MSC Artificial Intelligence Brunel University London

Assignment On

Нє	eart Disease Prediction Using Various Machine Learning Models
Module Code:	CS5812
Module Title: Pr	redictive Data Analysis
Assignment Title:	Predictive Data Analysis
Academic Year:	2021/2022
SUBMITTED BY	Y:
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1. Data description and research question.

Data background information

This heart disease dataset is curated by combining five popular heart disease datasets already available independently but not combined before. In this dataset, five heart datasets are combined with over 11 common features which makes it the largest heart disease dataset available so far for research purposes. The five datasets used for its curation are:

- Cleveland
- Hungarian
- Switzerland
- Long Beach VA
- Statlog (Heart) Data Set.

The original data came from: https://ieee-dataport.org/open-access/heart-disease-dataset-comprehensive

Data description

- 1. age Age, age in years (data type numeric)
- 2. sex Sex (data type binary):
 - 1 = male.
 - 0 = female.
- 3. chest pain type chest pain type (data type nominal):
 - Value: 1- Typical angina: chest pain-related decreased blood supply to the heart.
 - Value: 2 Atypical angina: chest pain not related to the heart.
 - Value:3 non-anginal pain: typically, esophageal spasms (non-heart related);
 - Value 4: Asymptomatic: chest pain not showing signs of disease.
- 4. resting blood pressure resting.bp.s (in mm Hg on admission to the hospital), (data type numeric):
 - anything above 130-140 is typically cause for concern.
- 5. serum cholesterol Cholesterol in mg/dl (data type numeric):
 - serum = LDL + HDL + .2 * triglycerides.
 - above 200 is cause for concern.
- 6. fasting blood sugar fasting blood sugar (1.0 > 120 mg/dl), (data type binary):
 - 1 = true.
 - 0 = files:
 - '>126' mg/dl signals diabetes.
- 7. resting electrocardiogram results -restecg results (data type nominal):
 - Value: 1 Nothing to note.
 - Value: 2 ST-T Wave abnormality:
 - can range from mild symptoms to severe problems.
 - signals non-normal heartbeat.
 - Value: 3 Possible or definite left ventricular hypertrophy:
 - Enlarged heart's main pumping chamber.
- 8. maximum heart rate achieved max heart rate (71 202), (data type numeric.
- 9. exercise-induced angina exercise angina (data type binary):

- 1 = yes.
- 0 = no.
- 10. oldpeak =ST oldpeak(depression induced by exercise relative to rest), (data type numeric):
 - looks at the stress on the heart during exercise.
 - unhealthy heart will stress more.
- 11. The slope of the peak exercise ST-segment ST slope (data type nominal):
 - Value: 1 Up sloping: better heart rate with exercise (uncommon).
 - Value: 2 Flat sloping: minimal change (typical healthy heart).
 - Value: 3 Down sloping: signs of an unhealthy heart.
- 12. target have disease or not (1=yes, 0=no) (= the predicted attribute) (data type binary)

Note: No personally identifiable information (PPI) can be found in the data set.

Research Question

In a statement:

Given clinical parameters about the patient, we can predict whether they have heart disease or not.

2. Data preparation and cleaning.

Each data point contains 11 features and there are 1191 data point in the original dataset e.g., $X = \{x1, x2, x3, ...x11\}$. I hypothesize that there is a structure in the dataset that would lead to the solution. The output would be the structural pattern (model, tree, etc.). Hence the complete representation can be said to be in matrix format. The data is represented as a table. Looking at the data dictionary I can see that the target or labels are numeric of interval/binary. This hints to me that the problem falls in the group of methods call classification and it belongs to a group of supervised learning. Logistics regression can also be used for classification problems. What I am going to look for is how the label (target values) are associated with each of the data points(concept).

In clinical epidemiological research, errors occur despite careful study design, conduct, and implementation of error-prevention strategies. Data cleaning intends to identify and correct these errors or at least minimize their impact on study results (*Data Cleaning: Detecting, Diagnosing, and Editing Data Abnormalities*, no date). This idea of data cleaning applies to all research areas. My data cleaning plan:

- 1. Detecting missing values.
- 2. Imputing missing values / removing incomplete instances.
- 3. Detecting duplicate values. This dataset is a merger of a few datasets, it may contain duplicates.
- 4. Removing duplicate instances. This would avoid biased learning.
- 5. Simple outlier detection using a box plot.
- 6. Remove outliers.

We first load the data calling the .csv function (data is a .csv file) and assign it to heart. Using the dim function heart.csv had 1190 observations and 12 features, and one of those features is the target variable. Using Diagnose(heart.csv), I observed that all the data types except one were an integer, and the exception was numeric. At this point I compare my finding to that of the data dictionary, focusing on whether the numeric data type could have been categorical or not. It was numerically based on the feature.

From the table, I can see that the Variables match the data type as given in the data dictionary above. For example, an age which is a variable match with its' type which is an integer, and this is true for all variables and types. There are no missing values. The unique count shows two values for the target feature, and this is correct, it seems all the other counts for this feature look good. There is a potential problem of having a duplicate since this data set is a merger of four different heart disease data sets. There is also a need to check for outliers. I then look at the centrality and call "diagnose_numeric" and this shows me mean, median, mode, Q1, Q3, min, max, and outlier figures. There are outliers. I should plot these features showing with outliers and without outliers visualizing them using a boxplot and histogram. Looking at the statistical dispersion, I can observe:

- Age positive skewness, Kurtosis none, min and max values look to be right.
- Sex negative skewness and outliers were present.
- Chest. pain.type negative skewness and outliers were present.
- Resting.bp.s negative skewness and outliers were present.
- Cholesterol negative skewness and outliers were present.
- Fasting. blood positive skewness and outliers were present.
- resting.ECG positive skewness
- max. heart. rate positive skewness and outliers were present. I will look into this further.
- exercise. again positive skewness
- oldpeak negative skewness
- ST.slope negative skewness and outliers were present.
- target negative skewness and this had a small imbalance.
- In general, the interquartile range 1 and 3 are small, which means that the data is clustered around the median.
- We have no categorical features.

It is now time to clean and prepare the data. Since both the function and the boxplot identified outliers, I have chosen to remove them based on this fact. The next step was to identify duplicate rows and remove them. After this process, the data frame remained with 1018 observations and 12 features. 477 had the disease and 541 did not have the disease. What we have is a balanced dataset.

3. Exploratory data analysis

The principal component analysis (PCA) variance plot showed that seven dimensions explain 80 percent of the information that is contained in the dataset. Looking at the loadings graph PC1 (Principal Component) vs PC2 as heart rate decreases, age increases, and chest pain increase so too do target increases. PC1 Vs PC2 had three groups and within the groups, each member was positively correlated to each other and negatively correlated to other group members. These features also dominate PC (principal component)1 and PC2. I shall seek to further investigate these variables later. The final data was then saved to "Clean_heart_data.csv" for further work to be done on Google Collab to carry out further exploration.

A scatter plot of max heart rate vs age shows that heart disease is densely populated in the sector with higher age. I then looked at a graph of heart disease versus chest pain. A bar chart with heart disease frequency per chest pain type two and three has more heart disease count. Finally, the correlation

matrix showed a strong relationship between target and St slop and exercise angina. The results seem to corroborate some of the findings in the PCA.

For the machine learning task, I have chosen to use Random Forest prediction. This model allows me to use high-dimensionality data, and this fact also applies to my deep learning model Artificial Neural Network.

Classification models are used to predict the class of an object, based on its features. The need for trusting computational predictions tends to be particularly strong in medical applications. (*Comprehensible classification models: a position paper: ACM SIGKDD Explorations Newsletter: Vol 15, No 1,* no date). Hence, the public trusts the models and we can use them. Given clinical parameters about a patient and as seen in the data described above the target variable is binary, we can build a model to predict whether they have heart disease or not (Concept I wish to learn). Early, accurate, and efficient diagnosis would allow for early treatment and reduce the impact of the disease on the quality of life of individuals. We have labeled data that is greater than 50 samples and it is of integers type and given that the target is binary it means that this is a binary classification problem.

4. Machine learning prediction

Random Forest Classifier.

Random Forest uses a tree-based topology. First, it randomly selects a subset of the training data. From this subset, it builds a decision tree. It is then used to predict the test data. To form the final prediction, the predictions from the decision trees are combined. The random forest uses the logistic function as the activation function. It maps input data to output classes.

Through training, Random Forest algorithm weights and biases are learned. An algorithm begins with a random set of weights and biases. Based on the training data, the weights and biases are adjusted. Weights and biases are used to make predictions based on the test data. Each tree contains a subsample of data and attributes. Patients with heart disease are the target variable. The model predicts whether a patient has heart disease at a cut point value (0 or 1). From what I read online 900 trees gave good results and that is what I would use for my model.

Here are my implementation steps:

I will split the data into x and y. "Y" will be assigned to the target variable. To ensure that the target is no longer in the dataset, I will view "x" in the dataset. I can now split the data into Test and Train, with Test size being 20%. Import Random Forest Classifier, build the model, fit the model, and predict.

Artificial Neural Network

My neural network is feed-forward. In this type of neural network, input data is passed through a series of hidden layers. A hidden layer would consist of several neurons, and each neuron's output would be passed on to the next layer. Each possible output would be represented by one neuron in the output layer. If someone has heart disease, the neural network will predict it.

A Sequential model with four dense layers was used to implement the ANN. In the first three layers, the 12 neurons were activated by 'ReLU'. As this is a binary classification problem, I will use a sigmoid

function to activate the output layer. The model was fitted with a batch size of 12 and 100 epochs. On x_train and x_test, features are scaled. In this scenario, features, weights, and biases could be calculated more quickly to obtain the value of a neuron. The computation of backpropagation would also be faster because the derivatives would be smaller, resulting in the gradient descent curve reaching global minima more quickly. For scaling, Keras' StandardScaler() is used.

ReLU returns the maximum of two values, either the value itself or zero. Hidden layers use the maximum value of the input data. Probability is calculated using the sigmoid function. Input data is used to calculate the probability that output data belongs to a certain class. Keras strongly suggests using the ReLU function with the kernel initializer "he_uniform" and the Sigmoid activation function with "glorot_uniform."

In place of the traditional stochastic gradient descent algorithm, I have chosen Adam as an optimization algorithm. It is a combination of the RMSprop and stochastic gradient descent with momentum algorithms. Also, to measure the distance between the predicted labels and the true labels I will use Binary cross entropy because this is a loss function used in binary classification problems as suggested by Keras documentation.

The ANN was implemented for heart disease classification using the following steps:

- 1. The data set was divided into training and testing sets (80/20 split).
- 2. The training set was used to train (build the model) the ANN.
- 3. Testing set was used to evaluate the performance of the ANN.
- 4. The results showed that the ANN was able to classify the heart diseases.
- 5. Performance evaluation and Discussion.

Figure. 1



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Figure 1 shows the overall accuracy, true negative rate, and true positive rate for a binary classification project. Both S.H(Sookchand Harripersad) and W.M(William Marshall) used the same dataset. However, William used 4 features (4072 training samples) and Sookchand used all twelve features. Sookchand RF (Random Forest) and ANN (Artificial Neural network) received 90.2% and 85.3% overall accuracy, respectively and both were higher than the William model's overall accuracy of 78.6% and 70% for both SVM (Support Vector Machine) and ANN respectively. It is a known fact that ANN requires massive training data due to the large number of parameters it needs to learn. William's choice to reduce the dataset to only four features as seen in the results reduces his model's performance.

We can also observe that TNR (true negative rate) and TPR (true positive rate) received higher scores for both Sookchand models even though SVM usually performs well. Since both Sookchand and Williams used ANN with the same number of layers, same activation function but with different sample sizes, we can deduce that the sample size resulted in poor performance. The principal component analysis (PCA) showed that 7 features accounted for 80% of the data (see variance plot). Hence William's model's poor performance for both models was due to his feature selection method. The four features he chose did not represent enough of the data which can be observed on the PCA variance plot.

Given that the dataset is balanced, accuracy is one of the measures whereby we can determine the best fit model. This means that we do not have to worry about the tradeoff concerning sensitivity and specificity with unbalanced data. Also, when considering the appropriateness of the model to the research question some things need to be addressed. We have a data set that is used to train and build a model to predict whether a person has heart disease. If a person gets a false positive reading that they have heart disease when they do not," it is much better than if they got a false-negative "reading they do not have heart disease when they do." It is more likely that the patient that got a false positive would get a second opinion to verify if the results were correct. However, a person that gets a false negative would go away thinking all is well and resulting in increased risk to the patient, etc. As seen in figure 1 RF received the best value TNR. The results show that the size of the training data plays an important role in determining how the models perform.

The random forest classifier used to make heart disease prediction confusion matrix results is [[90 10] [10 94]]. The results of the confusion matrix show that the random forest classifier was very accurate in its predictions. The classifier was able to correctly predict 90% of the cases of heart disease and 90% of the cases of no heart disease. However, there is still a 10% error rate, which means that the model is not perfect. In contrast to the other model, it is the best solution we have for predicting heart disease.

Since medical records are often incomplete the RF model is insensitive to this making it a good fit, unlike neural networks which can be sensitive to missing data. Another feature of RF that makes it a better fit than the neural network is that it can provide the features it used to make the prediction (new knowledge). Roßbach (no date) said "more recently, however, approaches have been developed to identify the most representative trees in an ensemble. Using their analysis, the ensemble can finally be interpreted." Hence, Random Forest results can be explained, unlike neural networks. The random forest can give you the features used to predict whereas a neural network is a black box.

Therefore, I would recommend the RF model because it has higher accuracy figures, an explain-ability component, new knowledge generation, and the ability to be widely applied regardless of whether the data is normally distributed. These are all necessary for my view for a heart disease model to answer

the research question. Lastly, the RF model can be used to predict unseen data (giving us new information).

6. Data management plan and Authorship

Please see the appendix under the section heading: <u>Data Management Plan for Research Students.</u>

"Authorship Contribution" statement (ACS): Mr. Sookchand Harripersad designed the data collection, performed the exploratory data analysis, and implemented and applied the random forest predictor and Artificial Neural Network predictor. William Marshall implemented and applied a support vector machine and an Artificial Neural Network predictor. Zeerak Jawed, Sadam Khan, and Rehab Musse did not participate or responded to any communication effort (please see attachment of all email communication).

Bibliography

Comprehensible classification models: a position paper: ACM SIGKDD Explorations Newsletter: Vol 15, No 1 (no date). Available at: https://dl.acm.org/doi/abs/10.1145/2594473.2594475 (Accessed: 10 March 2022).

Data Cleaning: Detecting, Diagnosing, and Editing Data Abnormalities (no date). Available at: https://journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.0020267 (Accessed: 14 March 2022).

Roßbach, D.P. (no date) 'Neural Networks vs. Random Forests – Does it always have to be Deep Learning?', p. 8.

Appendix





Data Management Plan for Research Students

1. Overview

Researcher: Sookchand Harripersad

Project title: Predictive Data Analysis

Project duration: 21 days

Project context:

What is the discipline and subject of your research?

Machine & Deep Learning project CS5812, Heart Disease Prediction

2. Defining your data/research sources

2.1 Where will your data/research sources come from?

The original data came from: https://ieee-dataport.org/open-access/heart-disease-dataset-comprehensive

2.2 How often will you get new data?

Continuously or just from discrete experiments? No other time will I get new data.

How many experiments per week? 2 experiments per week.

How will this change over time? All experiments will cease upon completion of the project.

2.3 How much data/information will you generate?

Try to state this in kB/MB/GB. I will generate approximately 1 G.

How much have you got so far? I have 39 K.





Try to estimate how this will grow for the rest of the project. It will not grow.

2.4 What file formats will you use?

What software is required to access the data? Are free/open alternatives available? Microsoft Excel, Google Collab, and RStudio will be used.

What type of data does each format hold? The file is a csv file.

3. Organising your data

3.1 How will you structure and name your folders and files?

Are there any set or recommended standards in your discipline? Heart and df are the names of the names I have chosen to use.

3.2 What additional information is required to understand each data file?

What would you need to know to reproduce the results from this data? Python and R are used for this project.

3.3 What different versions of each data file or source will your create?

How will you differentiate between different versions, for example do you plan to use files names to denote different versions, e.g. V1, V1.1, V2 etc? The file name Heart is the clean file and it is imported into Google Collab and assigned to the name df.





4. Looking after your data

4.1 Where will you store your data?

Laptop? USB drive? Network storage? In the cloud? The date will be stored on my laptop.

4.2 How will your data be backed up?

How many copies? I will make two copies.

Where are they stored? Both copies will be stored on the laptop.

How often are copies updated? No update to copies will be done.

4.3 How will you test whether you can restore from your backups?

I will not be using the back, therefore it will be in its original form.

5. Sharing your data

5.1 Who owns the data you generate?

Is it you? Your supervisor? The University? An external partner? The university will be the owners of the data being generated.

5.2 Who else has a right to see or use this data?

Your supervisor, collaborators, group members? The examiners and my group mates will have access to the data.

5.3 Who else should reasonably have access to this data when you share it?

Readers of your published work? The General Public? No one else.





5.4 What should/shouldn't be shared and why?

Consider any ethical, legal, or commercial restrictions that may affect what you share, how you share it and who you share it with? This data is stored in a public database for anyone to use. This dataset does not contain any personal Data. Hence, there are no concerns.

6. Archiving your data

6.1 What should be archived beyond the end of your project?

Everything? Just what you use for your thesis? Just what I sued for the thesis.

6.2 For how long should it be stored?

EPSRC guidelines say, "10 years from the date of last access". 10 years.

6.3 When will files be moved into the data archive/repository?

As you complete the analysis of each file? When do you submit your thesis? Upon submission of a thesis on 25/04/2022.

6.4 Where will the data be stored?

Disciplinary repository (e.g. crystallography databases)? X drive? Opus? I will not store the data.

6.5 Who is responsible for moving data to the data archive and maintaining it?

You? Your supervisor? The University? The university.





6.6 Who should have access and under what conditions?
2.7/
Are there any embargoes necessary? There are no embargoes.
7. Executing your plan
7.1 Who is responsible for making sure this plan is followed?
You may wish to discuss and agree this with your supervisor. The supervisor.
7.2 How often will this plan be reviewed and updated?
You may wish to discuss and agree this with your supervisor. The supervisor will decide this.
and the second s
7.3 What actions have you identified from the rest of this plan?
List them here with timescales. None.
7.4 What further information do you need to carry out these actions?
Where can you find this information?
Who might you be able to ask?





Notes on completing this form

- Type as much (or as little) as you feel you need to into each box: it will expand to accommodate what you write;
- o You can leave or remove the prompts in grey once you're done;
- o For help with completing this DMP, please contact researchdata@brunel.ac.uk

Integrated Assesment

S.Harripersad

09/02/2022

R Markdown

Evaluation

If we can reach 95% accuracy at predicting whether or not a patient has heart disease during the proof of concept, we'll pursue the project.

Predicting Heart disease using machine learning

This notebook looks into using various Python-based machine-learning and data science libraries in attempt to build a machine learning model capable of predicting whether or not someone has heart disease based on their medical attribute.

I am going to take the following approach: 1. Problem Definition. 2. Data. 3. Evaluation. 4. Features. 5. Modelling. 6. Experimentation

Problem Definition

In a statement: Given clinical parameters about a patient, can we predict whether our not they have heart disease.

Data

This heart disease dataset is curated by combining 5 popular heart disease datasets already available independently but not combined before. In this dataset, 5 heart datasets are combined over 11 common features which makes it the largest heart disease dataset available so far for research purposes. The five datasets used for its curation are:

- Cleveland
- Hungarian
- Switzerland
- Long Beach VA
- Statlog (Heart) Data Set.

The original data came from: https://ieee-dataport.org/open-access/heart-disease-dataset-comprehensive

Data Description - Features

##Create Data Dictionary

- 1. age Age, age in years(data type numeric)
- 2. sex Sex(data type binary):
 - 1 = male:
 - 0 = female.
- 3. chest pain type chest pain type(data type nominal):
 - Value: 1- Typical angina: chest pain related decrease blood supply to the heart;
 - Value: 2 Atypical angina: chest pain not related to heart;
 - Value: 3 Non-anginal pain: typically esophageal spasms (non heart related);
 - Value: 4 Asymptomatic: chest pain not showing signs of disease.
- 4. resting blood pressure resting bp s(in mm Hg on admission to the hospital), (data type numeric):
 - anything above 130-140 is typically cause for concern.
- 5. serum cholesterol Cholesterol in mg/dl(data type numeric):
 - serum = LDL + HDL + .2 * triglycerides;
 - above 200 is cause for concern;
- 6. fasting blood sugar fasting blood sugar (1,0 > 120 mg/dl), (data type binary):
 - 1 = true;
 - 0 = false:
 - '>126' mg/dL signals diabetes.
- 7. resting electrocardiogram results -restecg results(data type nominal):
 - Value: 1 Nothing to note;
 - Value: 2 ST-T Wave abnormality:
 - can range from mild symptoms to severe problems;
 - signals non-normal heart beat.
 - Value: 3 Possible or definite left ventricular hypertrophy:
 - Enlarged heart's main pumping chamber.
- 8. maximum heart rate achieved max heart rate(71 202), (data type numeric)
- 9. exercise induced angina exercise angina (data type binary):
 - 1 = ves:
 - -0 = no.
- 10. oldpeak = ST oldpeak(depression induced by exercise relative to rest), (data type numeric):
 - looks at stress of heart during exercise;
 - unhealthy heart will stress more.
- 11. the slope of the peak exercise ST segment ST slope(data type nominal):
 - Value: 1 Up sloping: better heart rate with exercise (uncommon);
 - Value: 2 Flat sloping: minimal change (typical healthy heart);
 - Value: 3 Down sloping: signs of unhealthy heart.
- 12. target have disease or not (1=yes, 0=no) (= the predicted attribute) (data type binary)

Note: No personal identifiable information (PPI) can be found in the data set.

```
# install the caret, rpart and ROCR packages from CRAN
if(require(caret) == FALSE){
  install.packages('caret', dependencies = TRUE)
  library(caret)
}
## Loading required package: caret
## Loading required package: ggplot2
## Loading required package: lattice
if(require(rpart) == FALSE){
  install.packages('rpart')
  library(rpart)
}
## Loading required package: rpart
if(require(ROCR) == FALSE){
  install.packages('ROCR')
  library(ROCR)
}
## Loading required package: ROCR
# for a full list of models available in the caret packages:
# http://topepo.github.io/caret/available-models.html
# for each model the list of tunable parameters is available
# from the caret command modelLookup
```

Loading package

```
library(dplyr) #A Grammar of Data Manipulation

##

## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':

##

## filter, lag

## The following objects are masked from 'package:base':

##

## intersect, setdiff, setequal, union

library(tibble) #modern take on data frames.

library(dlookr) #Tools for Data Diagnosis, Exploration, Transformation (main Library)
```

```
##
## Attaching package: 'dlookr'
## The following object is masked from 'package:base':
##
##
      transform
library(tidyverse)
## -- Attaching packages ------ tidyverse
1.3.1 --
## v tidyr
                      v stringr 1.4.0
            1.2.0
## v readr 2.1.2
                      v forcats 0.5.1
## v purrr
            0.3.4
## -- Conflicts -----
tidyverse conflicts() --
## x tidyr::extract() masks dlookr::extract()
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
## x purrr::lift() masks caret::lift()
library(flextable)
##
## Attaching package: 'flextable'
## The following object is masked from 'package:purrr':
##
##
      compose
library(Hmisc)
## Loading required package: survival
##
## Attaching package: 'survival'
## The following object is masked from 'package:caret':
##
##
      cluster
## Loading required package: Formula
##
## Attaching package: 'Hmisc'
## The following object is masked from 'package:dlookr':
##
      describe
##
```

```
## The following objects are masked from 'package:dplyr':
##
##
       src, summarize
## The following objects are masked from 'package:base':
##
##
       format.pval, units
library(prettydoc)
library(corrr)
##
## Attaching package: 'corrr'
## The following object is masked from 'package:dlookr':
##
##
       correlate
library(parsnip)
##
## Attaching package: 'parsnip'
## The following object is masked from 'package:Hmisc':
##
##
       translate
library(broom)
library(yardstick)
## For binary classification, the first factor level is assumed to be the
event.
## Use the argument `event_level = "second"` to alter this as needed.
##
## Attaching package: 'yardstick'
## The following object is masked from 'package:readr':
##
##
       spec
## The following objects are masked from 'package:caret':
##
##
       precision, recall, sensitivity, specificity
library(caret)
library(datarium)
library(ROCR)
library(forecast)
## Registered S3 method overwritten by 'quantmod':
##
     method
                       from
##
     as.zoo.data.frame zoo
```

```
##
## Attaching package: 'forecast'
## The following object is masked from 'package:yardstick':
##
##
       accuracy
library(rms)
## Loading required package: SparseM
## Attaching package: 'SparseM'
## The following object is masked from 'package:base':
##
##
       backsolve
library(janitor)
##
## Attaching package: 'janitor'
## The following objects are masked from 'package:stats':
##
       chisq.test, fisher.test
##
library(vtree)
2. Data exploration and preparation
# read the data from a .csv file
heart <- read.csv("heart_statlog_cleveland_hungary_final.csv",na.strings =</pre>
c("NA", ""))
dim(heart)
## [1] 1190
              12
# inspect the data
```

diagnose(heart) %>% flextable()

variable s	types	missing_ count	missing_ percent	unique_ count	unique_r ate
age	integer	0	0	50	0.04201 6807
sex	integer	0	0	2	0.00168 0672
chest.pa in.type	integer	0	0	4	0.00336 1345
resting.b p.s	integer	0	0	67	0.05630 2521
choleste rol	integer	0	0	222	0.18655 4622
fasting.b lood.sug ar	integer	0	0	2	0.00168 0672
resting.e cg	integer	0	0	3	0.00252 1008
max.hea rt.rate	integer	0	0	119	0.10000 0000
exercise .angina	integer	0	0	2	0.00168 0672
oldpeak	numeric	0	0	53	0.04453 7815
ST.slope	integer	0	0	4	0.00336 1345
target	integer	0	0	2	0.00168 0672

From the table above I can see that the Variables matches the data type as given in the data dictionary above. For example age which is a variable matches with its' type which is an integer(numeric) and this is true for all variables and types. There are no missing values. There is a potential problem of having duplicate since this data set is a merger of four different heart disease data set. There is also a need to check for ouliers.

Numeric value analysis

diagnose_numeric(heart) %>% flextable()

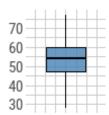
variable s	min	Q1	mean	median	Q3	max	zero	minus	outlier
age	28.0	47	53.7201 681	54.0	60.00	77.0	0	0	0
sex	0.0	1	0.76386 55	1.0	1.00	1.0	281	0	281
chest.pa in.type	1.0	3	3.23277 31	4.0	4.00	4.0	0	0	66
resting.b p.s	0.0	120	132.153 7815	130.0	140.00	200.0	1	0	37
choleste rol	0.0	188	210.363 8655	229.0	269.75	603.0	172	0	192
fasting.b lood.sug ar	0.0	0	0.21344 54	0.0	0.00	1.0	936	0	254
resting.e cg	0.0	0	0.69831 93	0.0	2.00	2.0	684	0	0
max.hea rt.rate	60.0	121	139.732 7731	140.5	160.00	202.0	0	0	1
exercise .angina	0.0	0	0.38739 50	0.0	1.00	1.0	729	0	0
oldpeak	-2.6	0	0.92277 31	0.6	1.60	6.2	455	13	11
ST.slope	0.0	1	1.62436 97	2.0	2.00	3.0	1	0	0
target	0.0	0	0.52857 14	1.0	1.00	1.0	561	0	0

Plotting for each feature.

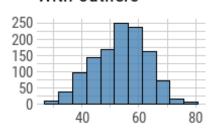
plot_outlier(heart)

Outlier Diagnosis Plot (age)

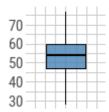
With outliers



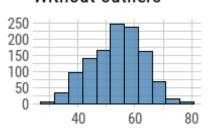
With outliers



Without outliers

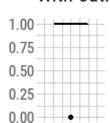


Without outliers

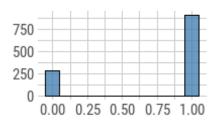


Outlier Diagnosis Plot (sex)

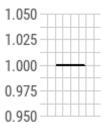
With outliers



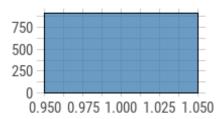
With outliers



Without outliers

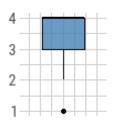


Without outliers

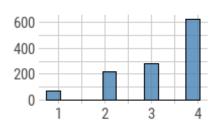


Outlier Diagnosis Plot (chest.pain.type)

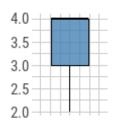
With outliers



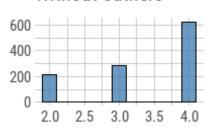
With outliers



Without outliers

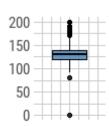


Without outliers

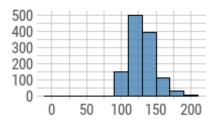


Outlier Diagnosis Plot (resting.bp.s)

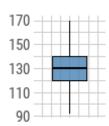
With outliers



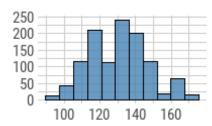
With outliers



Without outliers

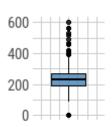


Without outliers

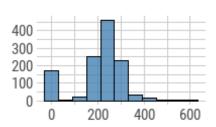


Outlier Diagnosis Plot (cholesterol)

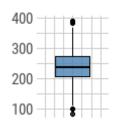
With outliers



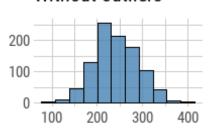
With outliers



Without outliers

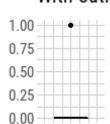


Without outliers

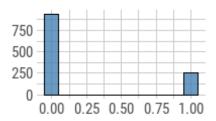


Outlier Diagnosis Plot (fasting.blood.sugar)

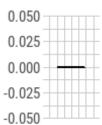
With outliers



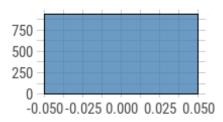
With outliers



Without outliers



Without outliers

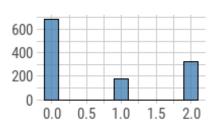


Outlier Diagnosis Plot (resting.ecg)

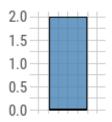
With outliers

2.0 1.5 1.0 0.5 0.0

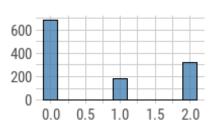
With outliers



Without outliers

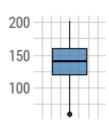


Without outliers

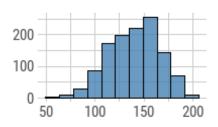


Outlier Diagnosis Plot (max.heart.rate)

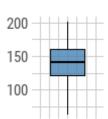
With outliers



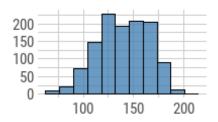
With outliers



Without outliers

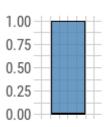


Without outliers

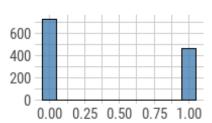


Outlier Diagnosis Plot (exercise.angina)

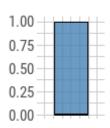
With outliers



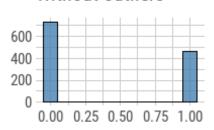
With outliers



Without outliers

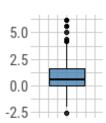


Without outliers

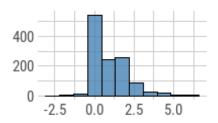


Outlier Diagnosis Plot (oldpeak)

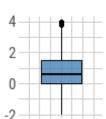
With outliers



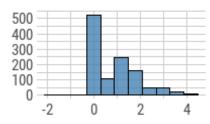
With outliers



Without outliers



Without outliers

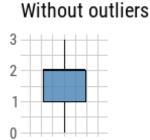


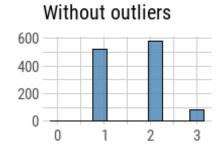
Outlier Diagnosis Plot (ST.slope)

With outliers

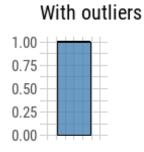
With outliers

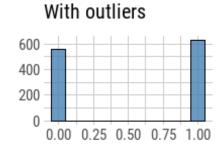
600
400
200
0 1 2 3

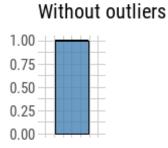


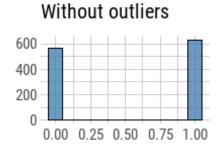


Outlier Diagnosis Plot (target)









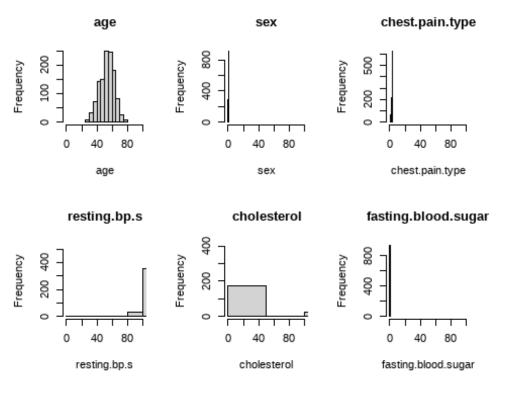
Upon analysis of this table I can see several problem: 1. Variables with outliers include: * sex; * chest.pain.type * resting.bp.s * cholesterol * fasting.blood.sugar; * max heart.rate; * ST.slop

- 2. Missing values:
- cholesterol = 0. This data is numeric and no one alive has a cholesterol reading 0 mg/dl. It means that this most likely was missing data that was given a value of 0.

Lets us plot the outliers

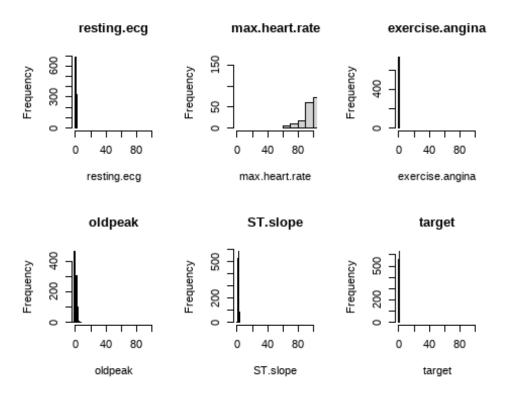
#Graphical Analysis

```
# generate a histogram for each variable (and show them on the same page)
    note: titles and x labels are set to the name of the relevant variable
opar <- par(no.readonly = TRUE)</pre>
par(mfrow = c(2,3))
hist(heart[, 1], main = names(heart)[1], xlab = names(heart)[1], xlim =
c(0,100)
hist(heart[, 2], main = names(heart)[2], xlab = names(heart)[2], xlim =
c(0,100)
hist(heart[, 3], main = names(heart)[3], xlab = names(heart)[3], xlim =
c(0,100)
hist(heart[, 4], main = names(heart)[4], xlab = names(heart)[4], xlim =
c(0,100)
hist(heart[, 5], main = names(heart)[5], xlab = names(heart)[5], xlim =
c(0,100)
hist(heart[, 6], main = names(heart)[6], xlab = names(heart)[6], xlim =
c(0,100)
```

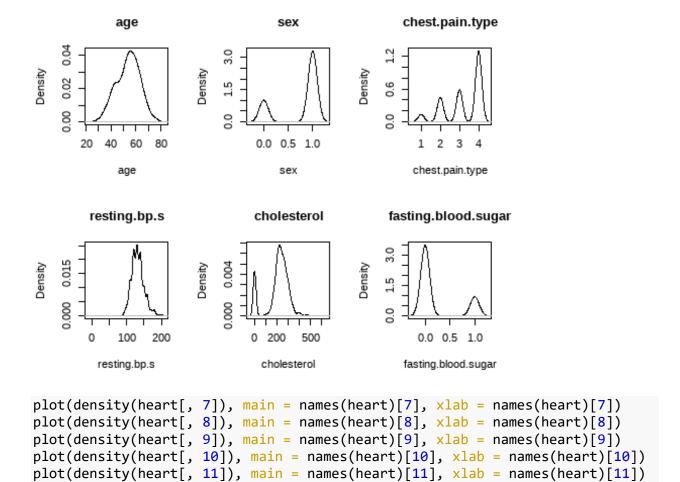


```
hist(heart[, 7], main = names(heart)[7], xlab = names(heart)[7], xlim =
c(0,100))
```

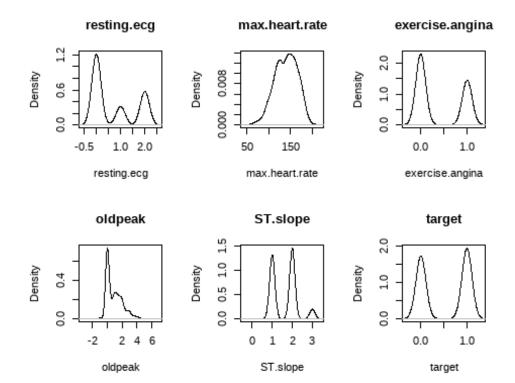
```
hist(heart[, 8], main = names(heart)[8], xlab = names(heart)[8], xlim =
c(0,100))
hist(heart[, 9], main = names(heart)[9], xlab = names(heart)[9], xlim =
c(0,100))
hist(heart[, 10], main = names(heart)[10], xlab = names(heart)[10], xlim =
c(0,100))
hist(heart[, 11], main = names(heart)[11], xlab = names(heart)[11], xlim =
c(0,100))
hist(heart[, 12], main = names(heart)[12], xlab = names(heart)[12], xlim =
c(0,100))
```



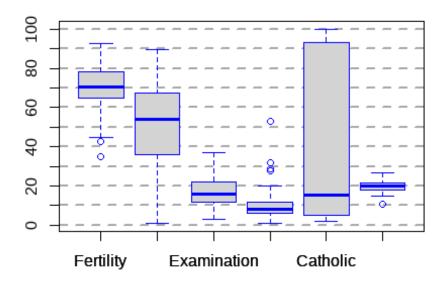
```
# generate a density plot for each variable (and show them on the same page)
# note: kernel density estimation may have tails outside the variable
range!
opar <- par(no.readonly = TRUE)
par(mfrow = c(2,3))
plot(density(heart[, 1]), main = names(heart)[1], xlab = names(heart)[1])
plot(density(heart[, 2]), main = names(heart)[2], xlab = names(heart)[2])
plot(density(heart[, 3]), main = names(heart)[3], xlab = names(heart)[3])
plot(density(heart[, 4]), main = names(heart)[4], xlab = names(heart)[4])
plot(density(heart[, 5]), main = names(heart)[5], xlab = names(heart)[5])
plot(density(heart[, 6]), main = names(heart)[6], xlab = names(heart)[6])</pre>
```



plot(density(heart[, 12]), main = names(heart)[12], xlab = names(heart)[12])



```
par(opar)
# generate a boxplot graph including horizontal background dashed lines
    note: this can be done by
#
      1. plotting an empty graph, i.e. with white boxes
#
      2. adding the background dashed lines
      3. plotting the coloured boxplot with the option add = T
opar <- par(no.readonly = TRUE)</pre>
boxplot(
  swiss,
  border = 'white',
  yaxt = 'n'
)
abline(h = seq(0,100,10), lty = 'dashed', lwd = 2, col = 'darkgrey')
boxplot(
  swiss,
  border = 'blue',
  yaxt = 'n',
  add = T
)
axis(2, seq(0,100,10))
```



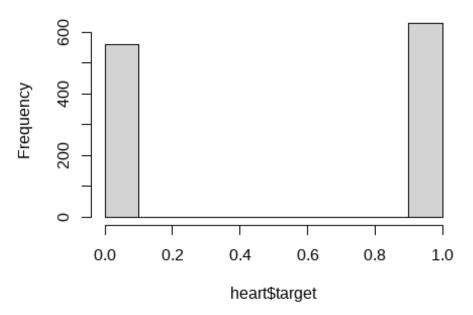
par(opar)

Age - positive skewness, Kurtosis none Sex - negative skewness Chest.pain.type - negative skewness Resting.bp.s - negative skewness Cholesterol - negative skewness Fasting.blood - positive skewness resting.ecg - positive skewness max.heart.rate - positive skewness exercise.agina - positive skewness oldpeak - negative skewness ST.slope - negative skewness target - negative skewness

The plots confirms that the ouliers do exist in the seven features mentioend above.

hist(heart\$target)

Histogram of heart\$target



Those suffering from heart disease is greater in numbers versus those that is not. I wonder will a gender analysis show. Looking at it below. For men there is a greater percentage of men having the disease than women.

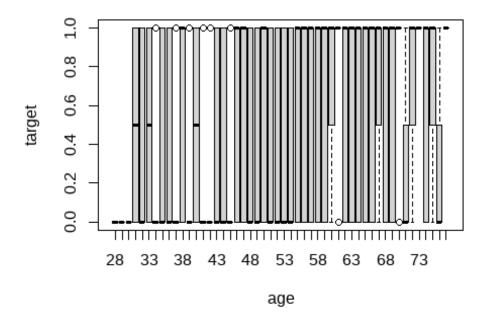
```
tabyl(heart, sex, target)
## sex 0 1
## 0 211 70
## 1 350 559
```

Detecting missing/incorect data as identified in the variable cholesterol and identification of outliers.

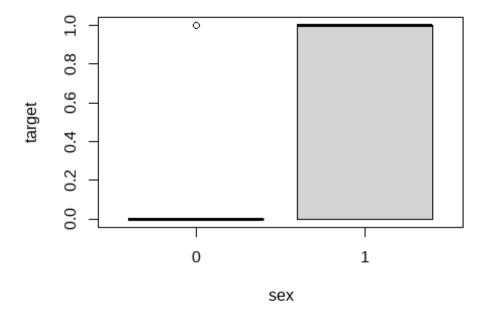
After cleaning the data

```
# Identifying which values == 0 in this column
# heart$cholesterol == 0 will give all values = 0 as True and the rest as
false.
# Passing the above result to the column and replacing with NA
heart$cholesterol[heart$cholesterol == 0] <- NA
# Removing all instance of NA
heart_clean <- na.omit(heart)
# Check the size
dim(heart)
## [1] 1190 12</pre>
```

```
dim(heart_clean)
## [1] 1018    12
boxplot(target ~ age, data = heart)
```



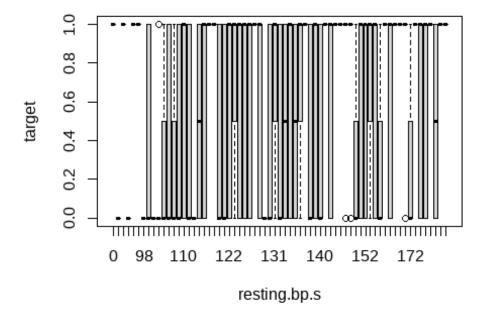
boxplot(target ~ sex, data = heart)



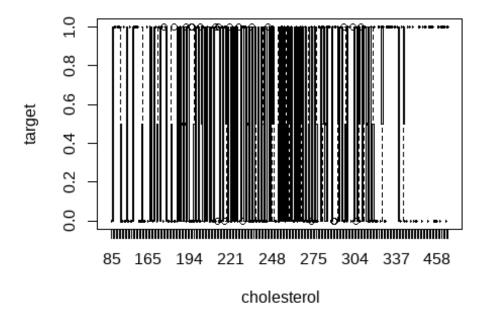
boxplot(target ~ chest.pain.type, data = heart)



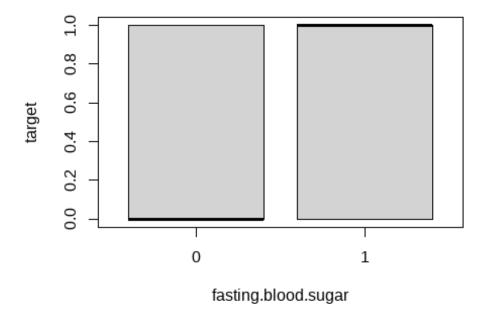
boxplot(target ~ resting.bp.s, data = heart)



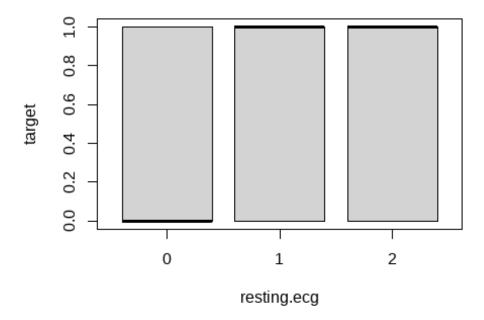
boxplot(target ~ cholesterol, data = heart)



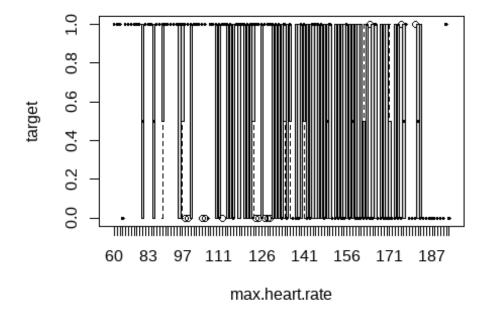
boxplot(target ~ fasting.blood.sugar, data = heart)



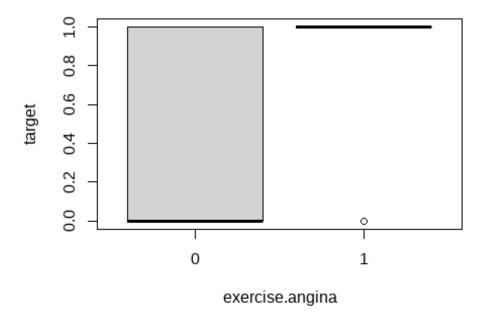
boxplot(target ~ resting.ecg, data = heart)



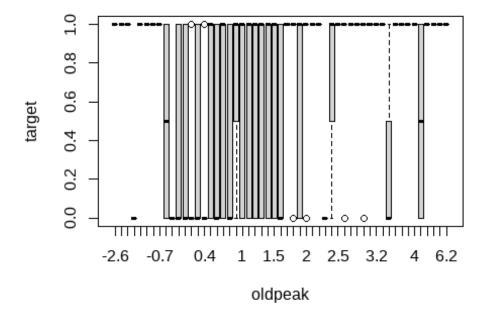
boxplot(target ~ max.heart.rate, data = heart)



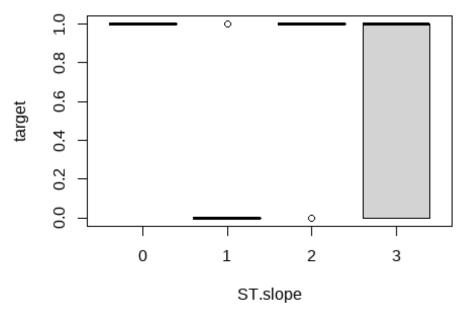
boxplot(target ~ exercise.angina, data = heart)



boxplot(target ~ oldpeak, data = heart)



boxplot(target ~ ST.slope, data = heart)

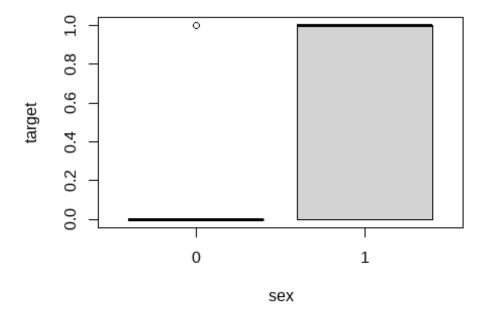


Boxplot analysis has confirm what numeric analysis table showed us and that is we have 7 variables with

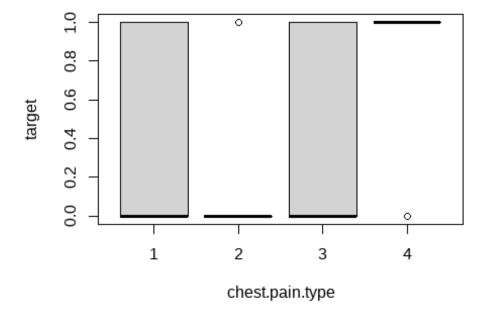
outliers. Variables with outliers include: * sex; * chest.pain.type * resting.bp.s * cholesterol * fasting.blood.sugar; * max heart.rate; * ST.slop

I have chosen to remove outliers as identified by the boxplot analysis.

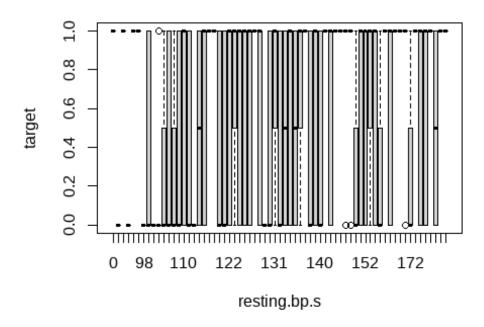
```
# outliers was detected above using boxplot
# note: the boxplot command returns a summary statistics object
# this object can be assigned to a variable and inspected
heart_sex_boxplot <-boxplot(target ~ sex, data = heart)</pre>
```



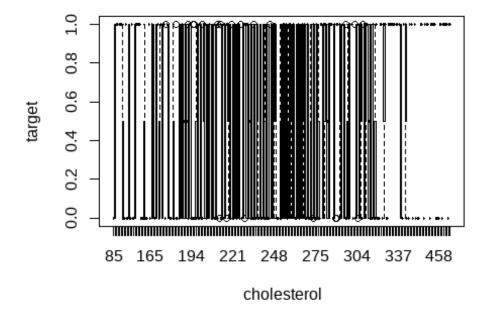
heart_cpt_boxplot <-boxplot(target ~ chest.pain.type, data = heart)</pre>



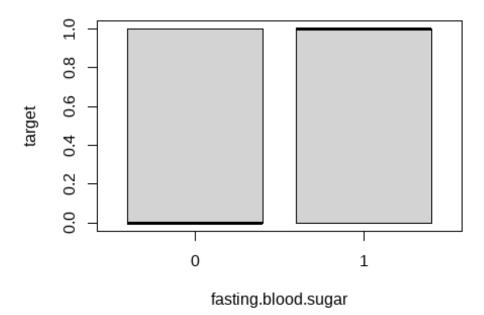
heart_rbps_boxplot <-boxplot(target ~ resting.bp.s, data = heart)</pre>



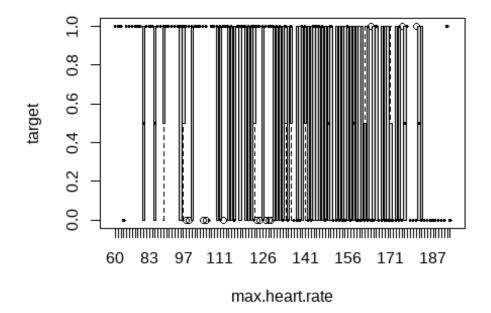
heart_chol_boxplot <-boxplot(target ~ cholesterol, data = heart)</pre>



