, in this study's case, involves identifying the GPC mix and CC mix samples that will be tested.

Next, the appropriate data collection methods must be chosen based on the research problem and objectives. In this study, experimentation was considered a data-gathering method. Then, the data collection plan must be developed, which includes a detailed description of the data collection methods, data sources, and data collection tools to be used.

The data collection tools and methods were developed based on the sources reviewed in the literature to ensure their effectiveness and reliability. This aids in identifying any issues that may arise during data collection and addressing them before starting the actual experimentation. During the actual experimentation, the collected data must be accurate and consistent. After collecting the data, the researchers analyzed them using the proposed statistical method, ANNs, to determine the geopolymer and CC mix's predictive assessment and compressive strength.

2.3. Research Design

Various data sources are utilized to evaluate the properties and performance of the GPC mix. These sources include water absorption tests, concrete curing tests, and concrete compressive strength tests. Each of these tests provides specific information related to the particle size distribution, porosity, moisture absorption, grading, curing conditions, and load-bearing capacity of the GPC. The data obtained from these tests helps assess the workability, durability, and overall strength of the GPC, contributing to a comprehensive understanding of its suitability as an alternative to CC. The study aims to gain insights into the characteristics and behavior of GPC, facilitating its further development and application in the construction industry.

2.4. Geopolymer Concrete Experiment

The experimentation to manufacture GPC was based on relevant references, such as articles containing information regarding GPC prototyping [9–11]. GPC is said to be the most improved type of concrete after OPC concrete. To prove this, experiments justifying the advantages of GPC, such as greater strength and durability, are necessary. Moreover, in conducting several tests, prototyping the GPC sample is required to produce cylinders.

The researchers conducted an experiment to produce 14 GPC samples and 2 CC samples. Table 1 below shows the density in kg/m³ of ingredients and components in each concrete sample from GPC1 to CC2.

Table 1. Ingredients for GPC and CC Mix 1-16.

Name	Fly Ash (kg/m ³)	Sand (kg/m ³)	Gravel (kg/m ³)	GGBFS (kg/m ³)	Portland Cement (kg/m ³)	SP (kg/m ³)	NaOH (kg/m ³)	Water (kg/m ³)	Na ₂ SiO ₃ (kg/m ³)
GPC1	3013.675	3671.500	6002.500	744.555	0	37.118	264	287	1793.250
GPC2	3013.675	3671.500	6002.500	744.555	0	37.118	264	287	1793.250
GPC3	2659.125	2900	9003.750	1595.475	0	39.769	96.500	284	3945
GPC4	2659.125	2900	9003.750	1595.475	0	39.769	96.500	284	3945
GPC5	2785.500	4350	6780.750	835.650	2708.250	0	0	200	0
GPC6	2785.500	4350	6780.750	835.650	2708.250	0	0	200	0
GPC7	1063.650	3500	6002.500	319.095	1950	31.815	176	287	1195.500
GPC8	709.100	4944	6927.500	354.550	472.734	0	223.500	0	1372.500
GPC9	709.100	4944	6927.500	354.550	472.734	0	223.500	0	1372.500
GPC10	493.500	4339	7357.500	364.500	728.500	0	148	564.350	986.400
GPC11	493.500	4339	7357.500	364.500	728.500	0	148	564.350	986.400
GPC12	827.500	5013	7961.500	381	594.500	0	176.500	106.225	1233
GPC13	827.500	4000	6090.500	354.550	352	0	58.424	0	1541.576
GPC14	827.500	4000	6090.500	354.550	352	0	58.424	0	1541.576
CC1	0	4350	6780.750	0	2708.250	0	0	150	0
CC2	0	4350	6780.750	0	2708.250	0	0	150	0

2.5. GPC and CC Casting

The fine aggregates were then measured according to the designated percentage. The mix percentage of each cylinder is shown in Table 2. These mix ratios were strategically chosen to evaluate their combined properties, aiming to find an optimal balance between strength, durability, and sustainability. Specifically, it ranges from pure geopolymer (100% GP Mixture) to pure (100% OPC

Mixture), with various intermediate ratios (e.g., 70%/30%, 50%/50%, 40%/60%, 15%/85%). These variations were selected based on a combination of factors, including preliminary experimental results, and practical considerations such as workability and setting time.

Table 2. Varying Proportions of Geopolymer Mix and OPC Mix.

Name	GP Mixture	OPC Mixture
GPC1 - GPC2	100%	0%
GPC3 - GPC4	70%	30%
GPC5 - GPC6	30%	70%
GPC7	15%	85%
GPC8 - GPC9	60%	40%
GPC10 - GPC11	40%	60%
GPC12	50%	50%
GPC13 - GPC14	70%	30%
CC1 - CC2	0%	100%

2.6. Water Absorption Test

To assess the porosity as well as the permeability of the mixture, water absorption tests are carried out on the concrete samples. These tests aid in evaluating the concrete's efficiency and longevity under actual conditions, particularly in areas where humidity is a concern. The concrete specimens were then weighed after removing from the molds weighing their dry weight before submerging them in water for 28 days, this guarantees that water is completely absorbed into the pores of the concrete. After 28 days, the researchers proceed to surface drying, the specimens are weighed afterward. The percentage of water that the concrete absorbed throughout the submerged period is shown by the weight increase [12]. Generally, to compute the Water Absorption, Equation (1) is used:

$$WA\% = ((\text{Weight of water absorbed})/(\text{Dry weight of the sample})) * 100\% \quad (1)$$

Water absorption is determined by dividing the weight of water absorbed by the sample's dry weight, stated as a percentage.

2.7. Compressive Strength Test

This is performed to determine GPC's load-bearing capacity and strength characteristics. It involves subjecting cured concrete specimens to increasing compressive loads until failure occurs. The maximum load applied and the corresponding failure point are recorded to calculate the compressive strength. This data is crucial for assessing GPC's structural performance and suitability in practical applications. The step-by-step procedure for this test is according to the ASTM C39 and other relevant references [13,14].

Figure 3 shows how ASTM's C39 is done, illustrating the fracture patterns that occur when a concrete sample is compressed.



Figure 3. Compressive Strength Testing using Universal Testing Machine.

2.8. Artificial Neural Network

This ANN system aims to provide a reliable and accurate prediction model for concrete compressive strength evaluation. The statistical treatment involved rigorous analysis and optimization of the ANN architecture, training parameters, and input variables to ensure optimal performance and generalizability. By implementing appropriate statistical techniques, such as data preprocessing, feature selection, and model evaluation, the researchers aimed to create an ANN system that produces accurate predictions of concrete compressive strength and serves as a foundation for future researchers in the field [15].

The statistical treatment allows the identification of significant variables and the determination of their respective contributions to the overall predictive performance of the ANN model.

Developing this ANN system with a robust statistical treatment enhances its potential for broader applicability and generalization. It provides a reliable framework that can be used as a benchmark for future studies on concrete compressive strength prediction using ANNs. [16] The formulation of this working ANN system contributes to advancing research in the field, facilitating further investigations and enabling the comparison and validation of future models and methodologies. [17]

The validity of the strength model was verified using actual experimental data and experimental data from various sources. Test results were compiled for concrete, including fly ash, coarse and fine aggregates, GGBFS, and cement. It was decided to ensure these mixtures presented all the data needed for such an assessment and were a corresponding group controlling all the key factors affecting GPC strength. Given that 16 samples were produced in the experiment for the study, the current researchers also examined 1047 concrete samples from multiple studies and added them. [18–22] As shown in Appendix A, the following data are used as the input and output parameters for the ANN model.

The researchers utilized MATLAB to develop and assess the neural network model for this study. The independent variables included Fly Ash, Sand, Gravel, GGBFS, Portland Cement, Superplasticizers, Sodium Hydroxide, Water, and Sodium Silicate. The dependent variable was the concrete samples' Compressive Strength (MPa).

In MATLAB, the researchers implemented various neural network architectures to determine the most accurate model for predicting the compressive strength of GPC. The researchers ended up using the Neural Network Fitting of the software. The data was split into training, validation, and testing sets in the following proportions: 70% training data, 10% validation data, and 20% test data. This ensured the model's integrity and accuracy. Training involved adjusting the network parameters to minimize prediction errors, while validation helped run the model to prevent

overfitting. The testing phase evaluated the model's performance on unseen data, ensuring its reliability.

Critical parameters for the neural network included a layer size of 15 using Bayesian Regularization. Bayesian Regularization was employed to improve generalization by reducing the risk of overfitting, especially with complex models.

The key performance parameters include Mean Squared Error (MSE), which measures the average squared difference between predicted and actual values, and the R-value, indicating the strength of the linear relationship between these values. Training state parameters consist of the gradient, reflecting the rate of change of the loss function; Mu, related to Bayesian Regularization to prevent overfitting; the number of parameters, representing the model's complexity; sum squared parameters, which help promote simpler models by penalizing large weights; and validation checks, ensuring consistent performance without overfitting. Additionally, experimental parameters involved various ratios of geopolymer concrete (GPC) and Ordinary Portland Cement (OPC) mixes, such as 100% GPC, mixtures with different proportions of GPC and OPC, and 100% OPC. These parameters collectively contribute to evaluating and optimizing the ANN model's ability to predict the compressive strength of geopolymer concrete mixes.

3. Results

3.1. Casting Observation and Outcomes of the Specimens

Proportions were made to test each component's effectiveness in increasing the concrete's compressive strength. Regarding proportionality, GPC1-GPC6 followed the 3-3-1 mix ratio, while GPC8-GPC14 was based on the 3-2-1 mix ratio. Considering all the factors, the following observations are made.

According to Table 2 in geopolymer concrete (GPC) and Conventional Concrete (CC) casting, GPC5-GPC6 containing 30% geopolymer Mixture and 70% Conventional Mixture and GPC8 containing 60% geopolymer mixture and 40% Conventional mixture, have the highest compressive strength observed in Table 4. These observations aid the researchers to associate the mixing proportions to its respective compressive strengths and identify the most effective proportions in achieving the desired results.

Figure 4 shows the outcome of the concrete cylinders GPC 1, GPC 3, GPC 5, GPC7, and CC1 after 36 hours of casting.



Figure 4. GPC (with varying proportions) after casting.

The ratio of cement to aggregates affects the strength of concrete. Too much water or cement can weaken concrete and make it fragile. A proper mix ratio guarantees that the concrete reaches its optimal strength. Concrete constructions can last longer by using the right mix ratios, especially in tough settings. For instance, a mix that contains more cement might be less vulnerable to chemical deterioration. [23]

3.2. Water Absorption Test Results

Table 3 shows the lightness and heaviness of concrete cylinders and the outcomes of the Water Absorption test by weight and percentage.

Table 3. Concrete Water Absorption Test Calculation and Results.

Name	Dry Weight (kg)	Wet Weight (kg)	Water Absorption (%)
GPC1	9.850	10.950	11.170
GPC2	9.850	10.950	11.170
GPC3	11.100	11.150	0.450
GPC4	11.100	11.150	0.450
GPC5	11.200	11.250	0.450
GPC6	11.200	11.250	0.450
CC1	11.250	11.250	0.000
CC2	11.250	11.250	0.000
GPC7	11.100	11.200	0.900
GPC8	11.200	11.250	0.450
GPC9	11.200	11.200	0.000
GPC10	11.150	11.250	0.900
GPC11	11.150	11.250	0.900
GPC12	11.200	11.250	0.450
GPC13	11.150	11.200	0.450
GPC14	11.150	11.200	0.450

When all factors are considered, water absorption tests generate important information that aids in evaluating the general performance and overall quality of the concrete, guaranteeing that it satisfies the requirements for the purpose for which it is designed.

3.3. Compressive Strength Test

This study also aims to achieve a 20-30 mpa compressive strength in each sample because it is under the recommended concrete strength [24,25]. While some failed to achieve this, three samples out of 16 achieved a higher compressive strength than others. This aided the researchers to observe what factors to consider for higher compressive strength. Table 4 shows the number of days and the compressive strength of each sample tested in the lab.

Table 4. Overall Compressive Strength Observed in Lab.

Name	Compressive Strength (MPa)
GPC1	0.91
GPC2	0.71
GPC3	5.35
GPC4	2.69
GPC5	24.09
GPC6	30.94
GPC7	7.98
GPC8	21.91
GPC9	14.79
GPC10	13.48
GPC11	14.83
GPC12	16.39
GPC13	7.24
GPC14	5.42
CC1	18.10

CC2

17.55

Adding OPC to GPC's mixture is essential because it can change its strength, setting time, and durability. Thus, compressive strength testing is conducted to comprehend the impacts of the cement additive and improve the mix design for applications.

It was clear from evaluating the samples and assessing the data that they satisfied the requirement and had appropriate handling, consistent material composition, and precise testing methods. On the other hand, there was evidence of variability in one or more of these areas in the samples that did not reach the criteria. Moreover, a thorough assessment of the material procurement, mix design, and testing procedures is advised to find and fix any strength issues. Doing this guarantees that every sample satisfies the requirements and enhances the consistency and dependability of compressive strength.

3.4. Artificial Neural Network: Fitting

Several graphs and results were considered to evaluate the model's performance comprehensively:

- A. **Performance.** The performance plot demonstrates that the ANN model effectively learns and predicts the compressive strength of GPC. As shown in Figure 5, the best training performance is 5.3408 at epoch 658, which shows that the model has been trained with minimal errors.

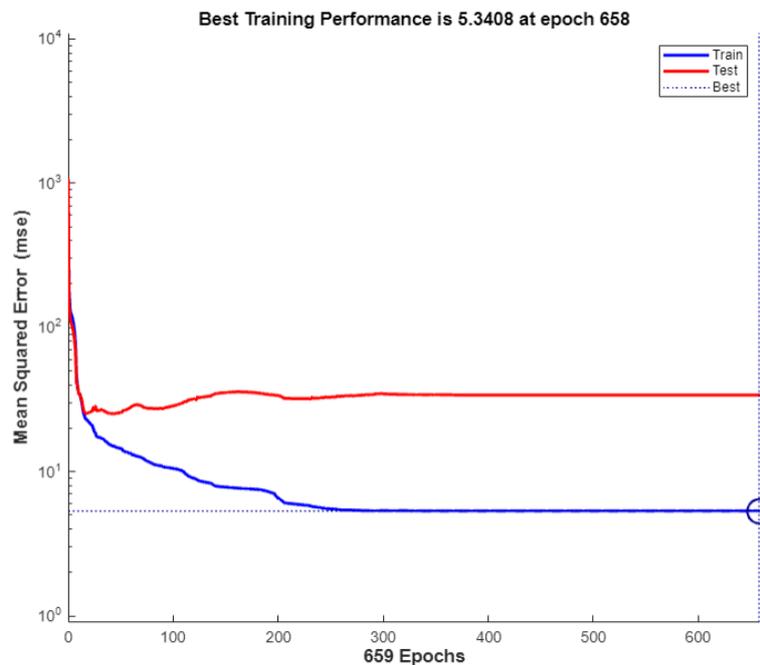


Figure 5. Performance plot of outcomes.

- B. **Error Histogram.** This provided a visual representation of the distribution errors between the predicted and actual compressive strength values. As shown in Figure 6, this helped understand the model's accuracy and identify any significant outliers. The highest distribution is between -1.015 to 0.3587. The errors are mostly small and clustered around zero, indicating the model's predictions are accurate and reliable.

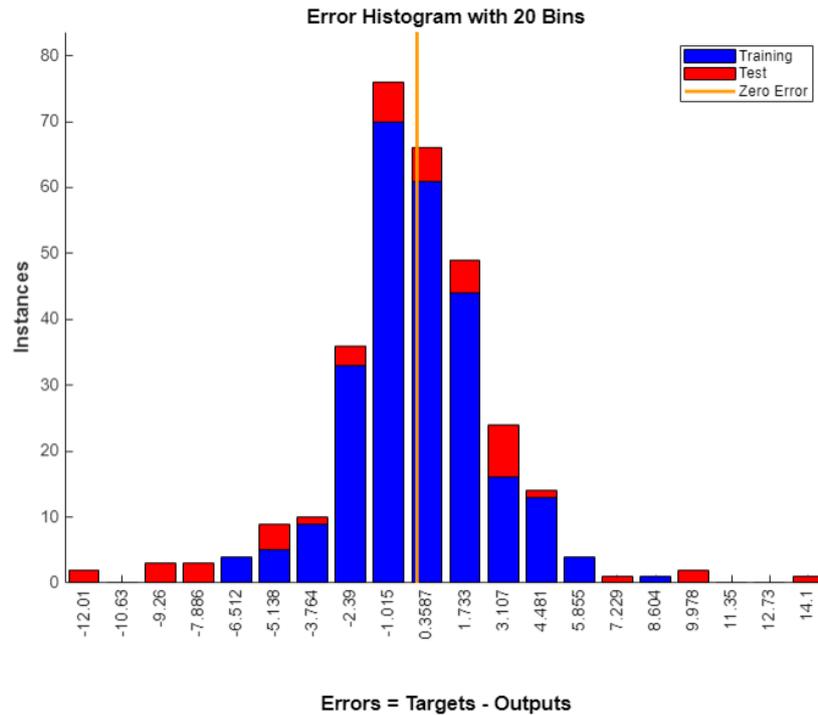


Figure 6. Histogram performance plot of outcomes.