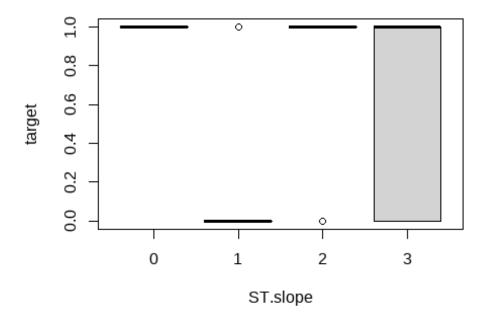
heart_fbs_boxplot <-boxplot(target ~ fasting.blood.sugar, data = heart)</pre>



heart_mhr_boxplot <-boxplot(target ~ max.heart.rate, data = heart)</pre>



heart_STs_boxplot <-boxplot(target ~ ST.slope, data = heart)</pre>



```
# inspect the boxplot statistics
# note: the returened value is a list object
heart_sex_boxplot
## $stats
##
     [,1] [,2]
## [1,]
      0
         0
## [2,]
         0
      0
        1
## [3,]
      0
## [4,]
     0 1
     0 1
## [5,]
##
## $n
## [1] 281 909
##
## $conf
## [,1]
           [,2]
## [1,] 0 0.9475947
## [2,] 0 1.0524053
##
## $out
##
## $group
1 1 1
##
## $names
## [1] "0" "1"
heart_cpt_boxplot
## $stats
##
     [,1] [,2] [,3] [,4]
## [1,]
      0
         0
## [2,]
      0
         0
             0
                1
         0
## [3,]
      0
             0
               1
## [4,]
      1
         0
             1
                1
      1
         0
             1
                1
## [5,]
##
## $n
## [1] 66 216 283 625
##
## $conf
        [,1] [,2]
                   [,3] [,4]
## [1,] -0.1944846 0 -0.09392125
## [2,] 0.1944846 0 0.09392125
```

```
##
## $out
  ##
0 0 0
0 0 0
000
0 0 0
##
## $group
 ##
4 4 4
4 4 4
4 4 4
##
## $names
## [1] "1" "2" "3" "4"
heart rbps boxplot
## $stats
    [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13]
##
\lceil,14\rceil
## [1,]
     1
       0
          1
            0
               1
                 1
                    0
                      0
                        0
                           0
                             0.0
                                 0
                                   0.0
                             0.0
                                   0.0
## [2,]
     1
       0
          1
            0
               1
                 1
                    0
                      0
                        0
                           0
                                 0
0
                                   0.0
## [3,]
       0
          1
            0
               1
                 1
                    0
                      0
                        0
                           0
                             0.0
                                 0
     1
## [4,]
     1
       0
          1
            0
               1
                 1
                    0
                      1
                        0
                             0.5
                                 1
                                   0.5
1
## [5,]
          1
            0
                 1
                    0
                           0
                             1.0
                                 1
                                   1.0
     1
       0
               1
                      1
                        0
1
    [,15] [,16] [,17] [,18] [,19] [,20] [,21] [,22] [,23] [,24] [,25]
##
[,26]
## [1,]
        0
           0
             0.0
                 0
                       1
                             0
                                0
                                  0.0
     0
                    1
                          0
0
## [2,]
           0
             0.0
                 0
                       1
                          0
                             0
                                0
                                  0.5
     0
        0
                    1
0
## [3,]
        0
           0
             0.5
                 1
                    1
                       1
                          0
                             0
                                1
                                  1.0
           0
             1.0
                       1
                          1
                             1
## [4,] 1
        1
                 1
                    1
                                  1.0
```

```
1
## [5,] 1
                   1
                         0
                              1.0
                                      1
                                             1
                                                   1
                                                          1
                                                                1
                                                                       1
                                                                           1.0
1
        [,27] [,28] [,29] [,30] [,31] [,32] [,33] [,34] [,35] [,36] [,37]
##
[,38]
## [1,]
             0
                   0
                          1
                                0
                                       0
                                             0
                                                 0.0
                                                              0.0
                                                                           0.0
0.0
## [2,]
             0
                   0
                          1
                                0
                                       0
                                             0
                                                 0.5
                                                          0
                                                              0.0
                                                                       0
                                                                           0.0
0.5
## [3,]
                   1
                                       0
                                             0
                                                                           0.5
             1
                          1
                                1
                                                 1.0
                                                          0
                                                               0.5
                                                                       1
1.0
## [4,]
             1
                   1
                         1
                                1
                                      0
                                             1
                                                 1.0
                                                          1
                                                              1.0
                                                                       1
                                                                           1.0
1.0
## [5,]
             1
                   1
                          1
                                1
                                       0
                                             1
                                                 1.0
                                                          1
                                                              1.0
                                                                       1
                                                                           1.0
1.0
##
        [,39] [,40] [,41] [,42] [,43] [,44] [,45] [,46] [,47] [,48] [,49]
[,50]
## [1,]
                   0
                          0
                                0
                                       1
                                             0
                                                   1
                                                          1
                                                                 1
                                                                       1
                                                                           0.0
             1
0
                                                   1
                                                                           0.0
## [2,]
             1
                   0
                          0
                                0
                                       1
                                             0
                                                          1
                                                                 1
                                                                       1
## [3,]
             1
                   0
                          1
                                0
                                       1
                                             1
                                                   1
                                                          1
                                                                 1
                                                                       1
                                                                           0.0
1
## [4,]
             1
                   1
                          1
                                1
                                       1
                                             1
                                                    1
                                                                 1
                                                                       1
                                                                           0.5
1
## [5,]
             1
                   1
                         1
                                1
                                       1
                                             1
                                                   1
                                                          1
                                                                 1
                                                                       1
                                                                           1.0
1
        [,51] [,52] [,53] [,54] [,55] [,56] [,57] [,58] [,59] [,60] [,61]
##
[,62]
## [1,]
            0
                 0.0
                          0
                              0.0
                                       1
                                             0
                                                   1
                                                          1
                                                                 1
                                                                     0.0
                                                                             1
0
## [2,]
                                                   1
                                                                     0.0
                                                                             1
             0
                 0.5
                          0
                              0.0
                                             0
                                                          1
0
                                                                     0.0
## [3,]
                          1
                              0.0
                                       1
                                                   1
                                                          1
                                                                 1
                                                                             1
             1
                 1.0
                                             1
1
## [4,]
                 1.0
                         1
                              0.5
                                       1
                                             1
                                                   1
                                                          1
                                                                 1
                                                                     0.5
                                                                             1
             1
1
## [5,]
             1
                 1.0
                         1
                              1.0
                                       1
                                             1
                                                   1
                                                          1
                                                                 1
                                                                     1.0
                                                                             1
1
##
        [,63] [,64] [,65] [,66] [,67]
## [1,]
             0
                   1
                       0.0
                                1
                                       1
## [2,]
             0
                   1
                       0.0
                                1
                                       1
## [3,]
                                       1
             1
                   1
                       0.5
                                1
             1
                       1.0
                                       1
## [4,]
                   1
                                1
             1
                   1
                       1.0
                                1
                                       1
## [5,]
##
## $n
## [1]
               1
                   1
                       4
                            6
                                1
                                    1 19
                                             2
                                                 5
                                                      4 12
                                                              4 13
                                                                     76 23
                                                                                1
          1
2 22
                                                 1 27 2 149 4
                                                                     23 6
                                                                              15
## [20]
         2 2 17 166 15 3 17 39
                                            10
```

```
26 16
## [39] 5 26
                            9 23
                                    3 73 11
                                             3
                                                 9 3
                                                        5
             5 137
                   3 14
                         2
                                  5
61 1
                            2
## [58]
       3 16
             3
                2
                   5 15
                         1
                               2
                                  5
##
## $conf
## [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11]
[,12]
                               0 -0.3624769
            0
               1
                   0
                           1
                                           0
                                               0 -0.395 -
## [1,]
                       1
0.4561067
               1
                       1
                           1
                               0 0.3624769 0
                                               0 0.395
## [2,]
        1
0.4561067
      [,13] [,14] [,15] [,16] [,17] [,18] [,19]
[,20]
## [1,] -0.395 -0.4382132 0.8187616 -0.3294528 0 -0.6172287 0.6631429
## [2,] 0.395 0.4382132 1.1812384 0.3294528 0 1.6172287 1.3368571
    [,21] [,22]
                     [,23] [,24] [,25]
                                             [,26]
## [1,]
       1 -0.3832063 -0.1226318 0.5920458 0.5438933 0.6167937 0.7469975
## [2,]
        1 0.3832063 0.1226318 1.4079542 1.4561067 1.3832063 1.2530025
        [,28] [,29] [,30] [,31] [,32] [,33]
[,35]
0.1450323
1.1450323
##
         [,36] [,37] [,38] [,39] [,40] [,41] [,42]
[,43]
## [1,] 0.5920458 0.1901365 0.8025 1 -0.3098635 0.2934025 -0.1349885
## [2,] 1.4079542 0.8098635 1.1975 1 0.3098635 1.7065975 0.1349885
         [,44] [,45] [,46] [,47] [,48] [,50] [,51]
##
[,52]
                         1
                             1 -0.4561067 0.815075 0.5236121
## [1,] 0.5777272
                1
                     1
0.5438933
                     1 1 0.4561067 1.184925 1.4763879
## [2,] 1.4222728 1
1.4561067
        [,53] [,54] [,55] [,56] [,57] [,58] [,59] [,60]
[,61]
## [1,] 0.4733333 -0.4561067 1 0.7977017
                                     1
                                         1
                                              1 -0.4561067
1
##
         [,62] [,63] [,64] [,65] [,66] [,67]
## [1,] 0.2934025 0.5920458 1 -0.6172287
                                     1
                                         1
## [2,] 1.7065975 1.4079542
                      1 1.6172287
                                     1
                                         1
##
## $out
```

```
## [1] 1 0 0 0 0 0 0 0 0
##
## $group
## [1] 10 47 47 47 48 59 59 59
##
## $names
              "80" "92" "94" "95" "96" "98" "100" "101" "102" "104"
## [1] "0"
"105"
## [13] "106" "108" "110" "112" "113" "114" "115" "116" "117" "118" "120"
"122"
## [25] "123" "124" "125" "126" "127" "128" "129" "130" "131" "132" "133"
## [37] "135" "136" "137" "138" "139" "140" "141" "142" "143" "144" "145"
## [49] "148" "150" "152" "154" "155" "156" "158" "160" "164" "165" "170"
## [61] "174" "178" "180" "185" "190" "192" "200"
heart_chol_boxplot
## $stats
        [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13]
[,14]
           0.0
                      1
                           1
                                1
                                        0.0
                                                0
                                                     1
                                                            0
                                                                0.0
                                                                        0
## [1,]
                                      1
                                                                               1
## [2,]
              0.0
                      1
                           1
                                1
                                         0.0
                                                     1
                                                                0.0
                                                                        0
                                                                               1
                                                                0.5
## [3,]
              0.5
                      1
                           1
                                1
                                         0.0
                                                0
                                                     1
                                                            0
                                                                        0
                                                                               1
## [4,]
              1.0
                      1
                           1
                                1
                                         0.5
                                                                1.0
                                                                        0
                                                                               1
## [5,]
              1.0
                      1
                           1
                                1
                                      1
                                         1.0
                                                0
                                                     1
                                                            0
                                                                1.0
                                                                        0
                                                                               1
        [,15] [,16] [,17] [,18] [,19] [,20] [,21] [,22] [,23] [,24] [,25]
##
[,26]
## [1,]
          0.0
                   1
                         1
                               1
                                                0.0
                                                         0
                                                               0
                                                                     1
                                                                           0
0
## [2,]
          0.0
                  1
                         1
                               1
                                                0.0
                                                         0
                                                                     1
                                                                           0
                                                                           0
## [3,]
          0.5
                   1
                         1
                               1
                                      0
                                            0
                                                0.0
                                                               0
                                                                     1
                                                         0
## [4,]
          1.0
                   1
                         1
                               1
                                      0
                                            0
                                                0.5
                                                         0
                                                               0
                                                                     1
                                                                            0
1
## [5,]
          1.0
                  1
                         1
                               1
                                      0
                                            0
                                                1.0
                                                         0
                                                                     1
                                                                           0
##
        [,27] [,28] [,29] [,30] [,31] [,32] [,33] [,34] [,35] [,36] [,37]
[38]
## [1,]
          0.0
                       0.0
                                    0.0
                                                0.0
                                                         1
                                                                     1
                                                                          0.0
                       0.0
                                   0.0
                                                0.0
## [2,]
          0.0
                  0
                               1
                                            1
                                                        1
                                                               0
                                                                         0.0
```

```
0
           0.5
                    0
                         0.5
                                      0.0
                                               1
                                                    0.5
                                                             1
                                                                    0
                                                                           1
                                                                               0.5
## [3,]
                                  1
                         1.0
                                      0.5
                                                             1
                                                                    0
                                                                                1.0
## [4,]
           1.0
                    0
                                  1
                                               1
                                                    1.0
                                                                           1
## [5,]
           1.0
                    0
                         1.0
                                  1
                                      1.0
                                               1
                                                    1.0
                                                             1
                                                                    0
                                                                           1
                                                                               1.0
##
         [,39] [,40] [,41] [,42] [,43] [,44] [,45] [,46] [,47] [,48] [,49]
[,50]
                           0
                                  0
                                         0
                                               0
                                                    0.0
                                                                           0
                                                                               0.0
## [1,]
                  0.0
                                                             0
                                                                  0.0
## [2,]
             0
                  0.0
                           0
                                  0
                                         0
                                               0
                                                    0.0
                                                             0
                                                                  0.0
                                                                           0
                                                                               0.0
## [3,]
             0
                  0.0
                           0
                                         0
                                               0
                                                    0.5
                                                             1
                                                                  0.5
                                                                           1
                                                                               0.5
0
## [4,]
                  0.5
                                         0
                                                1
                                                    1.0
                                                                  1.0
                                                                           1
                                                                               1.0
                                                             1
## [5,]
                  1.0
                           0
                                  0
                                         0
                                               1
                                                    1.0
                                                                  1.0
                                                                           1
                                                                               1.0
             0
                                                             1
         [,51] [,52] [,53] [,54] [,55] [,56] [,57] [,58] [,59] [,60] [,61]
##
[,62]
             0
                    0
                           0
                                      0.0
                                             0.0
                                                      0
                                                             0
                                                                         0.0
                                                                                  0
## [1,]
## [2,]
             0
                    0
                           0
                                      0.0
                                             0.0
                                                      0
                                                                        0.5
                                                                                  0
## [3,]
             1
                    0
                           0
                                  0
                                      0.0
                                             0.5
                                                      0
                                                             1
                                                                    0
                                                                        1.0
                                                                                  1
## [4,]
                    0
                           0
                                  0
                                      0.5
                                             1.0
                                                      0
                                                             1
                                                                         1.0
                                                                                  1
             1
1
## [5,]
             1
                    0
                           0
                                  0
                                      1.0
                                             1.0
                                                      0
                                                             1
                                                                    0
                                                                        1.0
                                                                                  1
1
         [,63] [,64] [,65] [,66] [,67] [,68] [,69] [,70] [,71] [,72] [,73]
##
[,74]
                    1
                           0
                                         0
                                                      0
                                                                    0
                                                                           0
                                                                                  0
## [1,]
           0.0
                                  0
                                               0
                                                             1
## [2,]
           0.0
                    1
                           0
                                  0
                                               0
                                                      0
                                                             1
                                                                    0
                                                                           0
                                                                                  0
                                         0
## [3,]
           0.5
                    1
                           0
                                  0
                                         0
                                               0
                                                      0
                                                             1
                                                                    0
                                                                           0
                                                                                  0
1
## [4,]
           1.0
                    1
                           1
                                  1
                                         0
                                               1
                                                      0
                                                             1
                                                                    0
                                                                           1
                                                                                  0
## [5,]
                    1
                           1
                                  1
                                         0
                                                      0
                                                                    0
                                                                           1
                                                                                  0
           1.0
                                               1
                                                             1
1
         [,75] [,76] [,77] [,78] [,79] [,80] [,81] [,82] [,83] [,84] [,85]
##
[,86]
                                                                           0
                                                                                  0
## [1,]
             1
                  0.0
                         0.0
                                  0
                                         0
                                                0
                                                    0.0
                                                             0
                                                                    0
## [2,]
             1
                  0.5
                         0.0
                                  0
                                         0
                                               0
                                                    0.0
                                                             0
                                                                    0
                                                                           0
                                                                                  0
                                                             0
                                                                                  0
## [3,]
         1
                  1.0
                         0.5
                                  0
                                        0
                                               0
                                                    0.5
                                                                    1
```

```
1.0
                                                     1.0
                                                                     1
                                                                            0
                                                                                   0
## [4,]
             1
                  1.0
                                  0
                                         1
                                                1
                                                              1
1
                                                                     1
                                                                            0
## [5,]
             1
                  1.0
                         1.0
                                  0
                                         1
                                                1
                                                     1.0
                                                              1
                                                                                   0
##
         [,87] [,88] [,89] [,90] [,91] [,92] [,93] [,94] [,95] [,96] [,97]
[,98]
                    0
                         0.0
                                0.0
                                         0
                                                0
                                                       0
                                                              0
                                                                   0.0
                                                                            0
                                                                                 0.0
## [1,]
## [2,]
                    0
                         0.5
                                0.0
                                         0
                                                0
                                                       0
                                                              0
                                                                   0.5
                                                                                 0.0
             1
## [3,]
                    1
                         1.0
                                0.5
                                         0
                                                       0
                                                              0
                                                                   1.0
                                                                            0
                                                                                 0.5
             1
                                                0
0
## [4,]
             1
                    1
                         1.0
                                1.0
                                         1
                                                1
                                                       0
                                                              1
                                                                   1.0
                                                                            0
                                                                                 1.0
0
                    1
                         1.0
                                1.0
                                         1
                                                       0
                                                                   1.0
                                                                            0
                                                                                 1.0
## [5,]
             1
                                                1
                                                              1
         [,99] [,100] [,101] [,102] [,103] [,104] [,105] [,106] [,107] [,108]
## [1,]
           0.0
                   0.0
                              0
                                      0
                                              0
                                                      0
                                                            0.0
                                                                    0.0
                                                                            0.0
## [2,]
           0.0
                   0.0
                              0
                                      0
                                              0
                                                      0
                                                            0.0
                                                                    0.5
                                                                            0.5
                                                                                      0
                                              0
                                                                    1.0
                                                                                      0
## [3,]
           0.5
                   0.0
                              0
                                      0
                                                      1
                                                            0.5
                                                                            1.0
           1.0
                   0.5
                                              0
                                                      1
                                                            1.0
                                                                    1.0
## [4,]
                              1
                                      1
                                                                            1.0
                                                                                      0
           1.0
                   1.0
                                      1
                                              0
                                                            1.0
                                                                    1.0
                                                                            1.0
## [5,]
                              1
                                                      1
                [,110] [,111] [,112] [,113] [,114] [,115] [,116] [,117] [,118]
##
         [,109]
## [1,]
                                                             0.0
                    0.0
                               0
                                       0
                                               0
                                                       0
                                                                       0
                                                                             0.0
## [2,]
               0
                    0.0
                               0
                                       0
                                               0
                                                       0
                                                             0.0
                                                                       0
                                                                             0.5
                                                                                     0.0
                    0.0
                               0
                                       1
                                               1
                                                       1
                                                             0.0
                                                                        1
                                                                             1.0
                                                                                     0.5
## [3,]
               0
                                                                                     1.0
                    0.5
                               1
                                                             0.5
                                                                       1
                                                                             1.0
## [4,]
               0
                                       1
                                               1
                                                       1
                    1.0
                               1
                                       1
                                               1
                                                       1
                                                             1.0
                                                                       1
                                                                             1.0
                                                                                     1.0
## [5,]
               0
         [,119] [,120] [,121] [,122] [,123] [,124] [,125] [,126] [,127] [,128]
## [1,]
                       0
                               0
                                       0
                                               0
                                                     0.0
                                                             0.0
                                                                       0
                                                                               0
                                                                                        0
               0
                       0
                               0
                                       0
                                                     0.0
                                                             0.5
                                                                               0
                                                                                        0
## [2,]
               0
                                               0
## [3,]
               1
                               0
                                       1
                                                     0.5
                                                             1.0
                                                                                        1
                               1
                                                     1.0
                                                             1.0
                                                                                        1
## [4,]
               1
                               1
                                                             1.0
                                                                       1
                                                                                        1
## [5,]
                       0
                                       1
                                               1
                                                     1.0
                                                                               1
         [,129] [,130] [,131] [,132] [,133] [,134] [,135] [,136] [,137] [,138]
##
## [1,]
                    0.0
                               0
                                                             0.0
                                       1
                                               0
                                                       0
                                                                       0
                                                                                1
                                                                                     0.0
## [2,]
               0
                    0.0
                               0
                                       1
                                               0
                                                       0
                                                             0.0
                                                                       0
                                                                                1
                                                                                     0.0
## [3,]
               0
                    0.0
                               0
                                       1
                                               0
                                                       1
                                                             0.0
                                                                       0
                                                                                1
                                                                                     0.5
## [4,]
               0
                    0.5
                               1
                                       1
                                               1
                                                       1
                                                             0.5
                                                                       0
                                                                                1
                                                                                     1.0
## [5,]
                    1.0
                               1
                                       1
                                               1
                                                       1
                                                             1.0
         [,139] [,140] [,141] [,142] [,143] [,144] [,145] [,146] [,147] [,148]
##
            0.0
## [1,]
                       1
                            0.0
                                       0
                                               1
                                                       1
                                                             0.0
                                                                                        1
                                                       1
                                                             0.0
## [2,]
            0.5
                       1
                            0.0
                                       0
                                               1
                                                                       1
                                                                                1
                                                                                        1
                                                             0.5
## [3,]
            1.0
                       1
                            0.5
                                       1
                                               1
                                                       1
                                                                       1
                                                                                1
                                                                                        1
## [4,]
            1.0
                       1
                            1.0
                                       1
                                               1
                                                       1
                                                             1.0
                                                                       1
                                                                                1
                                                                                        1
## [5,]
            1.0
                       1
                            1.0
                                       1
                                               1
                                                       1
                                                             1.0
                                                                       1
                                                                                        1
         [,149] [,150] [,151] [,152] [,153] [,154] [,155] [,156] [,157] [,158]
## [1,]
            0.0
                    0.0
                               1
                                     0.0
                                               0
                                                     0.0
                                                               0
                                                                       1
                                                                               1
                                                                                        0
                               1
                                    0.0
                                               0
                                                     0.0
            0.5
                    0.0
## [2,]
```

```
## [3,]
             1.0
                      0.5
                                1
                                       0.5
                                                 0
                                                       0.0
                                                                                            0
                                                                           1
## [4,]
             1.0
                      1.0
                                 1
                                       1.0
                                                        0.5
                                                                  1
                                                                                            0
             1.0
                      1.0
                                 1
                                       1.0
                                                        1.0
                                                                           1
## [5,]
                                                  0
                                                                  1
          [,159] [,160] [,161] [,162] [,163] [,164] [,165] [,166] [,167] [,168]
##
                                      0.0
                      0.0
## [1,]
                                 1
                                               0.0
                                                          0
                                                                         0.0
## [2,]
               0
                      0.0
                                 1
                                       0.0
                                               0.5
                                                          0
                                                                  0
                                                                         0.5
                                                                                    1
                                                                                          0.0
## [3,]
                      0.5
                                 1
                                       0.5
                                               1.0
                                                                         1.0
                                                                                          0.5
               0
                      1.0
                                 1
                                       1.0
                                               1.0
                                                                         1.0
                                                                                          1.0
## [4,]
                                       1.0
## [5,]
               0
                      1.0
                                 1
                                               1.0
                                                          0
                                                                  1
                                                                         1.0
                                                                                          1.0
                 [,170] [,171] [,172] [,173] [,174] [,175] [,176] [,177] [,178]
##
                                       0.0
## [1,]
                                 1
                                                  1
                                                          0
                                                                                          0.0
## [2,]
               0
                        0
                                 1
                                       0.0
                                                  1
                                                          0
                                                                  0
                                                                           1
                                                                                   0
                                                                                          0.5
                                                          0
                                                                           1
## [3,]
               0
                        0
                                 1
                                       0.0
                                                  1
                                                                  0
                                                                                   0
                                                                                          1.0
## [4,]
                        1
                                 1
                                       0.5
                                                  1
                                                          0
                                                                                          1.0
## [5,]
                                 1
                                       1.0
                                                 1
                                                          0
                        1
          [,179] [,180] [,181] [,182] [,183] [,184] [,185] [,186] [,187] [,188]
## [1,]
                        0
                                 1
                                         1
                                                  1
                                                          1
                                                                  1
                                                                           1
## [2,]
                                                          1
                                 1
                                         1
                                                  1
                                                                  1
                                                                           1
                                                                                            1
## [3,]
                                 1
                                         1
                                                  1
                                                          1
                                                                           1
                                                                                            1
## [4,]
               1
                        0
                                 1
                                         1
                                                  1
                                                          1
                                                                  1
                                                                           1
                                                                                            1
## [5,]
               1
                        0
                                 1
                                         1
                                                 1
                                                          1
                                                                  1
                                                                           1
                                                                                            1
##
          [,189] [,190] [,191] [,192] [,193] [,194] [,195] [,196] [,197] [,198]
## [1,]
                                       0.0
             0.0
                        0
                                 1
                                                  0
                                                          0
                                                                  1
## [2,]
             0.0
                        0
                                 1
                                       0.5
                                                  0
                                                          0
                                                                           1
                                                                                            1
             0.5
                                       1.0
                                                                                            1
## [3,]
## [4,]
             1.0
                        0
                                 1
                                       1.0
                                                  0
                                                          0
                                                                  1
                                                                           1
                                                                                            1
## [5,]
             1.0
                                 1
                                       1.0
                                                  0
                                                          0
                                                                  1
                                                                           1
                                                                                            1
                        0
          [,199] [,200] [,201] [,202] [,203] [,204] [,205] [,206] [,207] [,208]
##
## [1,]
                                 0
                                         1
                        0
                                                  1
                                                          0
                                                                   1
                                                                           1
                                                                                            0
## [2,]
               0
                        0
                                 0
                                         1
                                                          0
                                                                  1
                                                                           1
                                                                                            0
                                                  1
                                                                                    1
## [3,]
               0
                        0
                                 0
                                         1
                                                  1
                                                          0
                                                                  1
                                                                           1
                                                                                    1
                                                                                            0
## [4,]
                                         1
                                                  1
                                                          0
                                                                                            0
## [5,]
                                         1
                                                  1
          [,209] [,210] [,211] [,212] [,213] [,214] [,215] [,216] [,217] [,218]
## [1,]
                                 1
                                         0
                                                  0
                                                          0
                                                                  1
                                                                           0
                                                                                            1
                        1
                                 1
                                                          0
                                                                  1
## [2,]
               1
                                                  0
                                                                                            1
## [3,]
                                                          0
                                                                  1
                                                                                    1
                                                                                            1
               1
                        1
                                 1
                                         0
## [4,]
               1
                        1
                                 1
                                         0
                                                          0
                                                                  1
                                                                           0
                                                                                    1
                                                                                            1
                                                  0
               1
                                 1
                                         0
                                                  0
                                                          0
                                                                  1
                                                                           0
                                                                                    1
                                                                                            1
## [5,]
                        1
##
          [,219] [,220]
                          [,221]
## [1,]
## [2,]
               1
                        0
                                 1
               1
                                 1
## [3,]
               1
                                 1
                        0
## [4,]
## [5,]
               1
                                 1
##
## $n
            1 \quad 2 \quad 1 \quad 1 \quad 1 \quad 1 \quad 3 \quad 1 \quad 1 \quad 1 \quad 2 \quad 2 \quad 1 \quad 2 \quad 4 \quad 1 \quad 1 \quad 1 \quad 1 \quad 7
                                                                                            2
##
      [1]
3
   [26]
            5 4 3 2 2 3 3 2 2 5 1 10 2 2 4 2 6 2 5
```

```
2 5
## [51] 7 2 8 8 11 8 6 5 9 3 9 13 4 5 8 10 7 5 13 10 9 9 7
10 5
                            7 7 12 8 4 10 13 7 8 7 4 8 11
## [76] 8 12 11 6 8 12 7 8 10 5
4 3
## [101] 11 7 9 11 4 8 8 8
                        1 4 5 16 5 8 4 10 3 10 5 2 11
## [126] 7 11 8 6 3 7 9 9 5 7 1 1 2 4 11 8 5
                                                        3
## [151] 2 6 7 4 7 4 3 4
                        7 4 6 4 3 8 7 3 3
                                               2
## [176] 2 4 3
               1 1 4 1 1
                           3 1 1 1
                                    2
                                               1
                                                    2
                                                      2 1
              2
                                      3 4 3
                                             1
                                                 1
## [201] 1 1 1 1 1 1 1 3 1 2 2 1 2 1 1 1 1 1 1 2 1
##
## $conf
## [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10]
[,11]
## [1,] 0 -0.6172287 1
                               1 -0.4561067
                           1
                       1
                                                   0 -
0.6172287
      0 1.6172287 1 1
                               1 0.4561067
## [2,]
                           1
                                              1
                                                   0
1.6172287
      [,12] [,13] [,14] [,15] [,16] [,17] [,18] [,19] [,20] [,21]
[,22]
## [1,]
             1
                 0 -0.29
                               1
                                   1
                                        0
                                            0 -0.2985919
                          1
                                 1
                 0 1.29
                                            0 0.2985919
## [2,] 0
             1
                          1
                               1
                                        0
    [,23] [,24] [,25] [,26] [,27] [,28]
                                       [,29] [,30] [,31]
[,32]
               0
             1
## [1,]
                 0 1.7065975 1.29 0 1.6172287 1 0.4561067
## [2,] 0
             1
        [,33] [,34] [,35] [,36] [,37] [,38] [,39] [,40] [,41]
##
[,42]
## [1,] -0.6172287
                        1 0.0003601297
                                            0 -0.395
                 1
                     0
                                        0
## [2,] 1.6172287 1
                   0 1 0.9996398703 0
                                            0 0.395
      [,43] [,44] [,45] [,46] [,47] [,48] [,49]
[,50]
       0 -0.7065975 -0.29 0.4028161 -0.6172287 0.3549677 -0.6172287
## [1,]
        0 0.7065975 1.29 1.5971839 1.6172287 1.6450323 1.6172287
## [2,]
0
##
        [,51] [,52] [,53] [,54] [,55] [,56] [,57] [,58]
[,59]
```

```
## [2,] 1.5971839 0 0 0.238194 1.05861436 0 1.7065975
        [,60] [,61] [,62] [,63] [,64] [,65] [,66]
##
[,67]
## [1,] 0.5438933 0.4733333 -0.4382132 -0.29 1 -0.5586144 -0.4996399
## [2,] 1.4561067 1.5266667 0.4382132 1.29 1 0.5586144 0.4996399
##
        [,68] [,69] [,70] [,71] [,72] [,73] [,74] [,75]
[,76]
## [1,] -0.7065975 0 1 0 -0.5266667 0 0.5003601
                                               1
0.7206928
## [2,] 0.7065975 0 1 0 0.5266667 0 1.4996399
1,2793072
##
         [,77] [,78] [,79] [,80] [,81] [,82]
[,83]
0.4413856
1.5586144
## [,84] [,85] [,86] [,87] [,88] [,89] [,90] [,91]
## [1,] 0 0 0.4028161 1 0.5438933 0.7206928 -0.29 -0.4996399
## [2,] 0 0 1.5971839 1 1.4561067 1.2793072 1.29 0.4996399
## [2,]
        [,92] [,93] [,94]
                           [,95] [,96] [,97] [,98] [,99]
[,107] [,108] [,109] [,110] [,111] [,112] [,113] [,114]
0
                    0 0.395 0.7065975 1.395 1.7065975 1.5586144
## [2,] 1.2793072
     1.2793072 0 0 0.395 0.7065975 1.395 1.7065975 1.558614
[,115] [,116] [,117] [,118] [,119] [,120] [,121]
## [1,] -0.395 0.5003601 0.5438933 0.0003601297 0.2934025 0 -0.4763879
## [2,] 0.395 1.4996399 1.4561067 0.9996398703 1.7065975
                                           0 0.4763879
       [,122] [,123] [,124] [,125] [,126] [,127]
##
[,128]
## [1,] 0.4028161 -0.6450323 -0.1450323 0.7014081 0.4028161 -0.4763879
0.4413856
1.5586144
   [,129] [,130] [,131] [,132] [,133] [,134]
[,136]
## [1,]
       0 -0.4561067 -0.5971839 1 -0.5266667 0.2934025 -0.2985919
## [2,] 0 0.4561067 0.5971839 1 0.5266667 1.7065975 0.2985919
    [,137] [,138] [,139] [,140] [,141] [,142] [,143] [,144]
## [1,] 1 -0.6172287 0.605 1 -0.05861436 0.2934025
                                                    1
## [2,] 1 1.6172287 1.395 1 1.05861436 1.7065975
```

```
[,145] [,146] [,147] [,148] [,149] [,150] [,151] [,152]
[,153]
                             1
                                   1 0.5438933 -0.29
                                                          1 -0.1450323
## [1,] -0.6172287
                      1
## [2,] 1.6172287 1
                                   1 1.4561067 1.29
                                                          1 1.1450323
                             1
       [,154]
                 [,155] [,156] [,157] [,158] [,159] [,160] [,161] [,162]
## [1,] -0.395 -0.5971839
                             1
                                   1
                                          0
                                                 0
                                                   -0.29
## [2,] 0.395 0.5971839
                             1
                                                 0 1.29
                                                              1 1.29
##
          [,163] [,164]
                          [,165] [,166] [,167]
                                                     [,168] [,169]
[,170]
1 -0.6172287
                                                                0 -
0.7065975
## [2,] 1.4561067 0 1.5971839 1.4561067
                                               1 1.6172287
0.7065975
       [,171] [,172] [,173] [,174] [,175] [,176] [,177] [,178] [,179]
[,180]
## [1,]
                                             1
                                                   0 0.5438933
                                                                    1
            1 -0.395
                         1
                                0
                                      0
## [2,]
            1 0.395
                         1
                                0
                                      0
                                             1
                                                    0 1.4561067
                                                                    1
       [,181] [,182] [,183] [,184] [,185] [,186] [,187] [,188]
##
                                                                [,189]
[,190]
## [1,]
            1
                         1
                                      1
                                             1
                                                          1 -0.6172287
## [2,]
                  1
                         1
                                1
                                      1
                                             1
                                                   1
                                                          1 1.6172287
       [,191] [,192] [,193] [,194] [,195] [,196] [,197] [,198] [,199]
[,200]
            1 0.5438933
                                                                    0
## [1,]
                            0
                                  0
                                         1
                                                1
                                                      0
                                                             1
## [2,]
            1 1.4561067
                            0
       [,201] [,202] [,203] [,204] [,205] [,206] [,207] [,208] [,209] [,210]
## [1,]
                  1
                         1
                               0
                                      1
                                             1
                                                   1
                                                          0
                                      1
## [2,]
                  1
                         1
                                0
                                             1
                                                   1
       [,211] [,212] [,213] [,214] [,215] [,216] [,217] [,218] [,219] [,220]
##
## [1,]
                  0
                         0
                                0
                                      1
                                             0
                                                    1
                                                          1
                                                                 1
                                                                       0
            1
                                                          1
            1
                  0
                         0
                                0
                                      1
                                             0
                                                    1
                                                                 1
                                                                       0
## [2,]
       [,221]
##
## [1,]
## [2,]
            1
##
## [1] 1 1 1 1 1 1 1 1 0 0 1 1 0 1 1 1 1 0 1 1 0 0 0 0 0 1 1 0 1
##
## $group
  [1] 35 42 50 53 54 59 69 69 70 70 71 71 75 78 78 84 84
87 93
## [20] 103 132 132 146 146 147 153 159 161 164
```

```
##
## $names
   [1] "85" "100" "110" "113" "117" "123" "126" "129" "131" "132" "139"
"141"
## [13] "142" "147" "149" "152" "153" "156" "157" "159" "160" "161" "163"
"164"
## [25] "165" "166" "167" "168" "169" "170" "171" "172" "173" "174" "175"
"176"
## [37] "177" "178" "179" "180" "181" "182" "183" "184" "185" "186" "187"
"188"
## [49] "190" "192" "193" "194" "195" "196" "197" "198" "199" "200" "201"
"202"
## [61] "203" "204" "205" "206" "207" "208" "209" "210" "211" "212" "213"
"214"
## [73] "215" "216" "217" "218" "219" "220" "221" "222" "223" "224" "225"
## [85] "227" "228" "229" "230" "231" "232" "233" "234" "235" "236" "237"
"238"
## [97] "239" "240" "241" "242" "243" "244" "245" "246" "247" "248" "249"
"250"
## [109] "251" "252" "253" "254" "255" "256" "257" "258" "259" "260" "261"
"262"
## [121] "263" "264" "265" "266" "267" "268" "269" "270" "271" "272" "273"
"274"
## [133] "275" "276" "277" "278" "279" "280" "281" "282" "283" "284" "285"
"286"
## [145] "287" "288" "289" "290" "291" "292" "293" "294" "295" "297" "298"
"299"
## [157] "300" "302" "303" "304" "305" "306" "307" "308" "309" "310" "311"
## [169] "313" "315" "316" "318" "319" "320" "321" "322" "325" "326" "327"
"328"
## [181] "329" "330" "331" "333" "335" "336" "337" "338" "339" "340" "341"
"342"
## [193] "344" "347" "349" "353" "354" "355" "358" "360" "365" "369" "384"
"385"
## [205] "388" "392" "393" "394" "404" "407" "409" "412" "417" "458" "466"
"468"
## [217] "491" "518" "529" "564" "603"
heart_fbs_boxplot
## $stats
        [,1] [,2]
##
## [1,]
           0
## [2,]
## [3,]
           0
                1
## [4,]
           1
                1
## [5,]
           1
                1
##
```

```
## $n
## [1] 936 254
##
## $conf
##
                [,1]
                          [,2]
## [1,] -0.05164392 0.900862
## [2,] 0.05164392 1.099138
##
## $out
## numeric(0)
##
## $group
## numeric(0)
##
## $names
## [1] "0" "1"
heart_mhr_boxplot
## $stats
        [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13]
[,14]
## [1,]
            1
                 1
                       1
                            0
                                  1
                                        1
                                             1
                                                   1
                                                        1
                                                               1
                                                                   0.0
                                                                            1
                                                                                   1
1
## [2,]
            1
                 1
                       1
                            0
                                  1
                                        1
                                             1
                                                   1
                                                        1
                                                               1
                                                                   0.0
                                                                            1
                                                                                   1
1
                       1
                            0
                                  1
                                        1
                                             1
                                                   1
                                                        1
                                                               1
                                                                   0.5
                                                                            1
                                                                                   1
## [3,]
            1
                 1
1
## [4,]
            1
                 1
                       1
                            0
                                  1
                                        1
                                             1
                                                   1
                                                        1
                                                               1
                                                                   1.0
                                                                            1
                                                                                   1
1
                       1
                                  1
                                        1
                                             1
                                                   1
                                                               1
                                                                   1.0
                                                                            1
                                                                                   1
## [5,]
            1
                 1
                            0
1
         [,15] [,16] [,17] [,18] [,19] [,20] [,21] [,22] [,23] [,24] [,25]
##
[,26]
## [1,]
           0.0
                   1
                          1
                               0.0
                                        1
                                              1
                                                     1
                                                            1
                                                                  1
                                                                         0
                                                                             0.0
1
## [2,]
           0.0
                   1
                          1
                               0.5
                                        1
                                              1
                                                     1
                                                            1
                                                                  1
                                                                         0
                                                                             0.5
1
## [3,]
           0.5
                   1
                          1
                               1.0
                                              1
                                                     1
                                                            1
                                                                  1
                                                                         1
                                                                             1.0
1
                                                     1
## [4,]
           1.0
                    1
                          1
                               1.0
                                        1
                                              1
                                                            1
                                                                  1
                                                                         1
                                                                             1.0
1
## [5,]
           1.0
                   1
                          1
                               1.0
                                        1
                                              1
                                                     1
                                                            1
                                                                  1
                                                                         1
                                                                             1.0
1
         [,27] [,28] [,29] [,30] [,31] [,32] [,33] [,34] [,35] [,36] [,37]
##
[,38]
                   0
                          1
                                 1
                                              1
                                                     1
                                                            0
                                                                  1
                                                                         1
                                                                               0
## [1,]
             1
                                        1
## [2,]
                                                     1
                                                                  1
                                                                         1
                                                                               0
                   0
                          1
                                 1
                                        1
                                              1
                                                            0
```

```
1
## [3,]
             1
                    1
                           1
                                  1
                                         1
                                                1
                                                              0
                                                                     1
                                                                            1
                                                                                   1
1
## [4,]
                    1
                           1
                                  1
                                         1
                                                1
                                                       1
                                                              0
                                                                     1
                                                                            1
                                                                                   1
              1
1
## [5,]
                    1
                           1
                                  1
                                         1
                                                1
                                                       1
                                                              0
                                                                     1
                                                                            1
                                                                                   1
             1
1
         [,39] [,40] [,41] [,42] [,43] [,44] [,45] [,46] [,47] [,48] [,49]
[,50]
                                                                            0
## [1,]
                    1
                           0
                                  0
                                         0
                                                1
                                                       0
                                                              1
                                                                     0
                                                                                   0
              1
0.0
## [2,]
                    1
                           0
                                  0
                                         0
                                                1
                                                       0
                                                              1
                                                                     0
                                                                            0
                                                                                   0
              1
0.5
## [3,]
                    1
                                  1
                                         0
                                                1
                                                       1
                                                              1
                                                                     1
                                                                            1
                                                                                   1
              1
                           1
1.0
## [4,]
              1
                    1
                           1
                                  1
                                         1
                                                1
                                                       1
                                                              1
                                                                     1
                                                                            1
                                                                                   1
1.0
                                  1
                                                                     1
                                                                                   1
## [5,]
              1
                    1
                           1
                                         1
                                                1
                                                       1
                                                              1
                                                                            1
1.0
##
         [,51] [,52] [,53] [,54] [,55] [,56] [,57] [,58] [,59] [,60] [,61]
[,62]
## [1,]
              1
                    1
                           0
                                  1
                                         1
                                                1
                                                       0
                                                              0
                                                                     0
                                                                            0
                                                                                0.0
0
## [2,]
                    1
                           0
                                  1
                                         1
                                                1
                                                       0
                                                              0
                                                                     0
                                                                            0
                                                                                0.5
              1
## [3,]
                           1
                                                       1
                                                                     1
                                                                            0
                                                                                1.0
                    1
                                  1
                                         1
                                                1
                                                              1
              1
                    1
                           1
                                  1
                                         1
                                                       1
                                                              1
                                                                     1
                                                                            1
                                                                                1.0
## [4,]
              1
                                                1
1
## [5,]
              1
                    1
                           1
                                  1
                                         1
                                                1
                                                       1
                                                              1
                                                                     1
                                                                            1
                                                                                1.0
1
##
         [,63] [,64] [,65] [,66] [,67] [,68] [,69] [,70] [,71] [,72] [,73]
[,74]
## [1,]
                    0
                           0
                                  0
                                         0
                                                       0
                                                              0
                                                                     0
                                                                            0
                                                                                   0
           0.0
                                              0.0
## [2,]
           0.5
                    0
                           0
                                  0
                                         0
                                              0.5
                                                       0
                                                              0
                                                                     0
                                                                            0
                                                                                   0
0
## [3,]
           1.0
                    0
                           0
                                  0
                                         1
                                              1.0
                                                       0
                                                              0
                                                                     1
                                                                            1
                                                                                   1
1
## [4,]
           1.0
                    0
                           1
                                  1
                                         1
                                              1.0
                                                       1
                                                              1
                                                                     1
                                                                            1
                                                                                   1
1
## [5,]
                    0
                           1
                                  1
                                         1
                                              1.0
                                                       1
                                                              1
                                                                     1
                                                                            1
                                                                                   1
           1.0
1
         [,75] [,76] [,77] [,78] [,79] [,80] [,81] [,82] [,83] [,84] [,85]
##
[,86]
             0
                  0.0
                           0
                                  0
                                         0
                                                0
                                                       0
                                                              0
                                                                     0
                                                                            0
                                                                                0.0
## [1,]
0
## [2,]
              0
                  0.0
                           0
                                  0
                                         0
                                                0
                                                       0
                                                              0
                                                                     0
                                                                            0
                                                                                0.0
## [3,]
             0
                  0.5
                           1
                                  0
                                         0
                                                0
                                                       0
                                                              0
                                                                     1
                                                                            0
                                                                                0.5
```

```
## [4,]
            1
                1.0
                     1
                              0
                                    1
                                          1
                                                 1
                                                       1
                                                             1
                                                                       1.0
1
## [5,]
                        1
                                                             1
                                                                       1.0
            1
                1.0
                              0
                                    1
                                           1
                                                 1
                                                       1
                                                                   1
1
        [,87] [,88] [,89] [,90] [,91] [,92] [,93] [,94] [,95] [,96] [,97]
##
[,98]
                  0
                              0
                                    0
                                           0
                                                 0
                                                       0
                                                             0
                                                                   0
                                                                         0
## [1,]
            0
                      0.0
0.0
                                                 0
                                                             0
                                                                         0
## [2,]
            0
                  0
                      0.0
                              0
                                    0
                                           0
                                                       0
                                                                   0
0.0
                  0
                      0.0
                              0
                                    0
                                                 1
                                                       0
                                                             0
                                                                   0
                                                                         0
## [3,]
            0
                                           0
0.0
                      0.5
                                                                         1
## [4,]
                  1
                              1
                                    0
                                           1
                                                 1
                                                       0
                                                             1
                                                                   1
            1
0.5
## [5,]
            1
                  1
                      1.0
                              1
                                    0
                                          1
                                                 1
                                                       0
                                                             1
                                                                   1
                                                                         1
1.0
##
        [,99] [,100] [,101] [,102] [,103] [,104] [,105] [,106] [,107] [,108]
## [1,]
                                       0.0
                                                                          0.0
            0
                   0
                          0
                                 0
                                                1
                                                       0
                                                              0
                                                                     0
## [2,]
                   0
                          0
                                 0
                                      0.0
                                                       0
                                                              0
                                                                          0.0
            0
                                                1
                                                                     0
## [3,]
            0
                   0
                          0
                                 0
                                       0.5
                                                1
                                                       0
                                                              0
                                                                     0
                                                                          0.5
## [4,]
            0
                   1
                          1
                                 0
                                       1.0
                                                1
                                                       0
                                                              0
                                                                     0
                                                                          1.0
                   1
                          1
                                                1
                                                       0
                                                              0
## [5,]
            0
                                 0
                                       1.0
                                                                     0
                                                                          1.0
##
        [,109] [,110] [,111] [,112] [,113] [,114] [,115] [,116] [,117] [,118]
## [1,]
                    0
                           0
                                  0
                                         0
                                                 0
                                                        0
                                                                             1
             0
                    0
                           0
                                  0
                                                 0
                                                        0
                                                               0
                                                                      0
## [2,]
                                          0
                                                                             1
## [3,]
             0
                    0
                           0
                                  0
                                          0
                                                 0
                                                        0
                                                               0
                                                                      0
                                                                             1
## [4,]
             1
                    0
                           0
                                  0
                                          0
                                                 0
                                                        0
                                                               0
                                                                      0
                                                                             1
## [5,]
             1
                    0
                           0
                                  0
                                          0
                                                 0
                                                        0
                                                               0
                                                                      0
                                                                             1
##
        [,119]
## [1,]
## [2,]
             0
## [3,]
             0
## [4,]
## [5,]
##
## $n
##
                         2 2 1 1 1
                                        2 3 1 3 4 1 3 3
                                                                             3
    [1]
          1 1 1
                   1 1
                                                                 1 6
                                                                       2 4
9 4
## [26]
         9 8 14 4 6 2 14 6 1 10 7 23 8 15 6
                                                       9 17 11 7 14
24 8
  [51] 10 28 16 9 15 5 36 10 17 7 7 15 7 8 17 8 46 8 20 15 17 18
10 14
  [76] 8 49 9 17 8 17 17 15 12 14 9 35 12 23 18
                                                       5 16 7 3 13 10 25 8
## [101] 10 13 2 2 11 10 12 4 10 5 5 4 2
                                                 3
                                                   3
                                                        2
                                                          2
                                                             2
                                                                2
##
## $conf
        [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10]
                                                                 [,11] [,12]
[,13]
## [1,] 1 1 1 0 1 1 1 1 1 -0.6172287 1
```

```
1 1 1
                              1
                                  1 1 1 1.6172287 1
## [2,]
                   0 1
                          1
1
     [,14] [,15] [,16] [,17] [,18] [,19] [,20] [,21] [,22] [,23]
[,24]
        1 -0.29
               1 1 0.5438933
                                  1
## [1,]
0.4733333
## [2,]
        1 1.29 1 1 1.4561067 1
                                      1
                                           1
                                               1
                                                    1
1.5266667
      [,25] [,26] [,27] [,28] [,29] [,30] [,31] [,32] [,33] [,34] [,35]
             1 1 0.5777272
## [1,] 0.605
                             1
                                  1
                                      1
                                           1
                                               1
## [2,] 1.395
                 1 1.4222728
                             1
                                               1
                                                        1
             1
                                  1
                                      1
                                           1
                   [,38] [,39] [,40]
##
             [,37]
                                     [,41]
                                            [,42]
                                                     [,43]
      [,36]
[,44]
## [1,]
        1 0.6705472 0.4413856
                            1 1 0.4733333 0.6167937 -0.4763879
                           1 1.5266667 1.3832063 0.4763879
## [2,]
       1 1.3294528 1.5586144
1
##
         [,45] [,46] [,47] [,48]
                                   [,49] [,50] [,51] [,52]
[,53]
0.605
1.395
      [,54] [,55] [,56] [,57] [,58]
                                     [,59]
                                             [,60]
## [1,]
        1 1 0.7366667 0.5003601 0.6167937 -0.5971839 0.7014081
                 1 1.2633333 1.4996399 1.3832063 0.5971839 1.2985919
             1
## [2,]
         [,62] [,63] [,64] [,65]
                                     [,66]
##
                                             [,67]
## [1,] -0.4079542 0.7014081 0 -0.3832063 -0.5586144 0.7670417 0.7206928
## [2,] 0.4079542 1.2985919
                       0 0.3832063 0.5586144 1.2329583 1.2793072
                [,70] [,71] [,72] [,73]
##
                                              [,74]
         [,69]
[,75]
## [1,] -0.3532987 -0.4079542 0.6167937 0.6275904 0.4733333 0.5003601 -
0.4222728
## [2,] 0.3532987 0.4079542 1.3832063 1.3724096 1.5266667 1.4996399
0.4222728
##
          [,76] [,77] [,78] [,79]
                                      [,80]
                                              [,81]
[,82]
## [1,] -0.05861436 0.7742857 0 -0.3832063 -0.5586144 -0.3832063 -
0.3832063
## [2,] 1.05861436 1.2257143 0 0.3832063 0.5586144 0.3832063
0.3832063
                 [,84] [,85]
         [,83]
                                 [,86]
                                         [,87]
                                                  [,88]
## [1,] 0.5920458 -0.4561067 0.07772724 -0.5266667 -0.2670687 -0.4561067
##
         [,89]
                [,90] [,91] [,92] [,93] [,94]
                                               [,95]
[,96]
0.4996399
## [2,] 0.1647264 0.3724096 0 0.395 1.5971839 0 0.4382132
```

```
0.4996399
        [,97] [,98] [,99] [,100] [,101] [,102]
##
                                                            [,103]
[,104]
## [1,] -0.316 -0.2793072
                           0 -0.4382132 -0.4996399
                                                      0 -0.6172287
## [2,] 0.316 0.2793072
                           0 0.4382132 0.4996399
                                                      0 1.6172287
       [,105] [,106] [,107] [,108] [,109] [,110] [,111] [,112] [,113]
##
[,114]
                         0 -0.29 -0.4996399
## [1,]
                                                0
                                                                    0
## [2,]
                            1.29 0.4996399
                                                0
                                                      0
                                                                    0
                  0
                         0
                                                             0
       [,115] [,116] [,117] [,118] [,119]
## [1,]
                  0
                         0
                               1
            0
                  0
                         0
                               1
## [2,]
##
## $out
  ##
##
## $group
  [1] 26 26 27 32 32 33 39 39 51 52 52 52 52 52 52 54 54
##
55 55
## [20] 55 56 91 102 102 102 107 107
##
## $names
## [1] "60" "63"
                   "67"
                        "69" "70"
                                   "71"
                                         "72" "73" "77" "78"
"82"
## [13] "83"
              "84"
                   "86"
                         "87" "88"
                                    "90"
                                         "91"
                                              "92"
                                                     "93"
"96"
                   "99" "100" "102" "103" "104" "105" "106" "107" "108"
## [25] "97"
             "98"
"109"
## [37] "110" "111" "112" "113" "114" "115" "116" "117" "118" "119" "120"
## [49] "122" "123" "124" "125" "126" "127" "128" "129" "130" "131" "132"
"133"
## [61] "134" "135" "136" "137" "138" "139" "140" "141" "142" "143" "144"
"145"
## [73] "146" "147" "148" "149" "150" "151" "152" "153" "154" "155" "156"
"157"
## [85] "158" "159" "160" "161" "162" "163" "164" "165" "166" "167" "168"
"169"
## [97] "170" "171" "172" "173" "174" "175" "176" "177" "178" "179" "180"
## [109] "182" "184" "185" "186" "187" "188" "190" "192" "194" "195" "202"
heart_STs_boxplot
## $stats
## [,1] [,2] [,3] [,4]
```

```
1 0
## [1,]
       1
         0
     0
       1
         0
## [2,]
   1
         1
## [3,]
   1
     0
       1
   1
     0
       1
         1
## [4,]
   1
     0
## [5,]
       1
         1
##
## $n
  1 526 582 81
## [1]
##
## $conf
  [,1] [,2] [,3]
         [,4]
## [1,]
   1
    0
       1 0.8244444
## [2,]
   1
     0
       1 1.1755556
##
## $out
 1 1 1
1 1 1
1 1 0
0 0 0
000
## [223] 0 0 0 0 0 0 0 0 0 0 0
##
## $group
 ##
2 2 2
2 2 3
3 3 3
3 3 3
3 3 3
## [223] 3 3 3 3 3 3 3 3 3 3 3
##
## $names
## [1] "0" "1" "2" "3"
# outlier values can be extracted from this object
# they are stored in the element 'out' of the list
heart sex boxplot$out
```

```
1 1 1
heart cpt boxplot$out
##
 0 0 0
000
000
000
heart rbps boxplot$out
## [1] 1 0 0 0 0 0 0 0 0
heart chol boxplot$out
## [1] 1 1 1 1 1 1 1 1 0 0 1 1 0 1 1 1 1 0 0 1 0 0 0 0 0 1 1 0 1
heart_fbs_boxplot$out
## numeric(0)
heart mhr boxplot$out
heart STs boxplot$out
1 1 1
1 1 1
000
000
0 0 0
## [223] 0 0 0 0 0 0 0 0 0 0 0
# get the minimum value that is an outlier
min(heart sex boxplot$out)
## [1] 1
```

```
min(heart cpt boxplot$out)
## [1] 0
min(heart_rbps_boxplot$out)
## [1] 0
min(heart_chol_boxplot$out)
## [1] 0
min(heart fbs boxplot$out)
## Warning in min(heart_fbs_boxplot$out): no non-missing arguments to min;
## returning Inf
## [1] Inf
min(heart mhr boxplot$out)
## [1] 0
min(heart_STs_boxplot$out)
## [1] 0
# outliers rows can be extracted by conditional selection
heart_clean[heart_clean$sex >= min(heart_sex_boxplot$out), ]
##
         age sex chest.pain.type resting.bp.s cholesterol fasting.blood.sugar
## 1
          40
                                 2
               1
                                             140
                                                          289
## 3
          37
               1
                                 2
                                             130
                                                          283
                                                                                  0
## 5
          54
               1
                                 3
                                             150
                                                          195
                                                                                  0
## 6
          39
               1
                                 3
                                             120
                                                          339
                                                                                  0
                                 2
                                             110
## 8
          54
               1
                                                          208
                                                                                  0
## 9
          37
               1
                                 4
                                             140
                                                          207
                                                                                  0
                                 2
## 12
                                                                                  0
          58
               1
                                             136
                                                          164
                                 2
## 13
          39
                                                                                  0
               1
                                             120
                                                          204
## 14
          49
               1
                                 4
                                             140
                                                          234
                                                                                  0
                                 4
## 17
          38
               1
                                             110
                                                          196
                                                                                  0
## 19
          60
               1
                                 4
                                             100
                                                          248
                                                                                  0
                                 2
## 20
          36
               1
                                             120
                                                          267
                                                                                  0
## 22
          44
               1
                                 2
                                             120
                                                          184
                                                                                  0
## 24
          44
               1
                                 2
                                             150
                                                          288
                                                                                  0
                                 3
## 25
          40
               1
                                             130
                                                          215
                                                                                  0
## 26
                                 3
                                                                                  0
          36
               1
                                             130
                                                          209
                                 4
## 27
          53
               1
                                             124
                                                          260
                                                                                  0
## 28
          52
               1
                                 2
                                                                                  0
                                             120
                                                          284
                                 2
## 30
          51
               1
                                             125
                                                          188
                                                                                  0
## 31
          53
               1
                                 3
                                             145
                                                          518
                                                                                  0
                                 3
                                                                                  0
## 32
          56
               1
                                             130
                                                          167
## 33
          54
               1
                                             125
                                                          224
                                                                                  0
```

		_	_			_
## 34	41	1	4	130	172	0
## 36	32	1	2	125	254	0
## 37	65	1	4	140	306	1
## 43	35	1	2	150	264	0
## 44	52	1	3	140	259	0
## 45	43	1	4	120	175	0
## 46	59	1	3	130	318	0
## 47	37	1	4	120	223	0
## 48	50	1	2	140	216	0
## 49	36	1	3	112	340	0
## 50	41	1	4	110	289	0
## 51	50	1	4	130	233	0
## 53	45	1	2	140	224	1
## 57	31	1	4	120	270	0
## 58	58	1	3	130	213	0
## 59	54	1	4	150	365	0
## 60	52	1	4	112	342	0
## 61	49	1	2	100	253	0
## 63	45	1	4	140	224	0
## 64	46	1	4	120	277	0
## 68	32	1	2	110	225	0
## 69	52	1	4	160	246	0
## 70	44	1	4	150	412	0
## 71	57	1	2	140	265	0
## 72	44	1	2	130	215	0
## 73	52	1	4	120	182	0
## 75	55	1	4	140	268	0
## 76	46	1	3	150	163	0
## 77	32	1	4	118	529	0
## 79	52	1	2	140	100	0
## 80	49	1	4	130	206	0
## 81	55	1	3	110	277	0
## 82	54	1	2	120	238	0
## 83	63	1	4	150	223	0
## 84	52	1	2	160	196	0
## 85	56	1	4	150	213	1
## 86	66	1	4	140	139	0
## 87	65	1	4	170	263	1
## 89	43	1	1	120	291	0
## 90	55	1	4	140	229	0
## 90	39	1	4	130	307	0
## 94	48	1	4	160	329	0
## 96	4 8			130	263	
## 96	36 43	1 1	4	142	203 207	0
			2			0
## 98	39 56	1	3	160	147	1
## 99	56	1	4	120	85 260	0
## 100	41	1	2	125	269	0
## 101	65 51	1	4	130	275	0
## 102	51	1	4	130	179	0
## 104	40	1	4	120	466	1

## 105	46	1	4	118	186	0
## 106	57	1	2	140	260	1
## 108	34	1	2	150	214	0
## 109	50	1	4	140	129	0
## 110	39	1	2	190	241	0
## 112	57	1	4	150	255	0
## 113	47	1	4	140	276	1
## 114	38	1	2	140	297	0
## 117	38	1	4	120	282	0
## 120	34	1	1	140	156	0
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ππ 1/2	29	_	2	120	243	V

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## 424	65	1	4	150	236	1
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## 428	56	1	2	126	166	0
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	522	64		4			
			1		130	223	0
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## 525 59 1 4 124 160 0 6 ## 527 45 1 3 130 236 0 6 ## 528 65 1 4 144 312 0 6 ## 528 65 1 4 144 312 0 6 ## 528 65 1 4 144 312 0 6 ## 530 49 1 3 131 142 0 6 ## 531 72 1 4 143 211 0 6 ## 533 64 1 4 143 306 1 ## 533 64 1 4 143 306 1 ## 535 63 1 4 110 252 0 6 ## 535 63 1 4 110 252 0 7 ## 536 59 1 4 158 222 0 7 ## 536 59 1 4 150 252 0 7 ## 537 63 1 4 125 222 0 7 ## 538 63 1 6 1 1 1 1 10 197 0 7 ## 542 62 1 3 138 204 0 7 ## 542 62 1 3 138 204 0 7 ## 544 84 1 3 3 132 220 1 ## 547 48 1 4 132 220 1 ## 548 48 1 3 132 220 1 ## 549 61 1 1 1 142 200 1 ## 550 66 1 4 112 261 0 7 ## 551 62 1 3 144 170 192 0 7 ## 552 55 1 4 1 139 181 1 ## 552 55 1 4 1 12 261 0 7 ## 553 62 1 3 100 210 20 1 ## 554 74 8 1 1 1 1 142 200 0 1 ## 555 66 1 1 1 1 1 142 200 0 1 ## 550 66 1 1 1 1 1 142 200 0 1 ## 551 62 1 3 130 210 220 0 0 ## 553 62 1 3 1 1 1 1 144 220 0 0 1 ## 550 66 1 4 1 12 261 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
## 527	## 52	5 59	1	4	124	160	0
## 528 65 1	## 52	6 55	1	4	150	160	0
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## 529 61 1 2 2 139 283 0 8 ## 530 49 1 3 131 142 0 8 ## 531 72 1 4 14 143 211 0 8 ## 532 50 1 4 133 218 0 8 ## 533 64 1 4 143 306 1 1 8 8 6 1 1 8 8 6 1 1 8 8 6 1 1 8 8 6 1 1 8 8 6 1 1 8 8 6 1 1 8 8 6 1 1 8 8 6 1 1 8 8 6 1 1 8 8 6 1 1 8 8 6 1 1 8 8 6 1 1 1 1							
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## 532 50 1 4 133 218 0 ## 533 64 1 4 143 306 1 ## 536 55 1 4 110 252 0 ## 536 59 1 4 125 222 0 ## 536 59 1 4 125 222 0 ## 540 54 1 4 130 202 1 ## 541 57 1 4 110 197 0 ## 543 76 1 3 138 204 0 ## 545 70 1 4 170 192 0 ## 545 70 1 4 170 192 0 ## 548 48 1 3 132 272 0 ## 548 48 1 3 132 272 0 ## 551 68 1 1 1 12 261 0 ## 551 68 1 1 1 139 181 1 ## 552 55 1 4 172 260 0 ## 554 71 1 3 144 221 0 ## 555 74 1 1 3 144 221 0 ## 557 58 1 3 150 219 0 ## 558 75 1 4 160 310 1 ## 557 58 1 3 137 208 1 ## 560 58 1 3 137 208 1 ## 560 58 1 3 137 208 1 ## 560 57 1 4 140 274 0 ## 560 57 1 4 140 274 0 ## 560 57 1 4 140 274 0 ## 560 57 1 4 140 274 0 ## 560 57 1 4 140 274 0 ## 560 57 1 4 140 274 0 ## 560 57 1 4 140 274 0 ## 560 57 1 4 140 274 0 ## 560 57 1 4 140 274 0 ## 560 57 1 4 140 274 0 ## 560 57 1 4 140 274 0 ## 560 57 1 4 140 274 0 ## 560 57 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 560 77 1 4 140 274 0 ## 570 78 2 1 4 160 123 0 ## 571 78 6 1 4 175 0 ## 572 78 6 1 4 175 0 ## 573 69 1 4 140 110 110 110 110 110 110 110 110							
## 533 64 1 4 143 306 1 ## 534 55 1 4 116 186 1 ## 535 63 1 4 110 252 0 ## 536 59 1 4 150 258 1 ## 545 54 1 4 150 258 1 ## 541 57 1 4 110 197 0 ## 542 62 1 3 138 204 0 ## 547 48 1 4 170 192 0 ## 548 48 1 4 132 272 0 ## 549 61 1 1 142 200 1 ## 550 66 1 4 112 261 0 ## 551 68 1 1 13 144 220 0 ## 553 62 1 3 144 172 260 0 ## 553 62 1 3 144 172 260 0 ## 555 74 1 1 1 145 216 1 ## 555 75 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
## 534 55 1 4 116 186 1 ## 535 63 1 4 110 252 0 ## 539 74 1 4 150 258 1 ## 540 54 1 4 130 202 1 ## 541 57 1 4 110 197 0 ## 542 62 1 3 138 204 0 ## 543 76 1 3 104 113 0 ## 545 70 1 4 170 192 0 ## 548 48 1 3 132 272 0 ## 548 48 1 3 132 272 0 ## 549 61 1 1 142 200 1 ## 551 68 1 1 1 139 181 1 ## 555 55 1 4 172 260 0 ## 553 62 1 3 124 172 260 0 ## 554 71 1 3 144 221 0 ## 555 74 1 1 1 145 216 1 ## 555 75 8 1 3 150 219 0 ## 558 75 1 4 160 310 11 ## 557 58 1 3 137 208 1 ## 558 75 1 4 160 310 11 ## 557 58 1 3 137 208 1 ## 560 58 1 3 137 209 1 ## 561 64 1 4 134 273 0 ## 564 59 1 4 140 274 0 ## 566 57 1 4 140 274 0 ## 567 61 1 4 130 289 0 ## 568 41 1 1 1 140 200 1 ## 567 61 1 4 134 129 0 ## 568 41 1 1 1 140 274 0 ## 568 41 1 1 1 140 274 0 ## 568 41 1 1 1 140 274 0 ## 567 61 1 4 140 274 0 ## 567 61 1 4 140 274 0 ## 568 41 1 1 1 140 289 0 ## 568 41 1 1 1 140 289 0 ## 577 56 1 4 150 193 0 ## 577 56 1 4 150 193 0 ## 577 56 1 4 150 193 0 ## 577 56 1 4 150 193 0 ## 577 56 1 4 150 193 0 ## 577 56 1 4 140 110 11 ## 577 56 1 4 140 110 11 ## 577 56 1 4 140 110 11 ## 577 56 1 4 140 110 11 ## 577 56 1 4 140 110 11 ## 577 66 1 1 4 140 110 11 ## 577 66 1 1 4 140 110 11 ## 577 66 1 1 4 140 110 11 ## 577 66 1 1 4 140 110 11 ## 577 66 1 1 4 140 110 11 ## 577 7 56 1 1 4 150 1193 0 ## 577 7 56 1 1 4 150 1193 0 ## 577 7 56 1 1 4 150 1193 0 ## 577 7 56 1 1 4 140 110 11 ## 577 7 56 1 1 4 140 110 11 ## 577 7 56 1 1 4 140 110 11 ## 577 7 56 1 1 4 140 110 11 ## 577 7 56 1 1 4 140 110 11 ## 577 7 56 1 1 4 140 110 11 ## 577 7 56 1 1 4 140 110 11 ## 577 7 56 1 1 4 140 110 110 11 ## 577 7 56 1 1 4 140 110 110 11							
## 535 63 1 4 110 252 0 6 ## 536 59 1 4 125 222 0 ## 540 54 1 4 130 202 1 ## 541 57 1 4 110 197 0 ## 542 62 1 3 138 204 0 ## 543 76 1 3 104 113 0 ## 545 70 1 4 170 192 0 ## 548 48 1 3 132 272 0 ## 549 61 1 1 142 200 1 ## 550 66 1 1 1 142 200 1 ## 551 68 1 1 1 139 181 1 ## 555 74 1 1 1 1 145 216 1 ## 555 74 1 1 1 1 145 216 1 ## 555 75 1 1 1 1 145 216 1 ## 558 75 1 1 1 1 145 216 1 ## 559 56 1 3 155 175 1 ## 560 58 1 3 137 208 1 ## 551 68 1 1 1 1 145 216 1 ## 552 65 1 3 155 175 1 ## 555 74 1 1 1 145 216 1 ## 556 65 1 3 155 175 1 ## 557 6 1 3 155 175 1 ## 558 75 1 4 160 310 1 ## 558 75 1 4 160 310 1 ## 559 66 1 1 3 137 208 1 ## 561 64 1 1 4 134 273 0 ## 561 64 1 1 4 134 273 0 ## 561 65 55 1 4 14 136 274 0 ## 561 66 7 1 1 1 144 270 1 ## 561 67 1 1 1 1 144 270 0 ## 561 68 1 1 1 1 145 216 1 ## 561 68 1 1 1 1 145 216 1 ## 562 54 1 3 130 202 200 0 ## 563 54 1 3 137 208 1 ## 561 64 1 4 14 192 2 ## 562 65 1 3 133 203 0 ## 563 64 1 1 1 1 144 273 0 ## 563 65 1 1 3 137 208 1 ## 565 65 55 1 4 1 1 1 144 273 0 ## 561 64 1 1 1 1 144 273 0 ## 562 65 65 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
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## 540 54 1 4 130 202 1 ## 541 57 1 4 110 197 0 ## 543 76 1 3 104 113 0 ## 545 70 1 4 170 192 0 ## 547 48 1 4 132 272 0 ## 549 61 1 1 1 142 200 1 ## 550 66 1 4 112 261 0 ## 553 62 1 3 120 220 0 ## 555 74 1 1 1 145 216 1 ## 555 75 1 1 1 145 216 1 ## 556 53 1 3 155 175 1 ## 557 58 1 3 150 219 0 ## 558 75 1 4 160 310 1 ## 560 58 1 3 137 208 1 ## 560 58 1 3 137 208 1 ## 560 58 1 3 137 208 1 ## 560 58 1 4 134 220 0 ## 553 62 1 3 200 0 ## 555 75 1 4 1 1 145 216 1 ## 556 53 1 3 1 3 150 219 0 ## 557 58 1 3 137 208 1 ## 560 58 1 3 137 208 1 ## 560 58 1 3 137 208 1 ## 560 58 1 4 1 2 133 203 0 ## 563 54 1 3 133 203 0 ## 564 59 1 4 140 274 0 ## 566 57 1 4 144 270 1 ## 567 61 1 4 150 193 0 ## 568 41 1 4 150 191 0 ## 568 41 1 4 150 191 0 ## 570 38 1 4 100 289 0 ## 571 55 1 4 100 193 0 ## 572 56 1 4 100 193 0 ## 573 69 1 4 140 110 18 ## 575 72 1 4 160 123 1 ## 575 72 1 4 160 123 1 ## 575 72 1 4 160 123 1 ## 577 56 1 4 142 210 1 ## 577 56 1 1 4 142 210 1 ## 577 56 1 1 4 142 210 1 ## 577 56 1 1 4 142 210 1 ## 577 56 1 1 4 142 210 1 ## 577 56 1 1 4 142 210 1 ## 577 56 1 1 4 142 210 1 ## 577 56 1				4	125		0
## 541 57 1 4 110 197 0 6 ## 542 62 1 3 138 204 0 8 ## 543 76 1 3 104 113 0 8 ## 545 70 1 4 170 192 0 8 ## 547 48 1 4 132 272 0 1 ## 548 48 1 3 132 220 1 ## 558 66 1 4 112 261 0 8 ## 555 74 1 1 139 181 1 ## 555 74 1 1 139 181 1 ## 555 74 1 1 139 181 1 ## 555 74 1 1 1 142 200 0 8 ## 555 74 1 1 1 145 210 20 0 8 ## 555 74 1 1 1 145 210 20 0 8 ## 555 75 1 4 1 1 145 210 20 0 8 ## 556 53 1 3 155 175 1 ## 559 56 1 3 13 155 175 1 ## 559 56 1 3 13 137 208 1 ## 559 56 1 1 3 137 208 1 ## 550 54 1 1 3 133 133 203 0 8 ## 560 57 1 4 14 14 12 270 1 ## 560 57 1 4 1 14 14 14 150 171 0 8 ## 560 57 1 4 14 14 12 20 ## 560 57 1 4 14 14 14 14 14 150 171 0 8 ## 560 57 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	## 53	9 74	1	4	150	258	1
## 542 62 1 3 104 113 0 ## 545 70 1 4 170 192 0 ## 547 48 1 4 132 272 0 ## 548 48 1 1 1 1 142 200 1 ## 559 56 1 1 3 124 221 0 ## 559 55 1 4 1 1 145 216 1 ## 559 56 1 1 3 137 208 1 ## 560 58 1 3 137 208 1 ## 561 57 1 4 144 270 1 ## 562 57 1 4 144 270 1 ## 568 41 1 4 130 274 0 ## 568 41 1 4 130 274 0 ## 560 57 1 4 144 270 1 ## 560 58 1 1 4 135 200 0 ## 561 64 1 1 1 2 2 132 0 ## 562 55 1 1 2 3 132 0 ## 563 54 1 1 3 137 208 0 ## 563 54 1 1 3 133 203 0 ## 563 54 1 1 3 133 203 0 ## 564 59 1 4 144 270 1 ## 570 38 1 4 130 221 0 ## 571 55 1 4 130 221 0 ## 573 69 1 4 140 110 1 ## 577 56 1 4 140 110 1 ## 577 7 56 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1 ## 577 7 56 1 1 4 140 110 1	## 54	0 54	1	4	130	202	1
## 542 62 1 3 138 204 0 6	## 54	1 57	1	4	110	197	0
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## 545							
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## 551 68 1 1 139 181 1 ## 552 55 1 4 4 172 260 0 ## 553 62 1 3 120 220 0 ## 554 71 1 3 144 221 0 ## 555 74 1 1 145 216 1 ## 557 58 1 3 155 175 1 ## 558 75 1 3 150 219 0 ## 558 75 1 4 160 310 1 ## 550 58 1 3 137 208 1 ## 560 58 1 3 137 232 0 ## 561 64 1 4 134 273 0 ## 562 54 1 3 133 134 273 0 ## 563 54 1 2 132 182 0 ## 564 59 1 4 140 274 0 ## 565 55 1 ## 566 57 1 0 ## 568 41 1 4 140 274 0 ## 568 41 1 4 150 171 0 ## 569 71 1 4 110 289 0 ## 570 38 1 4 128 223 0 ## 571 55 1 4 140 110 1 ## 572 56 1 4 140 110 1 ## 573 69 1 4 140 110 1 ## 574 64 1 4 140 110 1 ## 575 69 1 4 140 110 1 ## 576 69 1 4 140 110 1 ## 576 69 1 1 4 160 123 1 ## 576 69 1 1 4 142 210 1 ## 576 69 1 1 4 142 210 1 ## 576 69 1 1 4 142 210 1 ## 576 69 1 1 4 142 210 1 ## 576 69 1 1 4 142 210 1							
## 552 55 1 4 1 772 260 0 8 ## 553 62 1 3 120 220 0 8 ## 554 71 1 3 144 221 0 8 ## 555 74 1 1 1 145 216 1 1 ## 556 53 1 3 155 175 1 1 ## 557 58 1 3 150 219 0 8 ## 558 75 1 4 160 310 1 1 ## 559 56 1 3 1 3 137 208 1 1 ## 560 58 1 3 137 208 1 1 ## 561 64 1 4 134 273 0 8 ## 562 54 1 3 133 137 232 0 8 ## 563 54 1 3 133 203 0 8 ## 564 59 1 4 1 4 140 274 0 8 ## 566 57 1 4 144 270 1 1 ## 568 41 1 4 144 270 1 1 ## 568 41 1 4 150 171 0 8 ## 570 38 1 4 1 10 289 0 8 ## 571 55 1 4 14 158 221 0 8 ## 573 69 1 4 140 110 289 0 8 ## 573 69 1 4 140 110 1 1 ## 574 64 1 4 150 173 0 1 ## 575 69 1 4 160 123 1 1 ## 576 69 1 4 140 110 1 1 ## 576 69 1 4 140 110 1 1 ## 576 69 1 4 142 210 1 1 ## 576 69 1 4 142 210 1 1 ## 577 56 1 1 144 142 210 1 1 ## 577 56 1 1 144 142 210 1 1 ## 577 56 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
## 553 62 1 3 120 220 0 8 ## 554 71 1 1 3 144 221 0 8 ## 555 74 1 1 1 145 216 1 1 ## 555 74 1 1 3 155 175 175 1 ## 557 58 1 3 150 219 0 8 ## 558 75 1 4 160 310 1 1 ## 560 58 1 3 137 232 0 8 ## 563 54 1 2 3 133 133 203 0 8 ## 563 54 1 2 2 132 182 0 8 ## 566 57 1 4 140 110 1 1 8 560 57 1 1 4 150 193 0 8 ## 570 38 1 4 110 289 0 8 ## 571 55 1 1 4 110 289 0 8 ## 571 55 1 1 4 128 223 0 8 ## 573 69 1 4 140 110 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
## 554 71 1 1 3 144 221 0 1 ## 555 74 1 1 1 145 216 1 1 ## 556 53 1 3 155 175 175 1 ## 557 58 1 3 150 219 0 ## 558 75 1 4 160 310 1 1 ## 556 55 1 1 3 137 208 1 1 ## 560 58 1 3 137 232 0 1 ## 563 54 1 2 2 132 182 0 1 ## 564 59 1 4 140 274 0 1 1 ## 566 57 1 4 144 270 1 1 ## 568 41 1 4 150 171 0 1 ## 570 38 1 1 4 128 221 0 0 ## 573 69 1 4 1 10 1 1 ## 574 64 1 1 4 128 223 0 1 ## 575 72 1 4 160 123 1 1 ## 576 69 1 1 4 160 123 1 1 ## 576 69 1 1 4 160 123 1 1 ## 576 69 1 1 4 160 123 1 1 ## 576 69 1 1 4 160 123 1 1 ## 576 69 1 1 4 160 123 1 1 ## 576 69 1 1 4 160 123 1 1 ## 576 69 1 1 4 160 123 1 1 ## 576 69 1 1 4 160 123 1 1 ## 576 69 1 1 4 160 123 1 1 ## 576 69 1 1 4 160 123 1 1 ## 576 69 1 1 4 160 123 1 1 ## 576 69 1 1 4 160 123 1 1 ## 576 69 1 1 4 160 123 1 1 ## 576 69 1 1 4 160 123 1 1 ## 576 69 1 1 4 142 210 1 1							
## 555	## 55	62	1		120	220	0
## 556 53 1 3 155 175 175 0 1 ## 557 58 1 3 150 219 0 ## 558 75 1 4 160 310 1 ## 559 56 1 3 137 208 1 ## 560 58 1 3 137 232 0 ## 561 64 1 4 134 273 0 ## 563 54 1 2 132 182 0 ## 564 59 1 4 140 274 0 ## 565 55 1 4 141 292 0 ## 566 57 1 4 141 292 0 ## 568 41 1 4 150 171 0 ## 570 38 1 4 100 1 ## 571 55 1 4 100 1 ## 573 69 1 4 140 110 1 ## 574 64 1 4 150 193 0 ## 575 72 1 4 160 123 1 ## 576 69 1 4 142 210 1 ## 576 69 1 4 142 210 1 ## 577 56 1 1 4 142 210 1 ## 577 56 1 1 4 142 210 1 ## 577 56 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	## 55	4 71	1	3	144	221	0
## 557 58 1 3 150 219 0 ## 558 75 1 4 160 310 1 ## 559 56 1 3 137 208 1 ## 560 58 1 3 137 232 0 ## 561 64 1 4 134 273 0 ## 562 54 1 3 133 203 0 ## 563 54 1 2 132 182 0 ## 564 59 1 4 140 274 0 ## 565 55 1 4 141 270 1 ## 566 57 1 4 141 292 0 ## 568 41 1 4 150 171 0 ## 570 38 1 4 110 289 0 ## 571 55 1 4 128 223 0 ## 573 69 1 4 140 110 1 ## 574 64 1 4 150 193 0 ## 575 72 1 4 160 123 1 ## 576 69 1 4 142 210 1 ## 576 69 1 4 142 210 1 ## 576 69 1 4 142 210 1 ## 577 56 1	## 55	5 74	1	1	145	216	1
## 558 75 1 4 160 310 1 ## 559 56 1 3 137 208 1 ## 560 58 1 3 137 232 0 ## 561 64 1 4 134 273 0 ## 562 54 1 3 133 203 0 ## 563 54 1 2 182 0 ## 564 59 1 4 140 274 0 ## 566 57 1 4 141 292 0 ## 567 61 1 4 150 171 0 ## 569 71 1 4 110 289 0 ## 570 38 1 4 128 223 0 ## 571 55 1 4 140 110 1 ## 572 56 1 4 140 110 1 ## 574 64 1 4 150 193 0 ## 575 72 1 4 160 123 1 ## 576 69 1 4 142 210 1 ## 576 69 1 4 142 210 1 ## 576 69 1 4 142 210 1 ## 577 56 1	## 55	6 53	1	3	155	175	1
## 558 75 1 4 160 310 1 ## 559 56 1 3 137 208 1 ## 560 58 1 3 137 232 0 ## 561 64 1 4 134 273 0 ## 562 54 1 3 133 203 0 ## 563 54 1 2 182 0 ## 564 59 1 4 140 274 0 ## 566 57 1 4 141 292 0 ## 567 61 1 4 150 171 0 ## 569 71 1 4 110 289 0 ## 570 38 1 4 128 223 0 ## 571 55 1 4 140 110 1 ## 572 56 1 4 140 110 1 ## 574 64 1 4 150 193 0 ## 575 72 1 4 160 123 1 ## 576 69 1 4 142 210 1 ## 576 69 1 4 142 210 1 ## 576 69 1 4 142 210 1 ## 577 56 1	## 55	7 58	1	3	150	219	0
## 559 56 1 3 137 208 1 ## 560 58 1 3 137 232 0 ## 561 64 1 4 134 273 0 ## 562 54 1 3 133 203 0 ## 563 54 1 2 132 182 0 ## 564 59 1 4 140 274 0 ## 566 57 1 4 141 292 0 ## 567 61 1 4 150 171 0 ## 570 38 1 4 158 217 0 ## 571 55 1 4 128 223 0 ## 573 69 1 4 140 110 1 ## 574 64 1 4 150 193 0 ## 575 72 1 4 160 123 1 ## 576 69 1 4 142 210 1 ## 576 69 1 4 142 210 1 ## 576 69 1 4 142 210 1 ## 577 56 1	## 55						
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## 561 64 1 4 134 273 0 ## 562 54 1 3 133 203 0 ## 563 54 1 2 132 182 0 ## 564 59 1 4 140 274 0 ## 565 55 1 4 135 204 1 ## 566 57 1 4 144 270 1 ## 567 61 1 4 141 292 0 ## 568 41 1 4 150 171 0 ## 570 38 1 4 110 289 0 ## 571 55 1 4 128 223 0 ## 573 69 1 4 140 110 1 ## 574 64 1 4 150 193 0 ## 575 72 1 4 160 123 1 ## 576 69 1 4 142 210 1 ## 577 56 1							
## 562 54 1 2 132 182 0 ## 563 54 1 2 132 182 0 ## 564 59 1 4 140 274 0 ## 565 55 1 4 135 204 1 ## 566 57 1 4 144 270 1 ## 568 41 1 4 150 171 0 ## 569 71 1 4 130 221 0 ## 570 38 1 4 110 289 0 ## 571 55 1 4 158 217 0 ## 572 56 1 4 128 223 0 ## 573 69 1 4 140 110 1 ## 574 64 1 4 150 193 0 ## 575 72 1 4 160 123 1 ## 576 69 1 4 142 210 1 ## 577 56 1							
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## 564 59 1 4 140 274 0 ## 565 55 1 4 135 204 1 ## 566 57 1 4 144 270 1 ## 567 61 1 4 141 292 0 ## 568 41 1 4 150 171 0 ## 570 38 1 4 110 289 0 ## 571 55 1 4 158 217 0 ## 572 56 1 4 128 223 0 ## 573 69 1 4 140 110 1 ## 574 64 1 4 150 193 0 ## 575 72 1 4 160 123 1 ## 576 69 1 4 142 210 1 ## 577 56 1							
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## 568 41 1 4 150 171 0 ## 569 71 1 4 130 221 0 ## 570 38 1 4 110 289 0 ## 571 55 1 4 158 217 0 ## 572 56 1 4 128 223 0 ## 573 69 1 4 140 110 1 ## 574 64 1 4 150 193 0 ## 575 72 1 4 160 123 1 ## 576 69 1 4 142 210 1 ## 577 56 1							
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## 570 38 1 4 110 289 0 ## 571 55 1 4 158 217 0 ## 572 56 1 4 128 223 0 ## 573 69 1 4 140 110 1 ## 574 64 1 4 150 193 0 ## 575 72 1 4 160 123 1 ## 576 69 1 4 142 210 1 ## 577 56 1 4 137 282	## 56	8 41	1	4	150	171	0
## 571 55 1 4 158 217 0 ## 572 56 1 4 128 223 0 ## 573 69 1 4 140 110 1 ## 574 64 1 4 150 193 0 ## 575 72 1 4 160 123 1 ## 576 69 1 4 142 210 1 ## 577 56 1 4 137 282	## 56	9 71	1	4	130	221	0
## 571 55 1 4 158 217 0 ## 572 56 1 4 128 223 0 ## 573 69 1 4 140 110 1 ## 574 64 1 4 150 193 0 ## 575 72 1 4 160 123 1 ## 576 69 1 4 142 210 1 ## 577 56 1 4 137 282	## 57	'0 38	1	4	110	289	0
## 572 56 1 4 128 223 0 ## 573 69 1 4 140 110 1 ## 574 64 1 4 150 193 0 ## 575 72 1 4 160 123 1 ## 576 69 1 4 142 210 1 ## 577 56 1 4 137 282 1	## 57			4		217	
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	## 5/	8 62	Τ	4	139	1/0	0

## 579	67	1	4	146	369	0
## 580	57	1	4	156	173	0
## 581	69	1	4	145	289	1
## 582	51	1	4	131	152	1
## 583	48	1	4	140	208	0
## 584	69	1	4	122	216	1
## 585	69	1	3	142	271	0
## 586	64	1	4	141	244	1
## 587	57	1	2	180	285	1
## 588	53	1	4	124	243	0
## 589	37	1	3	118	240	0
## 590	67	1	4	140	219	0
## 591	74	1	3	140	237	1
## 592	63	1	2	136	165	0
## 593	58	1	4	100	213	0
## 594	61	1	4	190	287	1
## 595	64	1	4	130	258	1
## 596	58	1	4	160	256	1
## 597	60	1	4	130	186	1
## 598	57	1	4	122	264	0
## 599	55	1	3	133	185	0
## 600	55	1	4	120	226	0
## 601	56	1	4	130	203	1
## 602	57	1	4	130	207	0
## 603	61	1	3	140	284	0
## 604	61	1	3	120	337	0
## 605	58	1	3	150	219	0
## 606	74	1	4	155	310	0
## 607	68	1	3	134	254	1
## 609	62	1	4	160	254	1
## 610	53	1	4	144	300	1
## 611	62	1	4	158	170	0
## 612	46	1	4	134	310	0
## 614	62	1	1	135	139	0
## 615	55	1	4	122	223	1
## 616	58	1	4	140	385	1
## 617	62		2	120		
		1			254	0
## 618	70 57	1	4	130	322	0
## 620	57	1	2	124	261	0
## 621	64	1	4	128	263	0
## 623	65	1	4	120	177	0
## 624	56	1	3	130	256	1
## 625	59	1	4	110	239	0
## 626	60	1	4	140	293	0
## 628	59	1	4	135	234	0
## 629	53	1	4	142	226	0
## 630	44	1	3	140	235	0
## 631	61	1	1	134	234	0
## 634	46	1	4	140	311	0
## 635	53	1	4	140	203	1

## 636	64	1	1	110	211	0
## 637	40	1	1	140	199	0
## 638	67	1	4	120	229	0
## 639	48	1	2	130	245	0
## 640	43	1	4	115	303	0
## 641	47	1	4	112	204	0
## 646	58	1	3	112	230	0
## 648	57	1	3	128	229	0
## 649	66	1	4	160	228	0
## 651	59	1	4	170	326	0
## 652	50	1	4	144	200	0
## 653	48	1	4	130	256	1
## 654	61	1	4	140	207	0
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## 656	42	1	3	130	180	0
## 657	48	1	4	122	222	0
## 658	40	1	4	152	223	0
## 660	44	1	3	130	233	0
## 661	46	1	2	101	197	1
## 662	59	1	3	126	218	1
## 663	58	1	3	140	211	1
## 664	49	1	3	118	149	0
## 665	44	1	4	110	197	0
## 666	66	1	2	160	246	0
## 668	42	1	4	136	315	0
## 669	52		2		205	
		1		128		1
## 674	61	1	4	138	166	0
## 677	62	1	2	120	281	0
## 678	57	1	3	150	126	1
## 680	44	1	3	120	226	0
## 682	63	1	1	145	233	1
## 683	57	1	4	150	276	0
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## 687	47	1	3	108	243	0
## 688	61	1	4	120	260	0
## 690	70	1	2	156	245	0
## 693	45	1	4	142	309	0
## 694	45	1	4	104	208	0
## 697	56	1	2	120	236	0
## 698	58	1	4	146	218	0
## 699	35	1	4	120	198	0
## 700	58	1	4	150	270	0
## 701	41	1	3	130	214	0
## 702	57	1	4	110	201	0
## 703	42	1	1	148	244	0
## 704	62	1	2	128	208	1
## 705	59	1	1	178	270	0
## 707	50	1	4	150	243	0
## 708	59	1	2	140	221	0
## 710	54	1	4	124	266	0

## 711 54 1 4 110 206 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
## 713	## 711	54	1	4	110	206	0
## 714 66 1 4 100 234 0	## 712	52	1	4	125	212	0
## 715	## 713	47	1	4	110	275	0
## 719 67 1 4 165 289 1 ## 721 57 1 4 165 289 1 ## 722 63 1 4 130 254 0 ## 723 48 1 4 124 274 0 ## 724 51 1 3 100 222 0 ## 725 51 1 4 140 177 0 ## 729 41 1 2 110 235 0 ## 737 46 1 4 120 249 0 ## 737 56 1 4 130 283 1 ## 738 49 1 4 120 286 0 ## 738 55 1 4 1 1 22 286 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 740 66 1 4 120 267 0 ## 746 52 1 2 134 201 0 ## 747 60 1 4 120 267 0 ## 748 65 1 4 140 226 0 ## 750 42 1 4 120 267 0 ## 750 42 1 4 120 267 0 ## 750 42 1 4 120 267 0 ## 750 42 1 4 120 267 0 ## 750 42 1 4 120 260 0 ## 751 64 1 4 120 260 0 ## 752 54 1 3 150 232 0 ## 753 64 1 4 120 260 0 ## 755 56 1 4 140 226 0 ## 756 42 1 4 140 226 0 ## 757 5 5 6 1 4 120 260 0 ## 758 64 1 4 120 260 0 ## 759 59 1 4 132 272 0 ## 759 59 1 4 132 273 0 ## 750 64 1 64 1 64 125 249 1 ## 750 64 1 64 1 64 120 260 0 ## 750 64 1 64 1 64 120 260 0 ## 750 65 1 64 1 64 120 260 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120 226 0 ## 750 65 1 64 1 64 120	## 714	66	1	4	120	302	0
## 721 57 1 4 165 289 1 ## 722 63 1 4 130 254 0 ## 724 51 1 3 100 222 0 ## 726 59 1 4 140 177 0 ## 727 41 1 2 110 235 0 ## 730 42 1 2 120 295 0 ## 731 56 1 4 130 283 1 ## 733 49 1 3 120 188 0 ## 738 49 1 3 120 188 0 ## 738 49 1 3 120 188 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 122 286 0 ## 740 57 1 4 122 286 0 ## 740 57 1 4 122 286 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 120 267 0 ## 746 62 1 4 120 267 0 ## 746 62 1 4 117 230 1 ## 747 60 1 4 117 230 1 ## 748 66 1 4 112 212 0 ## 750 42 1 4 120 246 0 ## 751 64 1 4 120 246 0 ## 755 56 1 4 1 3 150 232 0 ## 755 56 1 4 1 3 150 232 0 ## 755 56 1 4 1 3 150 232 0 ## 757 57 1 4 132 207 0 ## 758 64 1 3 150 232 0 ## 759 59 1 4 138 271 0 ## 759 59 1 4 138 271 0 ## 760 50 1 1 1 125 233 0 ## 761 50 1 1 1 125 233 0 ## 762 54 1 2 192 283 0 ## 763 53 1 4 122 290 0 ## 764 52 1 2 2 124 0 ## 765 60 1 1 1 1 125 233 0 ## 766 58 1 1 3 112 250 0 ## 767 55 1 4 12 2 192 283 0 ## 768 41 1 2 12 22 283 0 ## 768 41 1 1 120 211 0 ## 769 50 1 1 1 120 231 0 ## 760 50 1 1 1 1 120 231 0 ## 761 56 1 1 1 120 231 0 ## 762 54 1 2 1 2 122 0 ## 763 58 1 1 3 122 250 0 ## 764 55 1 2 1 2 128 308 0 ## 765 60 1 1 1 1 120 231 0 ## 767 55 1 1 2 1 120 231 0 ## 768 41 1 1 120 231 0 ## 769 50 1 1 1 1 120 231 0 ## 769 50 1 1 1 1 120 231 0 ## 760 56 1 1 1 1 120 231 0 ## 761 56 1 1 1 1 120 231 0 ## 763 66 1 1 1 1 120 231 0 ## 763 66 1 1 1 1 120 231 0 ## 764 55 1 2 2 133 062 0 ## 765 66 1 1 1 1 120 231 0 ## 776 56 1 1 1 1 120 231 0 ## 778 58 1 1 2 2 133 062 0 ## 778 58 1 1 2 2 133 062 0 ## 778 58 1 1 2 2 133 062 0 ## 778 38 1 1 1 120 231 0 ## 778 56 1 1 1 1 120 231 0 ## 778 56 1 1 1 1 120 231 0 ## 778 66 1 1 1 1 120 231 0 ## 778 66 1 1 1 1 120 231 0 ## 778 66 1 1 1 1 120 231 0 ## 778 66 1 1 1 1 120 231 0 ## 778 66 1 1 1 1 120 231 0 ## 778 66 1 1 1 1 120 231 0 ## 789 69 1 1 1 1 100 211 0 ## 789 69 1 1 1 1 100 254 0	## 715	58	1	4	100	234	0
## 721 57 1 4 165 289 1 ## 722 63 1 4 130 254 0 ## 724 51 1 3 100 222 0 ## 726 59 1 4 140 177 0 ## 737 42 1 1 2 110 235 0 ## 738 42 1 2 120 295 0 ## 737 56 1 4 130 283 1 ## 738 49 1 3 120 188 0 ## 738 49 1 3 120 188 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 120 267 0 ## 746 62 1 4 1 120 267 0 ## 746 52 1 2 130 267 0 ## 750 42 1 4 120 267 0 ## 750 42 1 4 120 266 0 ## 750 6 1 4 117 230 1 ## 750 42 1 4 120 266 0 ## 755 56 1 4 1 2 120 266 0 ## 755 56 1 4 1 10 226 0 ## 755 56 1 1 1 1 1 10 226 0 ## 757 57 1 4 120 246 0 ## 758 64 1 1 1 1 120 246 0 ## 759 59 1 1 1 1 120 249 1 ## 759 59 1 1 1 1 120 240 0 ## 761 51 1 1 1 125 233 0 ## 762 54 1 2 2 134 201 0 ## 755 55 1 4 1 2 2 134 201 0 ## 757 57 1 4 122 240 0 ## 758 64 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	## 719	67	1	4	120	237	0
## 722 63 1 4 130 254 0 ## 723 48 1 4 124 274 0 ## 724 51 1 3 100 222 0 ## 726 59 1 4 14 140 177 0 ## 729 41 1 2 110 235 0 ## 734 46 1 4 120 249 0 ## 737 56 1 4 130 283 1 ## 739 54 1 4 120 249 0 ## 739 54 1 4 122 286 0 ## 739 54 1 4 122 286 0 ## 739 54 1 4 122 286 0 ## 740 57 1 4 152 274 0 ## 740 57 1 4 152 274 0 ## 744 62 1 4 120 267 0 ## 746 52 1 2 134 201 0 ## 747 66 1 4 112 212 0 ## 749 66 1 4 112 212 0 ## 750 42 1 4 140 226 0 ## 750 42 1 4 140 226 0 ## 755 56 1 4 133 150 232 0 ## 757 57 1 4 122 212 0 ## 758 64 1 4 120 246 0 ## 759 59 1 4 133 150 232 0 ## 758 64 1 4 122 246 0 ## 758 64 1 4 122 246 0 ## 759 59 1 4 138 271 0 ## 758 64 1 64 1 64 122 246 0 ## 758 64 1 64 1 64 122 246 0 ## 758 64 1 64 1 64 122 233 0 ## 758 64 1 64 1 64 122 233 0 ## 758 64 1 64 1 64 122 233 0 ## 758 64 1 64 1 64 122 233 0 ## 758 64 1 64 1 64 122 233 0 ## 758 64 1 64 1 64 122 233 0 ## 758 64 1 64 1 64 122 233 0 ## 758 64 1 64 1 64 122 233 0 ## 758 64 1 64 1 64 122 233 0 ## 758 64 1 64 1 64 122 233 0 ## 758 64 1 64 1 64 122 233 0 ## 758 64 1 64 1 64 122 233 0 ## 758 64 1 64 1 64 122 233 0 ## 759 59 1 64 1 64 122 233 0 ## 759 59 1 64 1 64 122 233 0 ## 760 50 1 3 140 233 0 ## 761 51 1 1 122 230 0 ## 763 53 1 64 122 244 0 ## 765 54 1 2 2 192 283 0 ## 767 55 1 4 122 230 0 ## 768 61 1 1 120 193 0 ## 768 61 1 1 120 193 0 ## 768 61 1 1 120 193 0 ## 768 62 1 1 1 120 193 0 ## 778 56 1 1 1 120 193 0 ## 778 56 1 1 1 120 193 0 ## 778 58 1 1 1 120 193 0 ## 778 55 1 1 1 1 120 193 1 ## 778 56 1 1 1 138 282 1 1 ## 778 66 1 1 1 138 282 1 1 ## 788 69 1 1 1 138 282 1 1 ## 788 69 1 1 1 138 282 1 1 ## 788 69 1 1 1 138 282 1 1 ## 788 69 1 1 1 138 282 1 1 ## 788 69 1 1 1 140 254 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	## 721	57	1	4	165	289	
## 723	## 722	63	1	4		254	
## 724 51 1 3 100 222 0 0 ## 726 59 1 4 140 177 0 0 ## 732 42 1 2 110 235 0 0 ## 733 46 1 4 120 249 0 0 ## 738 49 1 4 130 283 1 ## 739 54 1 4 122 286 0 0 ## 744 62 1 4 120 267 0 0 ## 746 65 1 4 117 230 1 ## 757 57 1 4 120 226 0 0 ## 758 64 1 4 120 266 0 0 ## 758 64 1 4 120 266 0 0 ## 758 64 1 4 120 266 0 0 ## 759 59 1 1 4 120 266 0 0 ## 750 65 1 1 4 130 283 0 0 ## 757 57 1 4 120 266 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	## 723	48	1	4		274	
## 726							
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## 740 57 1 4 152 274 0 ## 742 54 1 3 125 273 0 ## 744 62 1 4 120 267 0 ## 747 65 1 4 117 230 1 ## 750 42 1 4 140 226 0 ## 755 56 1 4 120 266 0 ## 757 57 1 4 120 246 0 ## 758 64 1 4 125 249 1 ## 758 64 1 4 145 212 0 ## 758 64 1 4 145 212 0 ## 758 64 1 4 145 212 0 ## 758 64 1 4 145 212 0 ## 760 50 1 3 140 233 0 ## 761 51 1 1 1 125 213 0 ## 763 53 1 4 123 220 0 ## 765 40 1 4 110 167 0 ## 768 41 1 3 112 230 0 ## 768 41 1 3 112 250 0 ## 768 56 1 1 1 1 1 125 230 0 ## 768 56 1 1 1 1 1 125 230 0 ## 768 56 1 1 1 1 1 125 230 0 ## 768 41 1 1 1 125 230 0 ## 768 56 1 1 1 1 1 125 230 0 ## 768 58 1 3 132 224 0 ## 768 59 1 4 110 167 0 ## 768 59 1 1 1 1 120 131 0 ## 768 50 1 1 1 1 120 150 0 ## 768 56 1 1 1 1 120 150 0 ## 778 38 1 1 1 1 120 151 0 ## 778 38 1 1 1 1 120 193 0 ## 778 38 1 1 1 120 193 0 ## 778 38 1 1 1 120 231 0 ## 778 38 1 1 1 120 231 0 ## 778 38 1 1 1 120 231 0 ## 778 38 1 1 1 120 231 0 ## 778 38 1 1 1 120 231 0 ## 778 38 1 1 1 120 231 0 ## 778 38 1 1 1 120 231 0 ## 778 38 1 1 1 120 231 0 ## 778 38 1 1 1 120 231 0 ## 778 38 1 1 1 120 231 0 ## 778 38 1 1 1 120 231 0 ## 778 38 1 1 1 120 231 0 ## 778 38 1 1 1 120 231 0 ## 788 59 1 1 1 138 282 1 ## 788 69 1 1 1 160 234 1 ## 788 69 1 1 1 160 234 1 ## 789 69 1							
## 742 54 1 3 125 273 0 ## 744 62 1 4 120 267 0 ## 746 52 1 2 134 201 0 ## 747 60 1 4 117 230 1 ## 750 42 1 4 120 266 0 ## 751 64 1 4 120 246 0 ## 755 56 1 4 125 249 1 ## 757 57 1 4 132 207 0 ## 758 64 1 4 145 212 0 ## 759 59 1 4 138 271 0 ## 760 50 1 3 140 233 0 ## 761 51 1 1 1 125 213 0 ## 763 53 1 4 123 282 0 ## 765 40 1 4 112 233 0 ## 765 40 1 4 125 249 1 ## 767 55 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
## 744 62 1 4 120 267 0 ## 746 52 1 2 134 201 0 ## 747 60 1 4 117 230 1 ## 749 66 1 4 1112 212 0 ## 751 64 1 4 120 246 0 ## 755 56 1 4 125 249 1 ## 757 57 1 4 132 207 0 ## 758 64 1 4 145 212 0 ## 759 59 1 4 138 271 0 ## 760 50 1 3 140 233 0 ## 761 51 1 1 1 125 213 0 ## 763 53 1 4 125 213 0 ## 763 53 1 4 110 167 0 ## 766 58 1 3 132 224 0 ## 776 56 1 1 1 1 1 25 230 0 ## 776 56 1 1 1 1 1 250 283 0 ## 776 55 1 1 1 1 1 250 213 0 ## 776 56 1 1 1 1 1 1 250 213 0 ## 768 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
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## 768							
## 774 55 1 4 140 217 0 ## 775 45 1 2 128 308 0 ## 776 56 1 1 120 193 0 ## 778 38 1 1 120 231 0 ## 780 55 1 2 130 262 0 ## 781 58 1 4 128 259 0 ## 782 43 1 4 110 211 0 ## 785 53 1 3 130 197 1 ## 787 65 1 1 1 138 282 1 ## 788 69 1 1 1 160 234 1 ## 789 69 1 3 140 254							
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## 836	54	1	3	120	258	0
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## 855	43	1	4	120	177	0
## 856	47	1	3	138	257	0
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	1166	57	1	2	154	232			0
	1168	57	1	4	110	335			0
	1169	47	1	3	130	253			0
	1171	35	1	2	122	192			0
	1172	61	1	4	148	203			0
	1173	58	1	4	114	318			0
	1175	58	1	2	125	220			0
	1176	56	1	2	130	221			0
	1177	56	1	2	120	240			0
	1178	67	1	3	152	212			0
	1180	44	1	4	120	169			0
	1181	63	1	4	140	187			0
	1183	41	1	2	120	157			0
	1184	59	1	4	164	176			1
	1186	45	1	1	110	264			0
	1187	68	1	4	144	193			1
	1188	57	1	4	130	131			0
	1190	38	1	3	138	175			0
##					exercise.angina		ST.slope	target	
##	1		0	172	0	0.0	. 1	0	
##	3		1	98	0	0.0	1	0	
##	5		0	122	0	0.0	1	0	
##	6		0	170	0	0.0	1	0	
##	8		0	142	0	0.0	1	0	
##	9		0	130	1	1.5	2	1	
##	12		1	99	1	2.0	2	1	
##	13		0	145	0	0.0	1	0	
##	14		0	140	1	1.0	2	1	
##	17		0	166	0	0.0	2	1	
##	19		0	125	0	1.0	2	1	
##	20		0	160	0	3.0	2	1	
##			0	142	0	1.0	2	0	
##			0	150	1	3.0	2	1	
##			0	138	0	0.0	1	0	
##			0	178	0	0.0	1	0	
##			1	112	1	3.0	2	0	
##			0	118	0	0.0	1	0	
##			0	145	0	0.0	1	0	
##			0	130	0	0.0	2	1	
##			0	114	0	0.0	1	0	
##			0	122	0	2.0	2	1	
##	34		1	130	0	2.0	2	1	

##	36	0	155	0	0.0	1	0
##	37	0	87	1	1.5	2	1
	43	0	168	0	0.0	1	0
	44	1	170	0	0.0	1	0
	45	0	120	1	1.0	2	1
##	46	0	120	1	1.0	2	0
##	47	0	168	0	0.0	1	0
	48	0	170	0	0.0	1	0
	49						
		0	184	0	1.0	2	0
	50	0	170	0	0.0	2	1
##	51	0	121	1	2.0	2	1
##	53	0	122	0	0.0	1	0
	57	0	153	1	1.5	2	1
	58	1	140	0	0.0	2	1
	59	1	134	0	1.0	1	0
	60	1	96	1	1.0	2	1
##	61	0	174	0	0.0	1	0
##	63	0	144	0	0.0	1	0
	64	0	125	1	1.0	2	1
	68	0	184	0	0.0	1	0
	69	1	82	1	4.0	2	1
	70	0	170	0	0.0	1	0
##	71	1	145	1	1.0	2	1
##	72	0	135	0	0.0	1	0
##	73	0	150	0	0.0	2	1
	75	0	128	1	1.5	2	1
	76	0	116	0	0.0	1	0
	77	0	130	0	0.0	2	1
	79	0	138	1	0.0	1	0
	80	0	170	0	0.0	2	1
##	81	0	160	0	0.0	1	0
##	82	0	154	0	0.0	1	0
##	83	0	115	0	0.0	2	1
	84	0	165	0	0.0	1	0
	85		125			2	
		0		1	1.0		1
	86	0	94	1	1.0	2	1
	87	0	112	1	2.0	2	1
##	89	1	155	0	0.0	2	1
##	90	0	110	1	0.5	2	0
	92	0	140	0	0.0	1	0
	94	0	92	1	1.5	2	1
	96	0	140	1	2.0	2	1
	97	0	138	0	0.0	1	0
	98	0	160	0	0.0	1	0
	99	0	140	0	0.0	1	0
##	100	0	144	0	0.0	1	0
	101	1	115	1	1.0	2	1
	102	0	100	0	0.0	1	0
	104	0	152	1	1.0	2	1
##	105	0	124	0	0.0	2	1

##	106	0	140	0	0.0	1	0
##	108	1	168	0	0.0	1	0
	109	0	135	0	0.0	1	0
	110	0	106	0	0.0	1	0
	112	0	92	1	3.0	2	1
	113	0	125	1	0.0	1	0
##	114	0	150	0	0.0	1	0
##	117	0	170	0	0.0	2	1
##	120	0	180	0	0.0	2	1
	123	1	140	0	0.0	1	0
	125	0	150	0	0.0	1	0
	126		110	0	0.0	1	0
		0					
	130	0	152	1	1.5	2	0
	131	0	130	0	0.0	1	0
	132	0	150	1	0.0	2	1
##	133	1	122	1	2.0	2	1
##	134	1	124	1	1.5	2	1
##	136	0	175	0	0.0	2	1
##	138	1	146	0	2.0	1	0
	139	0	118	1	0.0	2	1
	140	0	130	1	2.0	2	1
	141	0	94	1	2.5	2	1
	142						
		1	125	1	2.5	2	1
	143	1	158	1	3.0	2	1
	144	0	155	0	0.0	1	0
	146	0	132	0	0.0	1	0
##	147	0	155	0	0.0	1	0
##	149	0	160	0	0.0	1	0
##	150	0	125	1	1.0	2	1
##	151	0	120	0	0.0	1	0
	152	0	100	0	0.0	1	0
	153	0	150	0	0.0	1	0
	154	0	140	0	0.0	1	0
	155		160		0.0	1	0
		1		0			
	156	0	150	1	3.0	2	1
	157	0	150	1	1.0	2	1
	158	0	130	0	0.0	1	0
	159	0	100	1	2.0	2	1
##	160	1	130	0	1.0	1	0
##	161	2	119	1	0.0	2	1
##	162	0	96	1	0.0	2	1
	163	0	174	0	0.0	1	0
	165	0	150	0	0.0	1	0
	167	0	175	0	2.0	2	1
	168	1	140	1	5.0	2	1
	169	0	118	0	0.0	1	0
	170	0	100	0	0.0	1	0
	171	0	160	0	0.0	1	0
	172	0	160	0	0.0	1	0
##	173	0	188	0	0.0	1	0

##	174	0	162	0	0.0	1	0
##	175	0	172	0	0.0	1	0
##	176	0	134	1	2.0	2	1
	177	0	135	1	2.0	2	1
	178	0	105	0	1.5	2	1
	179	0	150	0	0.0	1	0
	180	0	150	0	0.0	1	0
	182	0	120	1	2.0	2	1
	183		150			1	0
		0		0	0.0		
	184	0	124	1	2.0	2	1
	185	1	140	1	1.0	2	0
	187	1	92	0	0.0	2	1
	188	0	110	0	0.0	1	0
	189	0	138	1	1.0	2	1
	191	1	120	1	1.5	2	1
	192	1	120	0	0.0	1	0
##	193	1	116	0	0.0	1	0
##	194	0	160	0	0.0	1	0
##	195	0	110	0	0.0	1	0
##	198	0	132	0	1.0	2	0
##	199	0	136	0	0.0	1	0
	200	0	116	1	0.0	2	1
	202	0	150	0	0.0	1	0
	203	0	150	0	0.0	1	0
	204	0	146	0	0.0	1	0
	206	0	100	0	0.0	1	0
	207	0	140	1	0.0	1	0
	208	2	180	0	0.0	1	0
	209		140			2	
	210	0	185	0	0.0		1
		2		0	0.0	1	0
	211	0	140	0	0.0	2	1
	212	0	110	0	0.0	2	1
	214	0	128	1	1.0	1	0
	216	0	98	1	1.5	2	1
	218	0	150	0	0.0	2	1
	219	0	137	0	0.0	1	0
	220	0	150	0	0.0	1	0
##	221	0	170	0	0.0	1	0
##	222	0	112	0	0.0	2	1
##	225	0	185	0	0.0	1	0
##	226	0	137	0	0.0	1	0
##	227	0	150	0	0.0	2	1
##	228	0	140	0	0.0	1	0
	229	0	134	1	2.5	2	1
	230	0	170	0	0.0	1	0
	232	0	158	0	0.0	1	0
	233	0	167	0	0.0	1	0
	235	0	142	0	0.0	1	0
	237		160	1		2	
		0		1	1.0	2	0
##	238	0	118	Т	3.0	2	1

##	239	0	136	0	0.0	2	1
##	240	0	99	1	2.0	2	1
##	241	0	102	1	3.0	2	1
	242	0	155	0	0.0	1	0
	243	0	142	1	2.0	2	1
	244	0	143	1	2.0	2	1
	246		103				
		0		1	1.0	2	1
	247	0	137	0	2.0	1	0
	248	0	150	1	1.5	2	1
	249	1	150	1	2.0	3	1
	250	1	130	1	1.0	2	1
##	251	0	120	1	1.0	2	1
##	252	0	135	0	0.0	2	1
##	253	0	115	0	2.0	2	1
##	254	1	115	1	0.0	1	0
	255	0	152	0	1.0	1	0
	256	0	96	1	2.0	2	1
	259	0	172	0	0.0	1	0
	262	0	165	1	0.0	1	0
	264	_					
		0	115	1	0.0	2	1
	265	0	125	0	0.0	2	1
	266	0	145	1	1.0	2	1
	267	0	175	0	0.0	1	0
	268	0	110	1	1.0	2	1
##	269	0	150	0	0.0	1	0
##	270	0	91	1	1.0	2	1
##	272	0	140	0	0.0	1	0
##	274	0	130	1	3.0	2	1
##	275	2	134	0	0.0	1	0
	277	0	100	0	0.0	1	0
	278	0	150	0	2.0	2	1
	279	0	126	1	1.5	2	1
	282	2	135	0	0.0	1	0
	283		122	0	2.0	2	
		0					1 0
	286	0	170	0	0.0	1	•
	288	0	140	0	0.0	1	0
	289	0	132	0	0.0	1	0
	291	0	180	0	0.0	1	0
	292	0	138	0	0.0	1	0
	294	0	148	0	0.0	1	0
##	418	1	112	1	3.0	2	1
##	419	1	127	0	0.0	1	0
##	420	1	140	1	1.5	3	1
##	421	1	149	1	2.5	1	1
	422	2	99	1	1.3	2	0
	424	1	105	1	0.0	2	1
	427	1	157	0	0.5	2	1
	428	1	140	0	0.0	1	0
	433	1	86	0	0.0	1	0
			84	1			
##	434	0	04	1	2.5	3	1

##	435	0	125	1	2.0	2	1
	445	1	140	1	0.5	2	1
	446	0	120	1	1.5	2	1
##	447	1	124	1	1.6	2	1
##	449	1	110	1	2.0	1	1
	450	0	105	1	1.0	2	1
	454	1	118	1	1.5	2	1
	456	0	123	1	1.2	2	1
##	462	1	118	1	1.9	2	1
##	464	0	117	1	1.3	3	1
##	467	0	160	0	0.0	1	0
	470	1	97	1	1.6	1	1
	471	0	161	0	2.0	2	0
	475	1	122	1	1.7	2	1
##	478	2	139	0	0.1	1	0
##	480	1	148	1	2.0	2	1
	484	0	125	0	2.5	1	1
	487	1	128	1	1.2	2	1
	488	1	180	0	0.4	1	0
##	489	1	144	1	2.0	2	1
##	490	0	135	0	0.3	1	0
##	491	0	140	1	3.0	2	1
##	492	0	102	1	1.0	2	1
##	493	1	108	0	0.0	2	1
	495	0	127	1	1.7	2	1
	496	0	110	1	2.5	2	1
	498	0	69	0	1.0	3	0
	499	0	148	1	3.0	3	1
	500		130	1	0.0	2	1
		1					
	501	0	130	1	1.0	2	1
	502	0	140	1	4.0	3	1
##	503	0	138	1	2.0	2	1
##	504	1	140	1	2.0	2	1
##	505	1	138	0	0.2	1	0
	506	0	112	1	3.0	3	1
	507	1	131	1	1.2	2	1
	508	0	112	1	3.0	2	1
	509	0	80	1	0.0	1	0
	511	0	110	0	0.0	2	1
	512	0	126	0	0.3	1	0
	513	1	88	1	2.0	2	1
	514	1	153	0	-0.1	1	0
##	515	1	150	1	1.3	2	1
##	518	0	132	0	0.0	0	1
	519	0	120	1	1.5	2	1
	521	1	121	1	1.0	1	1
	522	1	128	0	0.5	2	0
	523	1	135	1	4.0	3	1
	524	2	120	1	1.0	1	1
	524 525	0	117	1	1.0	2	1

##	526	1	150	0	0.0	1	0
##	527	0	144	0	0.1	1	0
	528	2	113	1	1.7	2	1
	529	0	135	0	0.3	1	0
	530	_	127			2	
		0		1	1.5		1
	531	0	109	1	1.4	2	1
	532	0	128	1	1.1	2	1
	533	1	115	1	1.8	2	1
##	534	1	102	0	0.0	2	1
##	535	1	140	1	2.0	2	1
##	536	0	135	1	2.5	3	1
	539	1	130	1	4.0	3	1
	540	0	112	1	2.0	2	1
	541	2	100	0	0.0	1	0
	542	1	122	1	1.2	2	1
	543	2	120	0	3.5	3	1
	545	1	129	1	3.0	3	1
##	547	1	139	0	0.2	1	0
##	548	1	162	0	0.0	2	1
##	549	1	100	0	1.5	3	1
##	550	0	140	0	1.5	1	1
	551	1	135	0	0.2	1	0
	552	0	73	0	2.0	2	1
	553		86			1	
		2		0	0.0		0
	554	0	108	1	1.8	2	1
	555	0	116	1	1.8	2	1
	556	1	160	0	0.3	1	0
##	557	1	118	1	0.0	2	1
##	558	0	112	1	2.0	3	0
##	559	1	122	1	1.8	2	1
##	560	1	124	1	1.4	2	1
	561	0	102	1	4.0	3	1
	562	1	137	0	0.2	1	0
	563		141	0	0.1	1	
		1					0
	564	0	154	1	2.0	2	0
	565	1	126	1	1.1	2	1
	566	1	160	1	2.0	2	1
	567	1	115	1	1.7	2	1
##	568	0	128	1	1.5	2	0
##	569	1	115	1	0.0	2	1
##	570	0	105	1	1.5	3	1
	571	0	110	1	2.5	2	1
	572	1	119	1	2.0	3	1
	573	0	109	1	1.5	2	1
		_					
	574	1	135	1	0.5	2	1
	575	2	130	0	1.5	2	1
	576	1	112	1	1.5	2	1
	577	0	126	1	1.2	2	1
##	578	1	120	1	3.0	2	1
##	579	0	110	1	1.9	2	1

##	580	2	119	1	3.0	3	1
##	581	1	110	1	1.8	2	1
	582	2	130	1	1.0	2	1
	583	0	159	1	1.5	1	1
	584	2	84	1	0.0	2	1
	585	2	126	0	0.3	1	0
	586					2	
		1	116	1	1.5		1
	587	1	120	0	0.8	2	1
	588	0	122	1	2.0	2	1
	589	2	165	0	1.0	2	0
	590	1	122	1	2.0	2	1
	591	0	94	0	0.0	2	1
	592	1	133	0	0.2	1	0
	593	1	110	0	0.0	1	0
##	594	2	150	1	2.0	3	1
##	595	2	130	0	0.0	2	1
##	596	2	113	1	1.0	1	1
##	597	2	140	1	0.5	2	1
##	598	2	100	0	0.0	2	1
	599	1	136	0	0.2	1	0
	600	2	127	1	1.7	3	1
	601	0	98	0	1.5	2	1
	602	1	96	1	1.0	2	0
	603	0	123	1	1.3	2	1
	604	0	98	1	0.0	2	1
	605	1	118	1	0.0	2	1
	606	0	112	1	1.5	3	1
	607	0	151	1	0.0	1	0
	609	1	108	1	3.0	2	1
	610	1	128	1	1.5	2	1
	611	1	138	1	0.0	2	1
	612	0	126	0	0.0	2	1
	614	1	137	0	0.2	1	0
	615	1	100	0	0.0	2	1
	616	2	135	0	0.3	1	0
	617	2	93	1	0.0	2	1
	618	2	109	0	2.4	2	1
	620	0	141	0	0.3	1	1
	621	0	105	1	0.2	2	0
	623	0	140	0	0.4	1	0
	624	2	142	1	0.6	2	1
##	625	2	142	1	1.2	2	1
##	626	2	170	0	1.2	2	1
##	628	0	161	0	0.5	2	0
##	629	2	111	1	0.0	1	0
	630	2	180	0	0.0	1	0
	631	0	145	0	2.6	2	1
	634	0	120	1	1.8	2	1
	635	2	155	1	3.1	3	1
	636	2	144	1	1.8	2	0
	-						-

##	637	0	178	1	1.4	1	0
	638	2	129	1	2.6	2	1
	639	2	180	0	0.2	2	0
	640	0	181	0	1.2	2	0
	641	0	143	0	0.1	1	0
##	646	2	165	0	2.5	2	1
##	648	2	150	0	0.4	2	1
##	649	2	138	0	2.3	1	0
	651	2	140	1	3.4	3	1
	652	2	126	1	0.9	2	1
	653		150			1	
		2		1	0.0		1
	654	2	138	1	1.9	1	1
	655	2	125	0	0.0	1	1
##	656	0	150	0	0.0	1	0
##	657	2	186	0	0.0	1	0
##	658	0	181	0	0.0	1	1
	660	0	179	1	0.4	1	0
	661	0	156	0	0.0	1	0
	662	0	134	0	2.2	2	1
	663	2	165	0	0.0	1	0
	664	2	126	0	0.8	1	1
	665	2	177	0	0.0	1	1
	666	0	120	1	0.0	2	1
	668	0	125	1	1.8	2	1
##	669	0	184	0	0.0	1	0
##	674	2	125	1	3.6	2	1
##	677	2	103	0	1.4	2	1
##	678	0	173	0	0.2	1	0
##	680	0	169	0	0.0	1	0
	682	2	150	0	2.3	3	0
	683	2	112	1	0.6	2	1
	684	2	186	1	0.0	1	0
	687	0	152	0	0.0	1	1
	688	0	140	1	3.6	2	1
	690	2	143	0	0.0	1	0
	693	2	147	1	0.0	2	1
##	694	2	148	1	3.0	2	0
##	697	0	178	0	0.8	1	0
##	698	0	105	0	2.0	2	1
	699	0	130	1	1.6	2	1
	700	2	111	1	0.8	1	1
	701	2	168	0	2.0	2	0
	702		126	1		2	
		0			1.5		0
	703	2	178	0	0.8	1	0
	704	2	140	0	0.0	1	0
	705	2	145	0	4.2	3	0
	707	2	128	0	2.6	2	1
##	708	0	164	1	0.0	1	0
##	710	2	109	1	2.2	2	1
##	711	2	108	1	0.0	2	1

##	712	0	168	0	1.0	1	1
	713	2	118	1	1.0	2	1
	714	2	151	0	0.4	2	0
	715	0	156	0	0.1	1	1
##	719	0	71	0	1.0	2	1
##	721	2	124	0	1.0	2	1
	722	2	147	0	1.4	2	_ 1
	723						
		2	166	0	0.5	2	1
	724	0	143	1	1.2	2	0
##	726	0	162	1	0.0	1	1
##	729	0	153	0	0.0	1	0
##	732	0	162	0	0.0	1	0
	734	2	144	0	0.8	1	1
	737	2	103	1	1.6	3	1
	738	0	139	0	2.0	2	1
	739	2	116	1	3.2	2	1
##	740	0	88	1	1.2	2	1
##	742	2	152	0	0.5	3	0
	744	0	99	1	1.8	2	1
	746	0	158	0	0.8	1	0
	747	0	160	1	1.4	1	1
	749	2	132	1	0.1	1	1
##	750	0	178	0	0.0	1	0
##	751	2	96	1	2.2	3	1
##	752	2	165	0	1.6	1	0
	755	2	144	1	1.2	2	1
	757	0	168	1	0.0	1	0
	758	2	132	0	2.0	2	1
	759	2	182	0	0.0	1	0
	760	0	163	0	0.6	2	1
##	761	2	125	1	1.4	1	0
##	762	2	195	0	0.0	1	1
	763	0	95	1	2.0	2	1
	764	0	160	0	0.0	1	1
	765		114				
		2		1	2.0	2	1
	766	2	173	0	3.2	1	1
	768	0	179	0	0.0	1	0
##	774	0	111	1	5.6	3	1
##	775	2	170	0	0.0	1	0
##	776	2	162	0	1.9	2	0
	778	0	182	1	3.8	2	1
	780	0	155	0	0.0	1	0
	781	2	130	1	3.0	2	1
	782	0	161	0	0.0	1	0
	785	2	152	0	1.2	3	0
##	787	2	174	0	1.4	2	1
	788	2	131	0	0.1	2	0
	789	2	146	0	2.0	2	1
	790	2	125	1	0.9	2	1
##	792	2	174	0	0.0	1	0