- C. **Regression.** Figure 7 displays the correlation between the predicted and actual compressive strength values for the training, validation, and sets. High correlation coefficients (close to 1) indicated predictive solid performance. In this case, the training set resulted in $R=0.98373$, Test to $R=0.88164$, and All set to $R=0.96982$. The training set shows a very strong correlation between predicted and actual values during training. The test set, while lower than the training set, still shows a good correlation.

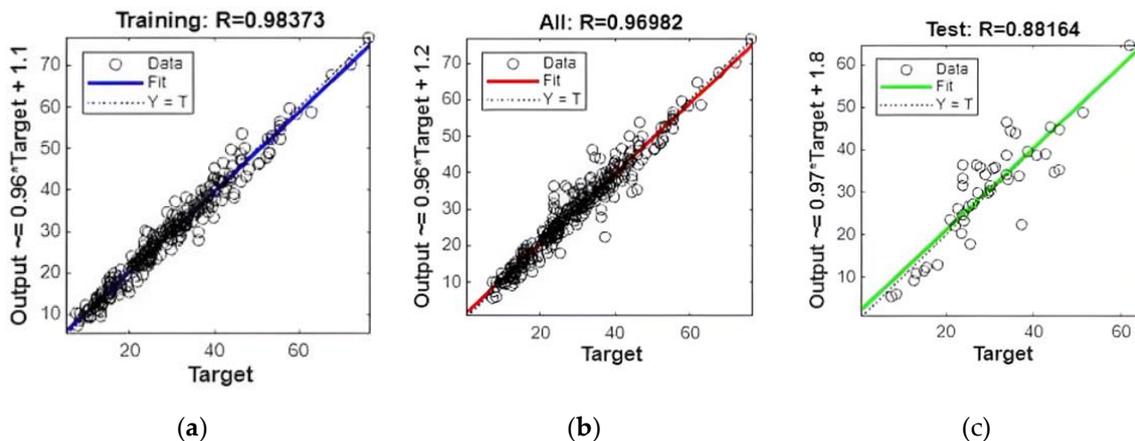


Figure 7. Parts A, B, and C of Regression model of outcomes

- D. **Training State.** Figure 8 shows the progress of the training process, including the following:
- Gradient (0.49901 at epoch 659). This suggests that the training process is converging well and the model is reaching its optimal state. This is important for ensuring that the model is not overfitting or underfitting and is learning effectively.
 - Mu (50000000000 at epoch 659) indicates strong regularization, ensuring that the model generalizes well to unseen data by avoiding overfitting, which keeps it smart and balanced.
 - Num Parameters (110.7105 at epoch 659). The value here indicates a balanced model complexity suited for the dataset size and problem.

- d. Sum Squared Parameters showing 183.1633 at epoch 659 ensures that the model is not overly complex, which is important for consistent performance across different datasets.
- e. Validation Checks (0 at epoch 659). Zero validation checks imply that this model consistently performed well on the validation set, indicating a stable training process without overfitting.

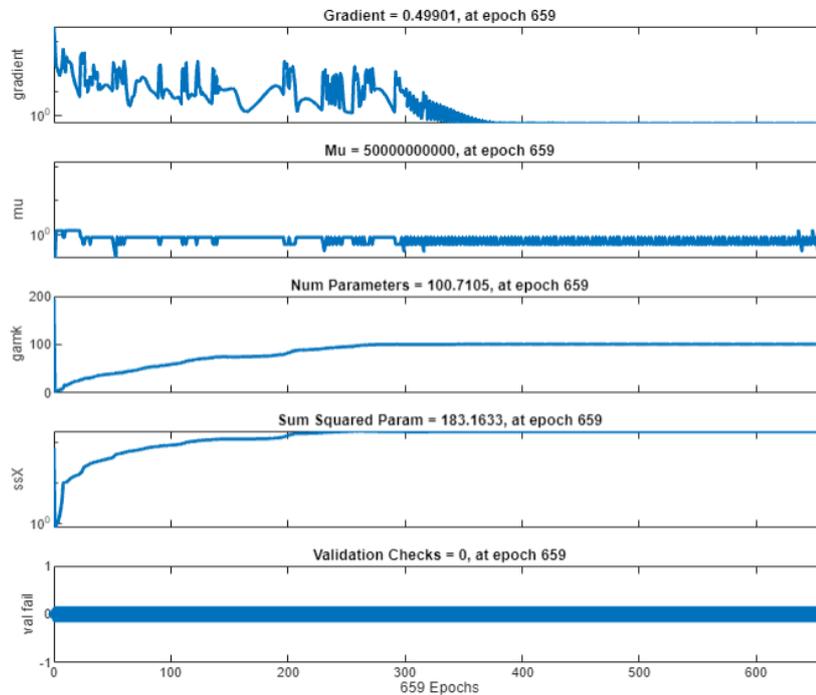


Figure 8. Training State of Outcomes

Following this, the data is ready for the neural network to be trained. To guarantee that the data is appropriate for training, this involved preprocessing procedures such as feature selection and scaling.

The study demonstrated that neural networks, when properly trained and validated, could effectively predict the compressive strength of GPC based on the given independent variables. The use of MATLAB provided a platform for the development, training, and assessment of these neural network models, contributing to the advancement of predictive analytics in concrete technology.

4. Conclusions

In this study, GPC and CC specimens were made by applying varying proportions of fly ash, OPC, and GGBFS. NaOH (14 Molarity) and $\text{Na}_2\text{Si}_2\text{O}_3$ were the alkaline solutions employed. The samples were cured for 28 days at room temperature before tests were performed to determine their compressive strength and water absorption. The data was analyzed, and the following conclusions were made.

Increasing GGBFS enhanced the strength and prolonged the binding time at room temperature. The binding period was almost three days for GPC1, GPC2, GPC3, and GPC4, but only twenty-four hours for GPC5-GPC6 and CC1-CC2. When designing a GPC mix, determining the mass percentage of water to geopolymer solids is crucial; adding too much water will weaken the concrete.

GPC proves to have better workability when properly mixed with OPC. In conclusion, GPC Mix is more effective as an additive to Ordinary Concrete Mix. Not only are GCMs more eco-friendly, but they are also less expensive than OPCs. Incorporating this study will indeed promote sustainable construction and improve the construction industry's resourcefulness.

Moreover, ANNs have been proven effective in assessing and predicting the compressive strength of concrete. Based on our analysis, the Mean Squared Error (MSE) varies from approximately 5 to approximately 33, which indicates a gap. However, other performance metrics suggest that the model is in a good state, and the high R-value justifies the selection of these results. To further

enhance the model's accuracy and reduce errors, the researchers recommend conducting additional training. Given the data set contains over a thousand samples, more extensive training can help minimize errors. Future studies should pay close attention to the values throughout the training process to ensure consistent and reliable performance. ANN models help evaluate and forecast concrete strength based on various input parameters since the models can capture complex links and nonlinear patterns in the data.

Supplementary Materials: Not applicable

Author Contributions: Conceptualization, H.B.D.L.; Methodology, H.B.D.L., I.R.P.C., and L.G.C.Q.; Validation, C.J.L.M.; Formal analysis, H.B.D.L., and L.G.C.Q.; Investigation, H.B.D.L., and I.R.P.C.; Data curation, H.B.D.L., and L.G.C.Q.; Writing—original draft, H.B.D.L., and I.R.P.C.; Visualization, H.B.D.L., and I.R.P.C.; Supervision, C.J.L.M.; Project administration, H.B.D.L. All authors have read and agreed to the published version of the manuscript.

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Conflicts of Interest: The authors declare no conflicts of interest.

Appendix. Overall Input and Output Data Used in Neural Network Modelling

This section contains 16 data samples from the actual experiment and 1047 data samples referencing from the study of [18–22], arranged from independent variables (Fly Ash, Sand, Gravel, GGBFS, Portland Cement, Superplasticizers, Water, and Sodium Silicate) to dependent variable (Compressive Strength).

Sample Name	Fly Ash (kg/m ³)	Sand (kg/m ³)	Gravel (kg/m ³)	GGBF S (kg/m ³)	Portlan d Cement (kg/m ³)	Superplasticize rs ((kg/m ³))	Sodium Hydroxid e (kg/m ³)	Water (kg/m ³)	Sodiu m Silicat e (kg/m ³)	Compressiv e Strength (mPa)
GPC1	3013.68	3671.50	6002.50	744.56	0.00	37.12	264.00	287.00	1793.25	0.91
GPC2	3013.68	3671.50	6002.50	744.56	0.00	37.12	264.00	287.00	1793.25	0.71
GPC3	2659.13	2900.00	9003.75	1595.48	0.00	39.77	96.50	284.00	3945.00	5.35
GPC4	2659.13	2900.00	9003.75	1595.48	0.00	39.77	96.50	284.00	3945.00	2.69
GPC5	2785.50	4350.00	6780.75	835.65	2708.25	0.00	0.00	200.00	0.00	24.09
GPC6	2785.50	4350.00	6780.75	835.65	2708.25	0.00	0.00	200.00	0.00	30.94
CC1	0.00	4350.00	6780.75	0.00	2708.25	0.00	0.00	150.00	0.00	18.10
CC2	0.00	4350.00	6780.75	0.00	2708.25	0.00	0.00	150.00	0.00	17.54
GPC7	1063.65	3500.00	6002.50	319.10	1950.03	31.82	176.00	287.00	1195.50	7.98
GPC8	709.10	4944.00	6927.50	354.55	472.73	0.00	223.50	0.00	1372.50	21.91
GPC9	709.10	4944.00	6927.50	354.55	472.73	0.00	223.50	0.00	1372.50	14.79
GPC10	493.50	4339.00	7357.50	364.50	728.50	0.00	148.00	564.35	986.40	13.48
GPC11	493.50	4339.00	7357.50	364.50	728.50	0.00	148.00	564.35	986.40	14.83
GPC12	586.00	5013.00	7961.50	381.00	594.50	0.00	176.50	106.23	1233.00	16.39
GPC13	827.50	4000.00	6090.50	354.55	352.00	0.00	58.42	0.00	1541.58	7.24

GPC	827.50	4000.00	6090.50	354.55	352.00	0.00	58.42	0.00	1541.58	5.42
14										
CC	0.00	670.00	1160.00	0.00	380.00	15.00	0.00	171.00	0.00	36.23
GPC1	323.00	670.00	1160.00	19.00	0.00	15.00	57.00	0.00	114.00	30.21
GPC2	304.00	670.00	1160.00	38.00	0.00	15.00	57.00	0.00	114.00	33.80
GPC3	285.00	670.00	1160.00	57.00	0.00	15.00	57.00	0.00	114.00	38.70
GPC4	266.00	670.00	1160.00	76.00	0.00	15.00	57.00	0.00	114.00	40.23
Mix1	450.00	600.00	1200.00	0.00	0.00	9.00	80.00	0.00	120.00	30 mpa
Miz2	410.00	521.80	1142.70	0.00	0.00	8.20	110.00	2.30	120.00	25 mpa
Mix1	428.00	630.00	1170.00	0.00	0.00	8.50	49.00	43.00	122.00	30.00
Mix 2	444.00	630.00	1170.00	0.00	0.00	9.00	44.00	43.00	111.00	30.00
Mix3	428.00	630.00	1170.00	0.00	0.00	8.50	57.00	43.00	114.00	40.00
Mix4A	428.00	630.00	1170.00	0.00	0.00	8.50	49.00	43.00	122.00	28.00
Mix 4B	428.00	630.00	1170.00	0.00	0.00	8.50	49.00	43.00	122.00	32.00
Mix	428.00	630.00	1170.00	0.00	0.00	8.50	49.00	43.00	122.00	32.00
5A										
Mix 5B	428.00	630.00	1170.00	0.00	0.00	13.00	49.00	43.00	122.00	30.00
Mix 5C	428.00	630.00	1170.00	0.00	0.00	17.00	49.00	43.00	122.00	29.00
Mix	428.00	630.00	1170.00	0.00	0.00	8.50	49.00	43.00	122.00	36.00
6A										
Mix 6B	428.00	630.00	1170.00	0.00	0.00	8.50	49.00	43.00	122.00	45.00
1	0.00	676.00	1040.00	0.00	540.00	2.50	0.00	162.00	0.00	79.99
2	0.00	676.00	1055.00	0.00	540.00	2.50	0.00	162.00	0.00	61.89
3	0.00	594.00	932.00	142.50	332.50	0.00	0.00	228.00	0.00	40.27
4	0.00	594.00	932.00	142.50	332.50	0.00	0.00	228.00	0.00	41.05
5	0.00	825.50	978.40	132.40	198.60	0.00	0.00	192.00	0.00	44.30
6	0.00	670.00	932.00	114.00	266.00	0.00	0.00	228.00	0.00	47.03
7	0.00	594.00	932.00	95.00	380.00	0.00	0.00	228.00	0.00	43.70
8	0.00	594.00	932.00	95.00	380.00	0.00	0.00	228.00	0.00	36.45
9	0.00	670.00	932.00	114.00	266.00	0.00	0.00	228.00	0.00	45.85
10	0.00	594.00	932.00	0.00	475.00	0.00	0.00	228.00	0.00	39.29
11	0.00	825.50	978.40	132.40	198.60	0.00	0.00	192.00	0.00	38.07
12	0.00	825.50	978.40	132.40	198.60	0.00	0.00	192.00	0.00	28.02
13	0.00	594.00	932.00	47.50	427.50	0.00	0.00	228.00	0.00	43.01
14	0.00	670.00	932.00	190.00	190.00	0.00	0.00	228.00	0.00	42.33
15	0.00	670.00	932.00	76.00	304.00	0.00	0.00	228.00	0.00	47.81
16	0.00	670.00	932.00	0.00	380.00	0.00	0.00	228.00	0.00	52.91
17	0.00	806.90	1047.00	209.40	139.60	0.00	0.00	192.00	0.00	39.36
18	0.00	670.00	932.00	38.00	342.00	0.00	0.00	228.00	0.00	56.14
19	0.00	594.00	932.00	95.00	380.00	0.00	0.00	228.00	0.00	40.56
20	0.00	594.00	932.00	0.00	475.00	0.00	0.00	228.00	0.00	42.62
21	0.00	594.00	932.00	47.50	427.50	0.00	0.00	228.00	0.00	41.84
22	0.00	806.90	1047.00	209.40	139.60	0.00	0.00	192.00	0.00	28.24
23	0.00	806.90	1047.00	209.40	139.60	0.00	0.00	192.00	0.00	8.06
24	0.00	806.90	1047.00	209.40	139.60	0.00	0.00	192.00	0.00	44.21
25	0.00	670.00	932.00	0.00	380.00	0.00	0.00	228.00	0.00	52.52
26	0.00	670.00	932.00	0.00	380.00	0.00	0.00	228.00	0.00	53.30
27	0.00	594.00	932.00	95.00	380.00	0.00	0.00	228.00	0.00	41.15
28	0.00	670.00	932.00	38.00	342.00	0.00	0.00	228.00	0.00	52.12
29	0.00	594.00	932.00	47.50	427.50	0.00	0.00	228.00	0.00	37.43
30	0.00	594.00	932.00	0.00	475.00	0.00	0.00	228.00	0.00	38.60
31	0.00	670.00	932.00	76.00	304.00	0.00	0.00	228.00	0.00	55.26