##	794	0	122	1	4.2	2	1
	795	0	147	0	3.6	2	1
	796	0	163	0	0.2	2	1
	797	0	163	0	0.0	1	0
##	798	0	194	0	0.8	3	0
##	800	2	158	0	0.0	1	1
	802	2	173	0	0.0	1	0
	803						
		0	162	0	1.9	1	0
	804	2	105	1	2.1	2	1
##	805	0	147	0	0.1	1	0
##	807	0	112	1	2.9	2	1
##	808	0	160	0	1.2	1	0
	809	0	125	1	2.6	3	1
	810	0	156	0	0.0	1	0
	811	2	156	1	0.0	1	1
	812	0	175	0	0.0	1	0
##	817	2	162	1	0.0	1	1
##	818	0	151	0	1.0	1	0
	819	2	171	0	0.0	1	1
	820	2	141	1	2.8	2	1
	821		173			1	1
		0		1	1.6		
	822	2	145	1	0.8	2	1
	823	0	178	0	1.2	2	0
##	825	2	154	1	0.6	2	0
##	826	0	131	1	1.8	2	1
##	827	0	187	0	3.5	3	0
	828	2	159	0	0.2	2	1
	829	2	166	0	2.4	2	0
	831	2	131	1	2.2	2	1
	832	2	202	0	0.0	1	0
##	835	0	154	1	0.0	1	0
##	836	2	147	0	0.4	2	0
##	837	0	170	0	0.0	1	0
	838	0	126	1	2.8	2	1
	839		127	0		2	
		2			2.8		1
	840	0	174	0	1.6	1	0
	841	2	132	1	1.8	1	1
##	843	0	132	0	0.0	2	0
##	847	2	190	0	0.0	2	0
	849	0	140	0	1.2	2	1
	850	2	185	0	0.0	1	0
	851	0	161	1	0.0	1	1
	852	0	146	0	1.8	2	0
	855	2	120	1	2.5	2	1
##	856	2	156	0	0.0	1	0
##	857	0	172	0	0.2	1	0
	858	2	150	1	1.6	2	1
	859	2	182	0	0.0	1	0
	863	0	144	1	1.4	1	1
##	864	2	158	0	0.6	1	1

##	866	2	155	0	3.0	2	1
##	867	2	142	1	2.8	2	1
	868	0	113	0	1.4	2	1
	869	2	188	0	0.0	1	0
	870	2	153	0	0.0	1	1
	871	0	123	0	0.6	1	0
	872		157			1	
		0		0	1.6		0
	874	0	137	1	1.0	2	0
	875	0	132	1	1.2	2	1
	876	0	158	0	0.0	1	1
	877	0	171	0	1.5	1	0
	879	2	132	1	2.4	2	1
	880	2	160	0	1.8	2	1
##	881	0	171	0	0.6	1	0
##	882	0	168	0	1.0	3	1
##	883	0	162	0	0.5	1	0
##	884	0	173	0	0.0	1	0
##	886	0	148	0	0.4	2	0
	887	2	108	1	1.5	2	1
	888	2	150	0	2.3	3	0
	889	2	108	1	1.5	2	1
	890	2	129	1	2.6	2	1
	891	0	187	0	3.5	3	0
	893	0	178	0	0.8	1	0
	896	2	147	0	1.4	2	1
	897	2	155	1	3.1	3	1
	898	0	148	0	0.4	2	0
	900	2	142	1	0.6	2	1
	901	0	173	0	0.0	1	0
	902	0	162	0	0.5	1	0
	903	0	174	0	1.6	1	0
	904	_				3	1
		0	168	0	1.0		
	905	0	160	0	1.2	1	0
	907	0	171	0	0.6	1	0
	908	2	144	1	1.8	2	0
	910	2	160	0	1.8	2	1
	911	2	173	0	3.2	1	1
	912	2	132	1	2.4	2	1
	916	0	171	0	1.5	1	0
	917	2	114	1	2.0	2	1
	919	0	160	1	1.4	1	1
##	920	0	158	0	0.0	1	1
##	921	0	161	0	0.5	2	0
##	922	0	179	1	0.4	1	0
##	923	0	178	0	0.0	1	0
	924	2	120	1	2.5	2	1
	925	2	112	1	0.6	2	1
	926	0	132	1	1.2	2	1
	927	0	137	1	1.0	2	0
	929	0	178	_ 1	1.4	1	0
	-	-		_		-	_

## 931	0	157	0	1.6	1	0
## 933	2	165	0	2.5	2	1
## 934	0	123	0	0.6	1	0
## 935	2	128	0	2.6	2	1
## 937	2	152	0	1.2	3	0
## 939	0	140	0	0.4	1	0
## 940	2	153	0	0.0	1	1
## 941	2	188	0	0.0	1	0
## 942	0	144	1	1.4	1	1
## 943	2	109	1	2.2	2	1
## 944	0	163	0	0.6	2	1
## 945	2	158	0	0.0	1	1
## 946	2	152	0	0.5	3	0
## 947	2	125	1		1	0
				1.4		
## 950	2	131	1	2.2	2	1
## 952	0	113	0	1.4	2	1
## 953	2	142	1	2.8	2	1
## 954	2	155	0	3.0	2	1
## 955	2	165	ø	1.6	1	0
## 956	2	140	1	3.4	3	1
## 957	0	147	0	3.6	2	1
## 959	0	163	0	0.2	2	1
## 960	0	99	1	1.8	2	1
## 961	2	158	0	0.6	1	1
## 962	2	177	0	0.0	1	1
## 964	2	141	1	2.8	2	1
## 966	2	180	9	0.2	2	0
## 967	2	111	1	0.8	1	1
## 968	2	148	1	3.0	2	0
## 970	2	182	0	0.0	1	0
## 971	2	150	1	1.6	2	1
## 972	0	172	0	0.2	1	0
## 973	2	180	0	0.0	1	0
## 974	2	156	0	0.0	1	0
## 978	2	151	0	0.4	2	0
## 980	0	146	ø	1.8	2	0
## 983	0	161	1	0.0	1	1
## 984	2	142	1	1.2	2	1
## 986	0	158	0	0.8	1	0
## 987	2	186	0	0.0	1	0
## 988	2	185	0	0.0	1	0
## 989	2	174	0	0.0	1	0
## 992	0	139	ø	2.0	2	1
## 993	0	156	0	0.0	1	0
## 994	0	162	1	0.0	1	1
## 995	2	150	0	0.4	2	1
## 996	0	140	1	3.6	2	1
## 997	0	140	0	1.2	2	1
## 999	2	144	1	1.2	2	1
## 1000	2	190	0	0.0	2	0
1000	_		· ·	0.0	_	

##	1003	0	132	0	0.0	2	0
	1004	2	165	0	0.0	1	0
	1006	2	132	1	1.8	1	1
	1007	2	127	0	2.8	2	1
	1008	2	150	1	0.0	1	1
	1010	0	143	1	1.2	2	0
##	1011	0	111	1	5.6	3	1
##	1012	2	174	0	1.4	2	1
##	1015	0	126	1	2.8	2	1
	1016	0	170	0	0.0	1	0
	1018	2	147	0	0.4	2	0
	1019	0	154	1	0.0	1	0
	1020	2	202	0	0.0	1	0
	1021	2	186	1	0.0	1	0
##	1024	0	125	1	2.6	3	1
##	1025	2	103	0	1.4	2	1
##	1026	0	130	1	1.6	2	1
	1027	2	166	0	2.4	2	0
	1028	0	164	1	0.0	1	0
	1029	2	159	0	0.2	2	1
	1030					1	
		0	184	0	0.0		0
	1031	0	131	1	1.8	2	1
	1032	2	154	1	0.6	2	0
	1033	0	152	0	0.0	1	1
##	1034	2	124	0	1.0	2	1
##	1035	0	179	0	0.0	1	0
##	1036	2	170	0	0.0	1	0
##	1038	0	178	0	1.2	2	0
##	1041	2	145	1	0.8	2	1
	1042	2	96	1	2.2	3	1
	1043	2	109	0	2.4	2	1
	1044	0	173	1	1.6	1	1
	1045	2	171	0	0.0	1	1
	1046	2	170	0	1.2	2	1
	1047	0	151	0	1.0	1	0
##	1048	0	156	0	0.0	1	0
##	1049	2	162	1	0.0	1	1
##	1052	0	175	0	0.0	1	0
##	1053	0	168	1	0.0	1	0
	1054	0	169	0	0.0	1	0
	1056	2	156	1	0.0	1	1
	1058	0	112	1	2.9	2	1
	1059	2	111	1	0.0	1	0
	1062						
		2	132	0	2.0	2	1
	1063	0	88	1	1.2	2	1
	1064	0	147	0	0.1	1	0
	1065	2	105	1	2.1	2	1
##	1066	0	162	0	1.9	1	0
##	1067	2	173	0	0.0	1	0
##	1068	2	166	0	0.5	2	1

##	1070	2	178	0	0.8	1	0
	1071	2	145	0	4.2	3	0
	1074	0	194	0	0.8	3	0
	1075	0	120	1	0.0	2	1
	1076	2	195	0	0.0	1	1
##	1077	2	146	0	2.0	2	1
##	1078	0	163	0	0.0	1	0
##	1079	0	122	1	4.2	2	1
	1080	2	143	1	0.1	2	1
	1083	2	125	1	0.9	2	1
	1084	2	131	0	0.1	2	0
	1087	2	125	0	0.0	1	1
##	1090	0	173	0	0.2	1	0
##	1092	0	161	0	0.0	1	0
##	1093	2	147	1	0.0	2	1
	1094	2	130	1	3.0	2	1
	1095	2	126	1	0.9	2	1
	1096	0	155	0	0.0	1	0
	1099	0	182	1	3.8	2	1
##	1100	2	168	0	2.0	2	0
##	1102	0	160	0	0.0	1	1
##	1103	2	162	0	1.9	2	0
	1107	2	182	0	0.0	1	0
	1111	0	95	1	2.0	2	1
	1114						
		0	143	0	0.1	1	0
	1116	2	108	1	0.0	2	1
	1117	2	132	1	0.1	1	1
##	1120	2	126	0	0.8	1	1
##	1123	2	116	1	3.2	2	1
##	1124	2	103	1	1.6	3	1
	1125	2	144	0	0.8	1	1
	1127	0	162	0	0.0	1	0
	1128		153				
		0		0	0.0	1	0
	1131	0	145	0	2.6	2	1
	1133	0	71	0	1.0	2	1
##	1134	0	156	0	0.1	1	1
##	1135	2	118	1	1.0	2	1
##	1136	0	168	0	1.0	1	1
	1137	2	140	0	0.0	1	0
	1138	0	126	1	1.5	2	0
	1139		105		2.0	2	1
		0		0			
	1140	0	105	1	0.2	2	0
	1142	0	181	0	1.2	2	0
	1146	2	143	0	0.0	1	0
##	1147	0	141	0	0.3	1	1
	1151	0	169	0	0.0	1	0
	1152	2	125	1	3.6	2	1
	1153	0	125	1	1.8	2	1
	1154	0	156	1	1.0	2	1
##	1155	0	134	0	2.2	2	1

ππ	1130			U		.01		U	0.0	,			
##	1157			0	1	50		0	0.6)	1	0	
##	1158			2	1	.38		1	1.9)	1	1	
	1159			2		38		0	2.3		1	0	
	1160			0		20		1	1.8		2	1	
	1162			0		.62		0	0.8		1	1	
	1163			2		.55		0	0.6		2	0	
	1166			2		.64		0	0.0		1	1	
	1168												
				0		43		1	3.6		2	1	
	1169			0		79		0	0.6		1	0	
	1171			0		74		0	0.6		1	0	
	1172			0		61		0	0.6		1	1	
	1173			1		40		0	4.4		3	1	
	1175			0		44		0	0.4		2	0	
	1176			2		.63		0	0.6		1	0	
##	1177			0	1	.69		0	0.6	9	3	0	
##	1178			2	1	.50		0	0.8	3	2	1	
##	1180			0	1	44		1	2.8	3	3	1	
##	1181			2	1	44		1	4.6	9	1	1	
##	1183			0	1	82		0	0.6)	1	0	
##	1184			2		90		0	1.6)	2	1	
##	1186			0		32		0	1.2		2	1	
	1187			0		41		0	3.4		2	1	
	1188			0		.15		1	1.2		2	1	
	1190			0		.73		0	0.6		1	0	
hea ##	rt_cl				\$chest.pa ain.type								
	1	40	1		2	J	140		289		Ü	0	
	2	49	0		3		160		180			0	
	3	37	1		2		130		283			0	
	4	48	0		4		138		214			0	
	5	54	1		3		150		195			0	
	6	39	1		3		120		339			0	
##		45	0		2		130		237			0	
##		54	1		2		110		208			0	
##		37	1		4		140		207			0	
##		48	0		2		120		284			0	
##		37	0		3		130		211			0	
##		58					136						
			1		2				164			0	
##		39	1		2		120		204			0	
##		49	1		4		140		234			0	
##		42	0		3		115		211			0	
##		54	0		2		120		273			0	
##		38	1		4		110		196			0	
##	18	43	0		2		120		201			0	

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## 22	44	1	2	120	184	0
## 23	49	0	2	124	201	0
## 24	44	1	2	150	288	0
## 25	40	1	3	130	215	0
## 26	36	1	3	130	209	0
## 27	53	1	4	124	260	0
## 28	52	1	2	120	284	0
## 29	53	0	2	113	468	0
## 30	51	1	2	125	188	0
## 31	53	1	3	145	518	0
## 32	56	1	3	130	167	0
## 33	54	1	4	125	224	0
## 34	41	1	4	130	172	0
## 35	43	0	2	150	186	0
## 36	32	1	2	125	254	0
## 37	65	1	4	140	306	1
## 38	41	0	2	110	250	0
## 39	48	0	2	120	177	1
## 40	48	0	4	150	227	0
## 41	54	0	2	150	230	0
## 42	54	0	3	130	294	0
## 42	35	1	2	150	264	0
## 44		1				
	52		3	140	259 175	0
## 45	43	1	4	120	175	0
## 46	59	1	3	130	318	0
## 47	37	1	4	120	223	0
## 48	50	1	2	140	216	0
## 49	36	1	3	112	340	0
## 50	41	1	4	110	289	0
## 51	50	1	4	130	233	0
## 52	47	0	4	120	205	0
## 53	45	1	2	140	224	1
## 54	41	0	2	130	245	0
## 55	52	0	4	130	180	0
## 56	51	0	2	160	194	0
## 57	31	1	4	120	270	0
## 58	58	1	3	130	213	0
## 59	54	1	4	150	365	0
## 60	52	1	4	112	342	0
## 61	49	1	2	100	253	0
## 62	43	0	3	150	254	0
## 63	45	1	4	140	224	0
## 64	46	1	4	120	277	0
## 65	50	0	2	110	202	0
## 66	37	0	2	120	260	0
## 67	45	0	4	132	297	0
## 68	32	1	2	110	225	0
## 69	52	1	4	160	246	0
## 70	44	1	4	150	412	0
## 71	57	1	2	140	265	0
, _	٥,	_	_	_ 10	_0,	J

## 72	44	1	2	130	215	0
## 73	52	1	4	120	182	0
## 74	44	0	4	120	218	0
## 75	55	1	4	140	268	0
## 76	46	1	3	150	163	0
## 77	32	1	4	118	529	0
## 78	35	0	4	140	167	0
## 79	52	1	2	140	100	0
## 80	49	1	4	130	206	0
## 81	55	1	3	110	277	0
## 82	54	1	2	120	238	0
## 83	63	1	4	150	223	0
## 84	52	1	2	160	196	0
## 85	56	1	4	150	213	1
## 86	66	1	4	140	139	0
## 87	65	1	4	170	263	1
## 88	53	0	2	140	216	0
## 89	43	1	1	120	291	0
## 90	55	1	4	140	229	0
## 91	49	0	2	110	208	0
## 92	39	1	4	130	307	0
## 92	52	0	2	120	210	0
## 93		1				
	48		4	160	329	0
## 95	39	0	3	110	182	0
## 96	58	1	4	130	263	0
## 97	43	1	2	142	207	0
## 98	39	1	3	160	147	1
## 99	56	1	4	120	85	0
## 100	41	1	2	125	269	0
## 101	65	1	4	130	275	0
## 102	51	1	4	130	179	0
## 103	40	0	4	150	392	0
## 104	40	1	4	120	466	1
## 105	46	1	4	118	186	0
## 106	57	1	2	140	260	1
## 107	48	0	4	120	254	0
## 108	34	1	2	150	214	0
## 109	50	1	4	140	129	0
## 110	39	1	2	190	241	0
## 111	59	0	2	130	188	0
## 112	57	1	4	150	255	0
## 113	47	1	4	140	276	1
## 114	38	1	2	140	297	0
## 115	49	0	3	130	207	0
## 116	33	0	4	100	246	0
## 117	38	1	4	120	282	0
## 118	59	0	4	130	338	1
## 119	35	0	1	120	160	0
## 120	34	1	1	140	156	0
## 120	47	0	3	135	248	1
TT 141	4/	J	ر	100	240	1

## 122	52	0	3	125	272	0
## 123	46	1	4	110	240	0
## 124	58	0	2	180	393	0
## 125	58	1	2	130	230	0
## 126	54	1	2	120	246	0
## 127	34	0	2	130	161	0
## 128	48	0	4	108	163	0
## 129	54	0	2	120	230	1
## 130	42	1	3	120	228	0
## 131	38	1	3	145	292	0
## 132	46	1	4	110	202	0
	56	1	4	170	388	0
## 134	56	1	4	150	230	0
## 135	61	0	4	130	294	0
## 136	49	1	3	115	265	0
## 137	43	0	2	120	215	0
## 138	39	1	2	120	241	0
## 139	54	1	4	140	166	0
## 140	43	1	4	150	247	0
## 141	52	1	4	160	331	0
## 142	50	1	4	140	341	0
## 143	47	1	4	160	291	0
## 144	53	1	4	140	243	0
## 145	56	0	2	120	279	0
## 146	39	1	4	110	273	0
## 147	42	1	2	120	198	0
## 148	43	0	2	120	249	0
## 149	50	1	2	120	168	0
## 150	54	1	4	130	603	1
## 151	39	1	2	130	215	0
## 152	48	1	2	100	159	0
## 153	40	1	2	130	275	0
## 154	55	1	4	120	279	0
## 155	41	1	2	120	291	0
## 156					342	
## 150	56	1	4	155		1
	38	1	4	110	190	0
## 158	49	1	4	140	185	0
## 159	44	1	4	130	290	0
## 160	54	1	2	160	195	0
## 161	59	1	4	140	264	1
## 162	49	1	4	128	212	0
## 163	47	1	2	160	263	0
## 164	49	0	2	110	208	0
## 165	42	1	2	120	196	0
## 166	52	0	2	140	225	0
## 167	46	1	1	140	272	1
## 168	50	1	4	140	231	0
## 169	48	1	2	140	238	0
## 170	58	1	4	135	222	0
## 171	58	1	3	140	179	0
			_			

##	172	29	1	2	120	243	0
##	173	40	1	3	140	235	0
##	174	53	1	2	140	320	0
##	175	49	1	3	140	187	0
##	176	52	1	4	140	266	0
##	177	43	1	4	140	288	0
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	179	59	1	2	140	287	0
##	180	37	1	3	130	194	0
	181	46	0	4	130	238	0
	182	52	1	4	130	225	0
	183	51	1	2	130	224	0
	184	52	1	4	140	404	0
	185	46	1	4	110	238	0
	186	54	0	2	160	312	0
	187	58	1	3	160	211	1
	188	58	1	2	130	251	0
	189	41	1	4	120	237	1
	190	50	0	4	120	328	0
	191	53	1	4	180	285	0
	192	46	1	4	180	280	0
	193	50		2	170	209	0
	193		1				
		48	1	2	130	245	0
	195	45	1	3	135	192	0
	196	41	0	2	125	184	0
	197	62	0	1	160	193	0
	198	49	1	4	120	297	0
	199	42	1	2	150	268	0
	200	53	1	4	120	246	0
##	201	57	0	1	130	308	0
	202	47	1	1	110	249	0
##	203	46	1	3	120	230	0
	204	42	1	3	160	147	0
	205	31	0	2	100	219	0
	206	56	1	2	130	184	0
	207	50	1	4	150	215	0
	208	35	1	2	120	308	0
	209	35	1	2	110	257	0
##	210	28	1	2	130	132	0
##	211	54	1	4	125	216	0
##	212	48	1	4	106	263	1
##	213	50	0	3	140	288	0
##	214	56	1	3	130	276	0
##	215	56	0	3	130	219	0
##	216	47	1	4	150	226	0
	217	30	0	1	170	237	0
	218	39	1	4	110	280	0
	219	54	1	3	120	217	0
	220	55	1	2	140	196	0
	221	29	1	2	140	263	0

## 222	46	1	4	130	222	0
## 223	51	0	4	160	303	0
## 224	48	0	3	120	195	0
## 225	33	1	3	120	298	0
## 226	55	1	2	120	256	1
## 227	50	1	4	145	264	0
## 228	53	1	3	120	195	0
## 229	38	1	4	92	117	0
## 230	41	1	2	120	295	0
## 231	37	0	4	130	173	0
## 232	37	1	4	130	315	0
## 233	40	1	3	130	281	0
## 234	38	0	2	120	275	0
## 235	41	1	4	112	250	0
## 236	54	0	2	140	309	0
## 237	39	1	2	120	200	0
## 238	41	1	4	120	336	0
## 239	55	1	1	140	295	0
## 240	48	1	4	160	355	0
## 241	48	1	4	160	193	0
## 242	55	1	2	145	326	0
## 242	54	1	4	200	198	0
## 244	55	1	2	160	292	1
## 244	43	0	2	120	266	0
## 245	48	1	4	160	268	0
## 246	40 54					
		1	1	120	171	0
	54	1	3	120	237	0
## 249	48	1	4	122	275	1
## 250	45	1	4	130	219	0
## 251	49	1	4	130	341	0
## 252	44	1	4	135	491	0
## 253	48	1	4	120	260	0
## 254	61	1	4	125	292	0
## 255	62	1	2	140	271	0
## 256	55	1	4	145	248	0
## 257	53	0	3	120	274	0
## 258	55	0	2	130	394	0
## 259	36	1	3	150	160	0
## 260	51	0	3	150	200	0
## 261	55	0	2	122	320	0
## 262	46	1	2	140	275	0
## 263	54	0	2	120	221	0
## 264	46	1	4	120	231	0
## 265	59	1	4	130	126	0
## 266	47	1	3	140	193	0
## 267	54	1	2	160	305	0
## 268	52	1	4	130	298	0
## 269	34	1	2	98	220	0
## 270	54	1	4	130	242	0
## 271	47	0	3	130	235	0

## 272	45	1	4	120	225	0
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## 274	55	1	4	140	201	0
## 275	55	1	3	120	220	0
## 276	45	0	2	180	295	0
## 277	59	1	3	180	213	0
## 278	51	1	3	135	160	0
## 279	52	1	4	170	223	0
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## 281	54	0	2	130	253	0
## 281	60	1	3	120	246	0
## 282						
	49	1	4	150	222	0
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## 288	59	1	4	140	169	0
## 289	53	1	2	120	181	0
## 290	48	0	2	133	308	0
## 291	36	1	2	120	166	0
## 292	48	1	3	110	211	0
## 293	47	0	2	140	257	0
## 294	53	1	4	130	182	0
## 418	63	1	4	140	260	0
## 419	44	1	4	130	209	0
## 420	60	1	4	132	218	0
## 421	55	1	4	142	228	0
## 422	66	1	3	110	213	1
## 424	65	1	4	150	236	1
## 427	60	1	2	160	267	1
## 428	56	1	2	126	166	0
## 433	62	1	4	120	220	0
## 434	63	1	4	170	177	0
## 435	46	1	4	110	236	0
## 445	60	1	4	130	186	1
## 446	56	1	4	120	100	0
## 447	55		3		228	
		1		136		0
## 449	77	1	4	124	171	0
## 450	63	1	4	160	230	1
## 454	60	1	4	140	281	0
## 456	58	1	4	136	203	1
## 462	57	1	4	139	277	1
## 464	59	1	4	122	233	0
## 467	42	1	3	134	240	0
## 470	62	1	4	152	153	0
## 471	56	1	2	124	224	1
## 475	60	1	3	141	316	1
## 478	51	1	4	132	218	1
## 480	57	1	4	130	311	1
## 484	67	1	1	142	270	1

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## 487	63	1	2	139	217	1
## 488	55	1	2	110	214	1
## 489	57	1	4	140	214	0
## 490	65	1	1	140	252	0
## 491	54	1	4	136	220	0
## 492	72	1	3	120	214	0
## 493	75	1	4	170	203	1
## 495	51	1	3	137	339	0
## 496	60	1	4	142	216	0
## 497	64	0	4	142	276	0
## 498	58	1	4	132	458	1
## 499	61	1	4	146	241	0
## 500	67	1	4	160	384	1
## 501	62	1	4	135	297	0
## 502	65	1	4	136	248	0
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## 505	51	1	4	132	227	1
## 506	62	1	4	158	210	1
## 507	55	1	3	136	245	1
## 508	75	1	4	136	225	0
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## 511	58	1	4	110	198	0
## 512	60	1	4	136	195	0
## 513	63	1	4	160	267	1
## 514	35	1	3	123	161	0
## 515	62	1	1	112	258	0
## 518	68	1	3	150	195	1
## 519	65	1	4	150	235	0
## 521	63	1	4	96	305	0
## 522	64	1	4	130	223	0
## 523	61	1	4	120	282	0
## 524	50	1	4	144	349	0
## 525	59	1	4	124	160	0
## 526	55	1	4	150	160	0
## 527	45	1	3	130	236	ő
## 528	65	1	4	144	312	0
## 529	61	1	2	139	283	0
## 530	49	1	3	131	142	0
## 531	72	1	4	143	211	0
## 531	50	1	4	133	218	0
## 533	64	1	4	143	306	1
## 534	55	1	4	116	186	1
## 535	63	1	4	110	252	0
## 536	59	1	4	116 125	222	0
## 536	59 74	1	4	150	258	
## 549	74 54	1	4	130	258 202	1 1
## 540	54 57				202 197	
## 541 ## 542	62	1	4	110		0
## 542 ## 543	62 76	1 1	3 3	138 104	204 113	0 0
## 543	70	1	3	104	113	Ø

## 544	54	0	4	138	274	0
## 545	70	1	4	170	192	0
## 546	61	0	2	140	298	1
## 547	48	1	4	132	272	0
## 548	48	1	3	132	220	1
## 549	61	1	1	142	200	1
## 550	66	1	4	112	261	0
## 551	68	1	1	139	181	1
## 552	55	1	4	172	260	0
## 553	62	1	3	120	220	0
## 554	71	1	3	144	221	0
## 555	74	1	1	145	216	1
## 556	53	1	3	155	175	1
## 557	58	1	3	150	219	0
## 558	75	1	4	160	310	1
## 559	56	1	3	137	208	1
## 560	58	1	3	137	232	0
## 561	64	1	4	134	273	0
## 562	54	1	3	133	203	0
## 563	54	1	2	132	182	0
## 564	59	1	4	140	274	0
## 565	55	1	4	135	204	1
## 566	57	1	4	144	270	1
## 567	61	1	4	141	292	0
## 568	41	1	4	150	171	0
## 569	71	1	4	130	221	0
## 570	38	1	4	110	289	0
## 571	55	1	4	158	217	0
## 572	56	1	4	128	223	0
## 573	69	1	4	140	110	1
## 574	64	1	4	150	193	0
## 575	72	1	4	160	123	1
## 576	69	1	4	142	210	1
## 577	56	1	4	137	282	1
## 578	62	1	4	139	170	0
## 579	67	1	4	146	369	0
## 580	57	1	4	156	173	0
## 581	69	1	4	145	289	1
## 582	51	1	4	131	152	1
## 583	48	1	4	140	208	0
## 584	69	1	4	122	216	1
## 585	69	1	3	142	271	0
## 586	64	1	4	141	244	1
## 587	57	1	2	180	285	1
## 588	53	1	4	124	243	0
## 589	37	1	3	118	240	0
## 590	67	1	4	140	219	0
## 591	74	1	3	140	237	1
## 592	63	1	2	136	165	0
## 593	58	1	4	100	213	0
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## 594	61	1	4	190	287	1
## 595	64	1	4	130	258	1
## 596	58	1	4	160	256	1
## 597	60	1	4	130	186	1
## 598	57	1	4	122	264	0
## 599	55	1	3	133	185	0
## 600	55	1	4	120	226	0
## 601	56	1	4	130	203	1
## 602	57	1	4	130	207	0
## 603	61	1	3	140	284	0
## 604	61	1	3	120	337	0
## 605	58	1	3	150	219	0
## 606	74	1	4	155	310	0
## 607	68	1	3	134	254	1
## 608	51	0	4	114	258	1
## 609	62	1	4	160	254	1
## 610	53	1	4	144	300	1
## 611	62	1	4	158	170	0
## 611	46	1	4	134	310	0
## 612	54	0	4	127	333	1
## 613	62					
		1	1	135	139	0
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## 616	58	1	4	140	385	1
## 617	62	1	2	120	254	0
## 618	70	1	4	130	322	0
## 619	67	0	3	115	564	0
## 620	57	1	2	124	261	0
## 621	64	1	4	128	263	0
## 622	74	0	2	120	269	0
## 623	65	1	4	120	177	0
## 624	56	1	3	130	256	1
## 625	59	1	4	110	239	0
## 626	60	1	4	140	293	0
## 627	63	0	4	150	407	0
## 628	59	1	4	135	234	0
## 629	53	1	4	142	226	0
## 630	44	1	3	140	235	0
## 631	61	1	1	134	234	0
## 632	57	0	4	128	303	0
## 633	71	0	4	112	149	0
## 634	46	1	4	140	311	0
## 635	53	1	4	140	203	1
## 636	64	1	1	110	211	0
## 637	40	1	1	140	199	0
## 638	67	1	4	120	229	0
## 639	48	1	2	130	245	0
## 640	43	1	4	115	303	0
## 641	47	1	4	112	204	0
## 642	54	0	2	132	288	1
## 643	48	0	3	130	275	0
		-	_		-	•

## 644	46	0	4	138	243	0
## 645	51	0	3	120	295	0
## 646	58	1	3	112	230	0
## 647	71	0	3	110	265	1
## 648	57	1	3	128	229	0
## 649	66	1	4	160	228	0
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## 651	59	1	4	170	326	0
## 652	50	1	4	144	200	0
## 653	48	1	4	130	256	1
## 654	61	1	4	140	207	0
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## 656	42	1	3	130	180	0
## 657	48	1	4	122	222	0
## 658	40	1	4	152	223	0
## 659	62	0	4	124	209	0
## 660	44	1	3	130	233	0
## 661	46	1	2	101	197	1
## 662	59	1	3	126	218	1
## 663	58	1	3	140	211	1
## 664	49	1	3	118	149	0
## 665	44	1	4	110	197	0
## 666	66	1		160	246	
## 667			2			0
	65 42	0	4	150	225	0
## 668	42	1	4	136	315	0
## 669	52	1	2	128	205	1
## 670	65	0	3	140	417	1
## 671	63	0	2	140	195	0
## 672	45	0	2	130	234	0
## 673	41	0	2	105	198	0
## 674	61	1	4	138	166	0
## 675	60	0	3	120	178	1
## 676	59	0	4	174	249	0
## 677	62	1	2	120	281	0
## 678	57	1	3	150	126	1
## 679	51	0	4	130	305	0
## 680	44	1	3	120	226	0
## 681	60	0	1	150	240	0
## 682	63	1	1	145	233	1
## 683	57	1	4	150	276	0
## 684	51	1	4	140	261	0
## 685	58	0	2	136	319	1
## 686	44	0	3	118	242	0
## 687	47	1	3	108	243	0
## 688	61	1	4	120	260	0
## 689	57	0	4	120	354	0
## 690	70	1	2	156	245	0
## 691	76	0	3	140	197	0
## 692	67	0	4	106	223	0
## 693	45	1	4	142	309	0
		_		- · -	2.02	· ·

## 694	45	1	4	104	208	0
## 695	39	0	3	94	199	0
## 696	42	0	3	120	209	0
## 697	56	1	2	120	236	0
## 698	58	1	4	146	218	0
## 699	35	1	4	120	198	0
## 700	58	1	4	150	270	ø
## 700	41	1	3	130	214	0
## 702	57	1	4	110	201	0
## 703	42	1	1	148	244	0
## 704	62	1	2	128	208	1
## 705	59	1	1	178	270	0
## 706	41	0	2	126	306	0
## 707	50	1	4	150	243	0
## 708	59	1	2	140	221	0
## 709	61	0	4	130	330	0
## 710	54	1	4	124	266	0
## 711	54	1	4	110	206	0
## 712	52	1	4	125	212	0
## 713	47	1	4	110	275	0
## 713	66	1	4	120	302	0
## 714	58	1	4	100	234	
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## 716	64	0	3	140	313	0
## 717	50	0	2	120	244	0
## 718	44	0	3	108	141	0
## 719	67	1	4	120	237	0
## 720	49	0	4	130	269	0
## 721	57	1	4	165	289	1
## 722	63	1	4	130	254	0
## 723	48	1	4	124	274	0
## 724	51	1	3	100	222	0
## 725	60	0	4	150	258	0
## 726	59	1	4	140	177	0
## 727	45	0	2	112	160	0
## 728	55	0	4	180	327	0
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## 730	60	0	4	158	305	0
## 731	54	0	3	135	304	1
## 732	42	1	2	120	295	0
## 733	49	0	2	134	271	0
## 734	46	1	4	120	249	0
## 735	56	0	4	200	288	1
## 736	66	0	1	150	226	0
## 737	56	1	4	130	283	1
## 738	49	1	3	120	188	0
## 739	54	1	4	122	286	0
## 740	57	1	4	152	274	0
## 741	65	0	3	160	360	0
## 741	54	1	3	125	273	0
## 742	54	0	3	160	201	0
ππ /43	54	U	3	100	201	0

## 744	62	1	4	120	267	0
## 745	52	0	3	136	196	0
## 746	52	1	2	134	201	0
## 747	60	1	4	117	230	1
## 748	63	0	4	108	269	0
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## 751	64	1	4	120	246	0
## 751	54	1			232	
			3	150		0
## 753	46	0	3	142	177	0
## 754	67	0	3	152	277	0
## 755	56	1	4	125	249	1
## 756	34	0	2	118	210	0
## 757	57	1	4	132	207	0
## 758	64	1	4	145	212	0
## 759	59	1	4	138	271	0
## 760	50	1	3	140	233	0
## 761	51	1	1	125	213	0
## 762	54	1	2	192	283	0
## 763	53	1	4	123	282	0
## 764	52	1	4	112	230	0
## 765	40	1	4	110	167	0
## 766	58	1	3	132	224	0
## 767	41	0	3	112	268	0
## 768	41	1	3	112	250	0
## 769	50	0	3	120	219	0
## 770	54	0	3	108	267	0
## 771	64	0	4	130	303	0
## 772	51	0	3	130	256	0
## 773	46	0	2	105	204	ő 0
## 774	55	1	4	140	217	0
	45 56	1	2	128	308	0
## 776	56	1	1	120	193	0
## 777	66	0	4	178	228	1
## 778	38	1	1	120	231	0
## 779	62	0	4	150	244	0
## 780	55	1	2	130	262	0
## 781	58	1	4	128	259	0
## 782	43	1	4	110	211	0
## 783	64	0	4	180	325	0
## 784	50	0	4	110	254	0
## 785	53	1	3	130	197	1
## 786	45	0	4	138	236	0
## 787	65	1	1	138	282	1
## 788	69	1	1	160	234	1
## 789	69	1	3	140	254	0
## 790	67	1	4	100	299	0
## 791	68	0	3	120	211	0
## 792	34	1	1	118	182	0
## 793	62	0	4	138	294	1
,,,,	J -	•		290		-

## 794	51	1	4	140	298	0
## 795	46	1	3	150	231	0
## 796	67	1	4	125	254	1
## 797	50	1	3	129	196	0
## 798	42	1	3	120	240	1
## 799	56	0	4	134	409	0
## 800	41	1	4	110	172	0
## 801	42	0	4	102	265	0
## 802	53	1	3	130	246	1
## 803	43	1	3	130	315	0
## 804	56	1	4	132	184	0
## 805	52	1	4	108	233	1
## 806	62	0	4	140	394	0
## 807	70	1	3	160	269	0
## 808	54	1	4	140	239	0
## 809	70	1	4	145	174	0
## 810	54	1	2	108	309	0
## 811	35	1	4	126	282	0
## 812	48	1	3	124	255	1
## 813	55	0	2	135	250	0
## 814	58	0	4	100	248	0
## 815	54	0	3	110	214	0
## 815	69	0	1	140	239	0
## 817	77	1		125	304	
## 817		1	4			0
	68 50		3	118	277	0
## 819	58	1	4	125	300	0
## 820	60	1	4	125	258	0
## 821	51	1	4	140	299	0
## 822	55	1	4	160	289	0
## 823	52	1	1	152	298	1
## 824	60	0	3	102	318	0
## 825	58	1	3	105	240	0
## 826	64	1	3	125	309	0
## 827	37	1	3	130	250	0
## 828	59	1	1	170	288	0
## 829	51	1	3	125	245	1
## 830	43	0	3	122	213	0
## 831	58	1	4	128	216	0
## 832	29	1	2	130	204	0
## 833	41	0	2	130	204	0
## 834	63	0	3	135	252	0
## 835	51	1	3	94	227	0
## 836	54	1	3	120	258	0
## 837	44	1	2	120	220	0
## 838	54	1	4	110	239	0
## 839	65	1	4	135	254	0
## 840	57	1	3	150	168	0
## 841	63	1	4	130	330	1
## 842	35	0	4	138	183	0
## 843	41	1	2	135	203	0

## 8		62	0	3	130	263	0
## 8	345	43	0	4	132	341	1
## 8	346	58	0	1	150	283	1
## 8	347	52	1	1	118	186	0
## 8	348	61	0	4	145	307	0
## 8	349	39	1	4	118	219	0
## 8	350	45	1	4	115	260	0
## 8		52	1	4	128	255	0
## 8		62	1	3	130	231	0
		62	0	4	160	164	0
		53	0	4	138	234	0
## 8		43	1	4	120	177	0
		47	1	3	138	257	0
## 8		52	1	2	120	325	0
## 8		68	1	3	180	274	1
## 8		39	1	3	140	321	0
		53	0	4	130	264	0
		62	0	4	140	268	0
		51	0	3	140	308	0
		60		4	130	253	
			1				0
		65 CE	1	4	110	248	0
## 8		65	0	3	155	269	0
		60	1	3	140	185	0
		60	1	4	145	282	0
		54	1	4	120	188	0
		44	1	2	130	219	0
		44	1	4	112	290	0
		51	1	3	110	175	0
## 8		59	1	3	150	212	1
		71	0	2	160	302	0
## 8		61	1	3	150	243	1
		55	1	4	132	353	0
## 8		64	1	3	140	335	0
## 8	377	43	1	4	150	247	0
## 8	378	58	0	3	120	340	0
## 8	379	60	1	4	130	206	0
## 8	880	58	1	2	120	284	0
## 8	381	49	1	2	130	266	0
## 8	382	48	1	2	110	229	0
## 8	383	52	1	3	172	199	1
## 8	384	44	1	2	120	263	0
## 8	885	56	0	2	140	294	0
## 8		57	1	4	140	192	0
## 8		67	1	4	160	286	0
## 8		63	1	1	145	233	1
## 8		67	1	4	160	286	0
## 8		67	1	4	120	229	0
## 8		37	1	3	130	250	0
## 8		41	0	2	130	204	0
## 8		56	1	2	120	236	0
0		50	_	_			J

## 894	62	0	4	140	268	0
## 895	57	0	4	120	354	0
## 896	63	1	4	130	254	0
## 897	53	1	4	140	203	1
## 898	57	1	4	140	192	0
## 899	56	0	2	140	294	0
## 900	56	1	3	130	256	1
## 901	44	1	2	120	263	0
## 902	52	1	3	172	199	1
## 903	57	1	3	150	168	0
## 904	48	1	2	110	229	0
	54	1	4	140	239	0
## 906	48	0	3	130	275	0
## 907	49	1	2	130	266	0
## 908	64	1	1	110	211	0
## 909	58	0	1	150	283	1
## 910	58	1	2	120	284	0
## 911	58	1	3	132	224	0
## 912	60	1	4	130	206	0
## 913	50	0	3	120	219	0
## 914	58	0	3	120	340	0
## 915	66	0	1	150	226	0
## 916	43	1	4	150	247	0
## 917	40	1	4	110	167	0
## 918	69	0	1	140	239	0
## 919	60	1	4	117	230	1
## 920	64	1	3	140	335	0
## 921	59	1	4	135	234	0
## 922	44	1	3	130	233	0
## 923	42	1	4	140	226	0
## 924	43	1	4	120	177	0
## 925	57	1	4	150	276	0
## 926	55	1	4	132	353	0
## 927	61	1	3	150	243	1
## 928	65	0	4	150	225	0
## 929	40	1	1	140	199	0
## 930	71		2		302	
		0		160		0
## 931	59	1	3	150	212	1
## 932	61	0	4	130	330	0
## 933	58	1	3	112	230	0
## 934	51	1	3	110	175	0
## 935	50	1	4	150	243	0
## 936	65	0	3	140	417	1
## 937	53	1	3	130	197	1
## 938	41	0	2	105	198	0
## 939	65	1	4	120	177	0
## 940	44	1	4	112	290	0
## 941	44	1	2	130	219	0
## 942	60	1	4	130	253	0
## 943	54	1	4	124	266	0

## 944	50	1	3		140	233	0
## 945	41	1	4	ļ	110	172	0
## 946	54	1	3		125	273	0
## 947	51	1	1		125	213	0
## 948	51	0	4	L	130	305	0
## 949	46	0	3		142	177	0
## 950	58	1	4	ļ	128	216	0
## 951	54	0	3	}	135	304	1
## 952	54	1	4	ļ	120	188	0
## 953	60	1	4	ļ	145	282	0
## 954	60	1	3	}	140	185	0
## 955	54	1	3	}	150	232	0
## 956	59	1	4	ļ	170	326	0
## 957	46	1	3	}	150	231	0
## 958	65	0	3	}	155	269	0
## 959	67	1	4	ļ	125	254	1
## 960	62	1	4	ļ	120	267	0
## 961	65	1	4	ļ	110	248	0
## 962	44	1	4	ļ	110	197	0
## 963	65	0	3	}	160	360	0
## 964	60	1	4		125	258	0
## 965	51	0	3	1	140	308	0
## 966	48	1	2	<u>.</u>	130	245	0
## 967	58	1	4		150	270	0
## 968	45	1	4		104	208	0
## 969	53	0	4		130	264	0
## 970	39	1	3	1	140	321	0
## 971	68	1	3	1	180	274	1
## 972	52	1	2	<u>.</u>	120	325	0
## 973	44	1	3	}	140	235	0
## 974	47	1	3	1	138	257	0
## 975	53	0	3	1	128	216	0
## 976	53	0	4	Ļ	138	234	0
## 977	51	0	3	1	130	256	0
## 978	66	1	4		120	302	0
## 979	62	0	4		160	164	0
## 980	62	1	3	}	130	231	0
## 981	44	0	3	}	108	141	0
## 982	63	0	3	}	135	252	0
## 983	52	1	4	ļ	128	255	0
## 984	59	1	4	ļ	110	239	0
## 985	60	0	4	ļ	150	258	0
## 986	52	1	2		134	201	0
## 987	48	1	4		122	222	0
## 988	45	1	4		115	260	0
## 989	34	1	1		118	182	0
## 990	57	0	4		128	303	0
## 991	71	0	3		110	265	1
## 992	49	1	3		120	188	0
## 993	54	1	2		108	309	0

						_
## 994	59	1	4	140	177	0
## 995	57	1	3	128	229	0
## 996	61	1	4	120	260	0
## 997	39	1	4	118	219	0
## 998	61	0	4	145	307	0
## 999	56	1	4	125	249	1
## 1000	52	1	1	118	186	0
## 1001	43	0	4	132	341	1
## 1002	62	0	3	130	263	0
## 1003	41	1	2	135	203	0
## 1004	58	1	3	140	211	1
## 1005	35	0	4	138	183	0
## 1006	63	1	4	130	330	1
## 1007	65	1	4	135	254	0
## 1008	48	1	4	130	256	1
## 1009	63	0	4	150	407	0
## 1010	51	1	3	100	222	0
## 1011	55	1	4	140	217	0
## 1012	65	1	1	138	282	1
## 1013	45	0	2	130	234	0
## 1014	56	0	4	200	288	1
## 1015	54	1	4	110	239	0
## 1016	44	1	2	120	220	0
## 1017	62	0	4	124	209	0
## 1018	54	1	3	120	258	0
## 1019	51	1	3	94	227	0
## 1020	29	1	2	130	204	0
## 1021	51	1	4	140	261	0
## 1022	43	0	3	122	213	0
## 1023	55	0	2	135	250	0
## 1024	70	1	4	145	174	0
## 1025	62	1	2	120	281	0
## 1026	35	1	4	120	198	0
## 1027	51	1	3	125	245	1
## 1028	59	1	2	140	221	0
## 1029	59	1	1	170	288	0
## 1030	52	1	2	128	205	1
## 1031	64	1	3	125	309	0
## 1032	58	1	3	105	240	0
## 1033	47	1	3	108	243	0
## 1034	57	1	4	165	289	1
## 1035	41	1	3	112	250	0
## 1036	45	1	2	128	308	0
## 1037	60	0	3	102	318	0
## 1038	52	1	1	152	298	1
## 1039	42	0	4	102	265	0
## 1040	67	0	3	115	564	0
## 1041	55	1	4	160	289	0
## 1042	64	1	4	120	246	0
## 1043	70	1	4	130	322	0

## 1044	51	1	4	140	299	0
## 1045	58	1	4	125	300	0
## 1046	60	1	4	140	293	0
## 1047	68	1	3	118	277	0
## 1048	46	1	2	101	197	1
## 1049	77	1	4	125	304	0
## 1050	54	0	3	110	214	0
## 1051	58	0	4	100	248	0
## 1052	48	1	3	124	255	1
## 1053	57	1	4	132	207	0
## 1054	52	1	3	138	223	0
## 1055	54	0	2	132	288	1
## 1056	35	1	4	126	282	0
## 1057	45	0	2	112	160	0
## 1058	70	1	3	160	269	0
## 1059	53	1	4	142	226	0
## 1060	59	0	4	174	249	0
## 1061	62	0	4	140	394	0
## 1062	64	1	4	145	212	0
## 1063	57	1	4	152	274	0
## 1064	52	1	4	108	233	1
## 1065	56	1	4	132	184	0
## 1066	43	1	3	130	315	0
## 1067	53	1	3	130	246	1
## 1068	48	1	4	124	274	0
## 1069	56	0	4	134	409	0
## 1070	42	1	1	148	244	0
## 1071	59	1	1	178	270	0
## 1072	60	0	4	158	305	0
## 1073	63	0	2	140	195	0
## 1074	42	1	3	120	240	1
## 1075	66	1	2	160	246	0
## 1076	54	1	2	192	283	0
## 1077	69	1	3	140	254	0
## 1077	50	1	3	129	196	0
## 1078	51	1	4	140	298	0
## 1075	43	1	4	132	247	1
## 1080	62	0	4	138	294	1
## 1081	68	0	3	120	211	0
## 1082	67	1	4	100	299	0
## 1083	69	1	1	160	234	
## 1084	45	0	4	138	236	1 0
## 1085	50		2	120	244	
## 1086	59	0 1	1	160	273	0 0
## 1088 ## 1089	50	0	4	110 180	254 325	0
## 1089	64 57	0 1	4	150	126	0 1
## 1090		1	3	140		1
## 1091	64 43	0	3		313	0
	43 45	1	4	110	211	0 0
## 1093	45	1	4	142	309	Ø

## 1094	58	1	4	128	259	0
## 1095	50	1	4	144	200	0
## 1096	55	1	2	130	262	0
## 1097	62	0	4	150	244	0
## 1098	37	0	3	120	215	0
## 1099	38	1	1	120	231	0
## 1100	41	1	3	130	214	0
## 1100	66	0	4	178	228	1
## 1101	52					
		1	4	112	230	0
## 1103	56	1	1	120	193	0
## 1104	46	0	2	105	204	0
## 1105	46	0	4	138	243	0
## 1106	64	0	4	130	303	0
## 1107	59	1	4	138	271	0
## 1108	41	0	3	112	268	0
## 1109	54	0	3	108	267	0
## 1110	39	0	3	94	199	0
## 1111	53	1	4	123	282	0
## 1112	63	0	4	108	269	0
## 1113	34	0	2	118	210	0
## 1114	47	1	4	112	204	0
## 1114	47 67					
		0	3	152	277	0
## 1116	54	1	4	110	206	0
## 1117	66	1	4	112	212	0
## 1118	52	0	3	136	196	0
## 1119	55	0	4	180	327	0
## 1120	49	1	3	118	149	0
## 1121	74	0	2	120	269	0
## 1122	54	0	3	160	201	0
## 1123	54	1	4	122	286	0
## 1124	56	1	4	130	283	1
## 1125	46	1	4	120	249	0
## 1126	49	0	2	134	271	0
## 1127	42	1	2	120	295	0
## 1128	41	1	2	110	235	0
## 1128	41	0	2	126	306	0
## 1129						
	49	0	4	130	269	0
## 1131	61	1	1	134	234	0
## 1132	60	0	3	120	178	1
## 1133	67	1	4	120	237	0
## 1134	58	1	4	100	234	0
## 1135	47	1	4	110	275	0
## 1136	52	1	4	125	212	0
## 1137	62	1	2	128	208	1
## 1138	57	1	4	110	201	0
## 1139	58	1	4	146	218	0
## 1140	64	1	4	128	263	0
## 1141	51	0	3	120	295	0
## 1141	43	1	4	115	303	0
## 1142	42	0	3	120	209	0
ππ 1143	44	U	,	120	209	U

## 1144		0	4	106	223			0
## 1145	76	0	3	140	197			0
## 1146	70	1	2	156	245			0
## 1147	57	1	2	124	261			0
## 1148	44	0	3	118	242			0
## 1149	58	0	2	136	319			1
## 1150	60	0	1	150	240			0
## 1151	44	1	3	120	226			0
## 1152	61	1	4	138	166			0
## 1153	42	1	4	136	315			0
## 1154	52	1	4	128	204			1
## 1155	59	1	3	126	218			1
## 1156	40	1	4	152	223			0
## 1157	42	1	3	130	180			0
## 1158	61	1	4	140	207			0
## 1159	66	1	4	160	228			0
## 1160	46	1	4	140	311			0
## 1161	71	0	4	112	149			0
## 1162	59	1	1	134	204			0
## 1162	64	1	1	170	227			0
## 1163		0	3	146	278			0
## 1164								
	39 57	0	3	138	220			0
## 1166	57	1	2	154	232			0
## 1167	58	0	4	130	197			0
## 1168	57	1	4	110	335			0
## 1169	47	1	3	130	253			0
## 1170	55	0	4	128	205			0
## 1171	35	1	2	122	192			0
## 1172	61	1	4	148	203			0
## 1173	58	1	4	114	318			0
## 1174	58	0	4	170	225			1
## 1175	58	1	2	125	220			0
## 1176	56	1	2	130	221			0
## 1177	56	1	2	120	240			0
## 1178	67	1	3	152	212			0
## 1179	55	0	2	132	342			0
## 1180	44	1	4	120	169			0
## 1181	63	1	4	140	187			0
## 1182	63	0	4	124	197			0
## 1183	41	1	2	120	157			0
## 1184	59	1	4	164	176			1
## 1185	57	0	4	140	241			0
## 1186	45	1	1	110	264			0
## 1187		_ 1	4	144	193			1
## 1188		_ 1	4	130	131			0
## 1189		0	2	130	236			0
## 1190		1	3	138	175			0
## 1150		_		exercise.angina		ST.slone	target	9
## 1		0	172	exercise.angina		1 1	o la get	
## 2		0	156	0		2	1	
ππ Δ		ð	130	0	1.0	2		

## 3	1	98	0	0.0	1	0
## 4	0	108	1	1.5	2	1
## 5	0	122	0	0.0	1	0
## 6	0	170	0	0.0	1	0
## 7	0	170	0	0.0	1	0
## 8	0	142	0	0.0	1	0
## 9	0	130	1	1.5	2	1
## 10	0	120	0	0.0	1	0
## 11	0	142	0	0.0	1	0
## 12						
	1	99	1	2.0	2	1
## 13	0	145	0	0.0	1	0
## 14	0	140	1	1.0	2	1
## 15	1	137	0	0.0	1	0
## 16	0	150	0	1.5	2	0
## 17	0	166	0	0.0	2	1
## 18	0	165	0	0.0	1	0
## 19						
	0	125	0	1.0	2	1
## 20	0	160	0	3.0	2	1
## 21	0	142	0	0.0	1	0
## 22	0	142	0	1.0	2	0
## 23	0	164	0	0.0	1	0
## 24	0	150	1	3.0	2	1
## 25	0	138	0	0.0	1	0
## 26	0	178	0	0.0	1	0
## 27	1	112	1	3.0	2	0
	0	118	0	0.0	1	0
## 29	0	127	0	0.0	1	0
## 30	0	145	0	0.0	1	0
## 31	0	130	0	0.0	2	1
## 32	0	114	0	0.0	1	0
## 33	0	122	0	2.0	2	1
## 34	1	130	0	2.0	2	1
## 35	0	154	0	0.0	1	0
## 36		155	0	0.0	1	0
	0					
## 37	0	87	1	1.5	2	1
## 38	1	142	0	0.0	1	0
## 39	1	148	0	0.0	1	0
## 40	0	130	1	1.0	2	0
## 41	0	130	0	0.0	1	0
## 42	1	100	1	0.0	2	1
## 43	0	168	0	0.0	1	0
## 44	1	170	0	0.0	1	0
## 45	0	120	1	1.0	2	1
## 46	0	120	1	1.0	2	0
## 47	0	168	0	0.0	1	0
## 48	0	170	0	0.0	1	0
## 49	0	184	0	1.0	2	0
## 50	0	170	0	0.0	2	1
## 51	0	121	1	2.0	2	1
## 52	0	98	1	2.0	2	1
пπ ЈΔ	U	20	_	2.0	2	_

##	53	0	122	0	0.0	1	0
	54	0	150	0	0.0	1	0
	55		140				
		0		1	1.5	2	0
	56	0	170	0	0.0	1	0
##	57	0	153	1	1.5	2	1
##	58	1	140	0	0.0	2	1
	59	1	134	0	1.0	1	0
	60	1	96	1	1.0	2	1
##		0	174	0	0.0	1	0
##	62	0	175	0	0.0	1	0
##	63	0	144	0	0.0	1	0
##	64	0	125	1	1.0	2	1
##	65	0	145	0	0.0	1	0
	66	0	130	0	0.0	1	0
##							
		0	144	0	0.0	1	0
	68	0	184	0	0.0	1	0
	69	1	82	1	4.0	2	1
##	70	0	170	0	0.0	1	0
##	71	1	145	1	1.0	2	1
##	72	0	135	0	0.0	1	0
##		0	150	0	0.0	2	1
##		1	115	0	0.0	1	0
##		0	128	1	1.5	2	
							1
	76	0	116	0	0.0	1	0
##		0	130	0	0.0	2	1
	78	0	150	0	0.0	1	0
	79	0	138	1	0.0	1	0
##	80	0	170	0	0.0	2	1
##	81	0	160	0	0.0	1	0
##	82	0	154	0	0.0	1	0
##	83	0	115	0	0.0	2	1
	84	0	165	0	0.0	1	0
	85	0	125	1	1.0	2	1
##		0	94	1	1.0	2	1
	87	0	112	1	2.0	2	1
##		0	142	1	2.0	2	0
##	89	1	155	0	0.0	2	1
##	90	0	110	1	0.5	2	0
##	91	0	160	0	0.0	1	0
	92	0	140	0	0.0	1	0
	93	0	148	0	0.0	1	0
	94	0	92	1	1.5	2	1
##		1	180	0	0.0	1	0
	96	0	140	1	2.0	2	1
	97	0	138	0	0.0	1	0
##	98	0	160	0	0.0	1	0
##	99	0	140	0	0.0	1	0
##	100	0	144	0	0.0	1	0
	101	1	115	1	1.0	2	1
	102	0	100	0	0.0	1	0
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##	103	0	130	0	2.0	2	1
	104	0	152	1	1.0	2	1
	105	0	124	0	0.0	2	1
	106	0	140	0	0.0	1	0
##	107	1	110	0	0.0	1	0
##	108	1	168	0	0.0	1	0
	109	0	135	0	0.0	1	0
	110	0	106	0	0.0	1	0
	111						
		0	124	0	1.0	2	0
	112	0	92	1	3.0	2	1
	113	0	125	1	0.0	1	0
##	114	0	150	0	0.0	1	0
##	115	1	135	0	0.0	1	0
##	116	0	150	1	1.0	2	1
	117	0	170	0	0.0	2	1
	118	1	130	1	1.5	2	1
	119	1	185	0	0.0	1	0
	120	0	180	0	0.0	2	1
##	121	0	170	0	0.0	2	1
##	122	0	139	0	0.0	1	0
##	123	1	140	0	0.0	1	0
	124	0	110	1	1.0	2	1
	125	0	150	0	0.0	1	0
	126	0	110	0	0.0	1	0
	127	0	190				0
				0	0.0	1	
	128	0	175	0	2.0	1	0
	129	0	140	0	0.0	1	0
	130	0	152	1	1.5	2	0
	131	0	130	0	0.0	1	0
##	132	0	150	1	0.0	2	1
##	133	1	122	1	2.0	2	1
##	134	1	124	1	1.5	2	1
	135	1	120	1	1.0	2	0
	136	0	175	0	0.0	2	1
	137		175	0			0
		1			0.0	1	
	138	1	146	0	2.0	1	0
	139	0	118	1	0.0	2	1
	140	0	130	1	2.0	2	1
##	141	0	94	1	2.5	2	1
##	142	1	125	1	2.5	2	1
##	143	1	158	1	3.0	2	1
	144	0	155	0	0.0	1	0
	145	0	150	0	1.0	2	1
	146		132			1	
		0		0	0.0		0
	147	0	155	0	0.0	1	0
	148	1	176	0	0.0	1	0
##	149	0	160	0	0.0	1	0
##	150	0	125	1	1.0	2	1
##	151	0	120	0	0.0	1	0
	152	0	100	0	0.0	1	0
		-		-	_ , •	_	•