32	0.00	670.00	932.00	114.00	266.00	0.00	0.00	228.00	0.00	52.91
33	0.00	825.50	978.40	132.40	198.60	0.00	0.00	192.00	0.00	41.72
34	0.00	594.00	932.00	0.00	475.00	0.00	0.00	228.00	0.00	42.13
35	0.00	670.00	932.00	190.00	190.00	0.00	0.00	228.00	0.00	53.69
36	0.00	594.00	932.00	237.50	237.50	0.00	0.00	228.00	0.00	38.41
37	0.00	594.00	932.00	237.50	237.50	0.00	0.00	228.00	0.00	30.08
38	0.00	594.00	932.00	142.50	332.50	0.00	0.00	228.00	0.00	37.72
39	0.00	594.00	932.00	0.00	475.00	0.00	0.00	228.00	0.00	42.23
40	0.00	594.00	932.00	237.50	237.50	0.00	0.00	228.00	0.00	36.25
41	0.00	670.00	932.00	38.00	342.00	0.00	0.00	228.00	0.00	50.46
42	0.00	594.00	932.00	47.50	427.50	0.00	0.00	228.00	0.00	43.70
43	0.00	594.00	932.00	237.50	237.50	0.00	0.00	228.00	0.00	39.00
44	0.00	670.00	932.00	0.00	380.00	0.00	0.00	228.00	0.00	53.10
45	0.00	594.00	932.00	47.50	427.50	0.00	0.00	228.00	0.00	41.54
46	0.00	594.00	932.00	47.50	427.50	0.00	0.00	228.00	0.00	35.08
47	0.00	806.90	1047.00	0.00	349.00	0.00	0.00	192.00	0.00	15.05
48	0.00	594.00	932.00	95.00	380.00	0.00	0.00	228.00	0.00	40.76
49	0.00	594.00	932.00	237.50	237.50	0.00	0.00	228.00	0.00	26.26
50	0.00	594.00	932.00	95.00	380.00	0.00	0.00	228.00	0.00	32.82
51	0.00	594.00	932.00	142.50	332.50	0.00	0.00	228.00	0.00	39.78
52	0.00	670.00	932.00	190.00	190.00	0.00	0.00	228.00	0.00	46.93
53	0.00	594.00	932.00	237.50	237.50	0.00	0.00	228.00	0.00	33.12
54	0.00	670.00	932.00	76.00	304.00	0.00	0.00	228.00	0.00	49.19
55	0.00	806.90	1047.00	209.40	139.60	0.00	0.00	192.00	0.00	14.59
56	0.00	825.50	978.40	132.40	198.60	0.00	0.00	192.00	0.00	14.64
57	0.00	594.00	932.00	0.00	475.00	0.00	0.00	228.00	0.00	41.93
58	0.00	825.50	978.40	132.40	198.60	0.00	0.00	192.00	0.00	9.13
59	0.00	670.00	932.00	76.00	304.00	0.00	0.00	228.00	0.00	50.95
60	0.00	594.00	932.00	142.50	332.50	0.00	0.00	228.00	0.00	33.02
61	0.00	670.00	932.00	76.00	304.00	0.00	0.00	228.00	0.00	54.38
62	0.00	670.00	932.00	114.00	266.00	0.00	0.00	228.00	0.00	51.73
63	0.00	850.60	971.00	0.00	310.00	0.00	0.00	192.00	0.00	9.87
64	0.00	670.00	932.00	190.00	190.00	0.00	0.00	228.00	0.00	50.66
65	0.00	670.00	932.00	114.00	266.00	0.00	0.00	228.00	0.00	48.70
66	0.00	670.00	932.00	38.00	342.00	0.00	0.00	228.00	0.00	55.06
67	0.00	806.90	1047.00	209.40	139.60	0.00	0.00	192.00	0.00	44.70
68	0.00	594.00	932.00	142.50	332.50	0.00	0.00	228.00	0.00	30.28
69	0.00	670.00	932.00	190.00	190.00	0.00	0.00	228.00	0.00	40.86
70	0.00	800.00	1120.00	0.00	485.00	0.00	0.00	146.00	0.00	71.99
71	0.00	756.70	926.10	189.20	374.00	10.10	0.00	170.10	0.00	34.40
72	0.00	611.80	1046.90	262.20	313.30	8.60	0.00	175.50	0.00	28.80
73	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	33.40
74	0.00	803.70	936.00	106.30	425.00	18.60	0.00	151.40	0.00	36.30
75	0.00	992.60	852.10	93.80	375.00	23.40	0.00	126.60	0.00	29.00
76	0.00	781.50	852.10	118.80	475.00	8.90	0.00	181.10	0.00	37.80
77	0.00	840.50	852.10	117.20	469.00	32.20	0.00	137.80	0.00	40.20
78	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	33.40
79	0.00	925.70	852.10	97.10	388.60	12.10	0.00	157.90	0.00	28.10
80	0.00	893.70	852.10	0.00	531.30	28.20	0.00	141.80	0.00	41.30
81	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	33.40
82	0.00	880.40	852.10	212.50	318.80	14.30	0.00	155.70	0.00	25.20
83	0.00	852.10	946.80	94.70	401.80	11.40	0.00	147.40	0.00	41.10

84	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	35.30
85	0.00	659.90	942.70	282.80	323.70	10.30	0.00	183.80	0.00	28.30
86	0.00	605.00	1134.30	151.20	379.50	15.90	0.00	153.90	0.00	28.60
87	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	35.30
88	0.00	803.70	1004.60	200.90	286.30	11.20	0.00	144.70	0.00	24.40
89	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	35.30
90	0.00	707.90	884.90	177.00	439.00	11.10	0.00	186.00	0.00	39.30
91	0.00	755.80	944.70	189.00	389.90	22.00	0.00	145.90	0.00	40.60
92	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	35.30
93	0.00	755.80	944.70	189.00	337.90	9.50	0.00	174.90	0.00	24.10
94	0.00	756.70	926.10	189.20	374.00	10.10	0.00	170.10	0.00	46.20
95	0.00	611.80	1046.90	262.20	313.30	8.60	0.00	175.50	0.00	42.80
96	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	49.20
97	0.00	803.70	936.00	106.30	425.00	18.60	0.00	151.40	0.00	46.80
98	0.00	992.60	852.10	93.80	375.00	23.40	0.00	126.60	0.00	45.70
99	0.00	781.50	852.10	118.80	475.00	8.90	0.00	181.10	0.00	55.60
100	0.00	840.50	852.10	117.20	469.00	32.20	0.00	137.80	0.00	54.90
101	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	49.20
102	0.00	925.70	852.10	97.10	388.60	12.10	0.00	157.90	0.00	34.90
103	0.00	893.70	852.10	0.00	531.30	28.20	0.00	141.80	0.00	46.90
104	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	49.20
105	0.00	880.40	852.10	212.50	318.80	14.30	0.00	155.70	0.00	33.40
106	0.00	852.10	946.80	94.70	401.80	11.40	0.00	147.40	0.00	54.10
107	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	55.90
108	0.00	659.90	942.70	282.80	323.70	10.30	0.00	183.80	0.00	49.80
109	0.00	605.00	1134.30	151.20	379.50	15.90	0.00	153.90	0.00	47.10
110	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	55.90
111	0.00	803.70	1004.60	200.90	286.30	11.20	0.00	144.70	0.00	38.00
112	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	55.90
113	0.00	707.90	884.90	177.00	439.00	11.10	0.00	186.00	0.00	56.10
114	0.00	755.80	944.70	189.00	389.90	22.00	0.00	145.90	0.00	59.09
115	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	22.90
116	0.00	755.80	944.70	189.00	337.90	9.50	0.00	174.90	0.00	35.10
117	0.00	756.70	926.10	189.20	374.00	10.10	0.00	170.10	0.00	61.09
118	0.00	611.80	1046.90	262.20	313.30	8.60	0.00	175.50	0.00	59.80
119	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	60.29
120	0.00	803.70	936.00	106.30	425.00	18.60	0.00	151.40	0.00	61.80
121	0.00	992.60	852.10	93.80	375.00	23.40	0.00	126.60	0.00	56.70
122	0.00	781.50	852.10	118.80	475.00	8.90	0.00	181.10	0.00	68.30
123	0.00	840.50	852.10	117.20	469.00	32.20	0.00	137.80	0.00	66.90
124	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	60.29
125	0.00	925.70	852.10	97.10	388.60	12.10	0.00	157.90	0.00	50.70
126	0.00	893.70	852.10	0.00	531.30	28.20	0.00	141.80	0.00	56.40
127	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	60.29
128	0.00	880.40	852.10	212.50	318.80	14.30	0.00	155.70	0.00	55.50
129	0.00	852.10	946.80	94.70	401.80	11.40	0.00	147.40	0.00	68.50
130	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	71.30
131	0.00	659.90	942.70	282.80	323.70	10.30	0.00	183.80	0.00	74.70
132	0.00	605.00	1134.30	151.20	379.50	15.90	0.00	153.90	0.00	52.20
133	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	71.30
134	0.00	803.70	1004.60	200.90	286.30	11.20	0.00	144.70	0.00	67.70
135	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	71.30

136	0.00	707.90	884.90	177.00	439.00	11.10	0.00	186.00	0.00	66.00
137	0.00	755.80	944.70	189.00	389.90	22.00	0.00	145.90	0.00	74.50
138	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	71.30
139	0.00	755.80	944.70	189.00	337.90	9.50	0.00	174.90	0.00	49.90
140	0.00	756.70	926.10	189.20	374.00	10.10	0.00	170.10	0.00	63.40
141	0.00	611.80	1046.90	262.20	313.30	8.60	0.00	175.50	0.00	64.90
142	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	64.30
143	0.00	803.70	936.00	106.30	425.00	18.60	0.00	151.40	0.00	64.90
144	0.00	992.60	852.10	93.80	375.00	23.40	0.00	126.60	0.00	60.20
145	0.00	781.50	852.10	118.80	475.00	8.90	0.00	181.10	0.00	72.30
146	0.00	840.50	852.10	117.20	469.00	32.20	0.00	137.80	0.00	69.30
147	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	64.30
148	0.00	925.70	852.10	97.10	388.60	12.10	0.00	157.90	0.00	55.20
149	0.00	893.70	852.10	0.00	531.30	28.20	0.00	141.80	0.00	58.80
150	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	64.30
151	0.00	880.40	852.10	212.50	318.80	14.30	0.00	155.70	0.00	66.10
152	0.00	852.10	946.80	94.70	401.80	11.40	0.00	147.40	0.00	73.70
153	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	77.30
154	0.00	659.90	942.70	282.80	323.70	10.30	0.00	183.80	0.00	80.20
155	0.00	605.00	1134.30	151.20	379.50	15.90	0.00	153.90	0.00	54.90
156	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	77.30
157	0.00	803.70	1004.60	200.90	286.30	11.20	0.00	144.70	0.00	72.99
158	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	77.30
159	0.00	707.90	884.90	177.00	439.00	11.10	0.00	186.00	0.00	71.70
160	0.00	755.80	944.70	189.00	389.90	22.00	0.00	145.90	0.00	79.40
161	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	77.30
162	0.00	755.80	944.70	189.00	337.90	9.50	0.00	174.90	0.00	59.89
163	0.00	756.70	926.10	189.20	374.00	10.10	0.00	170.10	0.00	64.90
164	0.00	611.80	1046.90	262.20	313.30	8.60	0.00	175.50	0.00	66.60
165	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	65.20
166	0.00	803.70	936.00	106.30	425.00	18.60	0.00	151.40	0.00	66.70
167	0.00	992.60	852.10	93.80	375.00	23.40	0.00	126.60	0.00	62.50
168	0.00	781.50	852.10	118.80	475.00	8.90	0.00	181.10	0.00	74.19
169	0.00	840.50	852.10	117.20	469.00	32.20	0.00	137.80	0.00	70.70
170	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	65.20
171	0.00	925.70	852.10	97.10	388.60	12.10	0.00	157.90	0.00	57.60
172	0.00	893.70	852.10	0.00	531.30	28.20	0.00	141.80	0.00	59.20
173	0.00	887.10	852.10	106.30	425.00	16.50	0.00	153.50	0.00	65.20
174	0.00	880.40	852.10	212.50	318.80	14.30	0.00	155.70	0.00	68.10
175	0.00	852.10	946.80	94.70	401.80	11.40	0.00	147.40	0.00	75.50
176	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	79.30
177	0.00	605.00	1134.30	151.20	379.50	15.90	0.00	153.90	0.00	56.50
178	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	79.30
179	0.00	803.70	1004.60	200.90	286.30	11.20	0.00	144.70	0.00	76.80
180	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	79.30
181	0.00	707.90	884.90	177.00	439.00	11.10	0.00	186.00	0.00	73.30
182	0.00	755.80	944.70	189.00	389.90	22.00	0.00	145.90	0.00	82.60
183	0.00	755.80	944.70	189.00	362.60	11.60	0.00	164.90	0.00	79.30
184	0.00	755.80	944.70	189.00	337.90	9.50	0.00	174.90	0.00	67.80
185	96.70	870.30	967.10	0.00	222.40	4.50	0.00	189.30	0.00	11.58
186	96.70	870.30	967.10	0.00	222.40	4.50	0.00	189.30	0.00	24.45
187	96.70	870.30	967.10	0.00	222.40	4.50	0.00	189.30	0.00	24.89

188	96.70	870.30	967.10	0.00	222.40	4.50	0.00	189.30	0.00	29.45
189	96.70	870.30	967.10	0.00	222.40	4.50	0.00	189.30	0.00	40.71
190	94.60	852.20	947.00	0.00	233.80	4.60	0.00	197.90	0.00	10.38
191	94.60	852.20	947.00	0.00	233.80	4.60	0.00	197.90	0.00	22.14
192	94.60	852.20	947.00	0.00	233.80	4.60	0.00	197.90	0.00	22.84
193	94.60	852.20	947.00	0.00	233.80	4.60	0.00	197.90	0.00	27.66
194	94.60	852.20	947.00	0.00	233.80	4.60	0.00	197.90	0.00	34.56
195	100.50	905.90	1006.40	0.00	194.70	7.50	0.00	165.60	0.00	12.45
196	100.50	905.90	1006.40	0.00	194.70	7.50	0.00	165.60	0.00	24.99
197	100.50	905.90	1006.40	0.00	194.70	7.50	0.00	165.60	0.00	25.72
198	100.50	905.90	1006.40	0.00	194.70	7.50	0.00	165.60	0.00	33.96
199	100.50	905.90	1006.40	0.00	194.70	7.50	0.00	165.60	0.00	37.34
200	125.40	804.00	1090.00	0.00	190.70	7.80	0.00	162.10	0.00	15.04
201	125.40	804.00	1090.00	0.00	190.70	7.80	0.00	162.10	0.00	21.06
202	125.40	804.00	1090.00	0.00	190.70	7.80	0.00	162.10	0.00	26.40
203	125.40	804.00	1090.00	0.00	190.70	7.80	0.00	162.10	0.00	35.34
204	125.40	804.00	1090.00	0.00	190.70	7.80	0.00	162.10	0.00	40.57
205	121.60	779.30	1057.60	0.00	212.10	5.70	0.00	180.30	0.00	12.47
206	121.60	779.30	1057.60	0.00	212.10	5.70	0.00	180.30	0.00	20.92
207	121.60	779.30	1057.60	0.00	212.10	5.70	0.00	180.30	0.00	24.90
208	121.60	779.30	1057.60	0.00	212.10	5.70	0.00	180.30	0.00	34.20
209	121.60	779.30	1057.60	0.00	212.10	5.70	0.00	180.30	0.00	39.61
210	118.30	758.60	1029.40	0.00	230.00	4.60	0.00	195.50	0.00	10.03
211	118.30	758.60	1029.40	0.00	230.00	4.60	0.00	195.50	0.00	20.08
212	118.30	758.60	1029.40	0.00	230.00	4.60	0.00	195.50	0.00	24.48
213	118.30	758.60	1029.40	0.00	230.00	4.60	0.00	195.50	0.00	31.54
214	118.30	758.60	1029.40	0.00	230.00	4.60	0.00	195.50	0.00	35.34
215	125.20	802.60	1088.10	0.00	190.30	9.90	0.00	161.90	0.00	9.45
216	125.20	802.60	1088.10	0.00	190.30	9.90	0.00	161.90	0.00	22.72
217	125.20	802.60	1088.10	0.00	190.30	9.90	0.00	161.90	0.00	28.47
218	125.20	802.60	1088.10	0.00	190.30	9.90	0.00	161.90	0.00	38.56
219	125.20	802.60	1088.10	0.00	190.30	9.90	0.00	161.90	0.00	40.39
220	163.30	780.10	1058.60	0.00	166.10	4.50	0.00	176.50	0.00	10.76
221	163.30	780.10	1058.60	0.00	166.10	4.50	0.00	176.50	0.00	25.48
222	163.30	780.10	1058.60	0.00	166.10	4.50	0.00	176.50	0.00	21.54
223	163.30	780.10	1058.60	0.00	166.10	4.50	0.00	176.50	0.00	28.63
224	163.30	780.10	1058.60	0.00	166.10	4.50	0.00	176.50	0.00	33.54
225	163.80	780.10	1058.70	42.10	168.00	5.70	0.00	121.80	0.00	7.75
226	163.80	780.10	1058.70	42.10	168.00	5.70	0.00	121.80	0.00	17.82
227	163.80	780.10	1058.70	42.10	168.00	5.70	0.00	121.80	0.00	24.24
228	163.80	780.10	1058.70	42.10	168.00	5.70	0.00	121.80	0.00	32.85
229	163.80	780.10	1058.70	42.10	168.00	5.70	0.00	121.80	0.00	39.23
230	24.50	785.40	1065.80	98.10	213.70	6.90	0.00	181.70	0.00	18.00
231	24.50	785.40	1065.80	98.10	213.70	6.90	0.00	181.70	0.00	30.39
232	24.50	785.40	1065.80	98.10	213.70	6.90	0.00	181.70	0.00	45.71
233	24.50	785.40	1065.80	98.10	213.70	6.90	0.00	181.70	0.00	50.77
234	24.50	785.40	1065.80	98.10	213.70	6.90	0.00	181.70	0.00	53.90
235	24.50	785.50	1066.00	98.10	213.80	6.70	0.00	181.70	0.00	13.18
236	24.50	785.50	1066.00	98.10	213.80	6.70	0.00	181.70	0.00	17.84
237	24.50	785.50	1066.00	98.10	213.80	6.70	0.00	181.70	0.00	40.23
238	24.50	785.50	1066.00	98.10	213.80	6.70	0.00	181.70	0.00	47.13
239	24.50	785.50	1066.00	98.10	213.80	6.70	0.00	181.70	0.00	49.97

240	118.20	757.60	1028.10	0.00	229.70	6.10	0.00	195.20	0.00	13.36
241	118.20	757.60	1028.10	0.00	229.70	6.10	0.00	195.20	0.00	22.32
242	118.20	757.60	1028.10	0.00	229.70	6.10	0.00	195.20	0.00	24.54
243	118.20	757.60	1028.10	0.00	229.70	6.10	0.00	195.20	0.00	31.35
244	118.20	757.60	1028.10	0.00	229.70	6.10	0.00	195.20	0.00	40.86
245	94.10	847.00	949.90	0.00	238.10	7.00	0.00	186.70	0.00	19.93
246	94.10	847.00	949.90	0.00	238.10	7.00	0.00	186.70	0.00	25.69
247	94.10	847.00	949.90	0.00	238.10	7.00	0.00	186.70	0.00	30.23
248	94.10	847.00	949.90	0.00	238.10	7.00	0.00	186.70	0.00	39.59
249	94.10	847.00	949.90	0.00	238.10	7.00	0.00	186.70	0.00	44.30
250	95.70	861.20	956.90	0.00	250.00	5.50	0.00	187.40	0.00	13.82
251	95.70	861.20	956.90	0.00	250.00	5.50	0.00	187.40	0.00	24.92
252	95.70	861.20	956.90	0.00	250.00	5.50	0.00	187.40	0.00	29.22
253	95.70	861.20	956.90	0.00	250.00	5.50	0.00	187.40	0.00	38.33
254	95.70	861.20	956.90	0.00	250.00	5.50	0.00	187.40	0.00	42.35
255	100.40	903.60	1007.80	0.00	212.50	8.70	0.00	159.30	0.00	13.54
256	100.40	903.60	1007.80	0.00	212.50	8.70	0.00	159.30	0.00	26.31
257	100.40	903.60	1007.80	0.00	212.50	8.70	0.00	159.30	0.00	31.64
258	100.40	903.60	1007.80	0.00	212.50	8.70	0.00	159.30	0.00	42.55
259	100.40	903.60	1007.80	0.00	212.50	8.70	0.00	159.30	0.00	42.92
260	100.40	903.80	1003.80	0.00	212.60	10.40	0.00	159.40	0.00	13.33
261	100.40	903.80	1003.80	0.00	212.60	10.40	0.00	159.40	0.00	25.37
262	100.40	903.80	1003.80	0.00	212.60	10.40	0.00	159.40	0.00	37.40
263	100.40	903.80	1003.80	0.00	212.60	10.40	0.00	159.40	0.00	44.40
264	100.40	903.80	1003.80	0.00	212.60	10.40	0.00	159.40	0.00	47.74
265	124.80	799.50	1085.40	0.00	212.00	7.80	0.00	159.00	0.00	19.52
266	124.80	799.50	1085.40	0.00	212.00	7.80	0.00	159.00	0.00	31.35
267	124.80	799.50	1085.40	0.00	212.00	7.80	0.00	159.00	0.00	38.50
268	124.80	799.50	1085.40	0.00	212.00	7.80	0.00	159.00	0.00	45.08
269	124.80	799.50	1085.40	0.00	212.00	7.80	0.00	159.00	0.00	47.82
270	121.60	778.50	1056.40	0.00	231.80	6.70	0.00	174.00	0.00	15.44
271	121.60	778.50	1056.40	0.00	231.80	6.70	0.00	174.00	0.00	26.77
272	121.60	778.50	1056.40	0.00	231.80	6.70	0.00	174.00	0.00	33.73
273	121.60	778.50	1056.40	0.00	231.80	6.70	0.00	174.00	0.00	42.70
274	121.60	778.50	1056.40	0.00	231.80	6.70	0.00	174.00	0.00	45.84
275	118.30	757.70	1028.40	0.00	251.40	5.80	0.00	188.50	0.00	17.22
276	118.30	757.70	1028.40	0.00	251.40	5.80	0.00	188.50	0.00	29.93
277	118.30	757.70	1028.40	0.00	251.40	5.80	0.00	188.50	0.00	29.65
278	118.30	757.70	1028.40	0.00	251.40	5.80	0.00	188.50	0.00	36.97
279	118.30	757.70	1028.40	0.00	251.40	5.80	0.00	188.50	0.00	43.58
280	118.30	757.70	1028.40	0.00	251.40	6.40	0.00	188.50	0.00	13.12
281	118.30	757.70	1028.40	0.00	251.40	6.40	0.00	188.50	0.00	24.43
282	118.30	757.70	1028.40	0.00	251.40	6.40	0.00	188.50	0.00	32.66
283	118.30	757.70	1028.40	0.00	251.40	6.40	0.00	188.50	0.00	36.64
284	118.30	757.70	1028.40	0.00	251.40	6.40	0.00	188.50	0.00	44.21
285	167.00	777.80	1055.60	0.00	181.40	7.60	0.00	169.60	0.00	13.62
286	167.00	777.80	1055.60	0.00	181.40	7.60	0.00	169.60	0.00	21.60
287	167.00	777.80	1055.60	0.00	181.40	7.60	0.00	169.60	0.00	27.77
288	167.00	777.80	1055.60	0.00	181.40	7.60	0.00	169.60	0.00	35.57
289	167.00	777.80	1055.60	0.00	181.40	7.60	0.00	169.60	0.00	45.37
290	122.00	780.70	1059.40	45.20	182.00	8.20	0.00	170.20	0.00	7.32
291	122.00	780.70	1059.40	45.20	182.00	8.20	0.00	170.20	0.00	21.50

292	122.00	780.70	1059.40	45.20	182.00	8.20	0.00	170.20	0.00	31.27
293	122.00	780.70	1059.40	45.20	182.00	8.20	0.00	170.20	0.00	43.50
294	122.00	780.70	1059.40	45.20	182.00	8.20	0.00	170.20	0.00	48.67
295	124.30	796.20	1080.80	42.20	168.90	10.80	0.00	158.30	0.00	7.40
296	124.30	796.20	1080.80	42.20	168.90	10.80	0.00	158.30	0.00	23.51
297	124.30	796.20	1080.80	42.20	168.90	10.80	0.00	158.30	0.00	31.12
298	124.30	796.20	1080.80	42.20	168.90	10.80	0.00	158.30	0.00	39.15
299	124.30	796.20	1080.80	42.20	168.90	10.80	0.00	158.30	0.00	48.15
300	96.20	865.00	961.20	0.00	290.40	9.40	0.00	168.10	0.00	22.50
301	96.20	865.00	961.20	0.00	290.40	9.40	0.00	168.10	0.00	34.67
302	96.20	865.00	961.20	0.00	290.40	9.40	0.00	168.10	0.00	34.74
303	96.20	865.00	961.20	0.00	290.40	9.40	0.00	168.10	0.00	45.08
304	96.20	865.00	961.20	0.00	290.40	9.40	0.00	168.10	0.00	48.97
305	97.40	875.60	973.90	0.00	277.10	11.80	0.00	160.60	0.00	23.14
306	97.40	875.60	973.90	0.00	277.10	11.80	0.00	160.60	0.00	41.89
307	97.40	875.60	973.90	0.00	277.10	11.80	0.00	160.60	0.00	48.28
308	97.40	875.60	973.90	0.00	277.10	11.80	0.00	160.60	0.00	51.04
309	97.40	875.60	973.90	0.00	277.10	11.80	0.00	160.60	0.00	55.64
310	95.60	859.20	955.10	0.00	295.70	8.90	0.00	171.50	0.00	22.95
311	95.60	859.20	955.10	0.00	295.70	8.90	0.00	171.50	0.00	35.23
312	95.60	859.20	955.10	0.00	295.70	8.90	0.00	171.50	0.00	39.94
313	95.60	859.20	955.10	0.00	295.70	8.90	0.00	171.50	0.00	48.72
314	95.60	859.20	955.10	0.00	295.70	8.90	0.00	171.50	0.00	52.04
315	99.90	899.80	1006.00	0.00	251.80	12.40	0.00	146.10	0.00	21.02
316	99.90	899.80	1006.00	0.00	251.80	12.40	0.00	146.10	0.00	33.36
317	99.90	899.80	1006.00	0.00	251.80	12.40	0.00	146.10	0.00	33.94
318	99.90	899.80	1006.00	0.00	251.80	12.40	0.00	146.10	0.00	44.14
319	99.90	899.80	1006.00	0.00	251.80	12.40	0.00	146.10	0.00	45.37
320	98.80	889.00	987.80	0.00	249.10	12.80	0.00	158.10	0.00	15.36
321	98.80	889.00	987.80	0.00	249.10	12.80	0.00	158.10	0.00	28.68
322	98.80	889.00	987.80	0.00	249.10	12.80	0.00	158.10	0.00	30.85
323	98.80	889.00	987.80	0.00	249.10	12.80	0.00	158.10	0.00	42.03
324	98.80	889.00	987.80	0.00	249.10	12.80	0.00	158.10	0.00	51.06
325	98.80	889.00	987.80	0.00	252.30	14.20	0.00	146.30	0.00	21.78
326	98.80	889.00	987.80	0.00	252.30	14.20	0.00	146.30	0.00	42.29
327	98.80	889.00	987.80	0.00	252.30	14.20	0.00	146.30	0.00	50.60
328	98.80	889.00	987.80	0.00	252.30	14.20	0.00	146.30	0.00	55.83
329	98.80	889.00	987.80	0.00	252.30	14.20	0.00	146.30	0.00	60.95
330	125.10	800.90	1086.80	0.00	246.80	12.00	0.00	143.30	0.00	23.52
331	125.10	800.90	1086.80	0.00	246.80	12.00	0.00	143.30	0.00	42.22
332	125.10	800.90	1086.80	0.00	246.80	12.00	0.00	143.30	0.00	52.50
333	125.10	800.90	1086.80	0.00	246.80	12.00	0.00	143.30	0.00	60.32
334	125.10	800.90	1086.80	0.00	246.80	12.00	0.00	143.30	0.00	66.42
335	121.40	777.50	1053.60	0.00	275.10	9.90	0.00	159.50	0.00	23.80
336	121.40	777.50	1053.60	0.00	275.10	9.90	0.00	159.50	0.00	38.77
337	121.40	777.50	1053.60	0.00	275.10	9.90	0.00	159.50	0.00	51.33
338	121.40	777.50	1053.60	0.00	275.10	9.90	0.00	159.50	0.00	56.85
339	121.40	777.50	1053.60	0.00	275.10	9.90	0.00	159.50	0.00	58.61
340	117.50	753.50	1022.80	0.00	297.20	9.50	0.00	174.80	0.00	21.91
341	117.50	753.50	1022.80	0.00	297.20	9.50	0.00	174.80	0.00	36.99
342	117.50	753.50	1022.80	0.00	297.20	9.50	0.00	174.80	0.00	47.40
343	117.50	753.50	1022.80	0.00	297.20	9.50	0.00	174.80	0.00	51.96

344	117.50	753.50	1022.80	0.00	297.20	9.50	0.00	174.80	0.00	56.74
345	174.70	776.40	1053.50	0.00	213.70	10.20	0.00	154.80	0.00	17.57
346	174.70	776.40	1053.50	0.00	213.70	10.20	0.00	154.80	0.00	33.73
347	174.70	776.40	1053.50	0.00	213.70	10.20	0.00	154.80	0.00	40.15
348	174.70	776.40	1053.50	0.00	213.70	10.20	0.00	154.80	0.00	46.64
349	174.70	776.40	1053.50	0.00	213.70	10.20	0.00	154.80	0.00	50.08
350	174.20	775.50	1052.30	0.00	213.50	11.70	0.00	154.60	0.00	17.37
351	174.20	775.50	1052.30	0.00	213.50	11.70	0.00	154.60	0.00	33.70
352	174.20	775.50	1052.30	0.00	213.50	11.70	0.00	154.60	0.00	45.94
353	174.20	775.50	1052.30	0.00	213.50	11.70	0.00	154.60	0.00	51.43
354	174.20	775.50	1052.30	0.00	213.50	11.70	0.00	154.60	0.00	59.30
355	24.50	782.50	1061.70	97.80	277.20	11.20	0.00	160.70	0.00	30.45
356	24.50	782.50	1061.70	97.80	277.20	11.20	0.00	160.70	0.00	47.71
357	24.50	782.50	1061.70	97.80	277.20	11.20	0.00	160.70	0.00	63.14
358	24.50	782.50	1061.70	97.80	277.20	11.20	0.00	160.70	0.00	66.82
359	24.50	782.50	1061.70	97.80	277.20	11.20	0.00	160.70	0.00	66.95
360	123.80	792.70	1075.70	54.60	218.20	11.90	0.00	140.80	0.00	27.42
361	123.80	792.70	1075.70	54.60	218.20	11.90	0.00	140.80	0.00	35.96
362	123.80	792.70	1075.70	54.60	218.20	11.90	0.00	140.80	0.00	55.51
363	123.80	792.70	1075.70	54.60	218.20	11.90	0.00	140.80	0.00	61.99
364	123.80	792.70	1075.70	54.60	218.20	11.90	0.00	140.80	0.00	63.53
365	121.90	780.60	1014.30	53.80	214.90	9.60	0.00	155.60	0.00	18.02
366	121.90	780.60	1014.30	53.80	214.90	9.60	0.00	155.60	0.00	38.60
367	121.90	780.60	1014.30	53.80	214.90	9.60	0.00	155.60	0.00	52.20
368	121.90	780.60	1014.30	53.80	214.90	9.60	0.00	155.60	0.00	53.96
369	121.90	780.60	1014.30	53.80	214.90	9.60	0.00	155.60	0.00	56.63
370	124.10	794.90	1078.70	0.00	218.90	11.30	0.00	158.50	0.00	15.34
371	124.10	794.90	1078.70	0.00	218.90	11.30	0.00	158.50	0.00	26.05
372	124.10	794.90	1078.70	0.00	218.90	11.30	0.00	158.50	0.00	30.22
373	124.10	794.90	1078.70	0.00	218.90	11.30	0.00	158.50	0.00	37.27
374	124.10	794.90	1078.70	0.00	218.90	11.30	0.00	158.50	0.00	46.23
375	0.00	762.40	1003.50	0.00	376.00	0.00	0.00	214.60	0.00	16.28
376	0.00	762.40	1003.50	0.00	376.00	0.00	0.00	214.60	0.00	25.62
377	0.00	762.40	1003.50	0.00	376.00	0.00	0.00	214.60	0.00	31.97
378	0.00	762.40	1003.50	0.00	376.00	0.00	0.00	214.60	0.00	36.30
379	0.00	762.40	1003.50	0.00	376.00	0.00	0.00	214.60	0.00	43.06
380	0.00	853.00	966.00	0.00	500.00	4.00	0.00	140.00	0.00	67.57
381	59.00	641.00	1098.00	0.00	475.00	1.90	0.00	142.00	0.00	57.23
382	0.00	745.00	1130.00	137.00	315.00	5.90	0.00	145.00	0.00	81.75
383	60.00	630.00	1030.00	0.00	505.00	0.00	0.00	195.00	0.00	64.02
384	0.00	745.00	1030.00	0.00	451.00	11.30	0.00	165.00	0.00	78.80
385	0.00	802.00	801.00	0.00	516.00	8.20	0.00	162.00	0.00	41.37
386	0.00	855.00	855.00	0.00	520.00	5.20	0.00	170.00	0.00	60.28
387	0.00	720.00	920.00	0.00	528.00	6.90	0.00	185.00	0.00	56.83
388	0.00	805.00	870.00	0.00	520.00	5.20	0.00	175.00	0.00	51.02
389	136.00	768.00	903.00	0.00	385.00	20.00	0.00	158.00	0.00	55.55
390	0.00	613.20	1124.40	0.00	500.10	3.00	0.00	200.00	0.00	44.13
391	0.00	613.20	1124.40	50.00	450.10	3.00	0.00	200.00	0.00	39.38
392	158.00	633.00	967.00	17.20	397.00	20.80	0.00	167.00	0.00	55.65
393	163.00	652.00	996.00	17.50	333.00	17.90	0.00	167.00	0.00	47.28
394	158.00	633.00	967.00	17.60	334.00	15.30	0.00	189.00	0.00	44.33
395	0.00	695.00	1120.00	0.00	405.00	0.00	0.00	175.00	0.00	52.30