##	153	0	150	0	0.0	1	0
	154	0	140	0	0.0	1	0
	155	1	160	0	0.0	1	
							0
	156	0	150	1	3.0	2	1
##	157	0	150	1	1.0	2	1
##	158	0	130	0	0.0	1	0
##	159	0	100	1	2.0	2	1
##	160	1	130	0	1.0	1	0
	161	2	119	1	0.0	2	1
	162		96	1	0.0	2	1
		0					
	163	0	174	0	0.0	1	0
	164	0	160	0	0.0	1	0
##	165	0	150	0	0.0	1	0
##	166	0	140	0	0.0	1	0
##	167	0	175	0	2.0	2	1
	168	1	140	1	5.0	2	1
	169	0	118	0	0.0	1	0
	170	0	100	0	0.0	1	0
	171	0	160	0	0.0	1	0
	172	0	160	0	0.0	1	0
##	173	0	188	0	0.0	1	0
##	174	0	162	0	0.0	1	0
##	175	0	172	0	0.0	1	0
	176	0	134	1	2.0	2	1
	177	0	135	1	2.0	2	1
	178						
		0	105	0	1.5	2	1
	179	0	150	0	0.0	1	0
	180	0	150	0	0.0	1	0
##	181	0	90	0	0.0	1	0
##	182	0	120	1	2.0	2	1
##	183	0	150	0	0.0	1	0
##	184	0	124	1	2.0	2	1
	185	1	140	1	1.0	2	0
	186		130	0	0.0	1	0
		0					
	187	1	92	0	0.0	2	1
	188	0	110	0	0.0	1	0
	189	0	138	1	1.0	2	1
##	190	0	110	1	1.0	2	0
##	191	1	120	1	1.5	2	1
	192	1	120	0	0.0	1	0
	193	1	116	0	0.0	1	0
	194	0	160	0	0.0	1	0
	195	0	110	0	0.0	1	0
	196	0	180	0	0.0	1	0
	197	0	116	0	0.0	1	0
##	198	0	132	0	1.0	2	0
##	199	0	136	0	0.0	1	0
	200	0	116	1	0.0	2	1
	201	0	98	0	1.0	2	0
	202	0	150	0	0.0	1	0
π#	202	U	100	0	0.0	_	0

##	203	0	150	0	0.0	1	0
##	204	0	146	0	0.0	1	0
##	205	1	150	0	0.0	1	0
##		0	100	0	0.0	1	0
	207	0	140	1	0.0	1	0
	208	2	180	0	0.0	1	0
	209	0	140	0	0.0	2	1
	210	2	185	0	0.0	1	0
	211	0	140	0	0.0	2	1
	212	0	110	0	0.0	2	1
	212		140			2	1
	214	0		1	0.0		
		0	128	1	1.0	1	0
	215	1	164	0	0.0	1	0
	216	0	98	1	1.5	2	1
	217	1	170	0	0.0	1	0
	218	0	150	0	0.0	2	1
	219	0	137	0	0.0	1	0
	220	0	150	0	0.0	1	0
	221	0	170	0	0.0	1	0
	222	0	112	0	0.0	2	1
	223	0	150	1	1.0	2	1
	224	0	125	0	0.0	1	0
##	225	0	185	0	0.0	1	0
##	226	0	137	0	0.0	1	0
##	227	0	150	0	0.0	2	1
##	228	0	140	0	0.0	1	0
##	229	0	134	1	2.5	2	1
##	230	0	170	0	0.0	1	0
##	231	1	184	0	0.0	1	0
##	232	0	158	0	0.0	1	0
##	233	0	167	0	0.0	1	0
##	234	0	129	0	0.0	1	0
	235	0	142	0	0.0	1	0
	236	1	140	0	0.0	1	0
	237	0	160	1	1.0	2	0
	238	0	118	1	3.0	2	1
	239	0	136	0	0.0	2	1
	240	0	99	1	2.0	2	1
	241	0	102	1	3.0	2	1
	242	0	155	0	0.0	1	0
	243	0	142	1	2.0	2	1
	244	0	143	1	2.0	2	1
	245	0	118			1	0
	246		103	0 1	0.0	2	1
		0			1.0		
	247	0	137	0	2.0	1	0
	248	0	150	1	1.5	2	1
	249	1	150	1	2.0	3	1
	250	1	130	1	1.0	2	1
	251	0	120	1	1.0	2	1
##	252	0	135	0	0.0	2	1

##	253	0	115	0	2.0	2	1
	254	1	115	1	0.0	1	0
	255		152			1	
		0		0	1.0		0
	256	0	96	1	2.0	2	1
##	257	0	130	0	0.0	1	0
##	258	2	150	0	0.0	1	0
##	259	0	172	0	0.0	1	0
##	260	0	120	0	0.5	1	0
	261	0	155	0	0.0	1	0
	262	_	165	1	0.0		
		0				1	0
	263	0	138	0	1.0	1	0
	264	0	115	1	0.0	2	1
##	265	0	125	0	0.0	2	1
##	266	0	145	1	1.0	2	1
##	267	0	175	0	0.0	1	0
	268	0	110	1	1.0	2	1
	269	0	150	0	0.0	1	0
	270	0	91	1	1.0	2	1
	271	0	145	0	2.0	2	0
	272	0	140	0	0.0	1	0
##	273	0	165	0	0.0	1	0
##	274	0	130	1	3.0	2	1
##	275	2	134	0	0.0	1	0
	276	0	180	0	0.0	1	0
	277	0	100	0	0.0	1	0
	278	0	150	0	2.0	2	1
	279	0	126	1	1.5	2	1
	280	1	126	1	0.8	2	0
##	281	1	155	0	0.0	1	0
##	282	2	135	0	0.0	1	0
##	283	0	122	0	2.0	2	1
	284	0	160	1	2.0	1	0
	285	1	160	0	0.0	1	0
	286		170				
		0		0	0.0	1	0
	287	0	120	0	0.0	1	0
	288	0	140	0	0.0	1	0
	289	0	132	0	0.0	1	0
##	290	1	156	0	2.0	1	0
##	291	0	180	0	0.0	1	0
	292	0	138	0	0.0	1	0
	293	0	135	0	1.0	1	0
	294	0	148	0	0.0	1	0
	418	1	112	1	3.0	2	1
	419	1	127	0	0.0	1	0
	420	1	140	1	1.5	3	1
##	421	1	149	1	2.5	1	1
##	422	2	99	1	1.3	2	0
	424	1	105	1	0.0	2	1
	427	1	157	0	0.5	2	1
	428	1	140	0	0.0	1	0
π#	740	_	170	0	0.0	_	9

##	433	1	86	0	0.0	1	0
	434	0	84	1	2.5	3	1
	435	0	125	1	2.0	2	1
	445	1	140	1	0.5	2	1
##	446	0	120	1	1.5	2	1
##	447	1	124	1	1.6	2	1
	449	1	110	1	2.0	1	1
	450						
		0	105	1	1.0	2	1
	454	1	118	1	1.5	2	1
##	456	0	123	1	1.2	2	1
##	462	1	118	1	1.9	2	1
##	464	0	117	1	1.3	3	1
	467	0	160	0	0.0	1	0
	470	1	97	1	1.6	1	1
	471	0	161	0	2.0	2	0
	475	1	122	1	1.7	2	1
##	478	2	139	0	0.1	1	0
##	480	1	148	1	2.0	2	1
	484	0	125	0	2.5	1	1
	487	1	128	1	1.2	2	1
	488	1	180	0	0.4	1	0
	489	1	144	1	2.0	2	1
##	490	0	135	0	0.3	1	0
##	491	0	140	1	3.0	2	1
##	492	0	102	1	1.0	2	1
##	493	1	108	0	0.0	2	1
	495	0	127	1	1.7	2	1
	496	0	110	1	2.5	2	1
	497	0	140	1	1.0	2	1
	498	0	69	0	1.0	3	0
##	499	0	148	1	3.0	3	1
##	500	1	130	1	0.0	2	1
	501	0	130	1	1.0	2	1
	502	0	140	1	4.0	3	1
	503	0	138	1	2.0	2	1
	504	1	140	1	2.0	2	1
	505	1	138	0	0.2	1	0
##	506	0	112	1	3.0	3	1
##	507	1	131	1	1.2	2	1
	508	0	112	1	3.0	2	1
	509	0	80	1	0.0	1	0
	511		110			2	
		0		0	0.0		1
	512	0	126	0	0.3	1	0
	513	1	88	1	2.0	2	1
##	514	1	153	0	-0.1	1	0
##	515	1	150	1	1.3	2	1
	518	0	132	0	0.0	0	1
	519	0	120	1	1.5	2	1
	521	1	121	1	1.0	1	1
##	522	1	128	0	0.5	2	0

##	523	1	135	1	4.0	3	1
	524	2	120	1	1.0	1	1
	525	0	117	1	1.0	2	1
	526	1	150	0	0.0	1	0
##	527	0	144	0	0.1	1	0
##	528	2	113	1	1.7	2	1
	529	0	135	0	0.3	1	0
	530	0	127	1	1.5	2	1
	531	0	109	1	1.4	2	1
	532	0	128	1	1.1	2	1
##	533	1	115	1	1.8	2	1
##	534	1	102	0	0.0	2	1
##	535	1	140	1	2.0	2	1
	536	0	135	1	2.5	3	1
	539	1	130	1		3	1
					4.0		
	540	0	112	1	2.0	2	1
	541	2	100	0	0.0	1	0
##	542	1	122	1	1.2	2	1
##	543	2	120	0	3.5	3	1
##	544	0	105	1	1.5	2	1
	545	1	129	1	3.0	3	1
	546	0	120	1	0.0	1	0
	547		139	0	0.2	1	0
		1					
	548	1	162	0	0.0	2	1
	549	1	100	0	1.5	3	1
	550	0	140	0	1.5	1	1
	551	1	135	0	0.2	1	0
##	552	0	73	0	2.0	2	1
##	553	2	86	0	0.0	1	0
##	554	0	108	1	1.8	2	1
##	555	0	116	1	1.8	2	1
	556	1	160	0	0.3	1	0
	557	1	118	1	0.0	2	1
	558	0	112	1	2.0	3	0
	559	1	122	1	1.8	2	1
##	560	1	124	1	1.4	2	1
##	561	0	102	1	4.0	3	1
##	562	1	137	0	0.2	1	0
	563	1	141	0	0.1	1	0
	564	0	154	1	2.0	2	0
	565	1	126	1	1.1	2	1
	566					2	
		1	160	1	2.0		1
	567	1	115	1	1.7	2	1
	568	0	128	1	1.5	2	0
	569	1	115	1	0.0	2	1
##	570	0	105	1	1.5	3	1
##	571	0	110	1	2.5	2	1
	572	1	119	1	2.0	3	1
	573	0	109	1	1.5	2	1
	574	1	135	1	0.5	2	1
IF TT	J/ T	_	±00	_	0.5	_	_

##	575	2	130	0	1.5	2	1
	576	1	112	1	1.5	2	1
	577	0	126	1	1.2	2	1
	578	1	120	1	3.0	2	1
##	579	0	110	1	1.9	2	1
##	580	2	119	1	3.0	3	1
	581	1	110	1	1.8	2	1
	582	2	130	1	1.0	2	1
	583	0	159	1	1.5	1	1
##	584	2	84	1	0.0	2	1
##	585	2	126	0	0.3	1	0
##	586	1	116	1	1.5	2	1
	587	1	120	0	0.8	2	1
	588	0	122	1	2.0	2	1
	589	2	165	0	1.0	2	0
	590	1	122	1	2.0	2	1
##	591	0	94	0	0.0	2	1
##	592	1	133	0	0.2	1	0
	593	1	110	0	0.0	1	0
	594	2	150	1	2.0	3	1
	595	2	130	0	0.0	2	1
	596	2	113	1	1.0	1	1
	597	2	140	1	0.5	2	1
##	598	2	100	0	0.0	2	1
##	599	1	136	0	0.2	1	0
##	600	2	127	1	1.7	3	1
	601	0	98	0	1.5	2	1
	602	1	96	1	1.0	2	0
	603	0	123	1	1.3	2	1
	604	0	98	1	0.0	2	1
##	605	1	118	1	0.0	2	1
##	606	0	112	1	1.5	3	1
##	607	0	151	1	0.0	1	0
	608	2	96	0	1.0	1	0
	609	1	108	1	3.0	2	1
	610	1	128	1	1.5	2	1
	611	1	138	1	0.0	2	1
##	612	0	126	0	0.0	2	1
##	613	1	154	0	0.0	2	1
	614	1	137	0	0.2	1	0
	615	1	100	0	0.0	2	1
	616	2	135	0	0.3	1	0
	617	2	93	1	0.0	2	1
	618	2	109	0	2.4	2	1
##	619	2	160	0	1.6	2	0
##	620	0	141	0	0.3	1	1
	621	0	105	1	0.2	2	0
	622	2	121	1	0.2	1	0
	623	0	140	0	0.4	1	0
##	624	2	142	1	0.6	2	1

##	625	2	142	1	1.2	2	1
##	626	2	170	0	1.2	2	1
	627	2	154	0	4.0	2	1
	628		161			2	
		0		0	0.5		0
	629	2	111	1	0.0	1	0
	630	2	180	0	0.0	1	0
##	631	0	145	0	2.6	2	1
##	632	2	159	0	0.0	1	0
##	633	0	125	0	1.6	2	0
	634	0	120	1	1.8	2	1
	635	2	155	1	3.1	3	1
	636	2	144	1	1.8	2	0
	637	0	178	1	1.4	1	0
	638	2	129	1	2.6	2	1
##	639	2	180	0	0.2	2	0
##	640	0	181	0	1.2	2	0
##	641	0	143	0	0.1	1	0
	642	2	159	1	0.0	1	0
	643	0	139	0	0.2	1	0
	644	2	152	1	0.0	2	0
	645	2	157	0	0.6	1	0
	646	2	165	0	2.5	2	1
	647	2	130	0	0.0	1	0
	648	2	150	0	0.4	2	1
##	649	2	138	0	2.3	1	0
##	650	0	170	0	0.0	1	0
##	651	2	140	1	3.4	3	1
##	652	2	126	1	0.9	2	1
	653	2	150	1	0.0	1	1
	654	2	138	1	1.9	1	1
	655	2	125	0	0.0	1	1
	656		150		0.0	1	
		0		0			0
	657	2	186	0	0.0	1	0
	658	0	181	0	0.0	1	1
	659	0	163	0	0.0	1	0
##	660	0	179	1	0.4	1	0
##	661	0	156	0	0.0	1	0
##	662	0	134	0	2.2	2	1
	663	2	165	0	0.0	1	0
	664	2	126	0	0.8	1	1
	665	2	177	0	0.0	1	1
	666	0	120	1	0.0	2	1
	667	2	114	0	1.0	2	1
	668	0	125	1	1.8	2	1
	669	0	184	0	0.0	1	0
	670	2	157	0	0.8	1	0
	671	0	179	0	0.0	1	0
##	672	2	175	0	0.6	2	0
##	673	0	168	0	0.0	1	0
	674	2	125	1	3.6	2	1

##	675	0	96	0	0.0	1	0
##	676	0	143	1	0.0	2	1
	677	2	103	0	1.4	2	1
	678		173				
		0		0	0.2	1	0
	679	0	142	1	1.2	2	1
	680	0	169	0	0.0	1	0
##	681	0	171	0	0.9	1	0
##	682	2	150	0	2.3	3	0
##	683	2	112	1	0.6	2	1
	684	2	186	1	0.0	1	0
	685	2	152	0	0.0	1	1
	686	0	149	0	0.3	2	0
	687	0	152	0	0.0	1	1
##	688	0	140	1	3.6	2	1
##	689	0	163	1	0.6	1	0
##	690	2	143	0	0.0	1	0
	691	1	116	0	1.1	2	0
	692	0	142	0	0.3	1	0
	693	2	147	1	0.0	2	1
	694	2	148	1	3.0	2	0
	695	0	179	0	0.0	1	0
##	696	0	173	0	0.0	2	0
##	697	0	178	0	0.8	1	0
##	698	0	105	0	2.0	2	1
	699	0	130	1	1.6	2	1
	700	2	111	1	0.8	1	1
	701	2	168	0	2.0	2	0
	702	0	126	1	1.5	2	0
	703	2	178	0	0.8	1	0
	704	2	140	0	0.0	1	0
	705	2	145	0	4.2	3	0
##	706	0	163	0	0.0	1	0
##	707	2	128	0	2.6	2	1
##	708	0	164	1	0.0	1	0
	709	2	169	0	0.0	1	1
	710	2	109	1	2.2	2	1
		2				2	
	711		108	1	0.0		1
	712	0	168	0	1.0	1	1
	713	2	118	1	1.0	2	1
##	714	2	151	0	0.4	2	0
##	715	0	156	0	0.1	1	1
##	716	0	133	0	0.2	1	0
##	717	0	162	0	1.1	1	0
	718	0	175	0	0.6	2	0
	719	0	71	0	1.0	2	1
	720	_	163			1	
		0		0	0.0		0
	721	2	124	0	1.0	2	1
	722	2	147	0	1.4	2	1
	723	2	166	0	0.5	2	1
##	724	0	143	1	1.2	2	0

##	725	2	157	0	2.6	2	1
	726	0	162	1	0.0	1	1
	727						
		0	138	0	0.0	2	0
	728	1	117	1	3.4	2	1
##	729	0	153	0	0.0	1	0
##	730	2	161	0	0.0	1	1
	731	0	170	0	0.0	1	0
	732	0	162	0	0.0	1	0
	733	0	162	0	0.0	2	0
	734	2	144	0	0.8	1	1
	735	2	133	1	4.0	3	1
##	736	0	114	0	2.6	3	0
##	737	2	103	1	1.6	3	1
	738	0	139	0	2.0	2	1
	739	2	116	1	3.2	2	1
	740	0	88	1	1.2	2	1
	741	2	151	0	0.8	1	0
##	742	2	152	0	0.5	3	0
##	743	0	163	0	0.0	1	0
##	744	0	99	1	1.8	2	1
##	745	2	169	0	0.1	2	0
	746	0	158	0	0.8	1	0
	747	0	160	1	1.4	1	1
	748						
		0	169	1	1.8	2	1
	749	2	132	1	0.1	1	1
	750	0	178	0	0.0	1	0
	751	2	96	1	2.2	3	1
##	752	2	165	0	1.6	1	0
##	753	2	160	1	1.4	3	0
##	754	0	172	0	0.0	1	0
##	755	2	144	1	1.2	2	1
	756	0	192	0	0.7	1	0
	757						
		0	168	1	0.0	1	0
	758	2	132	0	2.0	2	1
	759	2	182	0	0.0	1	0
##	760	0	163	0	0.6	2	1
##	761	2	125	1	1.4	1	0
##	762	2	195	0	0.0	1	1
	763	0	95	1	2.0	2	1
	764	0	160	0	0.0	1	1
	765	2	114	1	2.0	2	1
	766	2	173	0	3.2	1	1
	767	2	172	1	0.0	1	0
##	768	0	179	0	0.0	1	0
##	769	0	158	0	1.6	2	0
	770	2	167	0	0.0	1	0
	771	0	122	0	2.0	2	0
	772	2	149	0	0.5	1	0
	773	0	172	0	0.0	1	0
##	774	0	111	1	5.6	3	1

##	775	2	170	0	0.0	1	0
##	776	2	162	0	1.9	2	0
	777	0	165	1	1.0	2	1
	778		182			2	
		0		1	3.8		1
	779	0	154	1	1.4	2	1
	780	0	155	0	0.0	1	0
##	781	2	130	1	3.0	2	1
##	782	0	161	0	0.0	1	0
##	783	0	154	1	0.0	1	0
	784	2	159	0	0.0	1	0
	785	2	152	0	1.2	3	0
	786	2	152	1	0.2	2	0
	787	2	174	0	1.4	2	1
##	788	2	131	0	0.1	2	0
##	789	2	146	0	2.0	2	1
##	790	2	125	1	0.9	2	1
##	791	2	115	0	1.5	2	0
	792	2	174	0	0.0	1	0
	793	0	106	0	1.9	2	1
	794	0	122	1	4.2	2	1
	795						
		0	147	0	3.6	2	1
	796	0	163	0	0.2	2	1
	797	0	163	0	0.0	1	0
	798	0	194	0	0.8	3	0
##	799	2	150	1	1.9	2	1
##	800	2	158	0	0.0	1	1
##	801	2	122	0	0.6	2	0
##	802	2	173	0	0.0	1	0
	803	0	162	0	1.9	1	0
	804	2	105	1	2.1	2	1
	805	0	147	0	0.1	1	0
	806	2	157			2	
				0	1.2		0
	807	0	112	1	2.9	2	1
	808	0	160	0	1.2	1	0
	809	0	125	1	2.6	3	1
##	810	0	156	0	0.0	1	0
##	811	2	156	1	0.0	1	1
##	812	0	175	0	0.0	1	0
##	813	2	161	0	1.4	2	0
	814	2	122	0	1.0	2	0
	815	0	158	0	1.6	2	0
	816	0	151	0	1.8	1	0
	817	2	162	1	0.0	1	1
	818	0	151	0	1.0	1	0
	819	2	171	0	0.0	1	1
	820	2	141	1	2.8	2	1
##	821	0	173	1	1.6	1	1
##	822	2	145	1	0.8	2	1
	823	0	178	0	1.2	2	0
	824	0	160	0	0.0	1	0
	- - -			-		_	_

##	825	2	154	1	0.6	2	0
##	826	0	131	1	1.8	2	1
	827	0	187	0	3.5	3	0
	828	2	159	0	0.2	2	1
	829	2	166	0	2.4	2	0
	830	0	165	0	0.2	2	
	831		131		2.2	2	0
		2		1			1
	832	2	202	0	0.0	1	0
	833	2	172	0	1.4	1	0
	834	2	172	0	0.0	1	0
	835	0	154	1	0.0	1	0
	836	2	147	0	0.4	2	0
	837	0	170	0	0.0	1	0
##	838	0	126	1	2.8	2	1
##	839	2	127	0	2.8	2	1
##	840	0	174	0	1.6	1	0
##	841	2	132	1	1.8	1	1
##	842	0	182	0	1.4	1	0
##	843	0	132	0	0.0	2	0
##	844	0	97	0	1.2	2	1
##	845	2	136	1	3.0	2	1
	846	2	162	0	1.0	1	0
	847	2	190	0	0.0	2	0
	848	2	146	1	1.0	2	1
	849	0	140	0	1.2	2	1
	850	2	185	0	0.0	1	0
	851	0	161	1	0.0	1	1
	852	0	146	0	1.8	2	0
	853	2	145	0	6.2	3	1
	854	2	160	0	0.0	1	0
	855	2	120	1	2.5	2	1
	856	2			0.0	1	
			156	0			0
	857	0	172	0	0.2	1	0
	858	2	150	1	1.6	2	1
	859	2	182	0	0.0	1	0
	860	2	143	0	0.4	2	0
	861	2	160	0	3.6	3	1
	862	2	142	0	1.5	1	0
	863	0	144	1	1.4	1	1
	864	2	158	0	0.6	1	1
	865	0	148	0	0.8	1	0
##	866	2	155	0	3.0	2	1
##	867	2	142	1	2.8	2	1
##	868	0	113	0	1.4	2	1
##	869	2	188	0	0.0	1	0
##	870	2	153	0	0.0	1	1
	871	0	123	0	0.6	1	0
	872	0	157	0	1.6	1	0
	873	0	162	0	0.4	1	0
	874	0	137	1	1.0	2	0

##	875	0	132	1	1.2	2	1
##	876	0	158	0	0.0	1	1
	877	0	171	0	1.5	1	0
	878	0	172	0	0.0	1	0
	879	2	132	1	2.4	2	1
##	880	2	160	0	1.8	2	1
##	881	0	171	0	0.6	1	0
	882	0	168	0	1.0	3	1
	883	0	162	0	0.5	1	0
	884						
		0	173	0	0.0	1	0
	885	2	153	0	1.3	2	0
##	886	0	148	0	0.4	2	0
##	887	2	108	1	1.5	2	1
##	888	2	150	0	2.3	3	0
##	889	2	108	1	1.5	2	1
	890	2	129	1	2.6	2	1
	891		187				
		0		0	3.5	3	0
	892	2	172	0	1.4	1	0
	893	0	178	0	0.8	1	0
##	894	2	160	0	3.6	3	1
##	895	0	163	1	0.6	1	0
##	896	2	147	0	1.4	2	1
	897	2	155	1	3.1	3	1
	898	0	148	0	0.4	2	0
	899	2	153	0	1.3	2	0
	900	2	142	1	0.6	2	1
##	901	0	173	0	0.0	1	0
##	902	0	162	0	0.5	1	0
##	903	0	174	0	1.6	1	0
##	904	0	168	0	1.0	3	1
	905	0	160	0	1.2	1	0
	906	_	139		0.2	1	0
		0		0			
	907	0	171	0	0.6	1	0
	908	2	144	1	1.8	2	0
##	909	2	162	0	1.0	1	0
##	910	2	160	0	1.8	2	1
##	911	2	173	0	3.2	1	1
	912	2	132	1	2.4	2	1
	913	0	158	0	1.6	2	0
	914	0	172	0	0.0	1	0
		_					
	915	0	114	0	2.6	3	0
	916	0	171	0	1.5	1	0
	917	2	114	1	2.0	2	1
##	918	0	151	0	1.8	1	0
##	919	0	160	1	1.4	1	1
	920	0	158	0	0.0	1	1
	921	0	161	0	0.5	2	0
		_					
	922	0	179	1	0.4	1	0
	923	0	178	0	0.0	1	0
##	924	2	120	1	2.5	2	1

##	925	2	112	1	0.6	2	1
##	926	0	132	1	1.2	2	1
	927	0	137	1	1.0	2	0
	928	2	114	0	1.0	2	1
	929	0	178	1	1.4	1	0
	930	0	162	0	0.4	1	
	931		157			1	0
		0		0	1.6		0
	932	2	169	0	0.0	1	1
	933	2	165	0	2.5	2	1
	934	0	123	0	0.6	1	0
	935	2	128	0	2.6	2	1
	936	2	157	0	0.8	1	0
	937	2	152	0	1.2	3	0
	938	0	168	0	0.0	1	0
##	939	0	140	0	0.4	1	0
##	940	2	153	0	0.0	1	1
##	941	2	188	0	0.0	1	0
##	942	0	144	1	1.4	1	1
##	943	2	109	1	2.2	2	1
##	944	0	163	0	0.6	2	1
	945	2	158	0	0.0	1	1
	946	2	152	0	0.5	3	0
	947	2	125	1	1.4	1	0
	948	0	142	1	1.2	2	1
	949	2	160	1	1.4	3	0
	950	2	131	1	2.2	2	1
	951						
		0	170	0	0.0	1	0
	952	0	113	0	1.4	2	1
	953	2	142	1	2.8	2	1
	954	2	155	0	3.0	2	1
	955	2	165	0	1.6	1	0
	956	2	140	1	3.4	3	1
	957	0	147	0	3.6	2	1
	958	0	148	0	0.8	1	0
##	959	0	163	0	0.2	2	1
##	960	0	99	1	1.8	2	1
##	961	2	158	0	0.6	1	1
##	962	2	177	0	0.0	1	1
##	963	2	151	0	0.8	1	0
##	964	2	141	1	2.8	2	1
##	965	2	142	0	1.5	1	0
	966	2	180	0	0.2	2	0
	967	2	111	1	0.8	1	1
	968	2	148	1	3.0	2	0
	969	2	143	0	0.4	2	0
	970	2	182	0	0.0	1	0
	971	2	150	1	1.6	2	1
	972		172			1	
	972	0		0	0.2		0
		2	180	0	0.0	1	0
##	974	2	156	0	0.0	1	0

##	975	2	115	0	0.0	1	0
	976	2	160	0	0.0	1	0
	977	2	149				
				0	0.5	1	0
	978	2	151	0	0.4	2	0
##	979	2	145	0	6.2	3	1
##	980	0	146	0	1.8	2	0
##	981	0	175	0	0.6	2	0
	982	2	172	0	0.0	1	0
	983		161			1	
		0		1	0.0		1
	984	2	142	1	1.2	2	1
	985	2	157	0	2.6	2	1
##	986	0	158	0	0.8	1	0
##	987	2	186	0	0.0	1	0
##	988	2	185	0	0.0	1	0
	989	2	174	0	0.0	1	0
	990	2	159	0	0.0	1	0
	991	2	130	0	0.0	1	0
	992	0	139	0	2.0	2	1
##	993	0	156	0	0.0	1	0
##	994	0	162	1	0.0	1	1
	995	2	150	0	0.4	2	1
	996	0	140	1	3.6	2	1
	997	0	140	0	1.2	2	1
	998	2	146	1	1.0	2	1
##	999	2	144	1	1.2	2	1
##	1000	2	190	0	0.0	2	0
##	1001	2	136	1	3.0	2	1
	1002	0	97	0	1.2	2	1
	1003	0	132	0	0.0	2	0
	1004	2	165	0	0.0	1	0
	1005	0	182	0	1.4	1	0
	1006	2	132	1	1.8	1	1
##	1007	2	127	0	2.8	2	1
##	1008	2	150	1	0.0	1	1
##	1009	2	154	0	4.0	2	1
	1010	0	143	1	1.2	2	0
	1011	0	111	1	5.6	3	1
	1012	2	174	0	1.4	2	1
	1013	2	175	0	0.6	2	0
	1014	2	133	1	4.0	3	1
##	1015	0	126	1	2.8	2	1
	1016	0	170	0	0.0	1	0
	1017	0	163	0	0.0	1	0
	1017	2	147	0	0.4	2	0
	1019	0	154	1	0.0	1	0
	1020	2	202	0	0.0	1	0
	1021	2	186	1	0.0	1	0
##	1022	0	165	0	0.2	2	0
##	1023	2	161	0	1.4	2	0
	1024	0	125	1	2.6	3	1
		-		_		_	_

##	1025	2	103	0	1.4	2	1
	1026	0	130	1	1.6	2	1
	1027	2	166	0	2.4	2	0
	1028	0	164	1	0.0	1	0
##	1029	2	159	0	0.2	2	1
##	1030	0	184	0	0.0	1	0
	1031	0	131	1	1.8	2	1
	1032	2	154	1	0.6	2	0
	1033	0	152	0	0.0	1	1
	1034	2	124	0	1.0	2	1
##	1035	0	179	0	0.0	1	0
##	1036	2	170	0	0.0	1	0
##	1037	0	160	0	0.0	1	0
	1038	0	178	0	1.2	2	0
	1039	2	122	0	0.6	2	0
	1040					2	
		2	160	0	1.6		0
	1041	2	145	1	0.8	2	1
	1042	2	96	1	2.2	3	1
##	1043	2	109	0	2.4	2	1
##	1044	0	173	1	1.6	1	1
##	1045	2	171	0	0.0	1	1
	1046	2	170	0	1.2	2	1
	1047	0	151	0	1.0	1	0
	1047		156			1	
		0		0	0.0		0
	1049	2	162	1	0.0	1	1
	1050	0	158	0	1.6	2	0
	1051	2	122	0	1.0	2	0
	1052	0	175	0	0.0	1	0
##	1053	0	168	1	0.0	1	0
##	1054	0	169	0	0.0	1	0
##	1055	2	159	1	0.0	1	0
	1056	2	156	1	0.0	1	1
	1057	0	138	0	0.0	2	0
	1058		112				
		0		1	2.9	2	1
	1059	2	111	1	0.0	1	0
	1060	0	143	1	0.0	2	1
	1061	2	157	0	1.2	2	0
	1062	2	132	0	2.0	2	1
##	1063	0	88	1	1.2	2	1
	1064	0	147	0	0.1	1	0
	1065	2	105	1	2.1	2	1
	1066	0	162	0	1.9	1	0
	1067	2	173	0	0.0	1	0
	1068	2	166	0	0.5	2	1
	1069	2	150	1	1.9	2	1
	1070	2	178	0	0.8	1	0
##	1071	2	145	0	4.2	3	0
##	1072	2	161	0	0.0	1	1
	1073	0	179	0	0.0	1	0
	1074	0	194	0	0.8	3	0
11 11	-0/1	•		J		9	J

##	1075	0	120	1	0.0	2	1
##	1076	2	195	0	0.0	1	1
	1077	2	146	0	2.0	2	1
	1078		163	0	0.0	1	0
		0					
	1079	0	122	1	4.2	2	1
	1080	2	143	1	0.1	2	1
##	1081	0	106	0	1.9	2	1
##	1082	2	115	0	1.5	2	0
##	1083	2	125	1	0.9	2	1
##	1084	2	131	0	0.1	2	0
	1085	2	152	1	0.2	2	0
	1086	0	162	0	1.1	1	0
	1087	2	125	0	0.0	1	1
	1088	2	159	0	0.0	1	0
	1089	0	154	1	0.0	1	0
	1090	0	173	0	0.2	1	0
	1091	0	133	0	0.2	1	0
	1092	0	161	0	0.0	1	0
##	1093	2	147	1	0.0	2	1
##	1094	2	130	1	3.0	2	1
##	1095	2	126	1	0.9	2	1
##	1096	0	155	0	0.0	1	0
	1097	0	154	1	1.4	2	1
	1098	0	170	0	0.0	1	0
	1099	0	182	1	3.8	2	1
	1100	2	168	0	2.0	2	0
	1101	0	165	1	1.0	2	1
	1102	0	160	0	0.0	1	1
	1103	2	162	0	1.9	2	0
	1104	0	172	0	0.0	1	0
	1105	2	152	1	0.0	2	0
##	1106	0	122	0	2.0	2	0
##	1107	2	182	0	0.0	1	0
##	1108	2	172	1	0.0	1	0
##	1109	2	167	0	0.0	1	0
	1110	0	179	0	0.0	1	0
	1111	0	95	1	2.0	2	1
	1112	0	169	1	1.8	2	1
	1113	0	192	0	0.7	1	0
	1114	_				1	
		0	143	0	0.1		0
	1115	0	172	0	0.0	1	0
	1116	2	108	1	0.0	2	1
	1117	2	132	1	0.1	1	1
	1118	2	169	0	0.1	2	0
##	1119	1	117	1	3.4	2	1
##	1120	2	126	0	0.8	1	1
##	1121	2	121	1	0.2	1	0
	1122	0	163	0	0.0	1	0
	1123	2	116	1	3.2	2	1
	1124	2	103	1	1.6	3	1
тπ	1147	_	103	_	1.0	,	_

##	1125	2	144	0	0.8	1	1
	1126	0	162	0	0.0	2	0
	1127	0	162	0	0.0	1	0
	1128	0	153	0	0.0	1	0
##	1129	0	163	0	0.0	1	0
##	1130	0	163	0	0.0	1	0
	1131	0	145	0	2.6	2	1
	1132	0	96	0	0.0	1	0
		_					
	1133	0	71	0	1.0	2	1
	1134	0	156	0	0.1	1	1
	1135	2	118	1	1.0	2	1
##	1136	0	168	0	1.0	1	1
##	1137	2	140	0	0.0	1	0
##	1138	0	126	1	1.5	2	0
	1139	0	105	0	2.0	2	1
	1140	0	105	1	0.2	2	0
	1141	2	157	0	0.6	1	0
	1142	0	181	0	1.2	2	0
##	1143	0	173	0	0.0	2	0
##	1144	0	142	0	0.3	1	0
##	1145	1	116	0	1.1	2	0
	1146	2	143	0	0.0	1	0
	1147	0	141	0	0.3	1	1
	1148		149				
		0		0	0.3	2	0
	1149	2	152	0	0.0	1	1
	1150	0	171	0	0.9	1	0
##	1151	0	169	0	0.0	1	0
##	1152	2	125	1	3.6	2	1
##	1153	0	125	1	1.8	2	1
	1154	0	156	1	1.0	2	1
	1155	0	134	0	2.2	2	1
	1156						
		0	181	0	0.0	1	1
	1157	0	150	0	0.0	1	0
	1158	2	138	1	1.9	1	1
##	1159	2	138	0	2.3	1	0
##	1160	0	120	1	1.8	2	1
	1161	0	125	0	1.6	2	0
	1162	0	162	0	0.8	1	1
	1163	2	155	0	0.6	2	0
	1164	2	152	0	0.0	2	
							0
	1165	0	152	0	0.0	2	0
	1166	2	164	0	0.0	1	1
	1167	0	131	0	0.6	2	0
##	1168	0	143	1	3.0	2	1
##	1169	0	179	0	0.0	1	0
	1170	1	130	1	2.0	2	1
	1171	0	174	0	0.0	1	0
	1172	0	161	0	0.0	1	1
	1173	1	140	0	4.4	3	1
##	1174	2	146	1	2.8	2	1

## 1175	0	144	0	0.4	2	0
## 1176	2	163	0	0.0	1	0
## 1177	0	169	0	0.0	3	0
## 1178	2	150	0	0.8	2	1
## 1179	0	166	0	1.2	1	0
## 1180	0	144	1	2.8	3	1
## 1181	2	144	1	4.0	1	1
## 1182	0	136	1	0.0	2	1
## 1183	0	182	0	0.0	1	0
## 1184	2	90	0	1.0	2	1
## 1185	0	123	1	0.2	2	1
## 1186	0	132	0	1.2	2	1
## 1187	0	141	0	3.4	2	1
## 1188	0	115	1	1.2	2	1
## 1189	2	174	0	0.0	2	1
## 1190	0	173	0	0.0	1	0
heart_clean[heart_clean\$r	esting.bp.s >= mi	n(heart_rbp	s_boxplot	:\$out),]	
## age	sex chest.pai	n.type resting.bp		rol fasti	ng.blood	sugar

##			sex	<pre>chest.pain.type</pre>	resting.bp.s	cholesterol	fasting.blood.sugar
##	1	40	1	2	140	289	0
##	2	49	0	3	160	180	0
##	3	37	1	2	130	283	0
##	4	48	0	4	138	214	0
##	5	54	1	3	150	195	0
##	6	39	1	3	120	339	0
##	7	45	0	2	130	237	0
##	8	54	1	2	110	208	0
##	9	37	1	4	140	207	0
##	10	48	0	2	120	284	0
##	11	37	0	3	130	211	0
##	12	58	1	2	136	164	0
	13	39	1	2	120	204	0
	14	49	1	4	140	234	0
	15	42	0	3	115	211	0
	16	54	0	2	120	273	0
	17	38	1	4	110	196	0
##	18	43	0	2	120	201	0
	19	60	1	4	100	248	0
##	20	36	1	2	120	267	0
	21	43	0	1	100	223	0
##	22	44	1	2	120	184	0
	23	49	0	2	124	201	0
##	24	44	1	2	150	288	0
	25	40	1	3	130	215	0
##	26	36	1	3	130	209	0
	27	53	1	4	124	260	0
	28	52	1	2	120	284	0
##	29	53	0	2	113	468	0
##	30	51	1	2	125	188	0

## 31	53	1	3	145	518	0
## 32	56	1	3	130	167	0
## 33	54	1	4	125	224	0
## 34	41	1	4	130	172	0
## 35	43	0	2	150	186	0
## 36	32	1	2	125	254	0
## 37	65	1	4	140	306	1
## 38	41	0	2	110	250	0
## 39	48	0	2	120	177	1
## 40	48	0	4	150	227	0
## 41	54	0	2	150	230	0
## 42	54	0	3	130	294	0
## 43	35	1	2	150	264	0
## 44	52	1	3	140	259	0
## 45	43	1	4	120	175	0
## 46	4 3	1	3	130	318	0
## 47	37	1	4	120	223	0
## 47						
	50	1	2	140	216	0
## 49	36	1	3	112	340	0
## 50	41	1	4	110	289	0
## 51	50	1	4	130	233	0
## 52	47	0	4	120	205	0
## 53	45	1	2	140	224	1
## 54	41	0	2	130	245	0
## 55	52	0	4	130	180	0
## 56	51	0	2	160	194	0
## 57	31	1	4	120	270	0
## 58	58	1	3	130	213	0
## 59	54	1	4	150	365	0
## 60	52	1	4	112	342	0
## 61	49	1	2	100	253	0
## 62	43	0	3	150	254	0
## 63	45	1	4	140	224	0
## 64	46	1	4	120	277	0
## 65	50	0	2	110	202	0
## 66	37	0	2	120	260	0
## 67	45	0	4	132	297	0
## 68	32	1	2	110	225	0
## 69	52	1	4	160	246	0
## 70	44	1	4	150	412	0
## 71	57	1	2	140	265	0
## 72	44	1	2	130	215	0
## 73	52	1	4	120	182	0
## 74	44	0	4	120	218	0
## 75	55	1	4	140	268	0
## 76	46	1	3	150	163	0
## 77	32	1	4	118	529	0
## 78	35	0	4	140	167	0
## 79	52	1	2	140	100	0
## 80	49	1	4	130	206	0
00	- 72	_	4	100	200	0

## 81	55	1	3	110	277	0
## 82	54	1	2	120	238	0
## 83	63	1	4	150	223	0
## 84	52	1	2	160	196	0
## 85	56	1	4	150	213	1
## 86	66	1	4	140	139	0
## 87	65	1	4	170	263	1
## 88	53	0	2	140	216	0
## 89	43	1	1	120	291	0
## 90	55	1	4	140	229	0
## 91	49	0	2	110	208	0
## 92	39	1	4	130	307	0
## 93	52	0	2	120	210	0
## 94	48	1	4	160	329	0
## 95	39	0	3	110	182	0
## 96	58	1	4	130	263	0
## 97	43	1	2	142	207	0
## 98	39	1	3	160	147	1
## 99	56	1	4	120	85	0
## 100	41	1	2	125	269	0
## 101	65	1	4	130	275	0
## 102	51	1	4	130	179	0
## 103	40	0	4	150	392	0
## 104	40	1	4	120	466	1
## 105	46	1	4	118	186	0
## 106	57	1	2	140	260	1
## 107	48	0	4	120	254	0
## 107	34	1	2	150	214	0
## 109	50	1	4	140	129	0
## 109	39	1	2	190	241	0
## 111	59	0	2	130	188	0
## 111	57	1	4	150	255	0
## 112	47	1	4	140	276	1
						0
## 114 ## 115	38	1	2	140	297	
	49	0	3	130	207	0
## 116	33	0	4	100	246	0
## 117	38	1	4	120	282	0
## 118	59 25	0	4	130	338	1
## 119	35	0	1	120	160	0
## 120	34	1	1	140	156	0
## 121	47	0	3	135	248	1
## 122	52	0	3	125	272	0
## 123	46	1	4	110	240	0
## 124	58	0	2	180	393	0
## 125	58	1	2	130	230	0
## 126	54	1	2	120	246	0
## 127	34	0	2	130	161	0
## 128	48	0	4	108	163	0
## 129	54	0	2	120	230	1
## 130	42	1	3	120	228	0

## 131	38	1	3	145	292	0
## 132	46	1	4	110	202	0
## 133	56	1	4	170	388	0
## 134	56	1	4	150	230	0
## 135	61	0	4	130	294	0
## 136	49	1	3	115	265	0
## 137	43	0	2	120	215	0
## 138	39	1	2	120	241	0
## 139	54	1	4	140	166	0
## 140	43	1	4	150	247	0
## 141	52	1	4	160	331	0
## 142	50	1	4	140	341	0
## 143	47	1	4	160	291	0
## 144	53	1	4	140	243	0
## 145	56	0	2	120	279	0
## 146	39	1	4	110	273	0
## 147	42	1	2	120	198	0
## 148	43	0	2	120	249	0
## 149	50	1	2	120	168	0
## 150	54	1	4	130	603	1
## 151	39	1	2	130	215	0
## 151	48	1	2	100	159	0
## 152	40 40	1			275	
			2	130		0
## 154	55 41	1	4	120	270	0
## 155	41	1	2	120	291	0
## 156	56	1	4	155	342	1
## 157	38	1	4	110	190	0
## 158	49	1	4	140	185	0
## 159	44	1	4	130	290	0
## 160	54	1	2	160	195	0
## 161	59	1	4	140	264	1
## 162	49	1	4	128	212	0
## 163	47	1	2	160	263	0
## 164	49	0	2	110	208	0
## 165	42	1	2	120	196	0
## 166	52	0	2	140	225	0
## 167	46	1	1	140	272	1
## 168	50	1	4	140	231	0
## 169	48	1	2	140	238	0
## 170	58	1	4	135	222	0
## 171	58	1	3	140	179	0
## 172	29	1	2	120	243	0
## 173	40	1	3	140	235	0
## 174	53	1	2	140	320	0
## 175	49	1	3	140	187	0
## 176	52	1	4	140	266	0
## 177	43	1	4	140	288	0
## 178	54	1	4	140	216	0
## 179	59	1	2	140	287	0
## 180	37	1	3	130	194	0
			_			-

## 181	46	0	4	130	238	0
## 182	52	1	4	130	225	0
## 183	51	1	2	130	224	0
## 184	52	1	4	140	404	0
## 185	46	1	4	110	238	0
## 186	54	0	2	160	312	0
## 187	58	1	3	160	211	1
## 188	58	1	2	130	251	0
## 189	41	1	4	120	237	1
## 190	50	0	4	120	328	0
## 191	53	1	4	180	285	0
	46	1	4	180	280	0
## 193	50	1	2	170	209	0
## 194	48	1	2	130	245	0
## 195	45	1	3	135	192	0
## 196	41	0	2	125	184	0
## 197	62	0	1	160	193	0
## 198	49	1	4	120	297	0
## 199	42	1	2	150	268	0
## 200	53	1	4	120	246	0
## 201	57	0	1	130	308	0
## 202	47	1	1	110	249	0
## 203	46	1	3	120	230	0
## 204	42	1	3	160	147	0
## 205	31	0	2	100	219	0
## 206	56	1	2	130	184	0
## 207	50	1	4	150	215	0
## 208	35	1	2	120	308	0
## 209	35	1	2	110	257	0
## 210	28	1	2	130	132	0
## 211	54	1	4	125	216	0
## 212	48	1	4	106	263	1
## 213	50	0	3	140	288	0
## 214	56	1	3	130	276	0
## 215	56	0	3	130	219	0
## 216	47	1	4	150	226	0
## 210	30				237	
		0	1	170		0
## 218	39	1	4	110	280	0
## 219	54	1	3	120	217	0
## 220	55	1	2	140	196	0
## 221	29	1	2	140	263	0
## 222	46	1	4	130	222	0
## 223	51	0	4	160	303	0
## 224	48	0	3	120	195	0
## 225	33	1	3	120	298	0
## 226	55	1	2	120	256	1
## 227	50	1	4	145	264	0
## 228	53	1	3	120	195	0
## 229	38	1	4	92	117	0
## 230	41	1	2	120	295	0

## 231	37	0	4	130	173	0
## 232	37	1	4	130	315	0
## 233	40	1	3	130	281	0
## 234	38	0	2	120	275	0
## 235	41	1	4	112	250	0
## 236	54	0	2	140	309	0
## 237	39	1	2	120	200	0
## 238	41	1	4	120	336	0
## 239	55	1	1	140	295	0
## 240	48	1	4	160	355	0
## 241	48	1	4	160	193	0
## 242	55	1		145	326	0
## 242			2		198	
	54 55	1	4	200		0
## 244	55	1	2	160	292	1
## 245	43	0	2	120	266	0
## 246	48	1	4	160	268	0
## 247	54	1	1	120	171	0
## 248	54	1	3	120	237	0
## 249	48	1	4	122	275	1
## 250	45	1	4	130	219	0
## 251	49	1	4	130	341	0
## 252	44	1	4	135	491	0
## 253	48	1	4	120	260	0
## 254	61	1	4	125	292	0
## 255	62	1	2	140	271	0
## 256	55	1	4	145	248	0
## 257	53	0	3	120	274	0
## 258	55	0	2	130	394	0
## 259	36	1	3	150	160	0
## 260	51	0	3	150	200	0
## 261	55	0	2	122	320	0
## 262	46	1	2	140	275	0
## 263	54	0	2	120	221	0
## 264	46	1	4	120	231	0
## 265	59	1	4	130	126	0
## 266	47	1	3	140	193	0
## 267	54	1	2	160	305	0
## 268	52					
		1	4	130	298	0
## 269	34	1	2	98	220	0
## 270	54	1	4	130	242	0
## 271	47	0	3	130	235	0
## 272	45	1	4	120	225	0
## 273	32	0	2	105	198	0
## 274	55	1	4	140	201	0
## 275	55	1	3	120	220	0
## 276	45	0	2	180	295	0
## 277	59	1	3	180	213	0
## 278	51	1	3	135	160	0
## 279	52	1	4	170	223	0
## 280	57	0	4	180	347	0

## 281 54 0 2 130 253 0 6 ## 283 49 1 3 120 246 0 6 ## 283 49 1 4 1 50 222 0 6 ## 284 51 0 3 130 220 0 6 ## 285 55 0 2 110 344 0 6 ## 285 55 0 2 110 344 0 6 ## 286 42 1 4 140 358 0 6 ## 288 59 1 4 140 169 0 6 ## 288 59 1 4 140 169 0 6 ## 288 59 1 2 120 181 0 6 ## 289 53 1 2 120 181 0 6 ## 299 48 0 2 133 308 0 6 ## 291 36 1 2 120 166 0 6 ## 291 36 1 2 120 166 0 6 ## 292 48 1 3 1 10 211 0 6 ## 294 53 1 4 130 182 0 6 ## 418 63 1 4 130 182 0 6 ## 419 44 1 1 4 130 209 0 6 ## 419 44 1 1 4 130 209 0 6 ## 419 44 1 1 4 130 209 0 6 ## 419 55 1 1 4 132 218 0 6 1 1 4 132 218 0 6 ## 422 66 1 3 1 10 213 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
## 283			54	0	2	130	253	0
## 284 51 0 3 130 220 0 8 ## 285 55 0 2 110 344 0 0 8 ## 288 55 0 2 110 344 0 0 8 ## 288 55 0 2 110 344 0 0 0 8 ## 288 55 1 0 0 3 110 190 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				1				
## 285 55 0 2 1 140 344 0 8 ## 286 42 1 4 140 358 0 0 8 ## 287 51 0 3 110 190 0 0 8 ## 288 59 1 4 140 169 0 0 8 ## 288 59 1 4 140 169 0 0 8 ## 289 53 1 2 120 181 0 0 8 ## 299 48 0 2 133 308 0 0 9 8 ## 291 36 1 2 120 166 0 0 9 8 ## 292 48 1 3 110 211 0 0 9 8 ## 293 47 0 2 140 257 0 0 9 8 ## 294 53 1 4 130 182 0 0 9 8 ## 419 44 1 4 140 260 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			49	1	4	150	222	0
## 286	##	284	51	0	3	130	220	0
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## 504	69	1	4	140	208	0
## 505	51	1	4	132	227	1
## 506	62	1	4	158	210	1
## 507	55	1	3	136	245	1
## 508	75	1	4	136	225	0
## 509	40	1	3	106	240	0
## 511	58	1	4	110	198	ő 0
## 512	60	1	4	136	195	0
## 512	63	1	4	160	267	1
## 513	35	1		123	161	
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## 515	62	1	1	112	258	0
## 518	68	1	3	150	195	1
## 519	65	1	4	150	235	0
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## 535	63	1	4	110	252	0
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## 541	57	1	4	110	197	0
## 542	62	1	3	138	204	0
## 543	76	1	3	104	113	0
## 544	54		4			
		0		138	274	0
## 545	70	1	4	170	192	0
## 546	61	0	2	140	298	1
## 547	48	1	4	132	272	0
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## 549	61	1	1	142	200	1
## 550	66	1	4	112	261	0
## 551	68	1	1	139	181	1
## 552	55	1	4	172	260	0

## 553	62	1	3	120	220	0
## 554	71	1	3	144	221	0
## 555	74	1	1	145	216	1
## 556	53	1	3	155	175	1
## 557	58	1	3	150	219	0
## 558	75	1	4	160	310	1
## 559	56	1	3	137	208	1
## 560	58	1	3	137	232	0
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## 563	54	1	2	132	182	0
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## 566	57	1	4	144	270	1
## 567	61	1	4	141	292	0
## 568	41	1	4	150	171	0
## 569	71	1	4	130	221	0
## 570	38	1	4	110	289	0
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## 574	64	1	4	150	193	0
## 575	72	1	4	160	123	1
## 576	69	1	4	142	210	1
## 577	56	1	4	137	282	1
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## 597	60	1	4	130	186	1
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## 600	55	1	4	120	226	0
## 601	56	1	4	130	203	1
## 602	57	1	4	130	207	0

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## 605	58	1		3	150	219	0
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## 607	68	1		3	134	254	1
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## 609	62	1	4	4	160	254	1
## 610	53	1	4	4	144	300	1
## 611	62	1	4	4	158	170	0
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## 614	62	1	:	1	135	139	0
## 615	55	1	4	4	122	223	1
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## 620	57	1		2	124	261	0
## 621	64	1	4	4	128	263	0
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## 623	65	1	4	4	120	177	0
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## 629	53	1	4	4	142	226	0
## 630	44	1	:	3	140	235	0
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## 632	57	0	4	4	128	303	0
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## 635	53	1	4	4	140	203	1
## 636	64	1	:	1	110	211	0
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## 638	67	1	4	4	120	229	0
## 639	48	1		2	130	245	0
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## 642	54	0		2	132	288	1
## 643	48	0	:	3	130	275	0
## 644	46	0		4	138	243	0
## 645	51	0		3	120	295	0
## 646	58	1		3	112	230	0
## 647	71	0		3	110	265	1
## 648	57	1		3	128	229	0
## 649	66	1		4	160	228	0
## 650	37	0		3	120	215	0
## 651	59	1		4	170	326	0
## 652	50	1		4	144	200	0

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## 655	59	1	1	160	273	0
## 656	42	1	3	130	180	0
## 657	48	1	4	122	222	0
## 658	40	1	4	152	223	0
## 659	62	0	4	124	209	0
## 660	44	1	3	130	233	0
## 661	46	1	2	101	197	1
## 662	59	1	3	126	218	1
## 663	58	1	3	140	211	1
## 664	49	1	3	118	149	0
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## 669	52	1	2	128	205	1
## 670	65	0	3	140	417	1
## 671	63	0	2	140	195	0
## 672	45	0	2	130	234	0
## 673	41	0	2	105	198	0
## 674	61	1	4	138	166	0
## 675	60	0	3	120	178	1
## 676	59	0	4	174	249	0
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	57	1	3	150	126	1
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## 682	63	1	1	145	233	1
## 683	57	1	4	150	276	0
## 684	51	1	4	140	261	0
## 685	58	0	2	136	319	1
## 686	44	0	3	118	242	0
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## 692	67	0	4	106	223	0
## 693	45	1	4	142	309	0
## 694	45	1	4	104	208	0
## 695	39	0	3	94	199	0
## 696	42	0	3	120	209	0
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## 698	58	1	4	146	218	0
## 699	35	1	4	120	198	0
## 700	58	1	4	150	270	0
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## 702	57	1	4	110	201	0

## 703	42	1	1	148	244	0
## 704	62	1	2	128	208	1
## 705	59	1	1	178	270	0
## 706	41	0	2	126	306	0
## 707	50	1	4	150	243	0
## 708	59	1	2	140	221	0
## 709	61	0	4	130	330	0
## 710	54	1	4	124	266	0
## 711	54	1	4	110	206	0
## 712	52	1	4	125	212	0
## 713	47	1	4	110	275	0
## 714	66	1	4	120	302	0
## 715	58	1	4	100	234	0
## 716	64	0	3	140	313	0
## 717	50	0	2	120	244	0
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## 721						1
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## 727	45	0	2	112	160	0
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## 744	62	1	4	120	267	0
## 745	52	0	3	136	196	0
## 746	52	1	2	134	201	0
## 747	60	1	4	117	230	1
## 748	63	0	4	108	269	0
## 749	66	1	4	112	212	0
## 750	42	1	4	140	226	0
## 751	64	1	4	120	246	0
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ππ /) Δ	54	1	5	170	232	Ø