396	0.00	660.00	1145.00	200.00	200.00	0.00	0.00	190.00	0.00	49.25
397	0.00	802.00	801.00	0.00	516.00	8.30	0.00	162.00	0.00	41.37
398	119.00	880.00	833.00	116.00	145.00	5.70	0.00	184.00	0.00	29.16
399	122.00	879.00	824.00	128.00	160.00	6.40	0.00	182.00	0.00	39.40
400	0.00	760.00	981.00	156.00	234.00	5.90	0.00	189.00	0.00	39.30
401	95.00	800.00	860.00	180.00	250.00	9.50	0.00	159.00	0.00	67.87
402	0.00	662.00	1044.00	0.00	475.00	9.50	0.00	162.00	0.00	58.52
403	0.00	685.00	1031.00	190.00	285.00	7.60	0.00	163.00	0.00	53.58
404	0.00	657.00	1061.00	119.00	356.00	9.00	0.00	160.00	0.00	59.00
405	120.00	765.00	830.00	180.00	275.00	10.40	0.00	162.00	0.00	76.24
406	0.00	655.00	1033.00	0.00	500.00	9.00	0.00	151.00	0.00	69.84
407	143.60	900.90	1005.60	0.00	165.00	0.00	0.00	163.80	0.00	14.40
408	132.10	746.60	1005.80	128.50	165.00	8.10	0.00	175.10	0.00	19.42
409	118.60	746.80	1007.30	129.80	178.00	3.60	0.00	179.90	0.00	20.73
410	128.60	746.60	1006.30	129.90	167.40	7.80	0.00	175.50	0.00	14.94
411	172.40	856.40	1006.30	13.60	172.40	4.10	0.00	156.80	0.00	21.29
412	173.50	793.50	1006.20	50.10	173.50	6.50	0.00	164.80	0.00	23.08
413	167.00	770.10	1007.30	75.40	167.00	7.90	0.00	164.00	0.00	15.52
414	159.90	746.60	1007.20	93.40	173.80	9.70	0.00	172.30	0.00	15.82
415	125.20	798.90	1079.00	0.00	190.30	9.90	0.00	166.60	0.00	12.55
416	95.70	857.20	948.90	0.00	250.00	5.30	0.00	191.80	0.00	8.49
417	174.20	771.90	1043.60	0.00	213.50	11.70	0.00	159.20	0.00	15.61
418	100.50	901.80	998.00	0.00	194.70	7.50	0.00	170.20	0.00	12.18
419	118.30	754.30	1043.60	0.00	251.40	5.80	0.00	192.90	0.00	11.98
420	143.60	900.90	1005.60	0.00	165.00	0.00	0.00	163.80	0.00	16.88
421	132.10	746.60	1005.80	128.50	165.00	8.10	0.00	175.10	0.00	33.09
422	118.60	746.80	1007.30	129.80	178.00	3.60	0.00	179.90	0.00	34.24
423	128.60	746.60	1006.30	129.90	167.40	7.80	0.00	175.50	0.00	31.81
424	172.40	856.40	1006.30	13.60	172.40	4.10	0.00	156.80	0.00	29.75
425	173.50	793.50	1006.20	50.10	173.50	6.50	0.00	164.80	0.00	33.01
426	167.00	770.10	1007.30	75.40	167.00	7.90	0.00	164.00	0.00	32.90
427	159.90	746.60	1007.20	93.40	173.80	9.70	0.00	172.30	0.00	29.55
428	125.20	798.90	1079.00	0.00	190.30	9.90	0.00	166.60	0.00	19.42
429	95.70	857.20	948.90	0.00	250.00	5.30	0.00	191.80	0.00	24.66
430	174.20	771.90	1043.60	0.00	213.50	11.70	0.00	159.20	0.00	29.59
431	100.50	901.80	998.00	0.00	194.70	7.50	0.00	170.20	0.00	24.28
432	118.30	754.30	1043.60	0.00	251.40	5.80	0.00	192.90	0.00	20.73
433	143.60	900.90	1005.60	0.00	165.00	0.00	0.00	163.80	0.00	26.20
434	132.10	746.60	1005.80	128.50	165.00	8.10	0.00	175.10	0.00	46.39
435	118.60	746.80	1007.30	129.80	178.00	3.60	0.00	179.90	0.00	39.16
436	128.60	746.60	1006.30	129.90	167.40	7.80	0.00	175.50	0.00	41.20
437	172.40	856.40	1006.30	13.60	172.40	4.10	0.00	156.80	0.00	33.69
438	173.50	793.50	1006.20	50.10	173.50	6.50	0.00	164.80	0.00	38.20
439	167.00	770.10	1007.30	75.40	167.00	7.90	0.00	164.00	0.00	41.41
440	159.90	746.60	1007.20	93.40	173.80	9.70	0.00	172.30	0.00	37.81
441	125.20	798.90	1079.00	0.00	190.30	9.90	0.00	166.60	0.00	24.85
442	95.70	857.20	948.90	0.00	250.00	5.30	0.00	191.80	0.00	27.22
443	174.20	771.90	1043.60	0.00	213.50	11.70	0.00	159.20	0.00	44.64
444	100.50	901.80	998.00	0.00	194.70	7.50	0.00	170.20	0.00	37.27
445	118.30	754.30	1043.60	0.00	251.40	5.80	0.00	192.90	0.00	33.27
446	143.60	900.90	1005.60	0.00	165.00	0.00	0.00	163.80	0.00	36.56
447	132.10	746.60	1005.80	128.50	165.00	8.10	0.00	175.10	0.00	53.72

448	118.60	746.80	1007.30	129.80	178.00	3.60	0.00	179.90	0.00	48.59
449	128.60	746.60	1006.30	129.90	167.40	7.80	0.00	175.50	0.00	51.72
450	172.40	856.40	1006.30	13.60	172.40	4.10	0.00	156.80	0.00	35.85
451	173.50	793.50	1006.20	50.10	173.50	6.50	0.00	164.80	0.00	53.77
452	167.00	770.10	1007.30	75.40	167.00	7.90	0.00	164.00	0.00	53.46
453	159.90	746.60	1007.20	93.40	173.80	9.70	0.00	172.30	0.00	48.99
454	125.20	798.90	1079.00	0.00	190.30	9.90	0.00	166.60	0.00	31.72
455	95.70	857.20	948.90	0.00	250.00	5.30	0.00	191.80	0.00	39.64
456	174.20	771.90	1043.60	0.00	213.50	11.70	0.00	159.20	0.00	51.26
457	100.50	901.80	998.00	0.00	194.70	7.50	0.00	170.20	0.00	43.39
458	118.30	754.30	1043.60	0.00	251.40	5.80	0.00	192.90	0.00	39.27
459	143.60	900.90	1005.60	0.00	165.00	0.00	0.00	163.80	0.00	37.96
460	132.10	746.60	1005.80	128.50	165.00	8.10	0.00	175.10	0.00	55.02
461	118.60	746.80	1007.30	129.80	178.00	3.60	0.00	179.90	0.00	49.99
462	128.60	746.60	1006.30	129.90	167.40	7.80	0.00	175.50	0.00	53.66
463	172.40	856.40	1006.30	13.60	172.40	4.10	0.00	156.80	0.00	37.68
464	173.50	793.50	1006.20	50.10	173.50	6.50	0.00	164.80	0.00	56.06
465	167.00	770.10	1007.30	75.40	167.00	7.90	0.00	164.00	0.00	56.81
466	159.90	746.60	1007.20	93.40	173.80	9.70	0.00	172.30	0.00	50.94
467	125.20	798.90	1079.00	0.00	190.30	9.90	0.00	166.60	0.00	33.56
468	95.70	857.20	948.90	0.00	250.00	5.30	0.00	191.80	0.00	41.16
469	174.20	771.90	1043.60	0.00	213.50	11.70	0.00	159.20	0.00	52.96
470	100.50	901.80	998.00	0.00	194.70	7.50	0.00	170.20	0.00	44.28
471	118.30	754.30	1043.60	0.00	251.40	5.80	0.00	192.90	0.00	40.15
472	79.00	712.00	967.00	24.00	446.00	11.60	0.00	162.00	0.00	57.03
473	79.00	712.00	967.00	24.00	446.00	11.60	0.00	162.00	0.00	44.42
474	79.00	712.00	967.00	24.00	446.00	11.60	0.00	162.00	0.00	51.02
475	79.00	712.00	967.00	24.00	446.00	10.30	0.00	162.00	0.00	53.39
476	79.00	712.00	967.00	24.00	446.00	11.60	0.00	162.00	0.00	35.36
477	79.00	712.00	967.00	24.00	446.00	11.60	0.00	162.00	0.00	25.02
478	79.00	712.00	967.00	24.00	446.00	11.60	0.00	162.00	0.00	23.35
479	79.00	712.00	967.00	24.00	446.00	11.60	0.00	162.00	0.00	52.01
480	79.00	712.00	967.00	24.00	446.00	11.60	0.00	162.00	0.00	38.02
481	79.00	712.00	967.00	24.00	446.00	11.60	0.00	162.00	0.00	39.30
482	79.00	712.00	967.00	24.00	446.00	11.60	0.00	162.00	0.00	61.07
483	79.00	712.00	967.00	24.00	446.00	11.60	0.00	162.00	0.00	56.14
484	79.00	712.00	967.00	24.00	446.00	11.60	0.00	162.00	0.00	55.25
485	79.00	712.00	967.00	24.00	446.00	10.30	0.00	162.00	0.00	54.77
486	94.00	845.00	938.00	20.00	387.00	14.30	0.00	157.00	0.00	50.24
487	94.00	845.00	938.00	20.00	387.00	13.90	0.00	157.00	0.00	46.68
488	94.00	845.00	938.00	20.00	387.00	11.60	0.00	157.00	0.00	46.68
489	94.00	845.00	938.00	20.00	387.00	14.30	0.00	157.00	0.00	22.75
490	94.00	845.00	938.00	20.00	387.00	13.90	0.00	157.00	0.00	25.51
491	94.00	845.00	938.00	20.00	387.00	11.60	0.00	157.00	0.00	34.77
492	94.00	845.00	938.00	20.00	387.00	14.30	0.00	157.00	0.00	36.84
493	94.00	845.00	938.00	20.00	387.00	13.90	0.00	157.00	0.00	45.90
494	94.00	845.00	938.00	20.00	387.00	11.60	0.00	157.00	0.00	41.67
495	94.00	845.00	938.00	20.00	387.00	14.30	0.00	157.00	0.00	56.34
496	94.00	845.00	938.00	20.00	387.00	13.90	0.00	157.00	0.00	47.97
497	94.00	845.00	938.00	20.00	387.00	11.60	0.00	157.00	0.00	61.46
498	97.00	871.00	967.00	19.00	355.00	13.10	0.00	145.00	0.00	44.03
499	97.00	871.00	967.00	19.00	355.00	12.30	0.00	145.00	0.00	55.45

500	123.00	699.00	882.00	26.00	491.00	3.90	0.00	210.00	0.00	55.55
501	123.00	699.00	822.00	26.00	491.00	3.90	0.00	201.00	0.00	57.92
502	123.00	699.00	882.00	26.00	491.00	3.90	0.00	210.00	0.00	25.61
503	123.00	699.00	882.00	26.00	491.00	3.90	0.00	210.00	0.00	33.49
504	123.00	699.00	882.00	26.00	491.00	3.90	0.00	210.00	0.00	59.59
505	123.00	699.00	822.00	26.00	491.00	3.90	0.00	201.00	0.00	29.55
506	123.00	699.00	822.00	26.00	491.00	3.90	0.00	201.00	0.00	37.92
507	123.00	699.00	822.00	26.00	491.00	3.90	0.00	201.00	0.00	61.86
508	132.00	750.00	822.00	22.00	424.00	8.50	0.00	178.00	0.00	62.05
509	132.00	750.00	882.00	22.00	424.00	8.50	0.00	178.00	0.00	32.01
510	132.00	750.00	822.00	22.00	424.00	8.90	0.00	168.00	0.00	72.10
511	132.00	750.00	822.00	22.00	424.00	8.50	0.00	178.00	0.00	39.00
512	132.00	750.00	822.00	22.00	424.00	8.50	0.00	178.00	0.00	65.70
513	132.00	750.00	822.00	22.00	424.00	8.90	0.00	168.00	0.00	32.11
514	132.00	750.00	822.00	22.00	424.00	8.90	0.00	168.00	0.00	40.29
515	132.00	750.00	822.00	22.00	424.00	8.90	0.00	168.00	0.00	74.36
516	141.00	801.00	942.00	11.00	202.00	1.70	0.00	206.00	0.00	21.97
517	141.00	801.00	942.00	11.00	202.00	1.70	0.00	206.00	0.00	9.85
518	141.00	801.00	942.00	11.00	202.00	1.70	0.00	206.00	0.00	15.07
519	141.00	801.00	942.00	11.00	202.00	1.70	0.00	206.00	0.00	23.25
520	141.00	801.00	842.00	15.00	284.00	5.50	0.00	179.00	0.00	43.73
521	141.00	801.00	842.00	15.00	284.00	5.50	0.00	179.00	0.00	13.40
522	141.00	801.00	842.00	15.00	284.00	5.50	0.00	179.00	0.00	24.13
523	141.00	801.00	842.00	15.00	284.00	5.50	0.00	179.00	0.00	44.52
524	141.00	801.00	942.00	19.00	359.00	10.90	0.00	154.00	0.00	62.94
525	141.00	801.00	942.00	19.00	359.00	10.90	0.00	154.00	0.00	59.49
526	141.00	801.00	942.00	19.00	359.00	10.90	0.00	154.00	0.00	25.12
527	141.00	801.00	942.00	19.00	359.00	10.90	0.00	154.00	0.00	23.64
528	141.00	801.00	942.00	19.00	359.00	10.90	0.00	154.00	0.00	35.75
529	141.00	801.00	942.00	19.00	359.00	10.90	0.00	154.00	0.00	38.61
530	141.00	801.00	942.00	19.00	359.00	10.90	0.00	154.00	0.00	68.75
531	141.00	801.00	942.00	19.00	359.00	10.90	0.00	154.00	0.00	66.78
532	0.00	719.70	838.40	0.00	436.00	0.00	0.00	218.00	0.00	23.85
533	0.00	895.30	913.20	0.00	289.00	0.00	0.00	192.00	0.00	32.07
534	0.00	895.30	913.20	0.00	289.00	0.00	0.00	192.00	0.00	11.65
535	0.00	785.60	940.60	0.00	393.00	0.00	0.00	192.00	0.00	19.20
536	0.00	785.60	940.60	0.00	393.00	0.00	0.00	192.00	0.00	48.85
537	0.00	785.60	940.60	0.00	393.00	0.00	0.00	192.00	0.00	39.60
538	0.00	712.20	936.20	0.00	480.00	0.00	0.00	192.00	0.00	43.94
539	0.00	712.20	936.20	0.00	480.00	0.00	0.00	192.00	0.00	34.57
540	0.00	712.20	936.20	0.00	480.00	0.00	0.00	192.00	0.00	54.32
541	0.00	712.20	936.20	0.00	480.00	0.00	0.00	192.00	0.00	24.40
542	0.00	842.60	931.20	0.00	333.00	0.00	0.00	192.00	0.00	15.62
543	0.00	945.00	889.80	0.00	255.00	0.00	0.00	192.00	0.00	21.86
544	0.00	945.00	889.80	0.00	255.00	0.00	0.00	192.00	0.00	10.22
545	0.00	895.30	913.20	0.00	289.00	0.00	0.00	192.00	0.00	14.60
546	0.00	945.00	889.80	0.00	255.00	0.00	0.00	192.00	0.00	18.75
547	0.00	842.60	931.20	0.00	333.00	0.00	0.00	192.00	0.00	31.97
548	0.00	842.60	931.20	0.00	333.00	0.00	0.00	192.00	0.00	23.40
549	0.00	895.30	913.20	0.00	289.00	0.00	0.00	192.00	0.00	25.57
550	0.00	842.60	931.20	0.00	333.00	0.00	0.00	192.00	0.00	41.68
551	0.00	785.60	940.60	0.00	393.00	0.00	0.00	192.00	0.00	27.74