_						
## 753	46	0	3	142	177	0
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## 755	56	1	4	125	249	1
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## 772	51	0	3	130	256	ő
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## 776	45 56	1		120	193	
## 777			1 4	178		0 1
	66	0			228	
## 778	38	1	1	120	231	0
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## 786	45	0	4	138	236	0
## 787	65	1	1	138	282	1
## 788	69	1	1	160	234	1
## 789	69	1	3	140	254	0
## 790	67	1	4	100	299	0
## 791	68	0	3	120	211	0
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## 800	41	1	4	110	172	0
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## 803	43	1	3	130	315	0
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## 812	48	1	3	124	255	1
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## 844	62	0	3	130	263	0
## 845	43	0	4	132	341	1
## 846	58	0	1	150	283	1
## 847	52	1	1	118	186	0
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## 851	52	1	4	128	255	0
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## 853	62	0	4	160	164	0
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## 856	47	1	3	138	257	0
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## 870	43	1	4	150	247	0
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		0	3	120	340	0
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## 901	44	1	2	120	263	0
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## 907	49	1	2	2	130	266	0
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## 922	44	1		3	130	233	0
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## 923	43	1	2		120	177	0
## 924	4 3					276	0
## 925		1	2		150		
	55 61	1	4		132	353	0
## 927	61	1		3	150	243	1
## 928	65	0	4		150	225	0
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## 930	71	0	2		160	302	0
## 931	59	1		3	150	212	1
## 932	61	0	4		130	330	0
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## 934	51	1		3	110	175	0
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## 936	65	0		3	140	417	1
## 937	53	1		3	130	197	1
## 938	41	0	2		105	198	0
## 939	65	1	2		120	177	0
## 940	44	1	2		112	290	0
## 941	44	1	2		130	219	0
## 942	60	1	4		130	253	0
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## 944	50	1	3	3	140	233	0
## 945	41	1	4		110	172	0
## 946	54	1	3	3	125	273	0
## 947	51	1	1	1	125	213	0
## 948	51	0	4	1	130	305	0
## 949	46	0	3	3	142	177	0
## 950	58	1	4	1	128	216	0
## 951	54	0	3	3	135	304	1
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## 956	59	1	4	170	326	0
## 957	46	1	3	150	231	0
## 958	65	0	3	155	269	0
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## 967	58	1	4	150	270	ø
## 968	45	1	4	104	208	ø
## 969	53	0	4	130	264	0
## 970	39	1	3	140	321	0
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## 974	47	1	3	138	257	0
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## 990	57	0	4	128	303	0
## 991	71	0	3	110	265	1
## 992	49	1	3	120	188	0
## 993	54	1	2	108	309	0
## 994	59	1	4	140	177	0
## 995	57	1	3	128	229	0
## 996	61	1	4	120	260	ø
## 997	39	1	4	118	219	ø
## 998	61	0	4	145	307	0
## 999	56	1	4	125	249	1
## 1000	52	1	1	118	186	0
## 1000	43	0	4	132	341	1
## 1001	43 62	0	3	130	263	0
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## 1003	41	1	2		35	203	0
## 1004	58	1	3	14	10	211	1
## 1005	35	0	4	13	38	183	0
## 1006	63	1	4	13	30	330	1
## 1007	65	1	4	13	35	254	0
## 1008	48	1	4	13	30	256	1
## 1009	63	0	4		50	407	0
## 1010	51	1	3		90	222	0
## 1011	55	1	4		10	217	0
## 1012	65	1	1		38	282	1
## 1013	45	0	2		30	234	0
## 1014	56	0	4		90	288	1
## 1015	54	1	4		10	239	0
## 1016	44	1	2		20	220	0
## 1017	62	0	4		24	209	0
## 1017	54	1	3		20	258	0
## 1018	51	1	3		94	227	0
## 1019	29	1	2		30	204	0
## 1020	51	1	4		10	261	
## 1021	43	0			+0 22	213	0
			3				0
## 1023	55	0	2		35	250	0
## 1024	70	1	4		45	174	0
## 1025	62	1	2		20	281	0
## 1026	35	1	4		20	198	0
## 1027	51	1	3		25	245	1
## 1028	59	1	2		10	221	0
## 1029	59	1	1		70	288	0
## 1030	52	1	2		28	205	1
## 1031	64	1	3		25	309	0
## 1032	58	1	3		9 5	240	0
## 1033	47	1	3		86	243	0
## 1034	57	1	4		55	289	1
## 1035	41	1	3	13	12	250	0
## 1036	45	1	2	12	28	308	0
## 1037	60	0	3	16	92	318	0
## 1038	52	1	1	15	52	298	1
## 1039	42	0	4	16	92	265	0
## 1040	67	0	3	11	15	564	0
## 1041	55	1	4	16	50	289	0
## 1042	64	1	4	12	20	246	0
## 1043	70	1	4	13	30	322	0
## 1044	51	1	4	14	10	299	0
## 1045	58	1	4		25	300	0
## 1046	60	1	4		10	293	0
## 1047	68	1	3		18	277	0
## 1048	46	1	2		91	197	1
## 1049	77	1	4		25	304	0
## 1050	54	0	3		10	214	0
## 1050	58	0	4		90	248	0
## 1051	48	1	3		24	255	1
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## 1097 62 0 4 150 244 0 ## 1098 37 0 3 120 215 0 ## 1099 38 1 1 120 231 0 ## 1100 41 1 3 130 214 0 ## 1101 66 0 4 178 228 1							
## 1098 37 0 3 120 215 0 ## 1099 38 1 1 120 231 0 ## 1100 41 1 3 130 214 0 ## 1101 66 0 4 178 228 1							
## 1099 38 1 1 120 231 0 ## 1100 41 1 3 130 214 0 ## 1101 66 0 4 178 228 1							
## 1100 41 1 3 130 214 0 ## 1101 66 0 4 178 228 1							
## 1101 66 0 4 178 228 1							
## 1102 52 1 4 112 230 0							
	## 1102	52	1	4	112	230	0

## 1103	56	1	1	120	193	0
## 1104	46	0	2	105	204	0
## 1105	46	0	4	138	243	0
## 1106	64	0	4	130	303	0
## 1107	59	1	4	138	271	0
## 1108	41	0	3	112	268	0
## 1109	54	0	3	108	267	0
## 1110	39	0	3	94	199	0
## 1111	53	1	4	123	282	0
## 1112	63	0	4	108	269	0
## 1113	34	0	2	118	210	0
## 1114	47	1	4	112	204	0
## 1115	67	0	3	152	277	0
## 1116	54	1	4	110	206	0
## 1117	66	1	4	112	212	0
## 1118	52	0	3	136	196	0
## 1119	55	0	4	180	327	0
## 1120	49	1	3	118	149	0
## 1121	74	0	2	120	269	0
## 1122	54	0	3	160	201	0
## 1123	54	1	4	122	286	0
## 1124	56	1	4	130	283	1
## 1125	46	1	4	120	249	0
## 1126	49	0	2	134	271	0
## 1127	42	1	2	120	295	0
## 1128	41	1	2	110	235	0
## 1128	41	0	2	126	306	0
## 1129	49	0	4	130	269	0
## 1130						
	61	1	1	134	234	0
## 1132	60	0	3	120	178	1
## 1133	67	1	4	120	237	0
## 1134	58	1	4	100	234	0
## 1135	47	1	4	110	275	0
## 1136	52	1	4	125	212	0
## 1137	62	1	2	128	208	1
## 1138	57	1	4	110	201	0
## 1139	58	1	4	146	218	0
## 1140	64	1	4	128	263	0
## 1141	51	0	3	120	295	0
## 1142	43	1	4	115	303	0
## 1143	42	0	3	120	209	0
## 1144	67	0	4	106	223	0
## 1145	76	0	3	140	197	0
## 1146	70	1	2	156	245	0
## 1147	57	1	2	124	261	0
## 1148	44	0	3	118	242	0
## 1149	58	0	2	136	319	1
## 1150	60	0	1	150	240	0
## 1151	44	1	3	120	226	0
## 1152	61	1	4	138	166	0

	1153	42	1	4	136		315			0
##	1154	52	1	4	128	- 2	204			1
##	1155	59	1	3	126	2	218			1
##	1156	40	1	4	152		223			0
##	1157	42	1	3	130	-	L80			0
	1158	61	1	4	140		207			0
	1159	66	1	4	160		228			0
	1160	46	1	4	140		311			0
	1161	71	0	4	112		L49			0
	1162	59								
			1	1	134		204			0
	1163	64	1	1	170		227			0
	1164	66	0	3	146		278			0
	1165	39	0	3	138		220			0
	1166	57	1	2	154		232			0
	1167	58	0	4	130		L97			0
##	1168	57	1	4	110	3	335			0
##	1169	47	1	3	130	2	253			0
##	1170	55	0	4	128	2	205			0
##	1171	35	1	2	122	-	L92			0
##	1172	61	1	4	148	2	203			0
##	1173	58	1	4	114	3	318			0
	1174	58	0	4	170		225			1
	1175	58	1	2	125		220			0
	1176	56	1	2	130		221			0
	1177	56	1	2	120		240			0
	1178	67	1	3	152		212			0
	1179	55	0	2	132		342			0
	1180	44	1	4	120		L69			0
	1181	63	1	4	140		L87			0
	1182	63	0	4	124		L97			0
	1183	41	1	2	120		L57 L57			0
	1184	59 57	1	4	164		L76			1
	1185	57	0	4	140		241			0
	1186	45	1	1	110		264			0
	1187	68	1	4	144		L93			1
	1188	57	1	4	130		L31			0
	1189	57	0	2	130		236			0
	1190	38	1	3	138		L75			0
##		resti	.ng.ecg	<pre>max.heart.rate</pre>	exercise.angi	na olo		ST.slope	target	
##			0	172		0	0.0	1	0	
##			0	156		0	1.0	2	1	
##	3		1	98		0	0.0	1	0	
##	4		0	108		1	1.5	2	1	
##	5		0	122		0	0.0	1	0	
##	6		0	170		0	0.0	1	0	
##	7		0	170		0	0.0	1	0	
##	8		0	142		0	0.0	1	0	
##	9		0	130		1	1.5	2	1	
##	10		0	120		0	0.0	1	0	
##	11		0	142		0	0.0	1	0	

##	12	1	99	1	2.0	2	1
##	13	0	145	0	0.0	1	0
	14	0	140	1	1.0	2	1
	15		137	0	0.0		
		1				1	0
##		0	150	0	1.5	2	0
##	17	0	166	0	0.0	2	1
##	18	0	165	0	0.0	1	0
##	19	0	125	0	1.0	2	1
##	20	0	160	0	3.0	2	1
##		0	142	0	0.0	1	0
	22						
		0	142	0	1.0	2	0
	23	0	164	0	0.0	1	0
	24	0	150	1	3.0	2	1
##	25	0	138	0	0.0	1	0
##	26	0	178	0	0.0	1	0
	27	1	112	1	3.0	2	0
	28	0	118	0	0.0	1	0
	29		127		0.0		0
		0		0		1	
	30	0	145	0	0.0	1	0
	31	0	130	0	0.0	2	1
##	32	0	114	0	0.0	1	0
##	33	0	122	0	2.0	2	1
##	34	1	130	0	2.0	2	1
	35	0	154	0	0.0	1	0
	36	0	155	0	0.0	1	0
	37	0	87	1	1.5	2	1
	38	1	142	0	0.0	1	0
##	39	1	148	0	0.0	1	0
##	40	0	130	1	1.0	2	0
##	41	0	130	0	0.0	1	0
##	42	1	100	1	0.0	2	1
	43	0	168	0	0.0	1	0
	44		170	0	0.0		
		1				1	0
##		0	120	1	1.0	2	1
	46	0	120	1	1.0	2	0
##		0	168	0	0.0	1	0
##	48	0	170	0	0.0	1	0
##	49	0	184	0	1.0	2	0
	50	0	170	0	0.0	2	1
	51	0	121	1	2.0	2	1
	52	0	98	1	2.0	2	1
	53	0	122	0	0.0	1	0
	54	0	150	0	0.0	1	0
##	55	0	140	1	1.5	2	0
##	56	0	170	0	0.0	1	0
	57	0	153	1	1.5	2	1
	58	1	140	0	0.0	2	1
	59	1	134	0		1	
					1.0		0
	60	1	96	1	1.0	2	1
##	61	0	174	0	0.0	1	0

##	62	0	175	0	0.0	1	0
##	63	0	144	0	0.0	1	0
	64	0	125	1	1.0	2	1
	65	0	145	0	0.0	1	0
##	66	0	130	0	0.0	1	0
##	67	0	144	0	0.0	1	0
##	68	0	184	0	0.0	1	0
##		1	82	1	4.0	2	1
	70		170	0	0.0	1	0
		0					
##		1	145	1	1.0	2	1
	72	0	135	0	0.0	1	0
##	73	0	150	0	0.0	2	1
##	74	1	115	0	0.0	1	0
##	75	0	128	1	1.5	2	1
##		0	116	0	0.0	1	0
	77	0	130	0	0.0	2	1
	78	0	150	0	0.0	1	0
	79	0	138	1	0.0	1	0
##	80	0	170	0	0.0	2	1
##	81	0	160	0	0.0	1	0
##	82	0	154	0	0.0	1	0
##		0	115	0	0.0	2	1
	84	0	165	0	0.0	1	0
	85		125	1	1.0	2	1
		0					
	86	0	94	1	1.0	2	1
	87	0	112	1	2.0	2	1
##	88	0	142	1	2.0	2	0
##	89	1	155	0	0.0	2	1
##	90	0	110	1	0.5	2	0
##	91	0	160	0	0.0	1	0
	92	0	140	0	0.0	1	0
	93						
		0	148	0	0.0	1	0
	94	0	92	1	1.5	2	1
##		1	180	0	0.0	1	0
##	96	0	140	1	2.0	2	1
##	97	0	138	0	0.0	1	0
##	98	0	160	0	0.0	1	0
	99	0	140	0	0.0	1	0
	100	0	144	0	0.0	1	0
	101		115	1		2	
		1			1.0		1
	102	0	100	0	0.0	1	0
	103	0	130	0	2.0	2	1
	104	0	152	1	1.0	2	1
##	105	0	124	0	0.0	2	1
	106	0	140	0	0.0	1	0
	107	1	110	0	0.0	1	0
	108	1	168	0	0.0	1	0
	109	0	135	0	0.0	1	0
	110	0	106	0	0.0	1	0
##	111	0	124	0	1.0	2	0

##	112	0	92	1	3.0	2	1
##	113	0	125	1	0.0	1	0
	114	0	150	0	0.0	1	0
	115	1	135	0	0.0	1	0
##	116	0	150	1	1.0	2	1
##	117	0	170	0	0.0	2	1
##	118	1	130	1	1.5	2	1
	119	1	185	0	0.0	1	0
	120	0	180	0	0.0	2	1
	121	0	170	0	0.0	2	1
##	122	0	139	0	0.0	1	0
##	123	1	140	0	0.0	1	0
##	124	0	110	1	1.0	2	1
	125	0	150	0	0.0	1	0
	126	0	110	0	0.0	1	0
	127	0	190	0	0.0	1	0
	128	0	175	0	2.0	1	0
##	129	0	140	0	0.0	1	0
##	130	0	152	1	1.5	2	0
##	131	0	130	0	0.0	1	0
##	132	0	150	1	0.0	2	1
	133	1	122	1	2.0	2	1
	134	1	124	1	1.5	2	_ 1
	135	1	120	1	1.0	2	0
	136	0	175	0	0.0	2	1
	137	_					
		1	175	0	0.0	1	0
	138	1	146	0	2.0	1	0
	139	0	118	1	0.0	2	1
	140	0	130	1	2.0	2	1
##	141	0	94	1	2.5	2	1
##	142	1	125	1	2.5	2	1
##	143	1	158	1	3.0	2	1
	144	0	155	0	0.0	1	0
	145		150				
		0		0	1.0	2	1
	146	0	132	0	0.0	1	0
	147	0	155	0	0.0	1	0
##	148	1	176	0	0.0	1	0
##	149	0	160	0	0.0	1	0
##	150	0	125	1	1.0	2	1
	151	0	120	0	0.0	1	0
	152	0	100	0	0.0	1	0
	153	0	150	0	0.0	1	0
	154	0	140	0	0.0	1	0
	155	1	160	0	0.0	1	0
	156	0	150	1	3.0	2	1
	157	0	150	1	1.0	2	1
##	158	0	130	0	0.0	1	0
##	159	0	100	1	2.0	2	1
	160	1	130	0	1.0	1	0
	161	2	119	1	0.0	2	1
IT TT	101	_		_	0.0	_	-

##	162	0	96	1	0.0	2	1
##	163	0	174	0	0.0	1	0
	164	0	160	0	0.0	1	0
	165		150	0			
		0			0.0	1	0
	166	0	140	0	0.0	1	0
	167	0	175	0	2.0	2	1
##	168	1	140	1	5.0	2	1
##	169	0	118	0	0.0	1	0
##	170	0	100	0	0.0	1	0
	171	0	160	0	0.0	1	0
	172	0	160	0	0.0	1	0
	173	0	188	0	0.0	1	0
	174		162				
		0		0	0.0	1	0
	175	0	172	0	0.0	1	0
	176	0	134	1	2.0	2	1
	177	0	135	1	2.0	2	1
##	178	0	105	0	1.5	2	1
##	179	0	150	0	0.0	1	0
##	180	0	150	0	0.0	1	0
	181	0	90	0	0.0	1	0
	182	0	120	1	2.0	2	1
	183	0	150	0	0.0	1	0
	184	0	124	1	2.0	2	1
	185	1	140	1	1.0	2	0
	186	0	130	0	0.0	1	0
	187	1	92	0	0.0	2	1
	188	0	110	0	0.0	1	0
##	189	0	138	1	1.0	2	1
##	190	0	110	1	1.0	2	0
##	191	1	120	1	1.5	2	1
##	192	1	120	0	0.0	1	0
	193	1	116	0	0.0	1	0
	194	0	160	0	0.0	1	0
	195	0	110	0	0.0	1	0
	196		180	0	0.0		0
		0				1	
	197	0	116	0	0.0	1	0
	198	0	132	0	1.0	2	0
	199	0	136	0	0.0	1	0
	200	0	116	1	0.0	2	1
##	201	0	98	0	1.0	2	0
##	202	0	150	0	0.0	1	0
##	203	0	150	0	0.0	1	0
	204	0	146	0	0.0	1	0
	205	1	150	0	0.0	1	0
	206	0	100	0	0.0	1	0
	207		140	1		1	
		0			0.0		0
	208	2	180	0	0.0	1	0
	209	0	140	0	0.0	2	1
	210	2	185	0	0.0	1	0
##	211	0	140	0	0.0	2	1

##	212	0	110	0	0.0	2	1
##	213	0	140	1	0.0	2	1
	214	0	128	1	1.0	1	0
	215	1	164	0	0.0	1	0
	216	0	98	1	1.5	2	1
	217	1	170	0	0.0	1	0
##	218	0	150	0	0.0	2	1
##	219	0	137	0	0.0	1	0
##	220	0	150	0	0.0	1	0
	221	0	170	0	0.0	1	0
	222	0	112	0	0.0	2	1
	223	0	150	1	1.0	2	1
	224	0	125	0	0.0	1	0
	225	0	185	0	0.0	1	0
##	226	0	137	0	0.0	1	0
##	227	0	150	0	0.0	2	1
##	228	0	140	0	0.0	1	0
	229	0	134	1	2.5	2	1
	230	0	170	0	0.0	1	0
	231	1	184	0	0.0	1	0
	232						
		0	158	0	0.0	1	0
	233	0	167	0	0.0	1	0
	234	0	129	0	0.0	1	0
	235	0	142	0	0.0	1	0
##	236	1	140	0	0.0	1	0
##	237	0	160	1	1.0	2	0
##	238	0	118	1	3.0	2	1
##	239	0	136	0	0.0	2	1
##	240	0	99	1	2.0	2	1
	241	0	102	1	3.0	2	_ 1
	242	0	155	0	0.0	1	0
	243		142				
		0		1	2.0	2	1
	244	0	143	1	2.0	2	1
	245	0	118	0	0.0	1	0
	246	0	103	1	1.0	2	1
##	247	0	137	0	2.0	1	0
##	248	0	150	1	1.5	2	1
##	249	1	150	1	2.0	3	1
	250	1	130	1	1.0	2	1
	251	0	120	1	1.0	2	1
	252	0	135	0	0.0	2	1
	253	0	115	0	2.0	2	1
	254						
		1	115	1	0.0	1	0
	255	0	152	0	1.0	1	0
	256	0	96	1	2.0	2	1
	257	0	130	0	0.0	1	0
##	258	2	150	0	0.0	1	0
##	259	0	172	0	0.0	1	0
##	260	0	120	0	0.5	1	0
	261	0	155	0	0.0	1	0
			•	-			-

##	262	0	165	1	0.0	1	0
	263	0	138	0	1.0	1	0
	264		115	1	0.0	2	1
		0					
	265	0	125	0	0.0	2	1
	266	0	145	1	1.0	2	1
##	267	0	175	0	0.0	1	0
##	268	0	110	1	1.0	2	1
	269	0	150	0	0.0	1	0
	270	0	91	1	1.0	2	1
	271	_	145			2	0
		0		0	2.0		
	272	0	140	0	0.0	1	0
	273	0	165	0	0.0	1	0
##	274	0	130	1	3.0	2	1
##	275	2	134	0	0.0	1	0
##	276	0	180	0	0.0	1	0
	277	0	100	0	0.0	1	0
	278	0	150	0	2.0	2	1
	279						
		0	126	1	1.5	2	1
	280	1	126	1	0.8	2	0
	281	1	155	0	0.0	1	0
##	282	2	135	0	0.0	1	0
##	283	0	122	0	2.0	2	1
##	284	0	160	1	2.0	1	0
	285	1	160	0	0.0	1	0
	286	0	170	0	0.0	1	0
	287	0	120	0	0.0	1	0
	288	0	140	0	0.0	1	0
	289	0	132	0	0.0	1	0
##	290	1	156	0	2.0	1	0
##	291	0	180	0	0.0	1	0
##	292	0	138	0	0.0	1	0
	293	0	135	0	1.0	1	0
	294	0	148	0	0.0	1	0
	418		112				
		1		1	3.0	2	1
	419	1	127	0	0.0	1	0
	420	1	140	1	1.5	3	1
##	421	1	149	1	2.5	1	1
##	422	2	99	1	1.3	2	0
##	424	1	105	1	0.0	2	1
	427	1	157	0	0.5	2	1
	428	1	140	0	0.0	1	0
	433		86			1	
		1		0	0.0		0
	434	0	84	1	2.5	3	1
	435	0	125	1	2.0	2	1
	445	1	140	1	0.5	2	1
##	446	0	120	1	1.5	2	1
##	447	1	124	1	1.6	2	1
	449	1	110	1	2.0	1	1
	450	0	105	1	1.0	2	1
	454	1	118	1	1.5	2	1
##	+J4	1	110	_	1.9	_	_

##	456	0	123	1	1.2	2	1
	462	1	118	1	1.9	2	1
	464	0	117	1	1.3	3	1
	467	0	160	0	0.0	1	0
	470	1	97	1	1.6	1	1
	471	0	161	0	2.0	2	0
	475	1	122	1	1.7	2	1
	478	2	139	0	0.1	1	0
	480	1	148	1	2.0	2	1
	484	0	125	0	2.5	1	1
	487	1	128	1	1.2	2	1
	488	1	180	0	0.4	1	0
	489	1	144	1	2.0	2	1
##	490	0	135	0	0.3	1	0
##	491	0	140	1	3.0	2	1
##	492	0	102	1	1.0	2	1
##	493	1	108	0	0.0	2	1
##	495	0	127	1	1.7	2	1
	496	0	110	1	2.5	2	1
	497	0	140	1	1.0	2	1
	498	0	69	0	1.0	3	0
	499	0	148	1	3.0	3	1
	500	1	130	1	0.0	2	1
	501	0	130	1	1.0	2	1
	502	0	140	1	4.0	3	1
	503	0	138	1	2.0	2	1
	504		140			2	
	505	1		1	2.0		1
		1	138	0	0.2	1	0
	506	0	112	1	3.0	3	1
	507	1	131	1	1.2	2	1
	508	0	112	1	3.0	2	1
	509	0	80	1	0.0	1	0
	511	0	110	0	0.0	2	1
	512	0	126	0	0.3	1	0
	513	1	88	1	2.0	2	1
	514	1	153	0	-0.1	1	0
	515	1	150	1	1.3	2	1
##	518	0	132	0	0.0	0	1
##	519	0	120	1	1.5	2	1
##	521	1	121	1	1.0	1	1
##	522	1	128	0	0.5	2	0
##	523	1	135	1	4.0	3	1
##	524	2	120	1	1.0	1	1
	525	0	117	1	1.0	2	1
	526	1	150	0	0.0	1	0
	527	0	144	0	0.1	1	0
	528	2	113	1	1.7	2	1
	529	0	135	0	0.3	1	0
	530	0	127	1	1.5	2	1
	531	0	109	1	1.4	2	1
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##	532	0	128	1	1.1	2	1
	533	1	115	1	1.8	2	1
##	534	1	102	0	0.0	2	1
##	535	1	140	1	2.0	2	1
	536	0	135	1	2.5	3	1
		_					
	539	1	130	1	4.0	3	1
##	540	0	112	1	2.0	2	1
##	541	2	100	0	0.0	1	0
##	542	1	122	1	1.2	2	1
	543	2	120	0	3.5	3	1
	544	0	105	1	1.5	2	1
##	545	1	129	1	3.0	3	1
##	546	0	120	1	0.0	1	0
	547	1	139	0	0.2	1	0
	548	1	162	0	0.0	2	1
	549	1	100	0	1.5	3	1
##	550	0	140	0	1.5	1	1
##	551	1	135	0	0.2	1	0
	552	0	73	0	2.0	2	1
	553	2	86	0	0.0	1	0
	554	0	108	1	1.8	2	1
##	555	0	116	1	1.8	2	1
##	556	1	160	0	0.3	1	0
	557	1	118	1	0.0	2	1
	558	0	112	1	2.0	3	0
##	559	1	122	1	1.8	2	1
##	560	1	124	1	1.4	2	1
##	561	0	102	1	4.0	3	1
	562	1	137	0	0.2	1	0
	563	1	141	0	0.1	1	0
##	564	0	154	1	2.0	2	0
##	565	1	126	1	1.1	2	1
##	566	1	160	1	2.0	2	1
	567	1	115	1	1.7	2	1
	568	0	128	1	1.5	2	0
##	569	1	115	1	0.0	2	1
##	570	0	105	1	1.5	3	1
	571	0	110	1	2.5	2	1
	572	1	119	1	2.0	3	1
	573	0	109	1	1.5	2	1
	574	1	135	1	0.5	2	1
##	575	2	130	0	1.5	2	1
##	576	1	112	1	1.5	2	1
	577	0	126	1	1.2	2	1
	578	1	120	1	3.0	2	1
	579	0	110	1	1.9	2	1
##	580	2	119	1	3.0	3	1
	581	1	110	1	1.8	2	1
	582	2	130	1	1.0	2	1
ĦĦ	583	0	159	1	1.5	1	1

##	584	2	84	1	0.0	2	1
##	585	2	126	0	0.3	1	0
	586	1	116	1	1.5	2	1
	587	1	120	0	0.8	2	1
	588	0	122	1	2.0	2	1
##	589	2	165	0	1.0	2	0
##	590	1	122	1	2.0	2	1
##	591	0	94	0	0.0	2	1
	592	1	133	0	0.2	1	0
	593	1	110	0	0.0	1	0
	594	2	150	1	2.0	3	1
	595	2	130	0	0.0	2	1
##	596	2	113	1	1.0	1	1
##	597	2	140	1	0.5	2	1
##	598	2	100	0	0.0	2	1
	599	1	136	0	0.2	1	0
	600	2	127	1	1.7	3	1
	601	0	98	0	1.5	2	1
	602	1	96	1	1.0	2	0
##	603	0	123	1	1.3	2	1
##	604	0	98	1	0.0	2	1
##	605	1	118	1	0.0	2	1
	606	0	112	1	1.5	3	1
	607	0	151	1	0.0	1	0
	608	2	96	0	1.0	1	0
	609	1	108	1	3.0	2	1
	610	1	128	1	1.5	2	1
##	611	1	138	1	0.0	2	1
##	612	0	126	0	0.0	2	1
##	613	1	154	0	0.0	2	1
	614	1	137	0	0.2	1	0
	615	1	100	0	0.0	2	1
	616		135				
		2		0	0.3	1	0
	617	2	93	1	0.0	2	1
	618	2	109	0	2.4	2	1
##	619	2	160	0	1.6	2	0
##	620	0	141	0	0.3	1	1
	621	0	105	1	0.2	2	0
	622	2	121	1	0.2	1	0
	623	0	140	0	0.4	1	0
	624	2	142	1		2	1
					0.6		
	625	2	142	1	1.2	2	1
	626	2	170	0	1.2	2	1
##	627	2	154	0	4.0	2	1
##	628	0	161	0	0.5	2	0
	629	2	111	1	0.0	1	0
	630	2	180	0	0.0	1	0
	631	0	145	0	2.6	2	1
	632	2	159	0	0.0	1	0
##	633	0	125	0	1.6	2	0

##	634	0	120	1	1.8	2	1
##	635	2	155	1	3.1	3	1
	636	2	144	1	1.8	2	0
	637		178			1	
		0		1	1.4		0
	638	2	129	1	2.6	2	1
	639	2	180	0	0.2	2	0
##	640	0	181	0	1.2	2	0
##	641	0	143	0	0.1	1	0
##	642	2	159	1	0.0	1	0
	643	0	139	0	0.2	1	0
	644	2	152	1	0.0	2	0
	645	2	157	0	0.6	1	0
	646	2	165	0	2.5	2	1
	647	2	130	0	0.0	1	0
##	648	2	150	0	0.4	2	1
##	649	2	138	0	2.3	1	0
##	650	0	170	0	0.0	1	0
	651	2	140	1	3.4	3	1
	652	2	126	1	0.9	2	1
	653	2	150	1	0.0	1	1
	654	2	138	1	1.9	1	1
	655	2	125	0	0.0	1	1
	656	0	150	0	0.0	1	0
	657	2	186	0	0.0	1	0
##	658	0	181	0	0.0	1	1
##	659	0	163	0	0.0	1	0
##	660	0	179	1	0.4	1	0
##	661	0	156	0	0.0	1	0
	662	0	134	0	2.2	2	1
	663	2	165	0	0.0	1	0
	664	2	126	0	0.8	1	1
	665	2	177	0	0.0	1	1
	666	0	120	1	0.0	2	1
	667	2	114	0	1.0	2	1
	668	0	125	1	1.8	2	1
##	669	0	184	0	0.0	1	0
##	670	2	157	0	0.8	1	0
##	671	0	179	0	0.0	1	0
	672	2	175	0	0.6	2	0
	673	0	168	0	0.0	1	0
	674	2	125	1	3.6	2	1
	675	0	96	0	0.0	1	0
	676	0	143	1	0.0	2	1
	677	2	103	0	1.4	2	1
	678	0	173	0	0.2	1	0
	679	0	142	1	1.2	2	1
	680	0	169	0	0.0	1	0
##	681	0	171	0	0.9	1	0
##	682	2	150	0	2.3	3	0
##	683	2	112	1	0.6	2	1

##	684	2	186	1	0.0	1	0
	685	2	152	0	0.0	1	1
	686	0	149	0	0.3	2	0
	687	0	152	0	0.0	1	1
	688	0	140	1	3.6	2	1
	689	0	163	1	0.6	1	0
##	690	2	143	0	0.0	1	0
##	691	1	116	0	1.1	2	0
##	692	0	142	0	0.3	1	0
	693	2	147	1	0.0	2	1
	694	2	148	1	3.0	2	0
	695	0	179	0	0.0	1	0
	696	0	173	0	0.0	2	0
	697	0	178	0	0.8	1	0
	698	0	105	0	2.0	2	1
##	699	0	130	1	1.6	2	1
##	700	2	111	1	0.8	1	1
##	701	2	168	0	2.0	2	0
	702	0	126	1	1.5	2	0
	703	2	178	0	0.8	1	0
	704	2	140			1	
				0	0.0		0
	705	2	145	0	4.2	3	0
	706	0	163	0	0.0	1	0
	707	2	128	0	2.6	2	1
##	708	0	164	1	0.0	1	0
##	709	2	169	0	0.0	1	1
##	710	2	109	1	2.2	2	1
##	711	2	108	1	0.0	2	1
##	712	0	168	0	1.0	1	1
	713	2	118	1	1.0	2	1
	714	2	151	0	0.4	2	0
	715	0	156	0	0.1	1	1
	716	0	133	0	0.2	1	0
	717	0	162	0	1.1	1	0
	718	0	175	0	0.6	2	0
##	719	0	71	0	1.0	2	1
##	720	0	163	0	0.0	1	0
##	721	2	124	0	1.0	2	1
	722	2	147	0	1.4	2	1
	723	2	166	0	0.5	2	1
	724	0	143	1	1.2	2	0
	725	2				2	
			157	0	2.6		1
	726	0	162	1	0.0	1	1
	727	0	138	0	0.0	2	0
	728	1	117	1	3.4	2	1
##	729	0	153	0	0.0	1	0
##	730	2	161	0	0.0	1	1
##	731	0	170	0	0.0	1	0
	732	0	162	0	0.0	1	0
	733	0	162	0	0.0	2	0
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##	734	2	144	0	0.8	1	1
##	735	2	133	1	4.0	3	1
	736	0	114	0	2.6	3	0
	737	2	103	1	1.6	3	1
	738	0	139	0	2.0	2	1
##	739	2	116	1	3.2	2	1
##	740	0	88	1	1.2	2	1
##	741	2	151	0	0.8	1	0
	742	2	152	0	0.5	3	0
	743	0	163	0	0.0	1	0
	744	0	99	1	1.8	2	1
	745	2	169	0	0.1	2	0
	746	0	158	0	0.8	1	0
##	747	0	160	1	1.4	1	1
##	748	0	169	1	1.8	2	1
	749	2	132	1	0.1	1	1
	750	0	178	0	0.0	1	0
	751		96			3	
		2		1	2.2		1
	752	2	165	0	1.6	1	0
	753	2	160	1	1.4	3	0
	754	0	172	0	0.0	1	0
##	755	2	144	1	1.2	2	1
##	756	0	192	0	0.7	1	0
	757	0	168	1	0.0	1	0
	758	2	132	0	2.0	2	1
	759	2	182	0	0.0	1	0
	760	0	163	0	0.6	2	1
	761		125			1	0
		2		1	1.4		
	762	2	195	0	0.0	1	1
	763	0	95	1	2.0	2	1
	764	0	160	0	0.0	1	1
##	765	2	114	1	2.0	2	1
##	766	2	173	0	3.2	1	1
##	767	2	172	1	0.0	1	0
	768	0	179	0	0.0	1	0
	769	0	158	0	1.6	2	0
		2					
	770		167	0	0.0	1	0
	771	0	122	0	2.0	2	0
	772	2	149	0	0.5	1	0
	773	0	172	0	0.0	1	0
##	774	0	111	1	5.6	3	1
##	775	2	170	0	0.0	1	0
##	776	2	162	0	1.9	2	0
	777	0	165	1	1.0	2	1
	778	0	182	1	3.8	2	1
	779	0	154	1		2	1
					1.4		
	780	0	155	0	0.0	1	0
	781	2	130	1	3.0	2	1
	782	0	161	0	0.0	1	0
##	783	0	154	1	0.0	1	0

##	784	2	159	0	0.0	1	0
	785	2	152	0	1.2	3	0
	786	2				2	
			152	1	0.2		0
	787	2	174	0	1.4	2	1
##	788	2	131	0	0.1	2	0
##	789	2	146	0	2.0	2	1
	790	2	125	1	0.9	2	1
	791	2	115	0	1.5	2	0
	792	2	174		0.0	1	0
				0			
	793	0	106	0	1.9	2	1
	794	0	122	1	4.2	2	1
##	795	0	147	0	3.6	2	1
##	796	0	163	0	0.2	2	1
##	797	0	163	0	0.0	1	0
	798	0	194	0	0.8	3	0
	799	2	150	1	1.9	2	1
	800		158	0	0.0	1	
		2					1
	801	2	122	0	0.6	2	0
	802	2	173	0	0.0	1	0
##	803	0	162	0	1.9	1	0
##	804	2	105	1	2.1	2	1
##	805	0	147	0	0.1	1	0
	806	2	157	0	1.2	2	0
	807	0	112	1	2.9	2	1
	808	0	160	0	1.2	1	0
	809	0	125	1	2.6	3	1
	810	0	156	0	0.0	1	0
	811	2	156	1	0.0	1	1
	812	0	175	0	0.0	1	0
	813	2	161	0	1.4	2	0
##	814	2	122	0	1.0	2	0
##	815	0	158	0	1.6	2	0
##	816	0	151	0	1.8	1	0
	817	2	162	1	0.0	1	1
	818	0	151	0	1.0	1	0
	819	2	171	0		1	1
					0.0		
	820	2	141	1	2.8	2	1
	821	0	173	1	1.6	1	1
	822	2	145	1	0.8	2	1
##	823	0	178	0	1.2	2	0
##	824	0	160	0	0.0	1	0
	825	2	154	1	0.6	2	0
	826	0	131	1	1.8	2	1
	827	0	187	0	3.5	3	0
	828	2	159	0	0.2	2	1
	829	2	166	0	2.4	2	0
	830	0	165	0	0.2	2	0
##	831	2	131	1	2.2	2	1
##	832	2	202	0	0.0	1	0
	833	2	172	0	1.4	1	0
				-			

##	834	2	172	0	0.0	1	0
##	835	0	154	1	0.0	1	0
	836	2	147	0	0.4	2	0
	837	0	170	0	0.0	1	0
	838	0	126	1	2.8	2	1
	839	2	127	0	2.8	2	1
	840	0	174			1	
				0	1.6		0
	841	2	132	1	1.8	1	1
	842	0	182	0	1.4	1	0
	843	0	132	0	0.0	2	0
	844	0	97	0	1.2	2	1
	845	2	136	1	3.0	2	1
	846	2	162	0	1.0	1	0
##	847	2	190	0	0.0	2	0
##	848	2	146	1	1.0	2	1
##	849	0	140	0	1.2	2	1
##	850	2	185	0	0.0	1	0
##	851	0	161	1	0.0	1	1
	852	0	146	0	1.8	2	0
	853	2	145	0	6.2	3	1
	854	2	160	0	0.0	1	0
	855	2	120	1	2.5	2	1
	856	2	156	0	0.0	1	0
	857	0	172	0	0.2	1	0
	858	2	150	1	1.6	2	1
	859	2	182	0	0.0	1	0
	860	2	143	0	0.4	2	0
	861	2	160	0	3.6	3	1
	862	2	142	0	1.5	1	0
	863						
		0	144	1	1.4	1	1
	864	2	158	0	0.6	1	1
	865	0	148	0	0.8	1	0
	866	2	155	0	3.0	2	1
	867	2	142	1	2.8	2	1
	868	0	113	0	1.4	2	1
	869	2	188	0	0.0	1	0
##	870	2	153	0	0.0	1	1
##	871	0	123	0	0.6	1	0
##	872	0	157	0	1.6	1	0
##	873	0	162	0	0.4	1	0
##	874	0	137	1	1.0	2	0
##	875	0	132	1	1.2	2	1
##	876	0	158	0	0.0	1	1
	877	0	171	0	1.5	1	0
	878	0	172	0	0.0	1	0
	879	2	132	1	2.4	2	1
	880	2	160	0	1.8	2	1
	881	0	171	0	0.6	1	0
	882	0	168	0	1.0	3	1
	883	0	162	0	0.5	1	0
##	003	U	102	U	0.5	_	ð

##	884	0	173	0	0.0	1	0
	885	2	153	0	1.3	2	0
	886	0	148	0	0.4	2	0
	887	2	108	1	1.5	2	1
##	888	2	150	0	2.3	3	0
##	889	2	108	1	1.5	2	1
	890	2	129	1	2.6	2	1
	891						
		0	187	0	3.5	3	0
	892	2	172	0	1.4	1	0
##	893	0	178	0	0.8	1	0
##	894	2	160	0	3.6	3	1
##	895	0	163	1	0.6	1	0
	896	2	147	0	1.4	2	1
	897	2	155	1	3.1	3	1
	898	0	148	0	0.4	2	0
	899	2	153	0	1.3	2	0
##	900	2	142	1	0.6	2	1
##	901	0	173	0	0.0	1	0
	902	0	162	0	0.5	1	0
	903	0	174	0	1.6	1	0
	904	0	168	0	1.0	3	1
	905	0	160	0	1.2	1	0
	906	0	139	0	0.2	1	0
##	907	0	171	0	0.6	1	0
##	908	2	144	1	1.8	2	0
##	909	2	162	0	1.0	1	0
	910	2	160	0	1.8	2	1
	911	2	173			1	1
				0	3.2		
	912	2	132	1	2.4	2	1
	913	0	158	0	1.6	2	0
##	914	0	172	0	0.0	1	0
##	915	0	114	0	2.6	3	0
	916	0	171	0	1.5	1	0
	917	2	114	1	2.0	2	1
	918	0	151	0	1.8	1	0
	919	0	160	1	1.4	1	1
	920	0	158	0	0.0	1	1
##	921	0	161	0	0.5	2	0
##	922	0	179	1	0.4	1	0
	923	0	178	0	0.0	1	0
	924	2	120	1	2.5	2	1
	925						
		2	112	1	0.6	2	1
	926	0	132	1	1.2	2	1
	927	0	137	1	1.0	2	0
##	928	2	114	0	1.0	2	1
##	929	0	178	1	1.4	1	0
	930	0	162	0	0.4	1	0
	931	0	157	0	1.6	1	0
	932	2	169	0	0.0	1	1
##	933	2	165	0	2.5	2	1

##	934	0	123	0	0.6	1	0
	935	2	128	0	2.6	2	1
	936	2	157	0	0.8	1	0
	937	2	152	0	1.2	3	0
##	938	0	168	0	0.0	1	0
##	939	0	140	0	0.4	1	0
	940	2	153	0	0.0	1	1
	941						
		2	188	0	0.0	1	0
	942	0	144	1	1.4	1	1
##	943	2	109	1	2.2	2	1
##	944	0	163	0	0.6	2	1
##	945	2	158	0	0.0	1	1
	946	2	152	0	0.5	3	0
	947	2	125	1	1.4	1	0
	948	0	142	1	1.2	2	1
	949	2	160	1	1.4	3	0
##	950	2	131	1	2.2	2	1
##	951	0	170	0	0.0	1	0
	952	0	113	0	1.4	2	1
	953	2	142	1	2.8	2	1
	954	2	155	0	3.0	2	1
	955	2	165	0	1.6	1	0
##	956	2	140	1	3.4	3	1
##	957	0	147	0	3.6	2	1
##	958	0	148	0	0.8	1	0
	959	0	163	0	0.2	2	1
	960	0	99	1	1.8	2	1
	961	2	158	0	0.6	1	1
	962	2	177	0	0.0	1	1
	963	2	151	0	0.8	1	0
##	964	2	141	1	2.8	2	1
##	965	2	142	0	1.5	1	0
	966	2	180	0	0.2	2	0
	967	2	111	1	0.8	1	1
	968	2	148	1		2	0
					3.0		
	969	2	143	0	0.4	2	0
	970	2	182	0	0.0	1	0
##	971	2	150	1	1.6	2	1
##	972	0	172	0	0.2	1	0
	973	2	180	0	0.0	1	0
	974	2	156	0	0.0	1	0
	975	2	115	0	0.0	1	0
	976	2	160	0	0.0	1	0
	977	2	149	0	0.5	1	0
##	978	2	151	0	0.4	2	0
##	979	2	145	0	6.2	3	1
	980	0	146	0	1.8	2	0
	981	0	175	0	0.6	2	0
	982	2	172	0	0.0	1	0
##	983	0	161	1	0.0	1	1

##	984	2	142	1	1.2	2	1
##	985	2	157	0	2.6	2	1
	986	0	158	0	0.8	1	0
	987	2	186	0	0.0	1	0
	988	2	185	0	0.0	1	0
##	989	2	174	0	0.0	1	0
##	990	2	159	0	0.0	1	0
	991	2	130	0	0.0	1	0
	992	0	139	0	2.0	2	1
	993					1	
		0	156	0	0.0		0
	994	0	162	1	0.0	1	1
	995	2	150	0	0.4	2	1
##	996	0	140	1	3.6	2	1
##	997	0	140	0	1.2	2	1
##	998	2	146	1	1.0	2	1
	999	2	144	1	1.2	2	1
	1000	2	190	0	0.0	2	0
	1001	2	136	1	3.0	2	1
	1002	0	97	0	1.2	2	1
	1003	0	132	0	0.0	2	0
##	1004	2	165	0	0.0	1	0
##	1005	0	182	0	1.4	1	0
	1006	2	132	1	1.8	1	1
	1007	2	127	0	2.8	2	1
	1008	2	150	1	0.0	1	1
	1009	2	154	0	4.0	2	1
	1010	0	143	1	1.2	2	0
	1011	0	111	1	5.6	3	1
##	1012	2	174	0	1.4	2	1
##	1013	2	175	0	0.6	2	0
##	1014	2	133	1	4.0	3	1
	1015	0	126	1	2.8	2	1
	1016	0	170	0	0.0	1	0
	1017		163				
		0		0	0.0	1	0
	1018	2	147	0	0.4	2	0
	1019	0	154	1	0.0	1	0
##	1020	2	202	0	0.0	1	0
##	1021	2	186	1	0.0	1	0
##	1022	0	165	0	0.2	2	0
	1023	2	161	0	1.4	2	0
	1024	0	125	1	2.6	3	1
	1025	2	103	0	1.4	2	1
	1026	0	130	1	1.6	2	1
	1027	2	166	0	2.4	2	0
	1028	0	164	1	0.0	1	0
##	1029	2	159	0	0.2	2	1
##	1030	0	184	0	0.0	1	0
	1031	0	131	1	1.8	2	1
	1032	2	154	1	0.6	2	0
	1032	0	152	0	0.0	1	1
ππ	1000	U	172	J	0.0	_	_

##	1034	2	124	0	1.0	2	1
	1035	0	179	0	0.0	1	0
	1036	2	170	0	0.0	1	0
	1037	0	160	0	0.0	1	0
##	1038	0	178	0	1.2	2	0
##	1039	2	122	0	0.6	2	0
	1040	2	160	0	1.6	2	0
	1041	2	145	1	0.8	2	1
	1042	2	96	1	2.2	3	1
	1043	2	109	0	2.4	2	1
	1044	0	173	1	1.6	1	1
##	1045	2	171	0	0.0	1	1
##	1046	2	170	0	1.2	2	1
##	1047	0	151	0	1.0	1	0
	1048	0	156	0	0.0	1	0
	1049	2	162	1	0.0	1	1
	1050	0	158	0	1.6	2	0
	1051	2	122	0	1.0	2	0
##	1052	0	175	0	0.0	1	0
##	1053	0	168	1	0.0	1	0
##	1054	0	169	0	0.0	1	0
##	1055	2	159	1	0.0	1	0
	1056	2	156	1	0.0	1	1
	1057	0	138	0	0.0	2	0
	1058	0	112	1	2.9	2	1
	1059	_	111				
		2		1	0.0	1	0
	1060	0	143	1	0.0	2	1
	1061	2	157	0	1.2	2	0
	1062	2	132	0	2.0	2	1
	1063	0	88	1	1.2	2	1
##	1064	0	147	0	0.1	1	0
##	1065	2	105	1	2.1	2	1
	1066	0	162	0	1.9	1	0
	1067	2	173	0	0.0	1	0
	1068	2	166	0	0.5	2	1
	1069	2	150	1	1.9	2	1
	1070	2	178	0	0.8	1	0
	1071	2	145	0	4.2	3	0
##	1072	2	161	0	0.0	1	1
##	1073	0	179	0	0.0	1	0
##	1074	0	194	0	0.8	3	0
	1075	0	120	1	0.0	2	1
	1076	2	195	0	0.0	1	1
	1077	2	146	0	2.0	2	1
	1078	0	163	0	0.0	1	0
	1079	0	122	1	4.2	2	1
	1080	2	143	1	0.1	2	1
	1081	0	106	0	1.9	2	1
	1082	2	115	0	1.5	2	0
##	1083	2	125	1	0.9	2	1

##	1084	2	131	0	0.1	2	0
##	1085	2	152	1	0.2	2	0
##	1086	0	162	0	1.1	1	0
##	1087	2	125	0	0.0	1	1
##	1088	2	159	0	0.0	1	0
	1089	0	154	1	0.0	1	0
	1090	0	173	0	0.2	1	ø
	1091	0	133	0	0.2	1	0
	1092		161	0	0.0	1	0
	1093	0					
		2	147	1	0.0	2	1
	1094	2	130	1	3.0	2	1
	1095	2	126	1	0.9	2	1
	1096	0	155	0	0.0	1	0
	1097	0	154	1	1.4	2	1
	1098	0	170	0	0.0	1	0
	1099	0	182	1	3.8	2	1
##	1100	2	168	0	2.0	2	0
##	1101	0	165	1	1.0	2	1
##	1102	0	160	0	0.0	1	1
##	1103	2	162	0	1.9	2	0
##	1104	0	172	0	0.0	1	0
##	1105	2	152	1	0.0	2	0
##	1106	0	122	0	2.0	2	0
	1107	2	182	0	0.0	1	0
	1108	2	172	1	0.0	1	0
	1109	2	167	0	0.0	1	0
	1110	0	179	0	0.0	1	0
	1111	0	95	1	2.0	2	1
	1112	0	169	1	1.8	2	1
	1113	0	192	0	0.7	1	0
	1114	0	143	0	0.1	1	0
	1115	0	172	0	0.0	1	0
	1116	2	108	1	0.0	2	1
	1117	2	132	1	0.1	1	1
					0.1		
	1118 1119	2	169	0		2	0
		1	117	1	3.4	2	1
	1120	2	126	0	0.8	1	1
	1121	2	121	1	0.2	1	0
	1122	0	163	0	0.0	1	0
	1123	2	116	1	3.2	2	1
	1124	2	103	1	1.6	3	1
	1125	2	144	0	0.8	1	1
	1126	0	162	0	0.0	2	0
	1127	0	162	0	0.0	1	0
##	1128	0	153	0	0.0	1	0
##	1129	0	163	0	0.0	1	0
##	1130	0	163	0	0.0	1	0
##	1131	0	145	0	2.6	2	1
	1132	0	96	0	0.0	1	0
	1133	0	71	0	1.0	2	1

##	1134	0	156	0	0.1	1	1
	1135	2	118	1	1.0	2	1
	1136	0	168	0	1.0	1	1
##	1137	2	140	0	0.0	1	0
##	1138	0	126	1	1.5	2	0
	1139	0	105	0		2	
					2.0		1
	1140	0	105	1	0.2	2	0
##	1141	2	157	0	0.6	1	0
##	1142	0	181	0	1.2	2	0
	1143	0	173	0	0.0	2	0
	1144	0	142	0	0.3	1	0
##	1145	1	116	0	1.1	2	0
##	1146	2	143	0	0.0	1	0
##	1147	0	141	0	0.3	1	1
	1148	0	149	0	0.3	2	0
	1149	2	152	0	0.0	1	1
##	1150	0	171	0	0.9	1	0
##	1151	0	169	0	0.0	1	0
	1152	2	125	1	3.6	2	1
	1153						
		0	125	1	1.8	2	1
	1154	0	156	1	1.0	2	1
##	1155	0	134	0	2.2	2	1
##	1156	0	181	0	0.0	1	1
	1157	0	150	0	0.0	1	0
	1158	2	138	1	1.9	1	1
	1159	2	138	0	2.3	1	0
##	1160	0	120	1	1.8	2	1
##	1161	0	125	0	1.6	2	0
	1162	0	162	0	0.8	1	1
	1163	2	155	0	0.6	2	0
##	1164	2	152	0	0.0	2	0
##	1165	0	152	0	0.0	2	0
##	1166	2	164	0	0.0	1	1
	1167	0	131	0	0.6	2	0
	1168	0	143	1	3.0	2	1
	1169	0	179	0	0.0	1	0
##	1170	1	130	1	2.0	2	1
##	1171	0	174	0	0.0	1	0
	1172	0	161	0	0.0	1	1
	1173	1	140	0	4.4	3	1
	1174	2	146	1	2.8	2	1
##	1175	0	144	0	0.4	2	0
##	1176	2	163	0	0.0	1	0
	1177	0	169	0	0.0	3	0
	1178	2	150	0	0.8	2	1
	1179	0	166	0	1.2	1	0
##	1180	0	144	1	2.8	3	1
	1181	2	144	1	4.0	1	1
	1182		136	1		2	
		0			0.0		1
##	1183	0	182	0	0.0	1	0

						_		_	
##	1184			2 90)	0	1.0	2	1
##	1185			0 123	}	1	0.2	2	1
##	1186			0 132	•	0	1.2	2	1
	1187			0 141		0	3.4	2	1
	1188					1		2	
				0 115			1.2		1
	1189			2 174		0	0.0	2	1
##	1190			0 173	}	0	0.0	1	0
hea	art_cl	Lean	hear	rt_clean\$cholesterc	ol >= min(he	art_chol	_boxplots	\$out),]	
##		age	Sex	chest.pain.type re	sting hn s	choleste	rol fast	ing hlood	sugar
##	1	40	1	2	140		289		0
		49					180		
	2		0	3	160				0
	3	37	1	2	130		283		0
##		48	0	4	138		214		0
##	5	54	1	3	150		195		0
##	6	39	1	3	120		339		0
##	7	45	0	2	130		237		0
##	8	54	1	2	110		208		0
##		37	1	4	140		207		0
##		48	0	2	120		284		0
##		37	0	3	130		211		0
##		58	1	2	136		164		0
##	13	39	1	2	120		204		0
##	14	49	1	4	140		234		0
##	15	42	0	3	115		211		0
	16	54	0	2	120		273		0
##	17	38	1	4	110		196		0
	18			2			201		
		43	0		120				0
##		60	1	4	100		248		0
##	20	36	1	2	120		267		0
##	21	43	0	1	100		223		0
##	22	44	1	2	120		184		0
##	23	49	0	2	124		201		0
##		44	1	2	150		288		0
##		40	1	3	130		215		0
	26	36	1	3	130		209		0
	27	53	1	4	124		260		0
##		52	1	2	120		284		0
##	29	53	0	2	113		468		0
##	30	51	1	2	125		188		0
##		53	1	3	145		518		0
##		56	1	3	130		167		0
##				4					
		54	1		125		224		0
##		41	1	4	130		172		0
##		43	0	2	150		186		0
##	36	32	1	2	125		254		0
##	37	65	1	4	140		306		1
##		41	0	2	110		250		0
##		48	0	2	120		177		1
ırπ		70	U	2	120		-//		_

## 40		0	4	150	227	0
## 41	L 54	0	2	150	230	0
## 42	54	0	3	130	294	0
## 43	35	1	2	150	264	0
## 44	52	1	3	140	259	0
## 45	43	1	4	120	175	0
## 46		1	3	130	318	0
## 47		1	4	120	223	0
## 48		1	2	140	216	0
## 49		1	3	112	340	0
## 50		1	4	110	289	0
## 50						
		1	4	130	233	0
## 52		0	4	120	205	0
## 53		1	2	140	224	1
## 54		0	2	130	245	0
## 55		0	4	130	180	0
## 56		0	2	160	194	0
## 57		1	4	120	270	0
## 58	58	1	3	130	213	0
## 59	54	1	4	150	365	0
## 60	52	1	4	112	342	0
## 61	49	1	2	100	253	0
## 62	43	0	3	150	254	0
## 63	3 45	1	4	140	224	0
## 64		1	4	120	277	0
## 65	5 50	0	2	110	202	0
## 66		0	2	120	260	0
## 67		0	4	132	297	0
## 68		1	2	110	225	0
## 69		1	4	160	246	0
## 70		1	4	150	412	0
## 71		1	2	140	265	0
## 72		1	2	130	215	0
## 73		1	4	120	182	0
## 74		0	4	120	218	0
## 75		1	4	140	268	0
					163	
## 76		1	3	150		0
## 77		1	4	118	529	0
## 78		0	4	140	167	0
## 79		1	2	140	100	0
## 80		1	4	130	206	0
## 81		1	3	110	277	0
## 82		1	2	120	238	0
## 83		1	4	150	223	0
## 84		1	2	160	196	0
## 85		1	4	150	213	1
## 86		1	4	140	139	0
## 87		1	4	170	263	1
## 88		0	2	140	216	0
## 89	43	1	1	120	291	0

## 90	55	1	4	140	229	0
## 91	49	0	2	110	208	0
## 92	39	1	4	130	307	0
## 93	52	0	2	120	210	0
## 94	48	1	4	160	329	0
## 95	39	0	3	110	182	0
## 96	58	1	4	130	263	0
## 97	43	1	2	142	207	0
## 98	39	1	3	160	147	1
## 99	56	1	4	120	85	0
## 100	41	1	2	125	269	0
## 101	65	1	4	130	275	0
## 102	51	1	4	130	179	0
## 103	40	0	4	150	392	0
## 104	40	1	4	120	466	1
## 105	46	1	4	118	186	0
## 105	57	1	2	140	260	1
## 107	48	0	4	120	254	0
## 108	34	1	2	150	214	0
## 109	50	1	4	140	129	0
## 110	39	1	2	190	241	0
## 111	59	0	2	130	188	0
## 112	57	1	4	150	255	0
## 113	47	1	4	140	276	1
## 114	38	1	2	140	297	0
## 115	49	0	3	130	207	0
## 116	33	0	4	100	246	0
## 117	38	1	4	120	282	0
## 118	59	0	4	130	338	1
## 119	35	0	1	120	160	0
## 120	34	1	1	140	156	0
## 121	47	0	3	135	248	1
## 122	52	0	3	125	272	0
## 123	46	1	4	110	240	0
## 124	58	0	2	180	393	ø
## 125	58	1	2	130	230	0
## 126	54	1	2	120	246	0
## 120	34	0	2	130	161	0
## 127 ## 128	48	0	4	108	163	0
## 129	54	0	2	120	230	1
## 130	42	1	3	120	228	0
## 131	38	1	3	145	292	0
## 132	46	1	4	110	202	0
## 133	56	1	4	170	388	0
## 134	56	1	4	150	230	0
## 135	61	0	4	130	294	0
## 136	49	1	3	115	265	0
## 137	43	0	2	120	215	0
## 138	39	1	2	120	241	0
## 139	54	1	4	140	166	0

## 140	43	1	4	150	247	0
## 141	52	1	4	160	331	0
## 142	50	1	4	140	341	0
## 143	47	1	4	160	291	0
## 144	53	1	4	140	243	0
## 145	56	0	2	120	279	0
## 146	39	1	4	110	273	0
## 147	42	1	2	120	198	0
## 148	43	0	2	120	249	0
## 149	50	1	2	120	168	0
## 150	54	1	4	130	603	1
## 151	39	1	2	130	215	9
## 152	48	1	2	100	159	0
## 153	40	1	2	130	275	ő
## 154	55	1	4	120	270	ø
## 155	41	1	2	120	291	0
## 156	56	1	4	155	342	1
## 157	38	1	4	110	190	0
## 157 ## 158	36 49			140		
		1	4		185	0
## 159	44	1	4	130	290	0
## 160	54	1	2	160	195	0
## 161	59	1	4	140	264	1
## 162	49	1	4	128	212	0
## 163	47	1	2	160	263	0
## 164	49	0	2	110	208	0
## 165	42	1	2	120	196	0
## 166	52	0	2	140	225	0
## 167	46	1	1	140	272	1
## 168	50	1	4	140	231	0
## 169	48	1	2	140	238	0
## 170	58	1	4	135	222	0
## 171	58	1	3	140	179	0
## 172	29	1	2	120	243	0
## 173	40	1	3	140	235	0
## 174	53	1	2	140	320	0
## 175	49	1	3	140	187	0
## 176	52	1	4	140	266	0
## 177	43	1	4	140	288	0
## 178	54	1	4	140	216	0
## 179	59	1	2	140	287	0
## 180	37	1	3	130	194	0
## 181	46	0	4	130	238	0
## 182	52	1	4	130	225	0
## 183	51	1	2	130	224	0
## 184	52	1	4	140	404	0
## 184	46	1	4	110	238	0
## 186	54	0	2	160	312	0
## 187	58			160	211	
		1	3			1
## 188	58	1	2	130	251 227	0
## 189	41	1	4	120	237	1

## 190	50	0	4	120	328	0
## 191	53	1	4	180	285	0
## 192	46	1	4	180	280	0
## 193	50	1	2	170	209	0
## 194	48	1	2	130	245	0
## 195	45	1	3	135	192	0
## 196	41	0	2	125	184	0
## 197	62	0	1	160	193	0
## 198	49	1	4	120	297	0
## 199	42	1	2	150	268	0
## 200	53	1	4	120	246	0
## 200	57			130	308	
## 201		0	1			0
	47	1	1	110	249	0
## 203	46	1	3	120	230	0
## 204	42	1	3	160	147	0
## 205	31	0	2	100	219	0
## 206	56	1	2	130	184	0
## 207	50	1	4	150	215	0
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## 216	47	1	4	150	226	0
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						0
## 232	37	1	4	130	315	0
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## 243 54 1 4 200 198 0 ## 244 55 1 2 160 292 1 1 ## 246 48 1 4 160 268 0 ## 247 54 1 1 1 120 171 0 ## 248 54 1 4 120 237 0 ## 249 48 1 4 122 275 1 ## 251 49 1 4 130 311 0 ## 251 49 1 4 130 341 0 ## 252 44 1 4 135 491 0 ## 255 62 1 4 1 125 292 0 ## 256 55 1 4 1 12 2 140 271 0 ## 257 53 0 3 120 274 0 ## 259 36 1 3 150 160 0 ## 259 36 1 3 150 200 0 ## 264 46 1 4 12 2 130 0 ## 265 59 1 4 1 1 3 150 160 0 ## 264 46 1 4 120 275 0 ## 265 59 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
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## 245	## 243	54	1	4	200	198	0
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## 247 54 1 1 1 120 171 0 ## 248 54 1 3 120 237 0 ## 249 48 1 4 120 275 1 ## 250 45 1 4 130 341 0 ## 251 49 1 4 130 341 0 ## 253 48 1 4 120 260 0 ## 254 61 1 4 125 292 0 ## 255 62 1 2 140 271 0 ## 256 55 1 4 14 145 248 0 ## 257 53 0 3 120 274 0 ## 259 36 1 3 150 160 0 ## 259 36 1 3 150 160 0 ## 260 51 0 3 150 200 0 ## 261 55 0 2 122 320 0 ## 262 46 1 2 140 275 0 ## 262 46 1 4 120 231 0 ## 263 54 0 2 120 231 0 ## 265 59 1 4 130 126 0 ## 266 57 1 3 140 275 0 ## 266 57 1 4 130 126 0 ## 267 54 1 2 140 275 0 ## 268 52 1 4 130 126 0 ## 268 52 1 4 130 126 0 ## 269 34 1 2 98 220 0 ## 269 34 1 2 98 220 0 ## 277 59 1 3 130 242 0 ## 277 59 1 3 180 213 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 278 51 0 3 130 220 0 ## 288 57 0 4 1 140 358 0 ## 288 57 0 4 14 140 358 0 ## 288 57 0 4 14 140 358 0 ## 288 59 1 4 140 190 190 0 ## 288 59 1 4 140 190 190 0 ## 288 59 1 4 140 190 190 0 ## 288 59 1 4 140 190 190 0 ## 288 59 1 4 140 190 0 ## 288 59 1 4 140 190 190 0 ## 288 59 1 4 140 190 190 0 ## 288 59 1 4 140 190 190 0 ## 288 59 1 4 140 190 190 0 ## 288 59 1 4 140 190 190 0 ## 288 59 1 4 140 190 190 0 ## 288 59 1 4 140 190 190 0 ## 288 59 1 4 140 190 190 0 ## 288 59 1	## 245	43	0	2	120	266	0
## 247 54 1 1 120 171 0 1 ## 248 54 1 3 120 237 0 1 ## 249 48 1 4 120 275 1 1 ## 250 45 1 4 130 341 0 1 ## 251 49 1 4 130 341 0 1 ## 252 44 1 4 130 341 0 1 ## 253 48 1 4 120 260 0 0 1 ## 254 61 1 4 125 292 0 1 ## 256 62 1 2 2 140 271 0 1 ## 257 53 0 3 120 274 0 0 1 ## 259 36 1 3 150 160 0 0 1 ## 259 36 1 3 150 160 0 0 1 ## 259 36 1 3 150 200 0 0 1 ## 260 51 0 3 150 200 0 0 1 ## 261 55 0 2 122 320 0 0 1 ## 262 46 1 4 1 2 120 231 0 0 1 ## 263 54 0 2 120 231 0 0 1 ## 264 46 1 4 120 275 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	## 246	48	1	4	160	268	0
## 248 54 1 3 120 237 0 ## 249 48 1 4 122 275 1 ## 250 45 1 4 4 130 341 0 ## 251 49 1 4 135 491 0 ## 252 44 1 4 135 491 0 ## 255 62 1 2 140 271 0 ## 257 53 0 3 120 274 0 ## 258 55 0 2 130 394 0 ## 258 55 0 2 130 394 0 ## 260 51 0 3 150 200 0 ## 261 55 0 2 122 320 0 ## 263 54 0 2 122 320 0 ## 263 54 0 2 122 320 0 ## 263 54 0 2 120 221 0 ## 264 46 1 4 120 231 0 ## 266 47 1 3 140 193 0 ## 267 54 1 2 160 305 0 ## 268 52 1 4 130 222 0 ## 277 59 1 3 130 242 0 ## 277 59 1 4 130 242 0 ## 277 59 1 4 130 242 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 278 55 0 2 1 10 344 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 190 295 0 ## 279 52 1 4 190 295 0 ## 277 59 1 3 180 213 0 ## 278 55 1 3 10 3 130 225 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 280 57 0 4 180 3 130 220 0 ## 281 55 0 0 2 110 344 0 ## 282 60 1 3 110 390 0 ## 282 55 0 0 2 110 344 0 ## 288 55 0 0 2 110 344 0 ## 288 55 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	## 247	54	1	1	120	171	
## 249	## 248	54	1				
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## 254 61 1 4 125 292 0 ## 255 62 1 2 140 271 0 ## 256 55 1 4 145 248 0 ## 257 53 0 3 120 274 0 ## 258 55 0 2 130 394 0 ## 259 36 1 3 150 160 0 ## 260 51 0 3 150 200 0 ## 261 55 0 2 122 320 0 ## 262 46 1 2 140 275 0 ## 263 54 0 2 120 221 0 ## 264 46 1 4 120 231 0 ## 265 59 1 4 130 126 0 ## 266 47 1 3 140 193 0 ## 267 54 1 2 160 305 0 ## 269 34 1 2 98 220 0 ## 270 54 1 4 130 242 0 ## 271 47 0 3 130 242 0 ## 273 32 0 2 105 198 0 ## 274 55 1 3 120 225 0 ## 277 59 1 3 180 213 0 ## 278 51 1 3 180 213 0 ## 278 51 1 3 180 213 0 ## 278 51 1 3 180 213 0 ## 278 51 1 3 180 213 0 ## 278 51 1 3 180 213 0 ## 278 51 1 3 180 213 0 ## 278 51 1 3 180 213 0 ## 278 51 1 3 180 213 0 ## 278 51 1 4 170 223 0 ## 278 51 1 3 180 213 0 ## 278 51 1 3 180 213 0 ## 278 51 1 3 180 213 0 ## 278 51 1 3 180 213 0 ## 278 51 1 4 170 223 0 ## 278 51 1 3 180 213 0 ## 278 51 1 3 180 213 0 ## 278 51 1 4 170 223 0 ## 278 51 1 3 180 253 0 ## 278 51 1 3 180 253 0 ## 278 51 1 3 180 253 0 ## 278 51 1 3 180 253 0 ## 278 51 1 4 170 223 0 ## 278 51 1 3 180 213 0 ## 278 51 1 3 180 253 0 ## 281 54 0 2 180 295 0 ## 282 60 1 3 120 246 0 ## 283 49 1 4 150 222 0 ## 284 51 0 3 130 220 0 ## 285 55 0 2 110 344 0 ## 286 42 1 4 140 358 0 ## 288 59 1							
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## 257 53 0 3 120 274 0 ## 258 55 0 2 130 394 0 8 ## 259 36 1 3 150 160 0 8 ## 261 55 0 2 122 320 0 8 ## 262 46 1 2 140 275 0 8 ## 263 54 0 2 122 320 221 0 8 ## 264 46 1 4 120 231 0 8 ## 267 59 1 4 130 126 0 305 0 8 ## 268 52 1 4 130 298 0 8 ## 270 54 1 4 130 242 0 8 ## 271 47 0 3 130 242 0 8 ## 272 45 1 4 120 225 0 8 ## 272 45 1 4 120 225 0 8 ## 273 32 0 2 105 198 0 8 ## 277 55 1 3 180 295 0 8 ## 277 59 1 3 180 295 0 8 ## 277 59 1 3 180 295 0 8 ## 279 52 1 4 170 223 0 8 ## 288 55 0 2 110 344 0 9 8 ## 288 55 0 0 8 ## 288 59 1							
## 258 55 0 2 130 394 0 ## 259 36 1 3 150 160 0 0 ## 260 51 0 3 150 200 0 0 ## 261 55 0 2 122 320 0 0 ## 263 54 0 2 122 120 221 0 0 ## 264 46 1 4 120 231 0 0 ## 266 47 1 3 140 193 0 0 ## 267 54 1 2 160 305 0 0 ## 267 54 1 2 160 305 0 0 ## 268 52 1 4 130 298 0 0 ## 277 54 1 2 98 220 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
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## 260 51 0 3 150 200 0 ## 261 55 0 2 122 320 0 ## 262 46 1 2 140 275 0 ## 263 54 0 2 120 221 0 0 ## 264 46 1 4 120 231 0 0 ## 265 59 1 4 130 126 0 ## 266 47 1 3 140 193 0 0 ## 267 54 1 2 160 305 0 0 ## 268 52 1 4 130 298 0 0 ## 269 34 1 2 98 220 0 0 ## 270 54 1 4 130 242 0 0 ## 271 47 0 3 130 235 0 0 ## 273 32 0 2 105 198 0 0 ## 273 32 0 2 105 198 0 0 ## 274 55 1 4 140 201 0 0 ## 275 55 1 3 120 220 0 0 ## 276 45 0 2 180 295 0 0 ## 277 59 1 3 180 213 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
## 261 55 0 2 122 320 0 ## 262 46 1 2 140 275 0 ## 263 54 0 2 120 221 0 ## 264 46 1 4 120 231 0 ## 265 59 1 4 130 126 0 ## 266 47 1 3 140 193 0 ## 267 54 1 2 160 305 0 ## 268 52 1 4 130 298 0 ## 269 34 1 2 98 220 0 ## 270 54 1 4 130 242 0 ## 271 47 0 3 130 242 0 ## 272 45 1 4 120 225 0 ## 273 32 0 2 105 198 0 ## 274 55 1 4 140 201 0 ## 275 55 1 3 120 220 0 ## 276 45 0 2 180 295 0 ## 277 59 1 3 180 213 0 ## 278 51 1 3 130 235 0 ## 279 52 1 4 170 23 0 ## 279 52 1 4 190 200 0 ## 279 52 1 4 190 200 0 ## 279 52 1 4 190 200 0 ## 279 52 1 4 190 200 0 ## 279 52 1 4 190 200 0 ## 288 59 1 4 190 3 130 220 0 ## 288 59 1 0 0 0 0 ## 288 59 1 0 0 0 0 ## 288 59 1 0 0 0 0 0 ## 288 59 0 0 0 0 0 0 0 0 ## 288 59 0 0 0 0 0 0 0 0 0 ## 288 59 0 0 0 0 0 0 0 0 0 0 ## 288 59 0 0 0 0 0 0 0 0 0 ## 288 59 0 0 0 0 0 0 0 0 0 0 ## 288 59 0 0 0 0 0 0 0 0 0 0 ## 288 59 0 0 0 0 0 0 0 0 0 0 0 0 ## 288 59 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
## 262							
## 263 54 0 2 120 221 0 ## 264 46 1 4 120 231 0 ## 265 59 1 4 130 126 0 ## 266 47 1 3 140 193 0 ## 268 52 1 4 130 298 0 ## 269 34 1 2 98 220 0 ## 270 54 1 4 130 242 0 ## 271 47 0 3 130 235 0 ## 272 45 1 4 120 225 0 ## 273 32 0 2 105 198 0 ## 274 55 1 3 120 220 0 ## 275 55 1 3 120 220 0 ## 276 45 0 2 180 295 0 ## 277 59 1 3 180 213 0 ## 278 51 1 3 135 160 0 ## 279 52 1 4 170 223 0 ## 279 52 1 4 180 347 0 ## 288 59 1 4 140 358 0 ## 288 59 1							
## 264 46 1 4 120 231 0 ## 265 59 1 4 130 126 0 ## 266 47 1 3 140 193 0 ## 267 54 1 2 160 305 0 ## 268 52 1 4 130 298 0 ## 269 34 1 2 98 220 0 ## 271 47 0 3 130 235 0 ## 272 45 1 4 120 225 0 ## 273 32 0 2 105 198 0 ## 274 55 1 3 120 220 0 ## 275 55 1 3 180 291 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 277 59 1 3 180 295 0 ## 278 51 1 4 170 223 0 ## 279 52 1 4 170 223 0 ## 288 59 1 4 140 358 0 ## 288 59 1							
## 265 59 1 4 130 126 0 ## 266 47 1 3 140 193 0 ## 267 54 1 2 160 305 0 ## 268 52 1 4 130 298 0 ## 270 54 1 4 130 242 0 ## 271 47 0 3 130 235 0 ## 272 45 1 4 120 225 0 ## 273 32 0 2 105 198 0 ## 274 55 1 4 140 201 0 ## 275 55 1 3 120 220 0 ## 276 45 0 2 180 295 0 ## 277 59 1 3 180 213 0 ## 277 59 1 3 180 213 0 ## 278 51 1 3 135 160 0 ## 279 52 1 4 170 223 0 ## 288 57 0 4 180 347 0 ## 281 54 0 2 130 253 0 ## 282 60 1 3 120 246 0 ## 283 49 1 4 150 222 0 ## 284 51 0 3 130 253 0 ## 286 42 1 4 140 358 0 ## 287 51 0 3 110 190 0 ## 288 59 1							
## 266							
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## 274 55 1 4 140 201 0 ## 275 55 1 3 120 220 0 ## 276 45 0 2 180 295 0 ## 277 59 1 3 180 213 0 ## 278 51 1 3 135 160 0 ## 279 52 1 4 170 223 0 ## 280 57 0 4 180 347 0 ## 281 54 0 2 130 253 0 ## 282 60 1 3 120 246 0 ## 283 49 1 4 150 222 0 ## 284 51 0 3 130 220 0 ## 285 55 0 2 110 344 0 ## 286 42 1 4 140 358 0 ## 287 51 0 3 110 190 0 ## 288 59 1	## 273	32	0	2	105	198	0
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## 276							
## 277 59 1 3 180 213 0 ## 278 51 1 3 135 160 0 ## 279 52 1 4 170 223 0 ## 280 57 0 4 180 347 0 ## 281 54 0 2 130 253 0 ## 282 60 1 3 120 246 0 ## 283 49 1 4 150 222 0 ## 284 51 0 3 130 220 0 ## 285 55 0 2 110 344 0 ## 286 42 1 4 140 358 0 ## 287 51 0 3 110 190 0 ## 288 59 1							
## 278 51 1 3 135 160 0 ## 279 52 1 4 170 223 0 ## 280 57 0 4 180 347 0 ## 281 54 0 2 130 253 0 ## 282 60 1 3 120 246 0 ## 283 49 1 4 150 222 0 ## 284 51 0 3 130 220 0 ## 285 55 0 2 110 344 0 ## 286 42 1 4 140 358 0 ## 287 51 0 3 110 190 0 ## 288 59 1							
## 279 52 1 4 170 223 0 ## 280 57 0 4 180 347 0 ## 281 54 0 2 130 253 0 ## 282 60 1 3 120 246 0 ## 283 49 1 4 150 222 0 ## 284 51 0 3 130 220 0 ## 285 55 0 2 110 344 0 ## 286 42 1 4 140 358 0 ## 287 51 0 3 110 190 0 ## 288 59 1							
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## 281 54 0 2 130 253 0 ## 282 60 1 3 120 246 0 ## 283 49 1 4 150 222 0 ## 284 51 0 3 130 220 0 ## 285 55 0 2 110 344 0 ## 286 42 1 4 140 358 0 ## 287 51 0 3 110 190 0 ## 288 59 1 4 140 169 0							
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## 284 51 0 3 130 220 0 ## 285 55 0 2 110 344 0 ## 286 42 1 4 140 358 0 ## 287 51 0 3 110 190 0 ## 288 59 1 4 140 169 0							
## 285 55 0 2 110 344 0 ## 286 42 1 4 140 358 0 ## 287 51 0 3 110 190 0 ## 288 59 1 4 140 169 0							
## 286 42 1 4 140 358 0 ## 287 51 0 3 110 190 0 ## 288 59 1 4 140 169 0							
## 287 51 0 3 110 190 0 ## 288 59 1 4 140 169 0							
## 288 59 1 4 140 169 0							
## 289 53 1 2 120 181 0							
	## 289	53	1	2	120	181	0

			_	_			
##		48	0	2	133	308	0
	291	36	1	2	120	166	0
##		48	1	3	110	211	0
##		47	0	2	140	257	0
	294	53	1	4	130	182	0
##		63	1	4	140	260	0
##	419	44	1	4	130	209	0
##	420	60	1	4	132	218	0
##	421	55	1	4	142	228	0
##	422	66	1	3	110	213	1
##	424	65	1	4	150	236	1
##	427	60	1	2	160	267	1
##	428	56	1	2	126	166	0
##	433	62	1	4	120	220	0
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##	435	46	1	4	110	236	0
##	445	60	1	4	130	186	1
##	446	56	1	4	120	100	0
##	447	55	1	3	136	228	0
##	449	77	1	4	124	171	0
##	450	63	1	4	160	230	1
##	454	60	1	4	140	281	0
##	456	58	1	4	136	203	1
##		57	1	4	139	277	1
##		59	1	4	122	233	0
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##		57	1	4	140	214	0
##		65	1	1	140	252	0
##		54	1	4	136	220	0
##		72	1	3	120	214	0
##		75	1	4	170	203	1
##		51	1	3	137	339	0
##		60	1	4	142	216	0
	497	64	0	4	142	276	0
	498	58	1	4	132	458	1
##		61	1	4	146	241	0
	500	67	1	4	160	384	1
##		62	1	4	135	297	0
	502	65	1	4	136	248	0
##		63	1	4	130	308	0
	504	69	1	4	140	208	0
##		51	1	4	132	227	1
11 11	505	<i>J</i> ±	-	•	132		_

## 506	62	1	4	158	210	1
## 507	55	1	3	136	245	1
## 508	75	1	4	136	225	0
## 509	40	1	3	106	240	0
## 511	58	1	4	110	198	0
## 512	60	1	4	136	195	0
## 513	63	1	4	160	267	1
## 514	35	1	3	123	161	0
## 515	62	1	1	112	258	0
## 518	68	1	3	150	195	1
## 519	65	1	4	150	235	0
	63	1	4	96 130	305	0
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## 523	61	1	4	120	282	0
## 524	50	1	4	144	349	0
## 525	59	1	4	124	160	0
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## 527	45	1	3	130	236	0
## 528	65	1	4	144	312	0
## 529	61	1	2	139	283	0
## 530	49	1	3	131	142	0
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## 534	55	1	4	116	186	1
## 535	63	1	4	110	252	0
## 536	59	1	4	125	222	0
## 539	74	1	4	150	258	1
## 540	54	1	4	130	202	1
## 541	57	1	4	110	197	0
## 542	62	1	3	138	204	0
## 543	76	1	3	104	113	0
## 544	54	0	4	138	274	0
## 545	70	1	4	170	192	0
## 546	61	0	2	140	298	1
## 547	48	1	4	132	272	0
## 548				132	220	
	48	1	3			1
## 549	61	1	1	142	200	1
## 550	66	1	4	112	261	0
## 551	68	1	1	139	181	1
## 552	55	1	4	172	260	0
## 553	62	1	3	120	220	0
## 554	71	1	3	144	221	0
## 555	74	1	1	145	216	1
## 556	53	1	3	155	175	1
## 557	58	1	3	150	219	0
## 558	75	1	4	160	310	1
## 559	56	1	3	137	208	1
## 560	58	1	3	137	232	0
## 561	64	1	4	134	273	0

## 562	54	1	3	133	203	0
## 563	54	1	2	132	182	0
## 564	59	1	4	140	274	0
## 565	55	1	4	135	204	1
## 566	57	1	4	144	270	1
## 567	61	1	4	141	292	0
## 568	41	1	4	150	171	0
## 569	71	1	4	130	221	0
## 570	38	1	4	110	289	0
## 571	55	1	4	158	217	0
## 572	56	1	4	128	223	0
## 573	69	1	4	140	110	1
## 574	64	1	4	150	193	0
## 575	72	1	4	160	123	1
## 576	69	1	4	142	210	1
## 577	56	1	4	137	282	1
## 578	62	1	4	139	170	0
## 579	67	1	4	146	369	0
## 580	57	1	4	156	173	0
## 581	69	1	4	145	289	1
## 582	51	1	4	131	152	1
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## 585	69	1	3	142	271	0
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## 596	58	1	4	160	256	1
## 597	60	1	4	130	186	1
## 598	57	1	4	122	264	0
## 599	55	1	3	133	185	0
## 600	55	1	4	120	226	0
## 601	56	1	4	130	203	1
## 602	57	1	4	130	207	0
## 603	61	1	3	140	284	0
## 604	61	1	3	120	337	0
## 605	58	1	3	150	219	0
## 606	74	1	4	155	310	0
## 607	68	1	3	134	254	1
## 608	51	0	4	114	258	1
## 609	62	1	4	160	254	1
## 610	53	1	4	144	300	1
## 611	62	1	4	158	170	0

## 612	46	1	4	134	310	0
## 613	54	0	4	127	333	1
## 614	62	1	1	135	139	0
## 615	55	1	4	122	223	1
## 616	58	1	4	140	385	1
## 617	62	1	2	120	254	0
## 618	70	1	4	130	322	0
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## 635	53	1	4	140	203	1
## 636	64	1	1	110	211	0
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		1	1	140		0
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## 657	48	1	4	122	222	0
## 658	40	1	4	152	223	0
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## 660	44	1	3	130	233	0
## 661	46	1	2	101	197	1

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## 670	65	0	3	140	417	1
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## 672	45	0	2	130	234	0
## 673	41	0	2	105	198	0
## 674	61	1	4	138	166	0
## 675	60	0	3	120	178	1
## 676	59	0	4	174	249	0
## 677	62	1	2	120	281	0
## 678	57	1	3	150	126	1
## 679	51	0	4	130	305	0
## 680	44	1	3	120	226	ő
## 681	60	0	1	150	240	ø
## 682	63	1	1	145	233	1
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	51	1	4	140	261	0
## 685	58	0	2	136	319	1
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## 687	47	1	3	108	243	0
## 688	61	1	4	120	260	0
## 689	57	0	4	120	354	0
## 690	70	1	2	156	245	0
## 691	76	0	3	140	197	0
## 692	67	0	4	106	223	0
## 693	45	1	4	142	309	0
## 694	45	1	4	104	208	0
## 695	39	0	3	94	199	0
## 696	42	0	3	120	209	0
## 697	56	1	2	120	236	0
## 698	58	1	4	146	218	0
## 699	35	1	4	120	198	0
## 700	58	1	4	150	270	0
## 701	41	1	3	130	214	0
## 702	57	1	4	110	201	0
## 703	42	1	1	148	244	0
## 704	62	1	2	128	208	1
## 705	59	1	1	178	270	0
## 706	41	0	2	126	306	0
## 707	50	1	4	150	243	0
## 708	59	1	2	140	221	0
## 709	61	0	4	130	330	0
## 710	54	1	4	124	266	ø
## 711	54	1	4	110	206	0
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## 712	52	1	4	125	212	0
## 713	47	1	4	110	275	0
## 714	66	1	4	120	302	0
## 715	58	1	4	100	234	0
## 716	64	0	3	140	313	0
## 717	50	0	2	120	244	0
## 718		0	3	108		0
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## 720		0	4	130		0
## 721		1	4	165		1
## 722		1	4	130		0
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## 725		0	4	150		0
## 726		1	4	140		0
## 727		0	2	112		0
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## 729		1	2	110		o o
## 730		0	4	158		0
## 730		0	3	135		1
## 731		1	2	120		0
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## 736		0	1	150		0
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## 739		1	4	122		0
## 740		1	4	152		0
## 741		0	3	160		0
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## 788	69	1	1	160	234	1
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## 790	67	1	4	100	299	0
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## 807	70	1	3	160	269	0
## 808	54	1	4	140	239	0
## 809	70	1	4	145	174	0
## 810	54	1	2	108	309	0
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	_					

## 812	48	1	3	124	255	1
## 813	55	0	2	135	250	0
## 814	58	0	4	100	248	0
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## 816	69	0	1	140	239	0
## 817	77	1	4	125	304	0
## 818	68	1	3	118	277	0
## 819	58	1	4	125	300	0
## 820	60	1	4	125	258	0
## 821	51	1	4	140	299	0
## 822	55	1	4	160	289	0
## 823	52	1	1	152	298	1
## 824	60	0	3	102	318	0
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## 859	39	1	3	140	321	0
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## 862	51	0	3	140	308	0
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## 873	71	0	2	160	302	0
## 874	61	1	3	150	243	1
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## 876	64	1	3	140	335	0
## 877	43	1	4	150	247	0
## 878	58	0	3	120	340	0
## 879	60	1	4	130	206	0
## 880	58	1	2	120	284	0
## 881	49	1	2	130	266	0
## 882	48	1	2	110	229	0
## 883	52	1	3	172	199	1
## 884	44	1	2	120	263	0
## 885	56	0	2	140	294	0
## 886	57	1	4	140	192	0
## 887	67	1	4	160	286	0
## 888	63	1	1	145	233	
## 889	67					1
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## 890	67 27	1	4	120	229	0
## 891	37	1	3	130	250	0
## 892	41	0	2	130	204	0
## 893	56	1	2	120	236	0
## 894	62	0	4	140	268	0
## 895	57	0	4	120	354	0
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## 897	53	1	4	140	203	1
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## 903	57	1	3	150	168	0
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## 905	54	1	4	140	239	0
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## 907	49	1	2	130	266	0
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## 910	58	1	2	120	284	0
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## 913	50	0	3	120	219	0
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## 915	66	0	1	150	226	0
## 916	43	1	4	150	247	0
## 917	40	1	4	110	167	0
## 918	69	0	1	140	239	0
## 919	60	1	4	117	230	1
## 920	64	1	3	140	335	0
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## 923	42	1	4	140	226	0
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## 932	61	0	4	130	330	0
## 933	58	1	3	112	230	0
## 934	51	1	3	110	175	0
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## 945	41	1	4	110	172	0
## 946	54	1	3	125	273	0
## 947	51	1	1	125	213	0
## 948	51	0	4	130	305	0
## 949	46	0	3	142	177	0
## 950	58	1	4	128	216	0
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## 951	54	1	4	120	188	0
## 953	60	1	4	145	282	0
## 954	60			140	185	
## 954 ## 955	54	1 1	3 3	150	232	0 0
## 955 ## 956	54 59		4	170		
## 956 ## 957	59 46	1		150	326	0
## 957 ## 958	46 65	1	3		231269	0
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## 959	67 62	1		125	254 267	1
		1	4			0 0
## 961	65	1	4	110	248	Ø

## 962 44 1 4 110 197 0 0 ## 964 60 1 4 125 258 0 0 ## 965 51 0 3 140 308 0 0 ## 965 51 0 3 140 308 0 0 ## 967 58 1 4 150 270 0 0 0 ## 969 53 0 4 130 264 0 0 ## 970 39 1 3 140 321 0 0 ## 971 68 1 3 140 321 0 0 ## 972 52 1 2 120 325 0 0 ## 972 52 1 3 140 235 0 0 ## 975 53 0 3 140 235 0 0 ## 975 53 0 3 128 216 0 0 ## 977 51 0 3 138 257 0 0 ## 978 60 1 4 120 302 0 0 ## 978 60 1 4 120 302 0 0 ## 978 62 1 3 130 256 0 0 ## 978 62 1 3 130 256 0 0 ## 978 62 1 4 120 302 0 0 ## 988 62 1 3 130 231 0 0 ## 988 62 1 3 130 231 0 0 ## 988 62 1 3 130 231 0 0 ## 988 62 1 3 130 231 0 0 ## 988 62 1 3 130 231 0 0 ## 988 62 1 1 3 130 231 0 0 ## 988 62 1 1 3 130 231 0 0 ## 988 62 1 1 3 130 231 0 0 ## 988 62 1 1 3 130 231 0 0 ## 988 62 1 1 3 130 231 0 0 ## 988 62 1 1 3 130 231 0 0 ## 988 62 1 1 3 130 231 0 0 ## 989 62 1 1 3 130 231 0 0 ## 981 62 0 4 1 120 302 0 0 ## 983 52 1 4 128 255 0 0 ## 984 69 1 1 4 120 302 0 0 ## 985 60 0 4 1 120 300 2 0 0 ## 988 65 1 1 4 110 239 0 0 ## 989 65 1 2 1 13 130 231 0 0 ## 989 65 1 2 1 13 130 231 0 0 ## 989 67 0 1 1 1 118 182 0 0 ## 990 57 0 1 1 1 118 182 0 0 ## 990 57 0 1 1 1 118 182 0 0 ## 990 57 0 1 1 1 118 182 0 0 ## 990 57 0 1 1 1 118 182 0 0 ## 990 57 0 1 1 1 118 182 0 0 ## 990 57 1 1 1 1 118 182 0 0 ## 990 57 1 1 1 1 118 182 0 0 ## 990 57 1 1 1 1 118 182 0 0 ## 990 57 1 1 1 1 118 182 0 0 ## 990 57 1 1 1 1 118 182 0 0 ## 990 57 1 1 1 1 118 186 0 0 ## 990 57 1 1 1 1 118 186 0 0 ## 990 57 1 1 1 1 118 186 0 0 ## 990 57 1 1 1 1 118 186 0 0 ## 990 57 1 1 1 1 118 186 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
## 964 60 1 4 125 258 0 ## 965 51 0 3 140 308 0 ## 967 58 1 4 150 270 0 ## 968 45 1 4 160 220 245 0 ## 969 53 0 4 130 264 0 ## 969 53 0 4 130 264 0 ## 970 39 1 3 140 321 0 ## 971 68 1 3 180 274 1 ## 972 52 1 2 120 325 0 ## 973 44 1 3 140 235 0 ## 974 7 1 3 138 257 0 ## 975 53 0 4 138 257 0 ## 975 53 0 4 138 257 0 ## 975 53 0 4 138 257 0 ## 977 51 0 3 138 254 0 ## 978 66 1 4 120 302 0 ## 978 62 1 3 130 256 0 ## 978 62 1 3 130 256 0 ## 978 62 1 3 130 256 0 ## 978 62 1 3 130 231 0 ## 978 65 1 4 120 302 0 ## 978 62 1 3 130 231 0 ## 988 62 1 3 130 231 0 ## 988 62 1 3 130 231 0 ## 988 62 1 3 130 231 0 ## 988 62 1 4 160 164 0 ## 988 62 1 3 130 231 0 ## 988 62 1 4 128 255 0 ## 988 52 1 4 128 255 0 ## 988 52 1 4 128 255 0 ## 988 62 1 4 128 255 0 ## 988 62 1 4 128 255 0 ## 988 62 1 4 128 255 0 ## 988 62 1 4 128 255 0 ## 988 62 1 4 128 255 0 ## 988 62 1 4 128 255 0 ## 988 62 1 4 128 255 0 ## 988 62 1 4 128 255 0 ## 988 62 1 4 128 255 0 ## 988 62 1 4 128 255 0 ## 988 62 1 4 128 255 0 ## 988 62 1 4 128 255 0 ## 988 62 1 4 128 255 0 ## 988 62 1 4 128 255 0 ## 988 62 1 1 1 1 118 182 0 0 ## 989 77 0 4 118 28 299 0 ## 989 77 0 4 128 201 0 ## 989 77 0 4 128 202 0 ## 989 77 0 77 0 77 0 77 0 77 0 77 0 77 0			1	4	110	197	0
## 965 51 0 0 3 140 308 0 8 8 9 8 ## 966 48 1 2 130 245 0 0 8 ## 967 58 1 4 150 270 0 0 8 ## 968 45 1 4 104 208 0 6 8 ## 970 39 1 3 140 321 0 0 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	## 963	3 65	0	3	160	360	0
## 966	## 964	4 60	1	4	125	258	0
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## 969 53 0 4 130 264 0 1	## 96	7 58	1	4	150	270	0
## 970	## 968	3 45	1	4	104	208	0
## 970	## 969	9 53	0	4	130	264	0
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## 1010 51 1 3 100 222 0							
## 1011 55 1 4 140 217 0							
	## 10:	11 55	1	4	140	217	0

##	1012	65	1	1	138	282	1
##	1013	45	0	2	130	234	0
##	1014	56	0	4	200	288	1
##	1015	54	1	4	110	239	0
##	1016	44	1	2	120	220	0
##	1017	62	0	4	124	209	0
	1018	54	1	3	120	258	0
	1019	51	1	3	94	227	0
	1020	29	1	2	130	204	0
	1021	51	1	4	140	261	0
	1022	43	0	3	122	213	0
##	1023	55	0	2	135	250	0
	1024	70	1	4	145	174	0
	1025	62	1	2	120	281	0
	1026	35	1	4	120	198	0
	1027	51	1	3	125	245	1
	1028	59	1	2	140	221	0
	1029	59	1	1	170	288	0
	1030	52	1	2	128	205	1
	1031	64	1	3	125	309	0
	1032	58	1	3	105	240	0
	1033	47	1	3	108	243	0
	1034	57	1	4	165	289	1
	1035	41	1	3	112	250	0
	1036	45	1	2	128	308	0
	1037	60	0	3	102	318	0
	1038	52	1	1	152	298	1
	1039	42	0	4	102	265	0
##	1040	67	0	3	115	564	0
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##	1044	51	1	4	140	299	0
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	1047	68	1	3	118	277	0
	1048	46	1	2	101	197	1
##	1049	77	1	4	125	304	0
##	1050	54	0	3	110	214	0
##	1051	58	0	4	100	248	0
##	1052	48	1	3	124	255	1
##	1053	57	1	4	132	207	0
	1054	52	1	3	138	223	0
	1055	54	0	2	132	288	1
	1056	35	1	4	126	282	0
	1057	45	0	2	112	160	0
	1058	70	1	3	160	269	0
	1059	53	1	4	142	226	0
	1060	59	0	4	174	249	0
	1061	62	0	4	140	394	0

## 1062	64	1	4	145	212	0
## 1063	57	1	4	152	274	0
## 1064	52	1	4	108	233	1
## 1065	56	1	4	132	184	0
## 1066	43	1	3	130	315	0
## 1067	53	1	3	130	246	1
## 1068	48	1	4	124	274	0
## 1069	56	0	4	134	409	0
## 1070	42	1	1	148	244	0
## 1071	59	1	1	178	270	0
## 1072	60	0	4	158	305	0
## 1073	63	0	2	140	195	0
## 1074	42	1	3	120	240	1
## 1075	66	1	2	160	246	0
## 1076	54	1	2	192	283	0
## 1077	69	1	3	140	254	0
## 1078	50	1	3	129	196	0
## 1079	51	1	4	140	298	0
## 1080	43	1	4	132	247	1
## 1081	62	0	4	138	294	1
## 1082	68	0	3	120	211	0
## 1082	67	1	4	100	299	0
## 1083	69	1	1	160	234	1
## 1084	45	0	4	138	236	0
## 1085	4 3	0	2	120	244	0
## 1086	59					
		1	1	160	273	0
## 1088	50	0	4	110	254	0
## 1089	64	0	4	180	325	0
## 1090	57	1	3	150	126	1
## 1091	64	0	3	140	313	0
## 1092	43	1	4	110	211	0
## 1093	45	1	4	142	309	0
## 1094	58	1	4	128	259	0
## 1095	50	1	4	144	200	0
## 1096	55	1	2	130	262	0
## 1097	62	0	4	150	244	0
## 1098	37	0	3	120	215	0
## 1099	38	1	1	120	231	0
## 1100	41	1	3	130	214	0
## 1101	66	0	4	178	228	1
## 1102	52	1	4	112	230	0
## 1103	56	1	1	120	193	0
## 1104	46	0	2	105	204	0
## 1105	46	0	4	138	243	0
## 1106	64	0	4	130	303	0
## 1107	59	1	4	138	271	0
## 1108	41	0	3	112	268	0
## 1109	54	0	3	108	267	0
## 1110	39	0	3	94	199	0
## 1111	53	1	4	123	282	0

## 1112 63 0 4 108 269 0 ## 1114 47 1 4 112 204 0 6 ## 1115 67 0 3 152 277 0 6 ## 1116 54 1 4 110 206 0 6 ## 1117 66 1 4 112 212 0 6 ## 1119 55 0 4 180 327 0 6 ## 1119 55 0 4 180 327 0 6 ## 1112 212 286 1 1 1 2 120 269 0 6 ## 1112 254 0 2 120 269 0 6 ## 112 254 0 3 136 160 201 0 6 ## 1125 55 1 4 122 286 0 6 ## 1125 56 1 4 122 286 0 6 ## 1125 56 1 4 120 249 0 6 ## 1125 60 1 4 120 249 0 6 ## 1125 60 1 4 120 249 0 6 ## 1128 60 1 4 120 249 0 6 ## 1128 60 1 4 120 249 0 6 ## 1128 60 1 6 1 6 201 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6							
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## 1115 67 0 3 152 277 0 ## 1116 66 0 4 110 206 0 0 ## 1111 654 1 4 110 206 0 0 ## 1118 52 0 0 3 136 196 0 0 ## 1118 52 0 0 3 136 196 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
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## 1118 52 0	## 1116	54	1	4	110	206	0
## 1119 55 0 4 180 327 0 6 ## 1120 49 1 3 1118 149 0 6 ## 1121 74 0 2 120 269 0 6 ## 1122 54 0 3 160 201 0 6 ## 1123 54 1 4 122 286 0 6 ## 1125 56 1 4 130 283 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	## 1117	66	1	4	112	212	0
## 1120	## 1118	52	0	3	136	196	0
## 1121 74 0 2 120 269 0 ## 1122 54 0 3 160 201 0 ## 1123 54 1 4 122 286 0 ## 1124 56 1 4 130 283 1 ## 1125 46 1 4 120 249 0 ## 1127 42 1 2 120 295 0 ## 1128 41 1 2 110 235 0 ## 1130 49 0 4 130 269 0 ## 1131 61 1 1 134 234 0 ## 1133 67 1 4 120 237 0 ## 1134 58 1 4 100 237 0 ## 1135 47 1 4 120 237 0 ## 1136 52 1 4 125 212 0 ## 1139 58 1 4 100 234 0 ## 1139 58 1 4 100 234 0 ## 1139 58 1 4 140 201 0 ## 1148 44 0 3 128 269 0 ## 1148 44 0 4 126 228 0 ## 1148 56 0 4 1 1 1 15 303 0 ## 1149 58 0 2 136 0 ## 1155 59 1 3 120 226 0 ## 1156 61 1 4 138 160 0 ## 1157 42 1 4 138 160 0 ## 1158 61 1 4 138 160 0 ## 1158 61 1 4 138 160 0 ## 1158 60 0 3 120 226 0 ## 1155 59 1 3 126 218 0 ## 1156 60 1 4 160 228 0 ## 1157 42 1 3 130 180 0 ## 1157 42 1 3 130 180 0 ## 1158 61 1 4 138 166 0 ## 1157 42 1 3 130 180 0 ## 1157 42 1 3 130 180 0 ## 1157 42 1 3 130 180 0	## 1119	55	0	4	180	327	0
## 1122 54 0 3 160 201 0 ## 1121 54 1 4 122 286 0 9 ## 1125 56 1 4 4 130 283 1 1 ## 1126 46 1 4 120 249 0 9 ## 1126 49 0 2 134 271 0 9 ## 1128 41 1 2 2 110 235 0 9 ## 1128 41 1 2 2 110 235 0 9 ## 1129 41 0 2 126 306 0 9 ## 1131 61 1 1 1 34 234 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	## 1120	49	1	3	118	149	0
## 1123 54 1 4 122 286 0 ## 1124 56 1 4 130 283 1 ## 1125 46 1 4 120 249 0 ## 1126 49 0 2 134 271 0 ## 1127 42 1 2 120 295 0 ## 1128 41 1 2 110 235 0 ## 1130 49 0 4 130 269 0 ## 1131 61 1 1 134 234 0 ## 1133 67 1 4 120 237 0 ## 1135 67 1 4 120 237 0 ## 1135 47 1 4 110 275 0 ## 1136 52 1 4 125 212 0 ## 1137 62 1 2 128 208 1 ## 1138 57 1 4 110 275 0 ## 1139 58 1 4 146 218 0 ## 1140 64 1 4 128 263 0 ## 1141 42 0 3 120 295 0 ## 1145 60 0 1 1 150 209 0 ## 1145 76 0 3 120 299 0 ## 1147 57 1 2 124 261 0 ## 1148 44 0 3 118 242 0 ## 1149 58 0 2 1 156 245 0 ## 1151 44 1 13 120 226 0 ## 1149 58 0 1 1 156 240 0 ## 1140 60 0 1 1 150 209 0 ## 1141 57 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	## 1121	74	0	2	120	269	0
## 1124 56 1 4 130 283 1 ## 1125 46 1 4 120 249 0 ## 1127 42 1 2 120 295 0 ## 1128 41 1 2 110 235 0 ## 1130 49 0 4 130 269 0 ## 1131 61 1 1 134 234 0 ## 1131 61 1 1 134 234 0 ## 1132 60 0 3 120 178 1 ## 1135 67 1 4 120 237 0 ## 1136 52 1 4 110 275 0 ## 1137 62 1 2 128 208 1 ## 1139 58 1 4 110 201 0 ## 1139 58 1 4 14 6 218 0 ## 1140 64 1 4 128 263 0 ## 1144 67 0 4 106 223 0 ## 1149 58 0 2 1 120 209 0 ## 1144 67 0 4 106 223 0 ## 1150 60 0 1 150 209 0 ## 1149 58 0 2 1 156 245 0 ## 1151 44 155 20 1 ## 1151 44 155 20 0 ## 1152 60 0 0 0 0 0 0 ## 1155 60 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 0 0 0 ## 1150 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	## 1122	54	0	3	160	201	0
## 1125	## 1123	54	1	4	122	286	0
## 1126	## 1124	56	1	4	130	283	1
## 1127	## 1125	46	1	4	120	249	0
## 1127 42 1 2 120 295 0 ## 1128 41 1 2 110 235 0 ## 1130 49 0 4 130 269 0 ## 1131 61 1 1 1 134 234 0 ## 1131 66 0 0 3 120 178 1 ## 1135 47 1 4 100 235 0 ## 1136 52 1 4 120 237 0 ## 1137 62 1 2 128 208 1 ## 1139 58 1 4 110 201 0 ## 1139 58 1 4 120 201 0 ## 1140 64 1 4 128 263 0 ## 1141 46 70 1 2 156 245 0 ## 1148 44 0 3 118 242 0 ## 1149 58 0 2 136 315 0 ## 1149 58 0 2 136 315 0 ## 1149 58 0 4 138 100 180 0 ## 1155 49 1 1 3 120 226 ## 1156 40 1 4 138 100 180 0 ## 1157 42 1 3 130 180 0 ## 1157 42 1 1 3 130 180 0 ## 1157 42 1 1 3 130 180 0 ## 1157 42 1 1 3 130 180 0 ## 1157 42 1 1 3 130 180 0 ## 1157 42 1 1 3 130 180 0 ## 1157 42 1 1 3 130 180 0 ## 1157 42 1 1 3 130 180 0 ## 1159 66 1 4 140 277 0 ## 1159 66 1 4 140 277 0 ## 1159 66 1 4 140 277 0 ## 1159 66 1 4 140 311 0	## 1126	49	0	2	134	271	0
## 1128 41 1 2 116 235 0 0 ## 1129 41 0 2 126 306 0 0 ## 1130 49 0 4 130 269 0 0 ## 1131 61 1 1 134 234 0 0 ## 1132 60 0 3 120 178 1 ## 1135 67 1 4 120 237 0 0 ## 1135 47 1 4 110 275 0 0 ## 1136 52 1 4 110 275 0 0 ## 1137 62 1 2 128 208 1 ## 1139 58 1 4 110 201 0 0 ## 1140 64 1 4 128 263 0 0 ## 1141 51 0 3 120 295 0 0 ## 1143 42 0 3 120 295 0 0 ## 1144 67 0 4 106 223 0 0 0 ## 1145 76 0 1 2 156 245 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	## 1127	42	1	2	120	295	
## 1129 41 0 2 126 306 0 ## 1130 49 0 4 130 269 0 ## 1131 61 1 1 134 234 0 ## 1132 60 0 3 120 178 1 ## 1133 67 1 4 120 237 0 ## 1134 58 1 4 100 234 0 ## 1135 47 1 4 110 275 0 ## 1136 52 1 4 125 212 0 ## 1138 57 1 4 110 201 0 ## 1139 58 1 4 110 201 0 ## 1139 58 1 4 146 218 0 ## 1140 64 1 4 128 263 0 ## 1141 55 0 3 120 295 0 ## 1142 43 1 4 115 303 0 ## 1144 67 0 4 106 223 0 ## 1145 76 0 3 140 197 0 ## 1146 70 1 2 156 245 0 ## 1147 57 1 2 124 261 0 ## 1148 44 0 3 118 242 0 ## 1149 58 0 2 136 319 1 ## 1150 60 1 1 4 138 166 0 ## 1151 44 1 1 3 120 226 0 ## 1151 44 1 1 3 120 226 0 ## 1155 59 1 3 120 226 0 ## 1155 59 1 3 126 218 1 ## 1156 60 1 4 128 264 1 ## 1157 42 1 3 130 180 0 ## 1159 66 1 4 160 223 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1150 60 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1150 60 0 1 60 60 60 60 60 60 60 60 60 60 60 60 60	## 1128	41	1			235	
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## 1142 43 1 4 115 303 0 ## 1143 42 0 3 120 209 0 ## 1144 67 0 4 106 223 0 ## 1145 76 0 3 140 197 0 ## 1146 70 1 2 156 245 0 ## 1147 57 1 2 124 261 0 ## 1149 58 0 2 136 319 1 ## 1150 60 0 1 150 240 0 ## 1151 44 1 3 120 226 0 ## 1152 61 1 4 138 166 0 ## 1153 42 1 4 136 315 0 ## 1154 52 1 4 128 204 1 ## 1155 59 1 3 126 218 1 ## 1156 40 1 4 152 223 0 ## 1157 42 1 3 130 180 0 ## 1158 61 1 4 140 207 0 ## 1159 66 1 4 160 228 0 ## 1159 66 1 4 160 228 0 ## 1160 46 1							
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## 1160 46 1 4 140 311 0							
## 1161 71 0 4 112 149 0							
	## 1161	71	0	4	112	149	0

##	1162	59	1	1	134	204		0
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	1166	57	1	2	154	232		0
	1167	58	0	4	130	197		0
	1168	57	1	4	110	335		0
	1169	47	_ 1	3	130	253		0
	1170	55	0	4	128	205		0
	1171	35	1	2	122	192		ø
	1172	61	1	4	148	203		0
	1173	58	1	4	114	318		ø
	1174	58	0	4	170	225		1
	1175	58	1	2	125	220		0
	1176	56	1	2	130	221		0
	1177	56	1	2	120	240		0
	1178	67	1	3	152	212		0
	1179	55	0	2	132	342		0
	1180	33 44	1	4	120	169		0
	1181	63		4	140	187		
	1182		1					0
	1183	63	0	4	124	197		0
		41	1	2	120	157		0
	1184	59	1	4	164	176		1
	1185	57 45	0	4	140	241		0
	1186	45	1	1	110	264		0
	1187	68	1	4	144	193		1
	1188	57	1	4	130	131		0
	1189	57	0	2	130	236		0
	1190	38	. 1	3	.138	175		. 0
##		rest			exercise.angina			
##			0	172	0	0.0	1	0
	2		0	156	0	1.0	2	1
##	3		1	98	0	0.0	1	0
##			0	108	1	1.5	2	1
##			0	122	0	0.0	1	0
##			0	170	0	0.0	1	0
##			0	170	0	0.0	1	0
##			0	142	0	0.0	1	0
##			0	130	1	1.5	2	1
##			0	120	0	0.0	1	0
##			0	142	0	0.0	1	0
##			1	99	1	2.0	2	1
##			0	145	0	0.0	1	0
##			0	140	1	1.0	2	1
##			1	137	0	0.0	1	0
##			0	150	0	1.5	2	0
##			0	166	0	0.0	2	1
##			0	165	0	0.0	1	0
##			0	125	0	1.0	2	1
##	20		0	160	0	3.0	2	1

##	21	0	142	0	0.0	1	0
	22	0	142	0	1.0	2	0
	23	0	164	0	0.0	1	0
##		0	150	1	3.0	2	1
##	25	0	138	0	0.0	1	0
##	26	0	178	0	0.0	1	0
	27	1	112	1	3.0	2	0
##		0	118	0	0.0	1	0
##		0	127	0	0.0	1	0
##	30	0	145	0	0.0	1	0
##	31	0	130	0	0.0	2	1
##	32	0	114	0	0.0	1	0
	33	0	122	0	2.0	2	1
##		1	130	0	2.0	2	1
##		0	154	0	0.0	1	0
##	36	0	155	0	0.0	1	0
##	37	0	87	1	1.5	2	1
##	38	1	142	0	0.0	1	0
##		1	148	0	0.0	1	0
##		0	130	1	1.0	2	0
##		0	130	0	0.0	1	0
##		1	100	1	0.0	2	1
##	43	0	168	0	0.0	1	0
##	44	1	170	0	0.0	1	0
##	45	0	120	1	1.0	2	1
##		0	120	1	1.0	2	0
##		0	168	0	0.0	1	0
##			170				
		0		0	0.0	1	0
##		0	184	0	1.0	2	0
	50	0	170	0	0.0	2	1
##	51	0	121	1	2.0	2	1
##	52	0	98	1	2.0	2	1
##		0	122	0	0.0	1	0
##		0	150	0	0.0	1	0
##		0	140	1	1.5	2	0
##		0	170	0	0.0	1	0
##		0	153	1	1.5	2	1
##	58	1	140	0	0.0	2	1
##	59	1	134	0	1.0	1	0
##		1	96	1	1.0	2	1
##		0	174	0	0.0	1	0
##		0	175	0	0.0	1	0
##		0	144	0	0.0	1	0
##		0	125	1	1.0	2	1
##	65	0	145	0	0.0	1	0
##		0	130	0	0.0	1	0
##		0	144	0	0.0	1	0
##		0	184	0	0.0	1	0
##		1	82	1	4.0	2	1
##	/0	0	170	0	0.0	1	0

##	71	1	145	1	1.0	2	1
##	72	0	135	0	0.0	1	0
##	73	0	150	0	0.0	2	1
	74	1	115	0	0.0	1	0
	75	0	128	1	1.5	2	1
	76	0	116	0	0.0	1	0
	70 77						
		0	130	0	0.0	2	1
	78	0	150	0	0.0	1	0
	79	0	138	1	0.0	1	0
	80	0	170	0	0.0	2	1
	81	0	160	0	0.0	1	0
##	82	0	154	0	0.0	1	0
##	83	0	115	0	0.0	2	1
##	84	0	165	0	0.0	1	0
##	85	0	125	1	1.0	2	1
	86	0	94	1	1.0	2	1
	87	0	112	1	2.0	2	1
	88	0	142	1	2.0	2	0
	89	1	155	0	0.0	2	1
	90						
		0	110	1	0.5	2	0
	91	0	160	0	0.0	1	0
	92	0	140	0	0.0	1	0
	93	0	148	0	0.0	1	0
	94	0	92	1	1.5	2	1
##	95	1	180	0	0.0	1	0
##	96	0	140	1	2.0	2	1
##	97	0	138	0	0.0	1	0
##	98	0	160	0	0.0	1	0
##	99	0	140	0	0.0	1	0
	100	0	144	0	0.0	1	0
	101	1	115	1	1.0	2	1
	102	0	100	0	0.0	1	0
	103	0	130	0	2.0	2	1
	104		152		1.0	2	
		0		1			1
	105	0	124	0	0.0	2	1
	106	0	140	0	0.0	1	0
	107	1	110	0	0.0	1	0
	108	1	168	0	0.0	1	0
	109	0	135	0	0.0	1	0
	110	0	106	0	0.0	1	0
##	111	0	124	0	1.0	2	0
##	112	0	92	1	3.0	2	1
##	113	0	125	1	0.0	1	0
##	114	0	150	0	0.0	1	0
	115	1	135	0	0.0	1	0
	116	0	150	1	1.0	2	1
	117	0	170	0	0.0	2	1
	118	1	130	1	1.5	2	1
	119	1	185	0	0.0	1	0
				0		2	
##	120	0	180	Ø	0.0	2	1

##	121	0	170	0	0.0	2	1
##	122	0	139	0	0.0	1	0
	123	1	140	0	0.0	1	0
	124	0	110	1	1.0	2	1
	125	0	150	0	0.0	1	0
	126	0	110	0	0.0	1	0
	127		190	0		1	
		0			0.0		0
	128	0	175	0	2.0	1	0
	129	0	140	0	0.0	1	0
	130	0	152	1	1.5	2	0
	131	0	130	0	0.0	1	0
	132	0	150	1	0.0	2	1
	133	1	122	1	2.0	2	1
##	134	1	124	1	1.5	2	1
##	135	1	120	1	1.0	2	0
##	136	0	175	0	0.0	2	1
##	137	1	175	0	0.0	1	0
##	138	1	146	0	2.0	1	0
##	139	0	118	1	0.0	2	1
	140	0	130	1	2.0	2	1
	141	0	94	1	2.5	2	1
	142	1	125	1	2.5	2	1
	143	1	158	1	3.0	2	1
	144	0	155	0	0.0	1	0
	145	0	150	0	1.0	2	1
	146	0	132	0	0.0	1	0
	147	0	155	0	0.0	1	0
	148	1	176	0	0.0	1	0
	149	0	160	0	0.0	1	0
	150	0	125	1	1.0	2	1
	151	0	120	0	0.0	1	0
	152	0	100	0	0.0	1	0
	153	0	150	0	0.0	1	0
	154		140				
		0		0	0.0	1	0
	155	1	160	0	0.0	1	0
	156	0	150	1	3.0	2	1
	157	0	150	1	1.0	2	1
	158	0	130	0	0.0	1	0
	159	0	100	1	2.0	2	1
	160	1	130	0	1.0	1	0
	161	2	119	1	0.0	2	1
	162	0	96	1	0.0	2	1
	163	0	174	0	0.0	1	0
	164	0	160	0	0.0	1	0
##	165	0	150	0	0.0	1	0
	166	0	140	0	0.0	1	0
##	167	0	175	0	2.0	2	1
##	168	1	140	1	5.0	2	1
##	169	0	118	0	0.0	1	0
##	170	0	100	0	0.0	1	0

##	171	0	160	0	0.0	1	0
##	172	0	160	0	0.0	1	0
	173	0	188	0	0.0	1	0
	174		162			1	
		0		0	0.0		0
	175	0	172	0	0.0	1	0
	176	0	134	1	2.0	2	1
##	177	0	135	1	2.0	2	1
##	178	0	105	0	1.5	2	1
##	179	0	150	0	0.0	1	0
	180	0	150	0	0.0	1	0
	181	0	90	0	0.0	1	0
	182						
		0	120	1	2.0	2	1
	183	0	150	0	0.0	1	0
	184	0	124	1	2.0	2	1
	185	1	140	1	1.0	2	0
##	186	0	130	0	0.0	1	0
##	187	1	92	0	0.0	2	1
##	188	0	110	0	0.0	1	0
	189	0	138	1	1.0	2	1
	190	0	110	_ 1	1.0	2	0
	191	1	120	1	1.5	2	1
	192						
		1	120	0	0.0	1	0
	193	1	116	0	0.0	1	0
	194	0	160	0	0.0	1	0
	195	0	110	0	0.0	1	0
##	196	0	180	0	0.0	1	0
##	197	0	116	0	0.0	1	0
##	198	0	132	0	1.0	2	0
##	199	0	136	0	0.0	1	0
	200	0	116	1	0.0	2	1
	201	0	98	0	1.0	2	0
	202	0	150	0	0.0	1	0
		_					
	203	0	150	0	0.0	1	0
	204	0	146	0	0.0	1	0
	205	1	150	0	0.0	1	0
	206	0	100	0	0.0	1	0
##	207	0	140	1	0.0	1	0
##	208	2	180	0	0.0	1	0
##	209	0	140	0	0.0	2	1
	210	2	185	0	0.0	1	0
	211	0	140	0	0.0	2	1
	212	0	110	0	0.0	2	1
	213	0	140	1	0.0	2	1
	214	0	128	1	1.0	1	0
	215	1	164	0	0.0	1	0
	216	0	98	1	1.5	2	1
##	217	1	170	0	0.0	1	0
##	218	0	150	0	0.0	2	1
	219	0	137	0	0.0	1	0
	220	0	150	0	0.0	1	0
	- -			-		_	-