552	0.00	945.00	889.80	0.00	255.00	0.00	0.00	192.00	0.00	8.20
553	0.00	734.30	1040.60	238.20	158.80	0.00	0.00	185.70	0.00	9.62
554	0.00	664.30	941.60	359.40	239.60	0.00	0.00	185.70	0.00	25.42
555	0.00	734.30	1040.60	158.80	238.20	0.00	0.00	185.70	0.00	15.69
556	0.00	714.30	1012.40	272.80	181.90	0.00	0.00	185.70	0.00	27.94
557	0.00	704.30	998.20	290.20	193.50	0.00	0.00	185.70	0.00	32.63
558	0.00	724.30	1026.60	170.30	255.50	0.00	0.00	185.70	0.00	17.24
559	0.00	714.30	1012.40	181.90	272.80	0.00	0.00	185.70	0.00	19.77
560	0.00	664.30	941.60	359.40	239.60	0.00	0.00	185.70	0.00	39.44
561	0.00	744.30	1055.00	147.20	220.80	0.00	0.00	185.70	0.00	25.75
562	0.00	734.30	1040.60	0.00	397.00	0.00	0.00	185.70	0.00	33.08
563	0.00	739.30	1047.80	0.00	382.50	0.00	0.00	185.70	0.00	24.07
564	0.00	689.30	977.00	316.10	210.70	0.00	0.00	185.70	0.00	21.82
565	0.00	734.30	1040.60	238.20	158.80	0.00	0.00	185.70	0.00	21.07
566	0.00	769.30	1091.40	0.00	295.80	0.00	0.00	185.70	0.00	14.84
567	0.00	724.30	1026.60	170.30	255.50	0.00	0.00	185.70	0.00	32.05
568	0.00	759.30	1076.20	135.70	203.50	0.00	0.00	185.70	0.00	11.96
569	0.00	734.30	1040.60	0.00	397.00	0.00	0.00	185.70	0.00	25.45
570	0.00	784.30	1104.60	0.00	381.40	0.00	0.00	185.70	0.00	22.49
571	0.00	769.30	1091.40	0.00	295.80	0.00	0.00	185.70	0.00	25.22
572	0.00	674.30	955.80	342.10	228.00	0.00	0.00	185.70	0.00	39.70
573	0.00	744.30	1055.00	147.20	220.80	0.00	0.00	185.70	0.00	13.09
574	0.00	689.30	977.00	210.70	316.10	0.00	0.00	185.70	0.00	38.70
575	0.00	759.30	1076.20	203.50	135.70	0.00	0.00	185.70	0.00	7.51
576	0.00	789.30	1118.80	0.00	238.10	0.00	0.00	185.70	0.00	17.58
577	0.00	754.30	1069.20	0.00	339.20	0.00	0.00	185.70	0.00	21.18
578	0.00	759.30	1076.20	203.50	135.70	0.00	0.00	185.70	0.00	18.20
579	0.00	704.30	998.20	290.20	193.50	0.00	0.00	185.70	0.00	17.20
580	0.00	759.30	1076.20	135.70	203.50	0.00	0.00	185.70	0.00	22.63
581	0.00	704.30	998.20	193.50	290.20	0.00	0.00	185.70	0.00	21.86
582	0.00	714.30	1012.40	272.80	181.90	0.00	0.00	185.70	0.00	12.37
583	0.00	724.30	1026.60	155.50	170.30	0.00	0.00	185.70	0.00	25.73
584	0.00	689.30	977.00	316.10	210.70	0.00	0.00	185.70	0.00	37.81
585	0.00	674.30	955.80	342.10	228.00	0.00	0.00	185.70	0.00	21.92
586	0.00	704.30	998.20	193.50	290.20	0.00	0.00	185.70	0.00	33.04
587	0.00	784.30	1104.60	0.00	381.40	0.00	0.00	185.70	0.00	14.54
588	0.00	734.30	1040.60	158.80	238.20	0.00	0.00	185.70	0.00	26.91
589	0.00	764.30	1083.40	124.10	186.20	0.00	0.00	185.70	0.00	8.00
590	0.00	754.30	1069.20	0.00	339.20	0.00	0.00	185.70	0.00	31.90
591	0.00	789.30	1118.80	0.00	238.10	0.00	0.00	185.70	0.00	10.34
592	0.00	784.30	1111.60	0.00	252.50	0.00	0.00	185.70	0.00	19.77
593	0.00	739.30	1047.80	0.00	382.50	0.00	0.00	185.70	0.00	37.44
594	0.00	784.30	1111.60	0.00	252.50	0.00	0.00	185.70	0.00	11.48
595	0.00	689.30	977.00	210.70	316.10	0.00	0.00	185.70	0.00	24.44
596	0.00	764.30	1083.40	124.10	186.20	0.00	0.00	185.70	0.00	17.60
597	0.00	724.30	1026.60	155.50	170.30	0.00	0.00	185.70	0.00	10.73
598	0.00	714.30	1012.40	181.90	272.80	0.00	0.00	185.70	0.00	31.38
599	0.00	781.00	968.00	0.00	339.00	0.00	0.00	197.00	0.00	13.22
600	0.00	781.00	968.00	0.00	339.00	0.00	0.00	197.00	0.00	20.97
601	0.00	781.00	968.00	0.00	339.00	0.00	0.00	197.00	0.00	27.04
602	0.00	781.00	968.00	0.00	339.00	0.00	0.00	197.00	0.00	32.04
603	0.00	781.00	968.00	0.00	339.00	0.00	0.00	197.00	0.00	35.17

604	0.00	781.00	968.00	0.00	339.00	0.00	0.00	197.00	0.00	36.45
605	0.00	781.00	968.00	0.00	339.00	0.00	0.00	197.00	0.00	38.89
606	0.00	885.00	968.00	0.00	236.00	0.00	0.00	194.00	0.00	6.47
607	0.00	885.00	968.00	0.00	236.00	0.00	0.00	194.00	0.00	12.84
608	0.00	885.00	968.00	0.00	236.00	0.00	0.00	194.00	0.00	18.42
609	0.00	885.00	968.00	0.00	236.00	0.00	0.00	194.00	0.00	21.95
610	0.00	885.00	968.00	0.00	236.00	0.00	0.00	193.00	0.00	24.10
611	0.00	885.00	968.00	0.00	236.00	0.00	0.00	193.00	0.00	25.08
612	0.00	856.00	968.00	0.00	277.00	0.00	0.00	191.00	0.00	21.26
613	0.00	856.00	968.00	0.00	277.00	0.00	0.00	191.00	0.00	25.97
614	0.00	856.00	968.00	0.00	277.00	0.00	0.00	191.00	0.00	11.36
615	0.00	856.00	968.00	0.00	277.00	0.00	0.00	191.00	0.00	31.25
616	0.00	856.00	968.00	0.00	277.00	0.00	0.00	191.00	0.00	32.33
617	0.00	856.00	968.00	0.00	277.00	0.00	0.00	191.00	0.00	33.70
618	0.00	863.00	968.00	0.00	254.00	0.00	0.00	198.00	0.00	9.31
619	0.00	863.00	968.00	0.00	254.00	0.00	0.00	198.00	0.00	26.94
620	0.00	863.00	968.00	0.00	254.00	0.00	0.00	198.00	0.00	27.63
621	0.00	863.00	968.00	0.00	254.00	0.00	0.00	198.00	0.00	29.79
622	0.00	812.00	968.00	0.00	307.00	0.00	0.00	193.00	0.00	34.49
623	0.00	812.00	968.00	0.00	307.00	0.00	0.00	193.00	0.00	36.15
624	0.00	812.00	968.00	0.00	307.00	0.00	0.00	193.00	0.00	12.54
625	0.00	812.00	968.00	0.00	307.00	0.00	0.00	193.00	0.00	27.53
626	0.00	812.00	968.00	0.00	307.00	0.00	0.00	193.00	0.00	32.92
627	0.00	885.00	968.00	0.00	236.00	0.00	0.00	193.00	0.00	9.99
628	0.00	845.00	1125.00	0.00	200.00	0.00	0.00	180.00	0.00	7.84
629	0.00	845.00	1125.00	0.00	200.00	0.00	0.00	180.00	0.00	12.25
630	0.00	833.00	1113.00	0.00	225.00	0.00	0.00	181.00	0.00	11.17
631	0.00	833.00	1113.00	0.00	225.00	0.00	0.00	181.00	0.00	17.34
632	0.00	783.00	1063.00	0.00	325.00	0.00	0.00	184.00	0.00	17.54
633	0.00	783.00	1063.00	0.00	325.00	0.00	0.00	184.00	0.00	30.57
634	0.00	808.00	1088.00	0.00	275.00	0.00	0.00	183.00	0.00	14.20
635	0.00	808.00	1088.00	0.00	275.00	0.00	0.00	183.00	0.00	24.50
636	0.00	795.00	1075.00	0.00	300.00	0.00	0.00	184.00	0.00	15.58
637	0.00	795.00	1075.00	0.00	300.00	0.00	0.00	184.00	0.00	26.85
638	0.00	758.00	1038.00	0.00	375.00	0.00	0.00	186.00	0.00	26.06
639	0.00	758.00	1038.00	0.00	375.00	0.00	0.00	186.00	0.00	38.21
640	0.00	745.00	1025.00	0.00	400.00	0.00	0.00	187.00	0.00	43.70
641	0.00	745.00	1025.00	0.00	400.00	0.00	0.00	187.00	0.00	30.14
642	0.00	820.00	1100.00	0.00	250.00	0.00	0.00	182.00	0.00	12.73
643	0.00	820.00	1100.00	0.00	250.00	0.00	0.00	182.00	0.00	20.87
644	0.00	770.00	1050.00	0.00	350.00	0.00	0.00	186.00	0.00	20.28
645	0.00	770.00	1050.00	0.00	350.00	0.00	0.00	186.00	0.00	34.29
646	0.00	630.00	963.40	305.30	203.50	0.00	0.00	203.50	0.00	19.54
647	0.00	694.10	977.60	166.80	250.20	0.00	0.00	203.50	0.00	47.71
648	0.00	781.20	935.40	236.00	157.00	0.00	0.00	192.00	0.00	43.38
649	0.00	748.50	971.80	212.00	141.30	0.00	0.00	203.50	0.00	29.89
650	0.00	692.60	975.60	250.20	166.80	0.00	0.00	203.50	0.00	6.90
651	0.00	800.10	958.20	183.90	122.60	0.00	0.00	203.50	0.00	33.19
652	0.00	800.00	959.20	122.60	183.90	0.00	0.00	203.50	0.00	4.90
653	0.00	942.00	887.00	153.00	102.00	0.00	0.00	192.00	0.00	4.57
654	0.00	942.00	887.00	153.00	102.00	0.00	0.00	192.00	0.00	25.46
655	0.00	800.10	958.20	183.90	122.60	0.00	0.00	203.50	0.00	24.29

656	0.00	692.60	975.60	250.20	166.80	0.00	0.00	203.50	0.00	33.95
657	0.00	806.20	965.40	133.00	200.00	0.00	0.00	192.00	0.00	11.41
658	0.00	849.00	938.20	162.40	108.30	0.00	0.00	203.50	0.00	20.59
659	0.00	631.00	965.40	203.50	305.30	0.00	0.00	203.50	0.00	25.89
660	0.00	849.00	938.20	162.40	108.30	0.00	0.00	203.50	0.00	29.23
661	0.00	891.90	909.80	173.00	116.00	0.00	0.00	192.00	0.00	31.02
662	0.00	748.50	971.80	212.00	141.30	0.00	0.00	203.50	0.00	10.39
663	0.00	781.20	935.40	236.00	157.00	0.00	0.00	192.00	0.00	33.66
664	0.00	839.20	927.40	200.00	133.00	0.00	0.00	192.00	0.00	27.87
665	0.00	694.10	977.60	166.80	250.20	0.00	0.00	203.50	0.00	19.35
666	0.00	856.80	946.80	116.00	173.00	0.00	0.00	192.00	0.00	11.39
667	0.00	716.10	929.80	288.00	192.00	0.00	0.00	192.00	0.00	12.79
668	0.00	716.10	929.80	288.00	192.00	0.00	0.00	192.00	0.00	39.32
669	0.00	943.10	888.00	102.00	153.00	0.00	0.00	192.00	0.00	4.78
670	0.00	717.80	932.00	192.00	288.00	0.00	0.00	192.00	0.00	16.11
671	0.00	631.00	965.40	203.50	305.30	0.00	0.00	203.50	0.00	43.38
672	0.00	749.10	972.60	157.00	236.00	0.00	0.00	192.00	0.00	20.42
673	0.00	856.80	946.80	116.00	173.00	0.00	0.00	192.00	0.00	6.94
674	0.00	750.00	973.40	141.30	212.00	0.00	0.00	203.50	0.00	15.03
675	0.00	749.10	972.60	157.00	236.00	0.00	0.00	192.00	0.00	13.57
676	0.00	800.00	959.20	122.60	183.90	0.00	0.00	203.50	0.00	32.53
677	0.00	692.60	975.60	250.20	166.80	0.00	0.00	203.50	0.00	15.75
678	0.00	942.00	887.00	153.00	102.00	0.00	0.00	192.00	0.00	7.68
679	0.00	717.80	932.00	192.00	288.00	0.00	0.00	192.00	0.00	38.80
680	0.00	750.00	973.40	141.30	212.00	0.00	0.00	203.50	0.00	33.00
681	0.00	942.00	887.00	153.00	102.00	0.00	0.00	192.00	0.00	17.28
682	0.00	856.80	946.80	116.00	173.00	0.00	0.00	192.00	0.00	24.28
683	0.00	800.00	959.20	122.60	183.90	0.00	0.00	203.50	0.00	24.05
684	0.00	839.20	927.40	200.00	133.00	0.00	0.00	192.00	0.00	36.59
685	0.00	716.10	929.80	288.00	192.00	0.00	0.00	192.00	0.00	50.73
686	0.00	839.20	927.40	200.00	133.00	0.00	0.00	192.00	0.00	13.66
687	0.00	631.00	965.40	203.50	305.30	0.00	0.00	203.50	0.00	14.14
688	0.00	749.10	972.60	157.00	236.00	0.00	0.00	192.00	0.00	47.78
689	0.00	849.00	938.20	162.40	108.30	0.00	0.00	203.50	0.00	2.33
690	0.00	781.20	935.40	236.00	157.00	0.00	0.00	192.00	0.00	16.89
691	0.00	717.80	932.00	192.00	288.00	0.00	0.00	192.00	0.00	23.52
692	0.00	750.00	973.40	141.30	212.00	0.00	0.00	203.50	0.00	6.81
693	0.00	750.00	973.40	141.30	212.00	0.00	0.00	203.50	0.00	39.70
694	0.00	943.10	888.00	102.00	153.00	0.00	0.00	192.00	0.00	17.96
695	0.00	749.10	972.60	157.00	236.00	0.00	0.00	192.00	0.00	32.88
696	0.00	891.90	909.80	173.00	116.00	0.00	0.00	192.00	0.00	22.35
697	0.00	800.00	959.20	122.60	183.90	0.00	0.00	203.50	0.00	10.79
698	0.00	849.00	938.20	162.40	108.30	0.00	0.00	203.50	0.00	7.72
699	0.00	630.00	963.40	305.30	203.50	0.00	0.00	203.50	0.00	41.68
700	0.00	630.00	963.40	305.30	203.50	0.00	0.00	203.50	0.00	9.56
701	0.00	839.20	927.40	200.00	133.00	0.00	0.00	192.00	0.00	6.88
702	0.00	717.80	932.00	192.00	288.00	0.00	0.00	192.00	0.00	50.53
703	0.00	806.20	965.40	133.00	200.00	0.00	0.00	192.00	0.00	17.17
704	0.00	806.20	965.40	133.00	200.00	0.00	0.00	192.00	0.00	30.44
705	0.00	694.10	977.60	166.80	250.20	0.00	0.00	203.50	0.00	9.73
706	0.00	800.10	958.20	183.90	122.60	0.00	0.00	203.50	0.00	3.32
707	0.00	943.10	888.00	102.00	153.00	0.00	0.00	192.00	0.00	26.32

708	0.00	806.20	965.40	133.00	200.00	0.00	0.00	192.00	0.00	43.25
709	0.00	891.90	909.80	173.00	116.00	0.00	0.00	192.00	0.00	6.28
710	0.00	856.80	946.80	116.00	173.00	0.00	0.00	192.00	0.00	32.10
711	0.00	694.10	977.60	166.80	250.20	0.00	0.00	203.50	0.00	36.96
712	0.00	631.00	965.40	203.50	305.30	0.00	0.00	203.50	0.00	54.60
713	0.00	716.10	929.80	288.00	192.00	0.00	0.00	192.00	0.00	21.48
714	0.00	781.20	935.40	236.00	157.00	0.00	0.00	192.00	0.00	9.69
715	0.00	943.10	888.00	102.00	153.00	0.00	0.00	192.00	0.00	8.37
716	0.00	748.50	971.80	212.00	141.30	0.00	0.00	203.50	0.00	39.66
717	0.00	891.90	909.80	173.00	116.00	0.00	0.00	192.00	0.00	10.09
718	0.00	748.50	971.80	212.00	141.30	0.00	0.00	203.50	0.00	4.83
719	0.00	800.10	958.20	183.90	122.60	0.00	0.00	203.50	0.00	10.35
720	0.00	692.60	975.60	250.20	166.80	0.00	0.00	203.50	0.00	43.57
721	0.00	630.00	963.40	305.30	203.50	0.00	0.00	203.50	0.00	51.86
722	0.00	830.00	1012.00	0.00	310.00	0.00	0.00	192.00	0.00	11.85
723	0.00	830.00	1012.00	0.00	310.00	0.00	0.00	192.00	0.00	17.24
724	0.00	830.00	1012.00	0.00	310.00	0.00	0.00	192.00	0.00	27.83
725	0.00	830.00	1012.00	0.00	310.00	0.00	0.00	192.00	0.00	35.76
726	0.00	830.00	1012.00	0.00	310.00	0.00	0.00	192.00	0.00	38.70
727	0.00	821.00	1025.00	0.00	331.00	0.00	0.00	192.00	0.00	14.31
728	0.00	821.00	1025.00	0.00	331.00	0.00	0.00	192.00	0.00	17.44
729	0.00	821.00	1025.00	0.00	331.00	0.00	0.00	192.00	0.00	31.74
730	0.00	821.00	1025.00	0.00	331.00	0.00	0.00	192.00	0.00	37.91
731	0.00	821.00	1025.00	0.00	331.00	0.00	0.00	192.00	0.00	39.38
732	0.00	809.00	1056.00	0.00	349.00	0.00	0.00	192.00	0.00	15.87
733	0.00	809.00	1056.00	0.00	349.00	0.00	0.00	192.00	0.00	9.01
734	0.00	809.00	1056.00	0.00	349.00	0.00	0.00	192.00	0.00	33.61
735	0.00	809.00	1056.00	0.00	349.00	0.00	0.00	192.00	0.00	40.66
736	0.00	809.00	1056.00	0.00	349.00	0.00	0.00	192.00	0.00	40.86
737	0.00	789.00	1119.00	0.00	238.00	0.00	0.00	186.00	0.00	12.05
738	0.00	789.00	1119.00	0.00	238.00	0.00	0.00	186.00	0.00	17.54
739	0.00	769.00	1090.00	0.00	296.00	0.00	0.00	186.00	0.00	18.91
740	0.00	769.00	1090.00	0.00	296.00	0.00	0.00	186.00	0.00	25.18
741	0.00	734.00	1040.00	0.00	297.00	0.00	0.00	186.00	0.00	30.96
742	0.00	721.00	936.00	0.00	480.00	0.00	0.00	192.00	0.00	43.89
743	0.00	721.00	936.00	0.00	480.00	0.00	0.00	192.00	0.00	54.28
744	0.00	734.00	1040.00	0.00	397.00	0.00	0.00	186.00	0.00	36.94
745	0.00	774.00	1104.00	0.00	281.00	0.00	0.00	186.00	0.00	14.50
746	0.00	774.00	1104.00	0.00	281.00	0.00	0.00	185.00	0.00	22.44
747	0.00	613.00	1125.00	0.00	500.00	0.00	0.00	200.00	0.00	12.64
748	0.00	613.00	1125.00	0.00	500.00	0.00	0.00	200.00	0.00	26.06
749	0.00	613.00	1125.00	0.00	500.00	0.00	0.00	200.00	0.00	33.21
750	0.00	613.00	1125.00	0.00	500.00	0.00	0.00	200.00	0.00	36.94
751	0.00	613.00	1125.00	0.00	500.00	0.00	0.00	200.00	0.00	44.09
752	0.00	613.00	1125.00	0.00	540.00	0.00	0.00	173.00	0.00	52.61
753	0.00	613.00	1125.00	0.00	540.00	0.00	0.00	173.00	0.00	59.76
754	0.00	613.00	1125.00	0.00	540.00	0.00	0.00	173.00	0.00	67.31
755	0.00	613.00	1125.00	0.00	540.00	0.00	0.00	173.00	0.00	69.66
756	0.00	613.00	1125.00	0.00	540.00	0.00	0.00	173.00	0.00	71.62
757	0.00	613.00	1125.00	0.00	540.00	0.00	0.00	173.00	0.00	74.17
758	0.00	775.00	974.00	0.00	350.00	0.00	0.00	203.00	0.00	18.13
759	0.00	775.00	974.00	0.00	350.00	0.00	0.00	203.00	0.00	22.53

760	0.00	775.00	974.00	0.00	350.00	0.00	0.00	203.00	0.00	27.34
761	0.00	775.00	974.00	0.00	350.00	0.00	0.00	203.00	0.00	29.98
762	0.00	775.00	974.00	0.00	350.00	0.00	0.00	203.00	0.00	31.35
763	0.00	775.00	974.00	0.00	350.00	0.00	0.00	203.00	0.00	32.72
764	0.00	763.00	966.00	0.00	385.00	0.00	0.00	186.00	0.00	6.27
765	0.00	763.00	966.00	0.00	385.00	0.00	0.00	186.00	0.00	14.70
766	0.00	763.00	966.00	0.00	385.00	0.00	0.00	186.00	0.00	23.22
767	0.00	763.00	966.00	0.00	385.00	0.00	0.00	186.00	0.00	27.92
768	0.00	763.00	966.00	0.00	385.00	0.00	0.00	186.00	0.00	31.35
769	0.00	825.00	978.00	0.00	331.00	0.00	0.00	192.00	0.00	39.00
770	0.00	825.00	978.00	0.00	331.00	0.00	0.00	192.00	0.00	41.24
771	0.00	806.00	1047.00	0.00	349.00	0.00	0.00	192.00	0.00	14.99
772	0.00	825.00	978.00	0.00	331.00	0.00	0.00	192.00	0.00	13.52
773	0.00	739.00	1047.00	0.00	382.00	0.00	0.00	186.00	0.00	24.00
774	0.00	739.00	1047.00	0.00	382.00	0.00	0.00	186.00	0.00	37.42
775	0.00	784.00	1111.00	0.00	382.00	0.00	0.00	186.00	0.00	11.47
776	0.00	774.00	1104.00	0.00	281.00	0.00	0.00	186.00	0.00	22.44
777	0.00	754.00	1069.00	0.00	339.00	0.00	0.00	185.00	0.00	21.16
778	0.00	754.00	1069.00	0.00	339.00	0.00	0.00	185.00	0.00	31.84
779	0.00	769.00	1069.00	0.00	295.00	0.00	0.00	185.00	0.00	14.80
780	0.00	769.00	1069.00	0.00	295.00	0.00	0.00	185.00	0.00	25.18
781	0.00	789.00	1118.00	0.00	238.00	0.00	0.00	185.00	0.00	17.54
782	0.00	765.00	1085.00	0.00	296.00	0.00	0.00	192.00	0.00	14.20
783	0.00	765.00	1085.00	0.00	296.00	0.00	0.00	192.00	0.00	21.65
784	0.00	765.00	1085.00	0.00	296.00	0.00	0.00	192.00	0.00	29.39
785	0.00	825.00	879.00	0.00	331.00	0.00	0.00	192.00	0.00	13.52
786	0.00	825.00	978.00	0.00	331.00	0.00	0.00	192.00	0.00	16.26
787	0.00	825.00	978.00	0.00	331.00	0.00	0.00	192.00	0.00	31.45
788	0.00	825.00	978.00	0.00	331.00	0.00	0.00	192.00	0.00	37.23
789	0.00	806.00	1047.00	0.00	349.00	0.00	0.00	192.00	0.00	18.13
790	0.00	806.00	1047.00	0.00	349.00	0.00	0.00	192.00	0.00	32.72
791	0.00	806.00	1047.00	0.00	349.00	0.00	0.00	192.00	0.00	39.49
792	0.00	806.00	1047.00	0.00	349.00	0.00	0.00	192.00	0.00	41.05
793	0.00	806.00	1047.00	0.00	349.00	0.00	0.00	192.00	0.00	42.13
794	0.00	817.00	974.00	0.00	302.00	0.00	0.00	203.00	0.00	18.13
795	0.00	817.00	974.00	0.00	302.00	0.00	0.00	203.00	0.00	26.74
796	0.00	613.00	1125.00	0.00	525.00	0.00	0.00	189.00	0.00	61.92
797	0.00	613.00	1125.00	0.00	500.00	0.00	0.00	200.00	0.00	47.22
798	0.00	613.00	1125.00	0.00	500.00	0.00	0.00	200.00	0.00	51.04
799	0.00	613.00	1125.00	0.00	500.00	0.00	0.00	200.00	0.00	55.16
800	0.00	613.00	1125.00	0.00	540.00	0.00	0.00	173.00	0.00	41.64
801	0.00	784.00	1111.00	0.00	252.00	0.00	0.00	185.00	0.00	13.71
802	0.00	784.00	1111.00	0.00	252.00	0.00	0.00	185.00	0.00	19.69
803	0.00	754.00	1060.00	0.00	339.00	0.00	0.00	185.00	0.00	31.65
804	0.00	758.00	940.00	0.00	393.00	0.00	0.00	192.00	0.00	19.11
805	0.00	758.00	940.00	0.00	393.00	0.00	0.00	192.00	0.00	39.58
806	0.00	758.00	940.00	0.00	393.00	0.00	0.00	192.00	0.00	48.79
807	0.00	739.00	1047.00	0.00	382.00	0.00	0.00	185.00	0.00	24.00
808	0.00	739.00	1047.00	0.00	382.00	0.00	0.00	185.00	0.00	37.42
809	0.00	784.00	1111.00	0.00	252.00	0.00	0.00	186.00	0.00	11.47
810	0.00	784.00	1111.00	0.00	252.00	0.00	0.00	185.00	0.00	19.69
811	0.00	850.00	970.00	0.00	310.00	0.00	0.00	192.00	0.00	14.99

812	0.00	850.00	970.00	0.00	310.00	0.00	0.00	192.00	0.00	27.92
813	0.00	850.00	970.00	0.00	310.00	0.00	0.00	192.00	0.00	34.68
814	0.00	850.00	970.00	0.00	310.00	0.00	0.00	192.00	0.00	37.33
815	0.00	850.00	970.00	0.00	310.00	0.00	0.00	192.00	0.00	38.11
816	0.00	613.00	1125.00	0.00	525.00	0.00	0.00	189.00	0.00	33.80
817	0.00	613.00	1125.00	0.00	525.00	0.00	0.00	189.00	0.00	42.42
818	0.00	613.00	1125.00	0.00	525.00	0.00	0.00	189.00	0.00	48.40
819	0.00	613.00	1125.00	0.00	525.00	0.00	0.00	189.00	0.00	55.94
820	0.00	613.00	1125.00	0.00	525.00	0.00	0.00	189.00	0.00	58.78
821	0.00	613.00	1125.00	0.00	525.00	0.00	0.00	189.00	0.00	67.11
822	0.00	800.00	974.00	0.00	322.00	0.00	0.00	203.00	0.00	20.77
823	0.00	800.00	974.00	0.00	322.00	0.00	0.00	203.00	0.00	25.18
824	0.00	800.00	974.00	0.00	322.00	0.00	0.00	203.00	0.00	29.59
825	0.00	817.00	974.00	0.00	302.00	0.00	0.00	203.00	0.00	21.75
826	0.00	734.00	1040.00	0.00	397.00	0.00	0.00	185.00	0.00	39.09
827	0.00	721.00	936.00	0.00	480.00	0.00	0.00	192.00	0.00	24.39
828	0.00	896.00	896.00	0.00	522.00	0.00	0.00	146.00	0.00	50.51
829	0.00	896.00	896.00	0.00	522.00	0.00	0.00	146.00	0.00	74.99
830	82.00	680.00	904.00	105.00	273.00	9.00	0.00	210.00	0.00	37.17
831	148.00	741.00	838.00	190.00	162.00	19.00	0.00	179.00	0.00	33.76
832	112.00	658.00	923.00	144.00	154.00	10.00	0.00	220.00	0.00	16.50
833	89.00	829.00	860.00	115.00	147.00	9.00	0.00	202.00	0.00	19.99
834	139.00	695.00	944.00	178.00	152.00	18.00	0.00	168.00	0.00	36.35
835	111.00	651.00	914.00	143.00	310.00	22.00	0.00	168.00	0.00	33.69
836	175.00	844.00	943.00	0.00	144.00	18.00	0.00	158.00	0.00	15.42
837	0.00	722.00	895.00	140.00	304.00	6.00	0.00	214.00	0.00	33.42
838	0.00	730.00	1013.00	0.00	374.00	7.00	0.00	190.00	0.00	39.05
839	116.00	720.00	953.00	149.00	159.00	15.00	0.00	175.00	0.00	27.68
840	0.00	684.00	1002.00	239.00	153.00	6.00	0.00	200.00	0.00	26.86
841	0.00	804.00	914.00	143.00	310.00	10.00	0.00	168.00	0.00	45.30
842	100.00	705.00	959.00	0.00	305.00	10.00	0.00	196.00	0.00	30.12
843	184.00	772.00	991.00	0.00	151.00	12.00	0.00	167.00	0.00	15.57
844	130.00	785.00	883.00	167.00	142.00	11.00	0.00	174.00	0.00	44.61
845	107.00	655.00	878.00	137.00	298.00	6.00	0.00	201.00	0.00	53.52
846	0.00	774.00	870.00	164.00	321.00	5.00	0.00	190.00	0.00	57.21
847	0.00	757.00	824.00	187.00	366.00	7.00	0.00	191.00	0.00	65.91
848	100.00	805.00	825.00	129.00	280.00	9.00	0.00	172.00	0.00	52.82
849	76.00	821.00	835.00	97.00	252.00	8.00	0.00	194.00	0.00	33.40
850	150.00	729.00	1023.00	0.00	165.00	12.00	0.00	182.00	0.00	18.03
851	0.00	698.00	1022.00	243.00	156.00	11.00	0.00	180.00	0.00	37.36
852	146.00	710.00	829.00	188.00	160.00	11.00	0.00	203.00	0.00	32.84
853	107.00	815.00	879.00	0.00	298.00	6.00	0.00	186.00	0.00	42.64
854	126.00	737.00	861.00	0.00	318.00	6.00	0.00	210.00	0.00	40.06
855	94.00	696.00	904.00	121.00	287.00	9.00	0.00	188.00	0.00	41.94
856	0.00	790.00	882.00	166.00	326.00	9.00	0.00	174.00	0.00	61.23
857	142.00	778.00	801.00	0.00	356.00	11.00	0.00	193.00	0.00	40.87
858	161.00	736.00	867.00	207.00	132.00	5.00	0.00	179.00	0.00	33.30
859	0.00	709.00	951.00	149.00	322.00	8.00	0.00	186.00	0.00	52.42
860	200.00	846.00	849.00	0.00	164.00	13.00	0.00	181.00	0.00	15.09
861	113.00	783.00	925.00	0.00	314.00	10.00	0.00	170.00	0.00	38.46
862	128.00	780.00	870.00	0.00	321.00	11.00	0.00	182.00	0.00	37.26
863	128.00	656.00	869.00	164.00	140.00	6.00	0.00	237.00	0.00	35.23

864	0.00	829.00	908.00	121.00	288.00	7.00	0.00	177.00	0.00	42.13
865	107.00	744.00	880.00	0.00	298.00	11.00	0.00	210.00	0.00	31.87
866	86.00	790.00	833.00	111.00	265.00	6.00	0.00	195.00	0.00	41.54
867	0.00	688.00	1049.00	250.00	160.00	12.00	0.00	168.00	0.00	39.45
868	0.00	827.00	859.00	260.00	166.00	13.00	0.00	183.00	0.00	37.91
869	90.00	768.00	870.00	116.00	276.00	9.00	0.00	180.00	0.00	44.28
870	116.00	813.00	818.00	0.00	322.00	10.00	0.00	196.00	0.00	31.18
871	109.00	780.00	892.00	139.00	149.00	6.00	0.00	193.00	0.00	23.69
872	0.00	789.00	990.00	187.00	159.00	11.00	0.00	176.00	0.00	32.76
873	78.00	761.00	864.00	100.00	261.00	9.00	0.00	201.00	0.00	32.40
874	71.00	695.00	853.00	92.00	237.00	6.00	0.00	247.00	0.00	28.63
875	113.00	689.00	1002.00	0.00	313.00	8.00	0.00	178.00	0.00	36.80
876	0.00	697.00	1047.00	183.00	155.00	9.00	0.00	193.00	0.00	18.28
877	0.00	872.00	827.00	230.00	146.00	3.00	0.00	202.00	0.00	33.06
878	107.00	778.00	819.00	0.00	296.00	11.00	0.00	221.00	0.00	31.42
879	0.00	795.00	949.00	210.00	133.00	3.00	0.00	196.00	0.00	31.03
880	0.00	824.00	867.00	145.00	313.00	8.00	0.00	178.00	0.00	44.39
881	112.00	816.00	992.00	0.00	152.00	8.00	0.00	184.00	0.00	12.18
882	113.00	689.00	1002.00	145.00	153.00	8.00	0.00	178.00	0.00	25.56
883	103.00	753.00	916.00	133.00	140.00	7.00	0.00	200.00	0.00	36.44
884	0.00	893.00	847.00	236.00	149.00	13.00	0.00	176.00	0.00	32.96
885	120.00	728.00	878.00	0.00	300.00	10.00	0.00	212.00	0.00	23.84
886	113.00	824.00	867.00	145.00	153.00	8.00	0.00	178.00	0.00	26.23
887	137.00	830.00	1002.00	0.00	148.00	16.00	0.00	158.00	0.00	17.95
888	138.00	792.00	801.00	0.00	326.00	11.00	0.00	199.00	0.00	40.68
889	0.00	822.00	1000.00	145.00	153.00	8.00	0.00	178.00	0.00	19.01
890	86.00	733.00	895.00	111.00	262.00	5.00	0.00	195.00	0.00	33.72
891	195.00	713.00	898.00	0.00	158.00	11.00	0.00	220.00	0.00	8.54
892	185.00	678.00	1074.00	0.00	151.00	16.00	0.00	167.00	0.00	13.46
893	90.00	762.00	931.00	0.00	273.00	11.00	0.00	199.00	0.00	32.24
894	92.00	780.00	953.00	118.00	149.00	7.00	0.00	183.00	0.00	23.52
895	143.00	643.00	967.00	169.00	143.00	8.00	0.00	191.00	0.00	29.72
896	78.00	763.00	936.00	101.00	260.00	10.00	0.00	171.00	0.00	49.77
897	0.00	759.00	917.00	161.00	313.00	10.00	0.00	178.00	0.00	52.44
898	0.00	794.00	970.00	120.00	284.00	7.00	0.00	168.00	0.00	40.93
899	0.00	817.00	986.00	0.00	336.00	3.00	0.00	182.00	0.00	44.86
900	134.00	812.00	979.00	0.00	145.00	11.00	0.00	181.00	0.00	13.20
901	0.00	675.00	1069.00	237.00	150.00	12.00	0.00	174.00	0.00	37.43
902	133.00	805.00	814.00	170.00	144.00	8.00	0.00	192.00	0.00	29.87
903	0.00	802.00	811.00	170.00	331.00	8.00	0.00	195.00	0.00	56.61
904	143.00	697.00	1047.00	0.00	155.00	9.00	0.00	193.00	0.00	12.46
905	0.00	868.00	877.00	183.00	155.00	9.00	0.00	193.00	0.00	23.79
906	166.00	805.00	961.00	0.00	135.00	10.00	0.00	180.00	0.00	13.29
907	87.00	745.00	910.00	112.00	266.00	10.00	0.00	178.00	0.00	39.42
908	113.00	690.00	869.00	145.00	314.00	8.00	0.00	179.00	0.00	46.23
909	0.00	822.00	1000.00	145.00	313.00	8.00	0.00	127.00	0.00	44.52
910	0.00	817.00	986.00	173.00	146.00	3.00	0.00	182.00	0.00	23.74
911	106.00	774.00	941.00	136.00	144.00	7.00	0.00	178.00	0.00	26.14
912	182.00	884.00	839.00	0.00	148.00	15.00	0.00	181.00	0.00	15.52
913	91.00	666.00	946.00	117.00	277.00	7.00	0.00	191.00	0.00	43.57
914	107.00	784.00	953.00	0.00	298.00	13.00	0.00	164.00	0.00	35.86
915	0.00	689.00	1002.00	145.00	313.00	8.00	0.00	178.00	0.00	41.05

916	143.00	699.00	880.00	184.00	155.00	9.00	0.00	194.00	0.00	28.99
917	0.00	760.00	924.00	134.00	289.00	6.00	0.00	195.00	0.00	46.24
918	0.00	828.00	1000.00	175.00	148.00	2.00	0.00	171.00	0.00	26.92
919	179.00	869.00	824.00	0.00	145.00	8.00	0.00	202.00	0.00	10.54
920	0.00	822.00	1000.00	0.00	313.00	8.00	0.00	178.00	0.00	25.10
921	126.00	764.00	923.00	162.00	136.00	10.00	0.00	172.00	0.00	29.07
922	143.00	868.00	877.00	0.00	155.00	9.00	0.00	193.00	0.00	9.74
923	77.00	749.00	919.00	99.00	255.00	6.00	0.00	189.00	0.00	33.80
924	172.00	638.00	822.00	207.00	162.00	10.00	0.00	216.00	0.00	39.84
925	98.00	783.00	847.00	196.00	136.00	6.00	0.00	199.00	0.00	26.97
926	128.00	641.00	961.00	163.00	164.00	8.00	0.00	197.00	0.00	27.23
927	164.00	680.00	820.00	214.00	162.00	10.00	0.00	202.00	0.00	30.65
928	152.00	704.00	819.00	214.00	157.00	9.00	0.00	200.00	0.00	33.05
929	194.00	623.00	935.00	153.00	149.00	8.00	0.00	192.00	0.00	24.58
930	193.00	643.00	965.00	105.00	135.00	6.00	0.00	196.00	0.00	21.91
931	161.00	669.00	848.00	209.00	159.00	7.00	0.00	201.00	0.00	30.88
932	195.00	709.00	1021.00	15.00	144.00	6.00	0.00	176.00	0.00	15.34
933	185.00	612.00	845.00	174.00	154.00	7.00	0.00	228.00	0.00	24.34
934	195.00	636.00	898.00	187.00	167.00	7.00	0.00	185.00	0.00	23.89
935	190.00	623.00	923.00	86.00	184.00	6.00	0.00	213.00	0.00	22.93
936	187.00	614.00	854.00	178.00	156.00	7.00	0.00	221.00	0.00	29.41
937	71.50	695.40	852.90	91.70	236.90	6.00	0.00	246.90	0.00	28.63
938	113.00	688.70	1001.90	0.00	313.30	8.00	0.00	178.50	0.00	36.80
939	0.00	696.70	1047.40	183.40	154.80	9.10	0.00	193.30	0.00	18.29
940	0.00	871.80	827.00	230.50	145.90	3.40	0.00	202.50	0.00	32.72
941	106.70	778.40	819.20	0.00	296.00	10.50	0.00	221.40	0.00	31.42
942	0.00	795.30	949.40	210.20	133.10	3.10	0.00	195.70	0.00	28.94
943	0.00	824.00	867.20	145.00	313.30	8.00	0.00	178.50	0.00	40.93
944	111.90	815.90	992.00	0.00	151.60	7.90	0.00	184.40	0.00	12.18
945	113.00	688.70	1001.90	145.00	153.10	8.00	0.00	178.50	0.00	25.56
946	103.30	753.40	916.00	132.60	139.90	7.40	0.00	200.30	0.00	36.44
947	0.00	892.70	846.80	236.00	149.50	12.60	0.00	175.80	0.00	32.96
948	119.80	727.60	878.20	0.00	299.80	9.90	0.00	211.50	0.00	23.84
949	113.00	824.00	867.20	145.00	153.10	8.00	0.00	178.50	0.00	26.23
950	136.60	830.10	1001.80	0.00	148.10	16.10	0.00	158.10	0.00	17.96
951	137.90	792.50	801.10	0.00	326.50	10.80	0.00	199.00	0.00	38.63
952	0.00	822.20	999.70	144.70	152.70	8.00	0.00	178.10	0.00	19.01
953	86.10	732.60	895.20	110.50	261.90	5.00	0.00	195.40	0.00	33.72
954	194.90	712.90	897.70	0.00	158.40	11.00	0.00	219.70	0.00	8.54
955	185.30	678.00	1074.50	0.00	150.70	15.60	0.00	166.70	0.00	13.46
956	89.60	762.20	931.30	0.00	272.60	10.60	0.00	198.70	0.00	32.25
957	91.70	780.30	953.40	117.60	149.00	7.10	0.00	182.90	0.00	23.52
958	142.70	643.50	967.40	169.40	143.00	8.40	0.00	190.70	0.00	29.73
959	78.40	762.90	935.70	100.60	259.90	10.40	0.00	170.60	0.00	49.77
960	0.00	759.50	916.60	160.50	312.90	9.60	0.00	177.60	0.00	52.45
961	0.00	794.20	970.40	119.70	284.00	7.20	0.00	168.30	0.00	40.93
962	0.00	816.80	985.80	0.00	336.50	3.40	0.00	181.90	0.00	44.87
963	133.60	811.50	979.50	0.00	144.80	11.10	0.00	180.80	0.00	13.20
964	0.00	674.80	1069.30	236.80	150.00	11.90	0.00	173.80	0.00	37.43
965	132.60	805.30	814.10	170.20	143.70	8.50	0.00	191.60	0.00	29.87
966	0.00	802.30	811.00	169.60	330.50	8.10	0.00	194.90	0.00	56.62
967	142.80	696.70	1047.40	0.00	154.80	9.10	0.00	193.30	0.00	12.46

968	0.00	867.70	877.20	183.40	154.80	9.10	0.00	193.30	0.00	23.79
969	165.70	804.90	961.00	0.00	134.70	10.00	0.00	180.20	0.00	13.29
970	87.50	744.50	909.70	112.30	266.20	10.40	0.00	177.90	0.00	39.42
971	113.20	690.20	869.10	145.30	314.00	8.00	0.00	178.90	0.00	46.23
972	0.00	822.20	999.70	144.70	312.70	8.00	0.00	127.30	0.00	44.52
973	0.00	816.80	985.80	172.60	145.70	3.40	0.00	181.90	0.00	23.74
974	106.20	774.30	941.50	136.30	143.80	7.50	0.00	178.10	0.00	26.15
975	182.10	884.30	838.90	0.00	148.10	15.00	0.00	181.40	0.00	15.53
976	91.00	665.60	946.50	116.80	277.00	7.00	0.00	190.60	0.00	43.58
977	107.50	784.00	953.20	0.00	298.10	12.80	0.00	163.60	0.00	35.87
978	0.00	688.70	1001.90	145.00	313.30	8.00	0.00	178.50	0.00	41.05
979	143.20	698.50	879.60	183.90	155.20	9.20	0.00	193.80	0.00	28.99
980	0.00	760.10	924.10	133.70	289.00	5.50	0.00	194.90	0.00	46.25
981	0.00	828.50	1000.00	175.10	147.80	2.20	0.00	171.20	0.00	26.92
982	178.90	868.70	824.00	0.00	145.40	7.80	0.00	201.70	0.00	10.54
983	0.00	822.20	999.70	0.00	312.70	8.00	0.00	178.10	0.00	25.10
984	125.80	764.40	922.60	161.60	136.40	10.40	0.00	171.60	0.00	29.07
985	142.80	867.70	877.20	0.00	154.80	9.10	0.00	193.30	0.00	9.74
986	77.00	749.30	919.00	98.80	255.30	6.50	0.00	188.60	0.00	33.80
987	81.80	679.70	904.00	105.10	272.80	9.00	0.00	209.70	0.00	37.17
988	148.10	741.40	838.10	190.10	162.00	18.80	0.00	178.80	0.00	33.76
989	112.30	657.90	923.20	144.20	153.60	10.10	0.00	220.10	0.00	16.50
990	89.30	829.50	860.00	114.60	146.50	8.80	0.00	201.90	0.00	19.99
991	138.70	694.60	944.00	178.10	151.80	18.30	0.00	167.50	0.00	36.35
992	111.20	651.20	913.90	142.80	309.90	22.10	0.00	167.80	0.00	38.22
993	174.90	844.50	942.70	0.00	143.60	17.90	0.00	158.40	0.00	15.42
994	0.00	722.50	895.50	139.90	303.60	6.20	0.00	213.50	0.00	33.42
995	0.00	730.40	1013.20	0.00	374.30	6.70	0.00	190.20	0.00	39.06
996	116.00	719.70	953.30	148.90	158.60	15.00	0.00	175.10	0.00	27.68
997	0.00	683.90	1001.80	238.70	152.60	6.30	0.00	200.00	0.00	26.86
998	0.00	804.00	914.30	142.80	310.00	10.00	0.00	167.90	0.00	45.30
999	99.60	705.20	959.40	0.00	304.80	9.80	0.00	196.00	0.00	30.12
1000	183.90	772.20	991.20	0.00	150.90	11.60	0.00	166.60	0.00	15.57
1001	129.70	785.30	882.60	166.60	141.90	10.90	0.00	173.50	0.00	44.61
1002	106.90	655.30	878.40	137.20	297.80	6.00	0.00	201.30	0.00	53.52
1003	0.00	774.00	870.00	164.20	321.30	4.60	0.00	190.50	0.00	57.22
1004	0.00	756.90	824.30	187.00	366.00	6.60	0.00	191.30	0.00	65.91
1005	100.40	804.90	825.10	128.90	279.80	9.50	0.00	172.40	0.00	52.83
1006	75.60	821.40	835.50	97.10	252.10	8.30	0.00	193.80	0.00	33.40
1007	150.40	728.90	1023.30	0.00	164.60	11.70	0.00	181.60	0.00	18.03
1008	0.00	697.70	1022.00	243.50	155.60	10.70	0.00	180.30	0.00	37.36
1009	146.40	709.70	828.70	188.00	160.20	11.30	0.00	203.20	0.00	35.31
1010	107.00	815.20	879.00	0.00	298.10	6.10	0.00	186.40	0.00	42.64
1011	126.50	736.60	860.50	0.00	317.90	5.70	0.00	209.70	0.00	40.06
1012	93.90	695.90	904.40	120.50	287.30	9.20	0.00	187.60	0.00	43.80
1013	0.00	790.00	881.60	166.40	325.60	8.90	0.00	174.00	0.00	61.24
1014	141.60	778.40	801.40	0.00	355.90	11.00	0.00	193.30	0.00	40.87
1015	160.90	735.60	866.90	206.50	132.00	5.50	0.00	178.90	0.00	33.31
1016	0.00	709.50	951.00	148.60	322.50	8.50	0.00	185.80	0.00	52.43
1017	200.10	846.00	849.30	0.00	164.20	12.60	0.00	181.20	0.00	15.09
1018	112.60	782.90	925.30	0.00	313.80	10.10	0.00	169.90	0.00	38.46
1019	127.90	779.70	870.10	0.00	321.40	11.50	0.00	182.50	0.00	37.27

1020	127.70	655.60	868.60	163.90	139.70	5.80	0.00	236.70	0.00	35.23
1021	0.00	829.50	907.90	121.00	288.40	7.00	0.00	177.40	0.00	42.14
1022	107.00	744.20	879.60	0.00	298.20	11.10	0.00	209.70	0.00	31.88
1023	86.50	790.40	832.60	111.00	264.50	5.90	0.00	195.50	0.00	41.54
1024	0.00	688.20	1049.30	250.00	159.80	12.20	0.00	168.40	0.00	39.46
1025	0.00	826.80	858.80	259.70	166.00	12.70	0.00	183.20	0.00	37.92
1026	90.30	768.30	870.10	116.00	276.40	8.90	0.00	179.60	0.00	44.28
1027	115.60	813.40	817.90	0.00	322.20	10.40	0.00	196.00	0.00	31.18
1028	108.60	780.00	892.40	139.40	148.50	6.10	0.00	192.70	0.00	23.70
1029	0.00	788.90	989.60	186.70	159.10	11.30	0.00	175.60	0.00	32.77
1030	78.30	761.50	864.50	100.50	260.90	8.60	0.00	200.60	0.00	32.40

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