##	221	0	170	0	0.0	1	0
##	222	0	112	0	0.0	2	1
	223	0	150	1	1.0	2	1
	224	0	125	0	0.0	1	0
	225	0	185	0	0.0	1	0
	226	0	137	0	0.0	1	0
	227		150	0		2	
		0			0.0		1
	228	0	140	0	0.0	1	0
	229	0	134	1	2.5	2	1
	230	0	170	0	0.0	1	0
	231	1	184	0	0.0	1	0
	232	0	158	0	0.0	1	0
	233	0	167	0	0.0	1	0
##	234	0	129	0	0.0	1	0
##	235	0	142	0	0.0	1	0
##	236	1	140	0	0.0	1	0
##	237	0	160	1	1.0	2	0
##	238	0	118	1	3.0	2	1
##	239	0	136	0	0.0	2	1
##	240	0	99	1	2.0	2	1
	241	0	102	1	3.0	2	1
	242	0	155	0	0.0	1	0
	243	0	142	1	2.0	2	1
	244	0	143	1	2.0	2	1
	245	0	118	0	0.0	1	0
	246	0	103	1	1.0	2	1
	247	0	137	0	2.0	1	0
	248	0	150	1	1.5	2	1
	249	1	150	1	2.0	3	1
	250	1	130	1	1.0	2	1
	251	0	120	1	1.0	2	1
	252	0	135	0	0.0	2	1
	253	0	115	0	2.0	2	1
	254		115				
		1		1	0.0	1	0 0
	255	0	152	0	1.0	1	
	256	0	96	1	2.0	2	1
	257	0	130	0	0.0	1	0
	258	2	150	0	0.0	1	0
	259	0	172	0	0.0	1	0
	260	0	120	0	0.5	1	0
	261	0	155	0	0.0	1	0
	262	0	165	1	0.0	1	0
	263	0	138	0	1.0	1	0
	264	0	115	1	0.0	2	1
	265	0	125	0	0.0	2	1
	266	0	145	1	1.0	2	1
	267	0	175	0	0.0	1	0
	268	0	110	1	1.0	2	1
	269	0	150	0	0.0	1	0
##	270	0	91	1	1.0	2	1

##	271	0	145	0	2.0	2	0
##	272	0	140	0	0.0	1	0
##	273	0	165	0	0.0	1	0
##	274	0	130	1	3.0	2	1
##	275	2	134	0	0.0	1	0
##	276	0	180	0	0.0	1	0
##	277	0	100	0	0.0	1	0
##	278	0	150	0	2.0	2	1
	279	0	126	1	1.5	2	1
	280	1	126	1	0.8	2	0
	281	1	155	0	0.0	1	0
	282	2	135	0	0.0	1	0
	283	0	122	0	2.0	2	1
	284	0	160	1	2.0	1	0
	285	1	160	0	0.0	1	0
	286	0	170	0	0.0	1	0
	287	0	120	0	0.0	1	0
	288	0	140	0	0.0	1	0
	289	0	132	0	0.0	1	0
	290	1	156	0	2.0	1	0
	291	0	180	0	0.0	1	0
	292	0	138	0	0.0	1	0
	293	0	135	0	1.0	1	0
	294	0	148	0	0.0	1	0
	418	1	112	1	3.0	2	1
	419	1	127	0	0.0	1	0
	420	1	140	1	1.5	3	1
	421	1	149	1	2.5	1	1
	422	2	99	1	1.3	2	0
	424	1	105	1	0.0	2	1
	427	1	157	0	0.5	2	1
	428	1	140	0	0.0	1	0
	433	1	86	0	0.0	1	0
	434	0	84	1	2.5	3	1
	435	0	125	1	2.0	2	1
	445	1	140	1	0.5	2	1
	446	0	120	1	1.5	2	1
	447	1	124	1	1.6	2	1
	449	1	110	1	2.0	1	1
	450	0	105	1	1.0	2	1
	454	1	118	1	1.5	2	1
	456	0	123	1	1.2	2	1
	462	1	118	1	1.9	2	1
	464	0	117	1	1.3	3	1
	467	0	160	0	0.0	1	0
	470	1	97	1	1.6	1	1
	471	0	161	0	2.0	2	0
	475	1	122	1	1.7	2	1
	478	2	139	0	0.1	1	0
##	480	1	148	1	2.0	2	1

##	484	0	125	0	2.5	1	1
	487	1	128	1	1.2	2	1
	488		180			1	
		1		0	0.4		0
	489	1	144	1	2.0	2	1
##	490	0	135	0	0.3	1	0
##	491	0	140	1	3.0	2	1
##	492	0	102	1	1.0	2	1
	493	1	108	0	0.0	2	1
	495		127	1	1.7	2	1
		0					
	496	0	110	1	2.5	2	1
	497	0	140	1	1.0	2	1
##	498	0	69	0	1.0	3	0
##	499	0	148	1	3.0	3	1
##	500	1	130	1	0.0	2	1
	501	0	130	1	1.0	2	1
	502	0	140	1	4.0	3	1
	503	0	138	1	2.0	2	1
	504	1	140	1	2.0	2	1
	505	1	138	0	0.2	1	0
##	506	0	112	1	3.0	3	1
##	507	1	131	1	1.2	2	1
##	508	0	112	1	3.0	2	1
	509	0	80	1	0.0	1	0
	511	0	110	0	0.0	2	1
	512		126	0		1	0
		0			0.3		
	513	1	88	1	2.0	2	1
	514	1	153		-0.1	1	0
	515	1	150	1	1.3	2	1
##	518	0	132	0	0.0	0	1
##	519	0	120	1	1.5	2	1
##	521	1	121	1	1.0	1	1
	522	1	128	0	0.5	2	0
	523	1	135	1	4.0	3	1
	524		120				
		2		1	1.0	1	1
	525	0	117	1	1.0	2	1
	526	1	150	0	0.0	1	0
	527	0	144	0	0.1	1	0
##	528	2	113	1	1.7	2	1
##	529	0	135	0	0.3	1	0
	530	0	127	1	1.5	2	1
	531	0	109	1	1.4	2	1
	532	0	128	1		2	1
					1.1		
	533	1	115	1	1.8	2	1
	534	1	102	0	0.0	2	1
	535	1	140	1	2.0	2	1
##	536	0	135	1	2.5	3	1
##	539	1	130	1	4.0	3	1
	540	0	112	1	2.0	2	1
	541	2	100	0	0.0	1	0
				1	1.2	2	1
##	542	1	122		1)	,	1

##	543	2	120	0	3.5	3	1
	544	0	105	1	1.5	2	1
	545	1	129	1	3.0	3	1
	546	0	120	1	0.0	1	0
##	547	1	139	0	0.2	1	0
##	548	1	162	0	0.0	2	1
	549	1	100	0	1.5	3	1
	550	0	140	0	1.5	1	1
		_					
	551	1	135	0	0.2	1	0
	552	0	73	0	2.0	2	1
	553	2	86	0	0.0	1	0
##	554	0	108	1	1.8	2	1
##	555	0	116	1	1.8	2	1
##	556	1	160	0	0.3	1	0
	557	1	118	1	0.0	2	1
	558	0	112	1	2.0	3	0
	559	1	122	1	1.8	2	1
	560	1	124	1	1.4	2	1
##	561	0	102	1	4.0	3	1
##	562	1	137	0	0.2	1	0
##	563	1	141	0	0.1	1	0
	564	0	154	1	2.0	2	0
	565	1	126	1	1.1	2	1
	566	1	160	1	2.0	2	1
	567	1	115	1	1.7	2	1
	568	0	128	1	1.5	2	0
	569	1	115	1	0.0	2	1
	570	0	105	1	1.5	3	1
	571	0	110	1	2.5	2	1
##	572	1	119	1	2.0	3	1
##	573	0	109	1	1.5	2	1
##	574	1	135	1	0.5	2	1
	575	2	130	0	1.5	2	1
	576	1	112	1	1.5	2	1
	577				1.2		
		0	126	1		2	1
	578	1	120	1	3.0	2	1
	579	0	110	1	1.9	2	1
	580	2	119	1	3.0	3	1
##	581	1	110	1	1.8	2	1
##	582	2	130	1	1.0	2	1
	583	0	159	1	1.5	1	1
	584	2	84	1	0.0	2	1
	585	2	126	0	0.3	1	0
	586	1	116	1		2	
					1.5		1
	587	1	120	0	0.8	2	1
	588	0	122	1	2.0	2	1
	589	2	165	0	1.0	2	0
	590	1	122	1	2.0	2	1
##	591	0	94	0	0.0	2	1
##	592	1	133	0	0.2	1	0

##	593	1	110	0	0.0	1	0
##	594	2	150	1	2.0	3	1
##	595	2	130	0	0.0	2	1
##	596	2	113	1	1.0	1	1
##	597	2	140	1	0.5	2	1
	598	2	100	0	0.0	2	1
	599	1	136	0	0.2	1	0
	600	2	127	1	1.7	3	1
	601	0	98	0	1.5	2	1
	602	1	96	1	1.0	2	0
	603	0	123	1	1.3	2	1
	604	0	98	1	0.0	2	1
	605	1	118	1	0.0	2	1
	606	0	112	1	1.5	3	1
	607	0	151	1	0.0	1	0
	608	2	96	0	1.0	1	0
	609	1	108	1	3.0	2	1
	610						
	611	1	128	1	1.5	2	1
	612		138	1 0	0.0	2	1
		0	126		0.0		1
	613 614	1	154	0	0.0	2 1	1
		1	137	0	0.2		0
	615	1	100	0	0.0	2	1
	616	2	135	0	0.3	1	0
	617	2	93	1	0.0	2	1
	618	2	109	0	2.4	2	1
	619	2	160	0	1.6	2	0
	620	0	141	0	0.3	1	1
	621	0	105	1	0.2	2	0
	622	2	121	1	0.2	1	0
	623	0	140	0	0.4	1	0
	624	2	142	1	0.6	2	1
	625	2	142	1	1.2	2	1
	626	2	170	0	1.2	2	1
	627	2	154	0	4.0	2	1
	628	0	161	0	0.5	2	0
	629	2	111	1	0.0	1	0
	630	2	180	0	0.0	1	0
	631	0	145	0	2.6	2	1
	632	2	159	0	0.0	1	0
	633	0	125	0	1.6	2	0
	634	0	120	1	1.8	2	1
	635	2	155	1	3.1	3	1
##	636	2	144	1	1.8	2	0
	637	0	178	1	1.4	1	0
##	638	2	129	1	2.6	2	1
##	639	2	180	0	0.2	2	0
##	640	0	181	0	1.2	2	0
##	641	0	143	0	0.1	1	0
##	642	2	159	1	0.0	1	0

##	643	0	139	0	0.2	1	0
##	644	2	152	1	0.0	2	0
	645	2	157	0	0.6	1	0
	646		165			2	1
		2		0	2.5		
	647	2	130	0	0.0	1	0
	648	2	150	0	0.4	2	1
##	649	2	138	0	2.3	1	0
##	650	0	170	0	0.0	1	0
##	651	2	140	1	3.4	3	1
	652	2	126	1	0.9	2	1
	653	2	150	1	0.0	1	1
	654	2	138	1	1.9	1	1
	655	2	125	0	0.0	1	1
##	656	0	150	0	0.0	1	0
##	657	2	186	0	0.0	1	0
##	658	0	181	0	0.0	1	1
##	659	0	163	0	0.0	1	0
	660	0	179	1	0.4	1	0
	661	0	156	0	0.0	1	0
	662	0	134	0	2.2	2	1
	663	2	165	0	0.0	1	0
	664	2	126	0	0.8	1	1
	665	2	177	0	0.0	1	1
	666	0	120	1	0.0	2	1
##	667	2	114	0	1.0	2	1
##	668	0	125	1	1.8	2	1
##	669	0	184	0	0.0	1	0
##	670	2	157	0	0.8	1	0
	671	0	179	0	0.0	1	0
	672	2	175	0	0.6	2	0
	673	0	168	0	0.0	1	0
	674		125				
		2		1	3.6	2	1
	675	0	96	0	0.0	1	0
	676	0	143	1	0.0	2	1
##	677	2	103	0	1.4	2	1
##	678	0	173	0	0.2	1	0
##	679	0	142	1	1.2	2	1
##	680	0	169	0	0.0	1	0
##	681	0	171	0	0.9	1	0
	682	2	150	0	2.3	3	0
	683	2	112	1	0.6	2	1
	684	2	186	1	0.0	1	0
	685	2	152	0	0.0	1	1
	686	0	149	0	0.3	2	0
	687	0	152	0	0.0	1	1
	688	0	140	1	3.6	2	1
##	689	0	163	1	0.6	1	0
##	690	2	143	0	0.0	1	0
	691	1	116	0	1.1	2	0
	692	0	142	0	0.3	1	0
			-	-		_	_

##	693	2	147	1	0.0	2	1
##	694	2	148	1	3.0	2	0
##	695	0	179	0	0.0	1	0
	696	0	173	0	0.0	2	0
	697	0	178	0	0.8	1	0
	698	0	105	0	2.0	2	1
	699		130			2	
		0		1	1.6		1
	700	2	111	1	0.8	1	1
	701	2	168	0	2.0	2	0
	702	0	126	1	1.5	2	0
	703	2	178	0	0.8	1	0
	704	2	140	0	0.0	1	0
##	705	2	145	0	4.2	3	0
##	706	0	163	0	0.0	1	0
##	707	2	128	0	2.6	2	1
##	708	0	164	1	0.0	1	0
##	709	2	169	0	0.0	1	1
	710	2	109	1	2.2	2	1
	711	2	108	1	0.0	2	1
	712	0	168	0	1.0	1	1
	713	2	118	1	1.0	2	1
	714	2	151	0	0.4	2	0
	715	0	156	0	0.1	1	1
	716	0	133	0	0.2	1	0
	717	0	162	0	1.1	1	0
	718	0	175	0	0.6	2	0
	719		71			2	
	720	0		0	1.0		1
		0	163	0	0.0	1	0
	721	2	124	0	1.0	2	1
	722	2	147	0	1.4	2	1
	723	2	166	0	0.5	2	1
	724	0	143	1	1.2	2	0
	725	2	157	0	2.6	2	1
	726	0	162	1	0.0	1	1
##	727	0	138	0	0.0	2	0
##	728	1	117	1	3.4	2	1
##	729	0	153	0	0.0	1	0
##	730	2	161	0	0.0	1	1
##	731	0	170	0	0.0	1	0
##	732	0	162	0	0.0	1	0
	733	0	162	0	0.0	2	0
	734	2	144	0	0.8	1	1
	735	2	133	1	4.0	3	1
	736	0	114	0	2.6	3	0
	737	2	103	1	1.6	3	1
	738	0	139	0	2.0	2	1
	739	2	116	1	3.2	2	1
	740	0	88	1	1.2	2	1
	741	2	151	0	0.8	1	0
	741 742	2	152	0	0.5	3	0
##	/ 44	4	172	U	0.5	,	U

##	743	0	163	0	0.0	1	0
	744	0	99	1	1.8	2	1
	745	2	169	0	0.1	2	0
	746	0	158	0	0.8	1	0
##	747	0	160	1	1.4	1	1
##	748	0	169	1	1.8	2	1
	749	2	132	1	0.1	1	1
	750		178				
		0		0	0.0	1	0
	751	2	96	1	2.2	3	1
##	752	2	165	0	1.6	1	0
##	753	2	160	1	1.4	3	0
##	754	0	172	0	0.0	1	0
	755	2	144	1	1.2	2	1
	756	0	192	0	0.7	1	0
	757	0	168	1	0.0	1	0
	758	2	132	0	2.0	2	1
##	759	2	182	0	0.0	1	0
##	760	0	163	0	0.6	2	1
	761	2	125	1	1.4	1	0
	762	2	195	0	0.0	1	1
	763	0	95	1	2.0	2	1
	764	0	160	0	0.0	1	1
	765	2	114	1	2.0	2	1
##	766	2	173	0	3.2	1	1
##	767	2	172	1	0.0	1	0
##	768	0	179	0	0.0	1	0
##	769	0	158	0	1.6	2	0
##	770	2	167	0	0.0	1	0
	771	0	122	0	2.0	2	0
	772	2	149	0	0.5	1	0
	773	0	172			1	0
				0	0.0		
	774	0	111	1	5.6	3	1
##	775	2	170	0	0.0	1	0
##	776	2	162	0	1.9	2	0
##	777	0	165	1	1.0	2	1
	778	0	182	1	3.8	2	1
	779	0	154	1	1.4	2	1
	780	0	155	0	0.0	1	0
	781	2	130	1	3.0	2	1
	782	0	161	0	0.0	1	0
##	783	0	154	1	0.0	1	0
##	784	2	159	0	0.0	1	0
##	785	2	152	0	1.2	3	0
	786	2	152	1	0.2	2	0
	787	2	174	0	1.4	2	1
	788	2	131	0	0.1	2	0
	789	2	146	0	2.0	2	1
	790	2	125	1	0.9	2	1
##	791	2	115	0	1.5	2	0
##	792	2	174	0	0.0	1	0

##	793	0	106	0	1.9	2	1
	794	0	122	1	4.2	2	1
	795		147		3.6	2	1
		0		0			
	796	0	163	0	0.2	2	1
##	797	0	163	0	0.0	1	0
##	798	0	194	0	0.8	3	0
##	799	2	150	1	1.9	2	1
##	800	2	158	0	0.0	1	1
	801	2	122	0	0.6	2	0
	802	2	173		0.0	1	0
				0			
	803	0	162	0	1.9	1	0
	804	2	105	1	2.1	2	1
##	805	0	147	0	0.1	1	0
##	806	2	157	0	1.2	2	0
##	807	0	112	1	2.9	2	1
	808	0	160	0	1.2	1	0
	809	0	125	1	2.6	3	1
	810	0	156	0	0.0	1	0
	811	2	156	1	0.0	1	1
	812	0	175	0	0.0	1	0
##	813	2	161	0	1.4	2	0
##	814	2	122	0	1.0	2	0
##	815	0	158	0	1.6	2	0
	816	0	151	0	1.8	1	0
	817	2	162	1	0.0	1	1
	818	0	151	0	1.0	1	0
	819	2	171	0	0.0	1	1
	820	2	141	1	2.8	2	1
##	821	0	173	1	1.6	1	1
##	822	2	145	1	0.8	2	1
##	823	0	178	0	1.2	2	0
	824	0	160	0	0.0	1	0
	825	2	154	1	0.6	2	0
	826		131				
		0		1	1.8	2	1
	827	0	187	0	3.5	3	0
	828	2	159	0	0.2	2	1
	829	2	166	0	2.4	2	0
##	830	0	165	0	0.2	2	0
##	831	2	131	1	2.2	2	1
	832	2	202	0	0.0	1	0
	833	2	172	0	1.4	1	0
	834	2	172	0	0.0	1	0
	835	0	154	1	0.0	1	0
	836	2	147	0	0.4	2	0
	837	0	170	0	0.0	1	0
##	838	0	126	1	2.8	2	1
##	839	2	127	0	2.8	2	1
	840	0	174	0	1.6	1	0
	841	2	132	1	1.8	1	1
	842	0	182	0	1.4	1	0
π#	0-7-2	U	102	U	1,4	_	U

##	843	0	132	0	0.0	2	0
##	844	0	97	0	1.2	2	1
	845	2	136	1	3.0	2	1
	846	2	162	0	1.0	1	0
##	847	2	190	0	0.0	2	0
##	848	2	146	1	1.0	2	1
##	849	0	140	0	1.2	2	1
##	850	2	185	0	0.0	1	0
	851	0	161	1	0.0	1	1
	852	_	146			2	
		0		0	1.8		0
	853	2	145	0	6.2	3	1
	854	2	160	0	0.0	1	0
##	855	2	120	1	2.5	2	1
##	856	2	156	0	0.0	1	0
##	857	0	172	0	0.2	1	0
	858	2	150	1	1.6	2	1
	859	2	182	0	0.0	1	0
	860	2	143	0	0.4	2	0
	861	2	160	0	3.6	3	1
	862	2	142	0	1.5	1	0
##	863	0	144	1	1.4	1	1
##	864	2	158	0	0.6	1	1
##	865	0	148	0	0.8	1	0
	866	2	155	0	3.0	2	1
	867	2	142	1	2.8	2	1
	868	0	113	0	1.4	2	1
	869	2	188	0	0.0	1	0
	870	2	153	0	0.0	1	1
	871	0	123	0	0.6	1	0
	872	0	157	0	1.6	1	0
##	873	0	162	0	0.4	1	0
##	874	0	137	1	1.0	2	0
##	875	0	132	1	1.2	2	1
	876	0	158	0	0.0	1	1
	877	0	171	0	1.5	1	0
	878	0	172	0	0.0	1	0
	879	2	132	1	2.4	2	1
	880	2	160	0	1.8	2	1
	881	0	171	0	0.6	1	0
##	882	0	168	0	1.0	3	1
##	883	0	162	0	0.5	1	0
##	884	0	173	0	0.0	1	0
	885	2	153	0	1.3	2	0
	886	0	148	0	0.4	2	0
	887	2	108	1	1.5	2	1
	888	2	150	0	2.3	3	0
	889	2	108	1	1.5	2	1
	890	2	129	1	2.6	2	1
	891	0	187	0	3.5	3	0
##	892	2	172	0	1.4	1	0

##	893	0	178	0	0.8	1	0
##	894	2	160	0	3.6	3	1
	895	0	163	1	0.6	1	0
	896	2	147	0	1.4	2	1
	897	2	155	1	3.1	3	1
##	898	0	148	0	0.4	2	0
##	899	2	153	0	1.3	2	0
	900	2	142	1	0.6	2	1
	901	0	173	0	0.0	1	0
	902						
		0	162	0	0.5	1	0
	903	0	174	0	1.6	1	0
##	904	0	168	0	1.0	3	1
##	905	0	160	0	1.2	1	0
##	906	0	139	0	0.2	1	0
##	907	0	171	0	0.6	1	0
	908	2	144	1	1.8	2	0
	909	2	162	0	1.0	1	0
	910	2	160	0	1.8	2	1
	911	2	173	0	3.2	1	1
	912	2	132	1	2.4	2	1
##	913	0	158	0	1.6	2	0
##	914	0	172	0	0.0	1	0
##	915	0	114	0	2.6	3	0
	916	0	171	0	1.5	1	0
	917		114	1		2	
		2			2.0		1
	918	0	151	0	1.8	1	0
	919	0	160	1	1.4	1	1
##	920	0	158	0	0.0	1	1
##	921	0	161	0	0.5	2	0
##	922	0	179	1	0.4	1	0
##	923	0	178	0	0.0	1	0
	924	2	120	1	2.5	2	1
	925		112			2	
		2		1	0.6		1
	926	0	132	1	1.2	2	1
	927	0	137	1	1.0	2	0
	928	2	114	0	1.0	2	1
##	929	0	178	1	1.4	1	0
##	930	0	162	0	0.4	1	0
##	931	0	157	0	1.6	1	0
	932	2	169	0	0.0	1	1
	933	2	165	0	2.5	2	1
	934	0	123	0	0.6	1	0
	935	2	128	0	2.6	2	1
	936	2	157	0	0.8	1	0
##	937	2	152	0	1.2	3	0
##	938	0	168	0	0.0	1	0
	939	0	140	0	0.4	1	0
	940	2	153	0	0.0	1	1
	941	2	188	0	0.0	1	0
##	942	0	144	1	1.4	1	1

##	943	2	109	1	2.2	2	1
	944	0	163	0	0.6	2	1
	945	2	158	0	0.0	1	1
	946	2	152	0	0.5	3	0
##	947	2	125	1	1.4	1	0
##	948	0	142	1	1.2	2	1
	949	2	160	1	1.4	3	0
	950	2	131			2	
				1	2.2		1
	951	0	170	0	0.0	1	0
##	952	0	113	0	1.4	2	1
##	953	2	142	1	2.8	2	1
##	954	2	155	0	3.0	2	1
	955	2	165	0	1.6	1	0
	956	2	140	1			1
					3.4	3	
	957	0	147	0	3.6	2	1
##	958	0	148	0	0.8	1	0
##	959	0	163	0	0.2	2	1
##	960	0	99	1	1.8	2	1
	961	2	158	0	0.6	1	1
	962	2	177	0	0.0	1	1
	963	2	151	0	0.8	1	0
	964	2	141	1	2.8	2	1
##	965	2	142	0	1.5	1	0
##	966	2	180	0	0.2	2	0
##	967	2	111	1	0.8	1	1
	968	2	148	1	3.0	2	0
	969	2	143	0	0.4	2	0
	970	2	182	0	0.0	1	0
	971	2	150	1	1.6	2	1
	972	0	172	0	0.2	1	0
##	973	2	180	0	0.0	1	0
##	974	2	156	0	0.0	1	0
##	975	2	115	0	0.0	1	0
	976	2	160	0	0.0	1	0
	977	2	149	0			0
					0.5	1	
	978	2	151	0	0.4	2	0
	979	2	145	0	6.2	3	1
##	980	0	146	0	1.8	2	0
##	981	0	175	0	0.6	2	0
	982	2	172	0	0.0	1	0
	983	0	161	1	0.0	1	1
	984	2	142	1	1.2	2	1
	985	2	157	0	2.6	2	1
	986	0	158	0	0.8	1	0
	987	2	186	0	0.0	1	0
##	988	2	185	0	0.0	1	0
	989	2	174	0	0.0	1	0
	990	2	159	0	0.0	1	0
	991	2	130	0	0.0	1	0
##	992	0	139	0	2.0	2	1

##	993	0	156	0	0.0	1	0
	994	0	162	1	0.0	1	1
	995	2	150	0	0.4	2	1
	996	0	140	1	3.6	2	1
##	997	0	140	0	1.2	2	1
##	998	2	146	1	1.0	2	1
	999	2	144	1	1.2	2	1
	1000	2	190			2	
				0	0.0		0
	1001	2	136	1	3.0	2	1
##	1002	0	97	0	1.2	2	1
##	1003	0	132	0	0.0	2	0
##	1004	2	165	0	0.0	1	0
	1005	0	182	0	1.4	_ 1	0
	1005	2	132	1		1	1
					1.8		
	1007	2	127	0	2.8	2	1
##	1008	2	150	1	0.0	1	1
##	1009	2	154	0	4.0	2	1
##	1010	0	143	1	1.2	2	0
	1011	0	111	1	5.6	3	1
	1012	2	174	0	1.4	2	1
	1013	2	175	0	0.6	2	0
	1014	2	133	1	4.0	3	1
##	1015	0	126	1	2.8	2	1
##	1016	0	170	0	0.0	1	0
##	1017	0	163	0	0.0	1	0
	1018	2	147	0	0.4	2	0
	1019	0	154	1	0.0	1	0
	1020	2	202	0	0.0	1	0
	1021	2	186	1	0.0	1	0
	1022	0	165	0	0.2	2	0
##	1023	2	161	0	1.4	2	0
##	1024	0	125	1	2.6	3	1
	1025	2	103	0	1.4	2	1
	1026	0	130	1	1.6	2	1
	1027	2	166	0	2.4	2	0
	1028	0	164	1	0.0	1	0
	1029	2	159	0	0.2	2	1
##	1030	0	184	0	0.0	1	0
##	1031	0	131	1	1.8	2	1
	1032	2	154	1	0.6	2	0
	1033	0	152	0	0.0	1	1
	1034	2	124	0	1.0	2	1
	1035	0	179	0	0.0	1	0
	1036	2	170	0	0.0	1	0
	1037	0	160	0	0.0	1	0
##	1038	0	178	0	1.2	2	0
	1039	2	122	0	0.6	2	0
	1040	2	160	0	1.6	2	0
	1041	2	145	1	0.8	2	1
##	1042	2	96	1	2.2	3	1

##	1043	2	109	0	2.4	2	1
	1044	0	173	1	1.6	1	1
	1045	2	171	0	0.0	1	1
	1046	2	170	0	1.2	2	1
##	1047	0	151	0	1.0	1	0
##	1048	0	156	0	0.0	1	0
	1049	2	162	1	0.0	1	1
	1050	0	158	0	1.6	2	0
	1051		122		1.0	2	0
		2		0			
	1052	0	175	0	0.0	1	0
	1053	0	168	1	0.0	1	0
##	1054	0	169	0	0.0	1	0
##	1055	2	159	1	0.0	1	0
##	1056	2	156	1	0.0	1	1
	1057	0	138	0	0.0	2	0
	1058	0	112	1	2.9	2	1
	1059	2	111	1	0.0	1	
							0
	1060	0	143	1	0.0	2	1
	1061	2	157	0	1.2	2	0
##	1062	2	132	0	2.0	2	1
##	1063	0	88	1	1.2	2	1
##	1064	0	147	0	0.1	1	0
##	1065	2	105	1	2.1	2	1
	1066	0	162	0	1.9	1	0
	1067	2	173	0	0.0	1	0
	1068	2	166	0	0.5	2	1
	1069	2	150	1	1.9	2	1
	1070	2	178	0	0.8	1	0
	1071	2	145	0	4.2	3	0
	1072	2	161	0	0.0	1	1
##	1073	0	179	0	0.0	1	0
##	1074	0	194	0	0.8	3	0
##	1075	0	120	1	0.0	2	1
	1076	2	195	0	0.0	1	1
	1077	2	146	0	2.0	2	1
	1078	0	163	0	0.0	1	0
	1079	0	122	1	4.2	2	1
	1080	2	143	1	0.1	2	1
	1081	0	106	0	1.9	2	1
	1082	2	115	0	1.5	2	0
##	1083	2	125	1	0.9	2	1
##	1084	2	131	0	0.1	2	0
##	1085	2	152	1	0.2	2	0
	1086	0	162	0	1.1	1	0
	1087	2	125	0	0.0	1	1
	1088	2	159	0	0.0	1	0
	1089	0	154	1	0.0	1	0
	1090	0	173	0	0.2	1	0
	1091	0	133	0	0.2	1	0
##	1092	0	161	0	0.0	1	0

##	1093	2	147	1	0.0	2	1
	1094	2	130	1	3.0	2	1
	1095	2	126	1	0.9	2	1
##	1096	0	155	0	0.0	1	0
##	1097	0	154	1	1.4	2	1
	1098	0	170	0	0.0	1	0
	1099	0	182	1	3.8	2	1
	1100	2	168	0	2.0	2	0
##	1101	0	165	1	1.0	2	1
##	1102	0	160	0	0.0	1	1
##	1103	2	162	0	1.9	2	0
	1104	0	172	0	0.0	1	0
	1105	2	152	1	0.0	2	0
	1106	0	122	0	2.0	2	0
	1107	2	182	0	0.0	1	0
##	1108	2	172	1	0.0	1	0
##	1109	2	167	0	0.0	1	0
	1110	0	179	0	0.0	1	0
	1111	0	95	1	2.0	2	1
	1112	0	169	1		2	1
		_			1.8		
	1113	0	192	0	0.7	1	0
	1114	0	143	0	0.1	1	0
##	1115	0	172	0	0.0	1	0
##	1116	2	108	1	0.0	2	1
##	1117	2	132	1	0.1	1	1
	1118	2	169	0	0.1	2	0
	1119					2	
		1	117	1	3.4		1
	1120	2	126	0	0.8	1	1
	1121	2	121	1	0.2	1	0
##	1122	0	163	0	0.0	1	0
##	1123	2	116	1	3.2	2	1
##	1124	2	103	1	1.6	3	1
	1125	2	144	0	0.8	1	1
	1126	0	162	0	0.0	2	0
	1127	0	162	0	0.0	1	0
##	1128	0	153	0	0.0	1	0
##	1129	0	163	0	0.0	1	0
##	1130	0	163	0	0.0	1	0
	1131	0	145	0	2.6	2	1
	1132	0	96	0	0.0	1	0
	1133		71			2	1
		0		0	1.0		
	1134	0	156	0	0.1	1	1
	1135	2	118	1	1.0	2	1
##	1136	0	168	0	1.0	1	1
##	1137	2	140	0	0.0	1	0
	1138	0	126	1	1.5	2	0
	1139	0	105	0	2.0	2	1
	1140	0	105	1	0.2	2	0
	1141	2	157	0	0.6	1	0
##	1142	0	181	0	1.2	2	0

	1143	0	173	0	0.0	2	0
	1144	0	142	0	0.3	1	0
	1145	1	116	0	1.1	2	0
	1146	2	143	0	0.0	1	0
##	1147	0	141	0	0.3	1	1
##	1148	0	149	0	0.3	2	0
##	1149	2	152	0	0.0	1	1
##	1150	0	171	0	0.9	1	0
##	1151	0	169	0	0.0	1	0
##	1152	2	125	1	3.6	2	1
##	1153	0	125	1	1.8	2	1
	1154	0	156	1	1.0	2	1
##	1155	0	134	0	2.2	2	1
##	1156	0	181	0	0.0	1	1
##	1157	0	150	0	0.0	1	0
##	1158	2	138	1	1.9	1	1
##	1159	2	138	0	2.3	1	0
##	1160	0	120	1	1.8	2	1
##	1161	0	125	0	1.6	2	0
##	1162	0	162	0	0.8	1	1
##	1163	2	155	0	0.6	2	0
##	1164	2	152	0	0.0	2	0
##	1165	0	152	0	0.0	2	0
##	1166	2	164	0	0.0	1	1
##	1167	0	131	0	0.6	2	0
	1168	0	143	1	3.0	2	1
##	1169	0	179	0	0.0	1	0
##	1170	1	130	1	2.0	2	1
	1171	0	174	0	0.0	1	0
	1172	0	161	0	0.0	1	1
	1173	1	140	0	4.4	3	1
	1174	2	146	1	2.8	2	1
	1175	0	144	0	0.4	2	0
	1176	2	163	0	0.0	1	0
	1177	0	169	0	0.0	3	0
	1178	2	150	0	0.8	2	1
	1179	0	166	0	1.2	1	0
	1180	0	144	1	2.8	3	1
	1181	2	144	1	4.0	1	1
	1182	0	136	1	0.0	2	1
	1183	0	182	0	0.0	1	0
	1184	2	90	0	1.0	2	1
	1185	0	123	1	0.2	2	1
	1186	0	132	0	1.2	2	1
	1187	0	141	0	3.4	2	1
	1188	0	115	1	1.2	2	1
	1189	2	174	0	0.0	2	1
##	1190	0	173	0	0.0	1	0

heart_clean[heart_clean\$fasting.blood.sugar >= min(heart_fbs_boxplot\$out),]

```
## Warning in min(heart fbs boxplot$out): no non-missing arguments to min;
## returning Inf
##
    [1] age
                                sex
                                                      chest.pain.type
##
    [4] resting.bp.s
                                cholesterol
                                                      fasting.blood.sugar
   [7] resting.ecg
                                max.heart.rate
                                                      exercise.angina
## [10] oldpeak
                                ST.slope
                                                      target
## <0 rows> (or 0-length row.names)
heart clean[heart clean$max.heart.rate >= min(heart mhr boxplot$out), ]
##
         age sex chest.pain.type resting.bp.s cholesterol fasting.blood.sugar
## 1
          40
                                               140
                                                            289
## 2
          49
               0
                                  3
                                               160
                                                            180
                                                                                     0
                                  2
                                                                                     0
## 3
          37
               1
                                               130
                                                            283
                                  4
                                               138
                                                            214
                                                                                     0
## 4
          48
               0
## 5
          54
               1
                                  3
                                               150
                                                            195
                                                                                     0
## 6
          39
                1
                                  3
                                              120
                                                            339
                                                                                      0
## 7
          45
               0
                                  2
                                              130
                                                            237
                                                                                     0
                                  2
## 8
          54
               1
                                              110
                                                            208
                                                                                     0
## 9
          37
               1
                                  4
                                              140
                                                            207
                                                                                      0
## 10
                                  2
          48
                0
                                               120
                                                            284
                                                                                     0
          37
                                  3
## 11
               0
                                               130
                                                            211
                                                                                     0
                                  2
## 12
                1
                                                                                     0
          58
                                               136
                                                            164
## 13
          39
               1
                                  2
                                               120
                                                            204
                                                                                     0
## 14
          49
                1
                                  4
                                               140
                                                                                     0
                                                            234
## 15
          42
                0
                                  3
                                               115
                                                            211
                                                                                     0
## 16
          54
                                  2
                                                            273
                                                                                      0
               0
                                               120
                                  4
## 17
          38
               1
                                              110
                                                            196
                                                                                     0
                                  2
## 18
          43
               0
                                               120
                                                            201
                                                                                     0
## 19
                1
                                  4
                                                                                      0
          60
                                               100
                                                            248
## 20
                                  2
          36
                1
                                               120
                                                            267
                                                                                     0
                                  1
## 21
          43
                0
                                               100
                                                            223
                                                                                     0
                                  2
## 22
          44
                1
                                               120
                                                            184
                                                                                     0
                                  2
## 23
          49
                0
                                               124
                                                            201
                                                                                      0
## 24
          44
                1
                                  2
                                              150
                                                            288
                                                                                     0
## 25
          40
                1
                                  3
                                                            215
                                                                                     0
                                              130
                                  3
## 26
          36
               1
                                              130
                                                            209
                                                                                      0
## 27
          53
                1
                                  4
                                               124
                                                            260
                                                                                     0
## 28
                                  2
          52
                1
                                              120
                                                            284
                                                                                     0
## 29
          53
                0
                                  2
                                                                                      0
                                              113
                                                            468
                                  2
## 30
               1
                                                                                     0
          51
                                              125
                                                            188
## 31
          53
               1
                                  3
                                               145
                                                            518
                                                                                     0
                                  3
## 32
          56
               1
                                               130
                                                            167
                                                                                     0
## 33
          54
               1
                                  4
                                               125
                                                            224
                                                                                     0
## 34
          41
               1
                                  4
                                               130
                                                            172
                                                                                     0
                                  2
## 35
          43
               0
                                              150
                                                            186
                                                                                     0
## 36
                                  2
                                                                                     0
          32
               1
                                               125
                                                            254
                1
                                  4
                                                                                     1
## 37
          65
                                               140
                                                            306
## 38
          41
               0
                                  2
                                               110
                                                            250
                                                                                     0
```

## 39	48	0	2	120	177	1
## 40	48	0	4	150	227	0
## 41	54	0	2	150	230	0
## 42	54	0	3	130	294	0
## 43	35	1	2	150	264	0
## 44	52	1	3	140	259	0
## 45	43	1	4	120	175	0
## 46	59	1	3	130	318	0
## 47	37	1	4	120	223	0
## 48	50	1	2	140	216	0
## 49	36	1	3	112	340	0
## 50	41	1	4	110	289	0
## 51	50	1	4	130	233	0
## 52	47	0	4	120	205	0
## 53	45	1	2	140	224	1
## 54	41	0	2	130	245	0
## 55	52	0	4	130	180	0
## 56	51	0	2	160	194	0
## 57	31	1	4	120	270	0
## 58	58	1	3	130	213	0
## 59	54		4			
## 60		1		150	365	0
	52	1	4	112	342	0
## 61	49	1	2	100	253	0
## 62	43	0	3	150	254	0
## 63	45	1	4	140	224	0
## 64	46	1	4	120	277	0
## 65	50	0	2	110	202	0
## 66	37	0	2	120	260	0
## 67	45	0	4	132	297	0
## 68	32	1	2	110	225	0
## 69	52	1	4	160	246	0
## 70	44	1	4	150	412	0
## 71	57	1	2	140	265	0
## 72	44	1	2	130	215	0
## 73	52	1	4	120	182	0
## 74	44	0	4	120	218	0
## 75	55	1	4	140	268	0
## 76	46	1	3	150	163	0
## 77	32	1	4	118	529	0
## 78	35	0	4	140	167	0
## 79	52	1	2	140	100	0
## 80	49	1	4	130	206	0
## 81	55	1	3	110	277	0
## 82	54	1	2	120	238	0
## 83	63	1	4	150	223	0
## 84	52	1	2	160	196	0
## 85	56	1	4	150	213	1
## 86	66	1	4	140	139	0
## 87	65	1	4	170	263	1
## 88	53	0	2	140	216	0
ππ 00	23	U	2	140	210	0

## 89	43	1	1	120	291	0
## 90	55	1	4	140	229	0
## 91	49	0	2	110	208	0
## 92	39	1	4	130	307	0
## 93	52	0	2	120	210	0
## 94	48	1	4	160	329	0
## 95	39	0	3	110	182	0
## 96	58	1	4	130	263	0
## 97	43	1	2	142	207	0
## 98	39	1	3	160	147	1
## 99	56	1	4	120	85	0
## 100	41	1	2	125	269	0
## 101	65	1	4	130	275	0
## 102	51	1	4	130	179	0
## 103	40	0	4	150	392	0
## 104	40	1	4	120	466	1
## 105	46	1	4	118	186	0
## 106	57	1	2	140	260	1
## 107	48	0	4	120	254	0
## 107	34	1	2	150	214	0
## 100	50	1	4	140	129	0
## 109	39		2	190	241	
		1				0
	59	0	2	130	188	0
## 112	57 47	1	4	150	255	0
## 113	47	1	4	140	276	1
## 114	38	1	2	140	297	0
## 115	49	0	3	130	207	0
## 116	33	0	4	100	246	0
## 117	38	1	4	120	282	0
## 118	59	0	4	130	338	1
## 119	35	0	1	120	160	0
## 120	34	1	1	140	156	0
## 121	47	0	3	135	248	1
## 122	52	0	3	125	272	0
## 123	46	1	4	110	240	0
## 124	58	0	2	180	393	0
## 125	58	1	2	130	230	0
## 126	54	1	2	120	246	0
## 127	34	0	2	130	161	0
## 128	48	0	4	108	163	0
## 129	54	0	2	120	230	1
## 130	42	1	3	120	228	0
## 131	38	1	3	145	292	0
## 132	46	1	4	110	202	0
## 133	56	1	4	170	388	0
## 134	56	1	4	150	230	ø
## 135	61	0	4	130	294	ő
## 136	49	1	3	115	265	ø
## 137	43	0	2	120	215	0
## 138	39	1	2	120	241	0
ин т ЭО	55	_	2	120	4 71	0

## 139	54	1	4	140	166	0
## 140	43	1	4	150	247	0
## 141	52	1	4	160	331	0
## 142	50	1	4	140	341	0
## 143	47	1	4	160	291	0
## 144	53	1	4	140	243	0
## 145	56	0	2	120	279	0
## 146	39	1	4	110	273	0
## 147	42	1	2	120	198	0
## 148	43	0	2	120	249	0
## 149	50	1	2	120	168	0
## 150	54	1	4	130	603	1
## 151	39	1	2	130	215	0
## 152	48	1	2	100	159	0
## 153	40	1	2	130	275	0
## 154	55	1	4	120	270	0
## 155	41	1	2	120	291	0
## 156	56	1	4	155	342	1
## 157	38	1	4	110	190	0
## 158	49	1	4	140	185	0
## 159	44	1	4	130	290	0
## 160	54	1	2	160	195	0
## 161	59	1	4	140	264	1
## 161	49	1	4	128	212	0
## 162 ## 163	43 47	1		160	263	0
## 163	47 49		2			
		0	2	110	208	0
## 165	42	1	2	120	196	0
## 166	52	0	2	140	225	0
## 167	46	1	1	140	272	1
## 168	50	1	4	140	231	0
## 169	48	1	2	140	238	0
## 170	58	1	4	135	222	0
## 171	58	1	3	140	179	0
## 172	29	1	2	120	243	0
## 173	40	1	3	140	235	0
## 174	53	1	2	140	320	0
## 175	49	1	3	140	187	0
## 176	52	1	4	140	266	0
## 177	43	1	4	140	288	0
## 178	54	1	4	140	216	0
## 179	59	1	2	140	287	0
## 180	37	1	3	130	194	0
## 181	46	0	4	130	238	0
## 182	52	1	4	130	225	0
## 183	51	1	2	130	224	0
## 184	52	1	4	140	404	0
## 185	46	1	4	110	238	0
## 186	54	0	2	160	312	0
## 187	58	1	3	160	211	1
## 188	58	1	2	130	251	0

## 189	41	1	4	120	237	1
## 190	50	0	4	120	328	0
## 191	53	1	4	180	285	0
## 192	46	1	4	180	280	0
## 193	50	1	2	170	209	0
## 194	48	1	2	130	245	0
## 195	45	1	3	135	192	0
## 196	41	0	2	125	184	0
## 197	62	0	1	160	193	ø
## 198	49	1	4	120	297	ø
## 198	42	1	2	150	268	0
## 200	53	1	4	120	246	0
## 201	57	0	1	130	308	0
## 202	47	1	1	110	249	0
## 203	46	1	3	120	230	0
## 204	42	1	3	160	147	0
## 205	31	0	2	100	219	0
## 206	56	1	2	130	184	0
## 207	50	1	4	150	215	0
## 208	35	1	2	120	308	0
## 209	35	1	2	110	257	0
## 210	28	1	2	130	132	0
## 211	54	1	4	125	216	0
## 212	48	1	4	106	263	1
## 213	50	0	3	140	288	0
## 214	56	1	3	130	276	0
## 215	56	0	3	130	219	0
## 216	47	1	4	150	226	0
## 217	30	0	1	170	237	0
## 218	39	1	4	110	280	0
## 219	54	1	3	120	217	0
## 220	55	1	2	140	196	0
## 221	29	1	2	140	263	o o
## 222	46	1	4	130	222	0
## 222	51			160	303	
## 223	48	0	4			0
		0	3	120	195	0
## 225	33	1	3	120	298	0
## 226	55	1	2	120	256	1
## 227	50	1	4	145	264	0
## 228	53	1	3	120	195	0
## 229	38	1	4	92	117	0
## 230	41	1	2	120	295	0
## 231	37	0	4	130	173	0
## 232	37	1	4	130	315	0
## 233	40	1	3	130	281	0
## 234	38	0	2	120	275	0
## 235	41	1	4	112	250	0
## 236	54	0	2	140	309	0
## 237	39	1	2	120	200	0
## 238	41	1	4	120	336	0

## 239	55	1	1	140	295	0
## 240	48	1	4	160	355	0
## 241	48	1	4	160	193	0
## 242	55	1	2	145	326	0
## 243	54	1	4	200	198	0
## 244	55	1	2	160	292	1
## 245	43	0	2	120	266	0
## 246	48	1	4	160	268	0
## 247	54	1	1	120	171	0
## 248	54	1	3	120	237	0
## 249	48	1	4	122	275	1
## 250	45	1	4	130	219	0
## 251	49	1	4	130	341	0
## 252	44	1	4	135	491	0
## 253	48	1	4	120	260	0
## 254	61	1	4	125	292	0
## 255	62	1	2	140	271	0
## 256	55	1	4	145	248	0
## 257	53	0	3	120	274	0
## 258	55	0	2	130	394	0
## 259	36	1	3	150	160	0
## 260	51	0	3	150	200	0
## 261	55	0	2	122	320	0
## 262	46	1	2	140	275	0
## 263	54	0	2	120	273	0
## 264	46	1	4	120	231	0
## 265	40 59	1	4	130	126	
## 265	59 47			140		0
		1	3		193	0
## 267	54	1	2	160	305	0
## 268	52	1	4	130	298	0
## 269	34	1	2	98	220	0
## 270	54	1	4	130	242	0
## 271	47	0	3	130	235	0
## 272	45	1	4	120	225	0
## 273	32	0	2	105	198	0
## 274	55	1	4	140	201	0
## 275	55	1	3	120	220	0
## 276	45	0	2	180	295	0
## 277	59	1	3	180	213	0
## 278	51	1	3	135	160	0
## 279	52	1	4	170	223	0
## 280	57	0	4	180	347	0
## 281	54	0	2	130	253	0
## 282	60	1	3	120	246	0
## 283	49	1	4	150	222	0
## 284	51	0	3	130	220	0
## 285	55	0	2	110	344	0
## 286	42	1	4	140	358	0
## 287	51	0	3	110	190	0
## 288	59	1	4	140	169	0

	289	53	1	2	120	181	0
##	290	48	0	2	133	308	0
	291	36	1	2	120	166	0
	292	48	1	3	110	211	0
##	293	47	0	2	140	257	0
##	294	53	1	4	130	182	0
##	418	63	1	4	140	260	0
##	419	44	1	4	130	209	0
##	420	60	1	4	132	218	0
##	421	55	1	4	142	228	0
##	422	66	1	3	110	213	1
##	424	65	1	4	150	236	1
##	427	60	1	2	160	267	1
##	428	56	1	2	126	166	0
##	433	62	1	4	120	220	0
##	434	63	1	4	170	177	0
##	435	46	1	4	110	236	0
##	445	60	1	4	130	186	1
##	446	56	1	4	120	100	0
##	447	55	1	3	136	228	0
##	449	77	1	4	124	171	0
	450	63	1	4	160	230	1
	454	60	1	4	140	281	0
	456	58	1	4	136	203	1
	462	57	1	4	139	277	1
	464	59	1	4	122	233	0
	467	42	1	3	134	240	0
	470	62	1	4	152	153	0
	471	56	1	2	124	224	1
	475	60	1	3	141	316	1
	478	51	1	4	132	218	1
	480	57	1	4	130	311	1
	484	67	1	1	142	270	1
	487	63	1	2	139	217	1
	488	55	1	2	110	214	1
	489	57	1	4	140	214	0
	490	65	1	1	140	252	0
	491	54	1	4	136	220	0
	492	72	1	3	120	214	0
	493	75	1	4	170	203	1
	495	51	1	3	137	339	0
	496	60	1	4	142	216	0
	497	64		4			
	497	58	0 1	4	142 132	276 458	0 1
	499	61	1	4	146	241	0
	500 501	67	1	4	160	384	1
	501	62 65	1	4	135	297	0
	502	65	1	4	136	248	0
	503	63	1	4	130	308	0
##	504	69	1	4	140	208	0

## 505	51	1	4	132	227	1
## 506	62	1	4	158	210	1
## 507	55	1	3	136	245	1
## 508	75	1	4	136	225	0
## 509	40	1	3	106	240	0
## 511	58	1	4	110	198	0
## 512	60	1	4	136	195	0
## 513	63	1	4	160	267	1
## 514	35	1	3	123	161	0
## 515	62	1	1	112	258	0
## 518	68	1	3	150	195	1
## 519	65	1	4	150	235	0
## 521	63	1	4	96	305	0
## 522	64	1	4	130	223	0
## 523	61	1	4	120	282	ø
## 524	50	1	4	144	349	0
## 525	59	1	4	124	160	0
## 526	55		4	150	160	0
		1				
	45 65	1	3	130	236	0
	65	1	4	144	312	0
## 529	61	1	2	139	283	0
## 530	49	1	3	131	142	0
## 531	72	1	4	143	211	0
## 532	50	1	4	133	218	0
## 533	64	1	4	143	306	1
## 534	55	1	4	116	186	1
## 535	63	1	4	110	252	0
## 536	59	1	4	125	222	0
## 539	74	1	4	150	258	1
## 540	54	1	4	130	202	1
## 541	57	1	4	110	197	0
## 542	62	1	3	138	204	0
## 543	76	1	3	104	113	0
## 544	54	0	4	138	274	0
## 545	70	1	4	170	192	0
## 546	61	0	2	140	298	1
## 547	48	1	4	132	272	0
## 548	48	1	3	132	220	1
## 549	61	1	1	142	200	1
## 550	66	1	4	112	261	9
## 551	68	1	1	139	181	1
## 552	55	1	4	172	260	0
## 553	62	1	3	120	220	0
## 554	71	1	3	144	221	0
## 555	71 74	1	1	145	216	1
## 556	74 53	1	3	145 155	175	1
## 557	58	1	3	150	219	0
## 558	75 56	1	4	160	310	1
## 559	56 50	1	3	137	208	1
## 560	58	1	3	137	232	0

## 561	64	1	4	134	273	0
## 562	54	1	3	133	203	0
## 563	54	1	2	132	182	0
## 564	59	1	4	140	274	0
## 565	55	1	4	135	204	1
## 566	57	1	4	144	270	1
## 567	61	1	4	141	292	0
## 568	41	1	4	150	171	0
## 569	71	1	4	130	221	0
## 570	38	1	4	110	289	0
## 571	55	1	4	158	217	0
## 572	56	1	4	128	223	0
## 573	69	1	4	140	110	1
## 574	64	1	4	150	193	0
## 575	72	1	4	160	123	1
## 576	69	1	4	142	210	1
## 577	56	1	4	137	282	1
## 578	62	1	4	139	170	0
## 579	67	1	4	146	369	0
## 580	57	1	4	156	173	0
## 581	69	1	4	145	289	1
## 582	51	1	4	131	152	1
## 583	48	1	4	140	208	0
## 584	69	1	4	122	216	1
## 585	69	1	3	142	271	0
## 586	64			142	244	
## 587	57	1	4 2	180	285	1
## 588	53	1	4		243	1
## 589		1		124		0
## 599	37 67	1	3 4	118	240	0
## 590	67	1		140	219	0
	74	1	3	140	237	1
## 592	63	1	2	136	165	0
## 593	58	1	4	100	213	0
## 594	61	1	4	190	287	1
## 595	64	1	4	130	258	1
## 596	58	1	4	160	256	1
## 597	60	1	4	130	186	1
## 598	57	1	4	122	264	0
## 599	55	1	3	133	185	0
## 600	55	1	4	120	226	0
## 601	56	1	4	130	203	1
## 602	57	1	4	130	207	0
## 603	61	1	3	140	284	0
## 604	61	1	3	120	337	0
## 605	58	1	3	150	219	0
## 606	74	1	4	155	310	0
## 607	68	1	3	134	254	1
## 608	51	0	4	114	258	1
## 609	62	1	4	160	254	1
## 610	53	1	4	144	300	1

## 611	62	1	4		158	170	0
## 612	46	1	4		134	310	0
## 613	54	0	4		127	333	1
## 614	62	1	1		135	139	0
## 615	55	1	4	1	122	223	1
## 616	58	1	4	1	140	385	1
## 617	62	1	2	1	120	254	0
## 618	70	1	4	1	130	322	0
## 619	67	0	3	1	115	564	0
## 620	57	1	2	1	124	261	0
## 621	64	1	4		128	263	0
## 622	74	0	2		120	269	0
## 623	65	1	4		120	177	0
## 624	56	1	3		130	256	1
## 625	59	1	4		110	239	0
## 626	60	1	4		L40	293	0
## 627	63	0	4			407	0
## 628	59	1	4		135	234	0
## 629	53	1	4		142	226	0
## 630	44	1	3		140	235	0
## 631	61	1	1		134	234	0
## 632	57	0	4		128	303	0
## 633	71	0	4		112	149	0
## 634	46	1	4		140	311	0
## 635	53	1	4		140 140	203	1
						211	
	64	1	1		110		0
## 637	40	1	1		140	199	0
## 638	67	1	4		120	229	0
## 639	48	1	2		130	245	0
## 640	43	1	4		115	303	0
## 641	47	1	4		112	204	0
## 642	54	0	2		132	288	1
## 643	48	0	3		130	275	0
## 644	46	0	4		138	243	0
## 645	51	0	3		120	295	0
## 646	58	1	3		112	230	0
## 647	71	0	3		110	265	1
## 648	57	1	3		128	229	0
## 649	66	1	4		160	228	0
## 650	37	0	3	1	120	215	0
## 651	59	1	4	1	170	326	0
## 652	50	1	4		L44	200	0
## 653	48	1	4		130	256	1
## 654	61	1	4	1	140	207	0
## 655	59	1	1	1	160	273	0
## 656	42	1	3	1	130	180	0
## 657	48	1	4	1	122	222	0
## 658	40	1	4	1	152	223	0
## 659	62	0	4	1	124	209	0
## 660	44	1	3		130	233	0

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	661	46	1	2	101	197	1
##		59	1	3	126	218	1
##	663	58	1	3	140	211	1
##	664	49	1	3	118	149	0
##	665	44	1	4	110	197	0
##	666	66	1	2	160	246	0
##	667	65	0	4	150	225	0
##	668	42	1	4	136	315	0
##	669	52	1	2	128	205	1
		65	0	3	140	417	1
##	671	63	0	2	140	195	0
##	672	45	0	2	130	234	0
##	673	41	0	2	105	198	0
##	674	61	1	4	138	166	0
##	675	60	0	3	120	178	1
	676	59	0	4	174	249	0
##		62	1	2	120	281	0
##	678	57	1	3	150	126	1
##	679	51	0	4	130	305	0
##	680	44			120	226	
			1	3			0
##	681	60	0	1	150	240	0
##	682	63	1	1	145	233	1
##	683	57	1	4	150	276	0
##	684	51	1	4	140	261	0
##	685	58	0	2	136	319	1
##	686	44	0	3	118	242	0
##	687	47	1	3	108	243	0
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##	689	57	0	4	120	354	0
##	690	70	1	2	156	245	0
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##	692	67	0	4	106	223	0
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	699	35	1	4	120	198	0
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	702	42	1	1	148	244	0
	704	62	1	2	128	208	1
	70 4 705	59	1	1	178	270	0
	705 706	59 41	0	2	126		0
						306	
	707	50	1	4	150	243	0
	708	59	1	2	140	221	0
	709	61	0	4	130	330	0
##	710	54	1	4	124	266	0

## 711	54	1	4			206	0
## 712	52	1	4	12	25	212	0
## 713	47	1	4			275	0
## 714	66	1	4			302	0
## 715	58	1	4	16	90	234	0
## 716	64	0	3	14	40	313	0
## 717	50	0	2	12	20	244	0
## 718	44	0	3	16	98	141	0
## 719	67	1	4	12	20	237	0
## 720	49	0	4	13	30	269	0
## 721	57	1	4	16	55	289	1
## 722	63	1	4	13	30	254	0
## 723	48	1	4	12	24	274	0
## 724	51	1	3	16	90	222	0
## 725	60	0	4	15	50	258	0
## 726	59	1	4	14	40	177	0
## 727	45	0	2	11	12	160	0
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## 729	41	1	2	11	10	235	0
## 730	60	0	4	15	58	305	0
## 731	54	0	3	13	35	304	1
## 732	42	1	2	12	20	295	0
## 733	49	0	2	13	34	271	0
## 734	46	1	4	12	20	249	0
## 735	56	0	4	26	90	288	1
## 736	66	0	1	15	50	226	0
## 737	56	1	4	13	30	283	1
## 738	49	1	3	12	20	188	0
## 739	54	1	4	12	22	286	0
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## 751	64	1	4	12	20	246	0
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## 754	67	0	3			277	0
## 755	56	1	4			249	1
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			_				

	761	51	1	1	125	213	0
	762	54	1	2	192	283	0
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##	766	58	1	3	132	224	0
##	767	41	0	3	112	268	0
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##	769	50	0	3	120	219	0
##	770	54	0	3	108	267	0
##	771	64	0	4	130	303	0
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##	773	46	0	2	105	204	0
##	774	55	1	4	140	217	0
##	775	45	1	2	128	308	0
##	776	56	1	1	120	193	0
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##	781	58	1	4	128	259	0
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##	800	41	1	4	110	172	0
##	801	42	0	4	102	265	0
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## 8		35	1	4	126	282	0
## 8	12	48	1	3	124	255	1
## 8	13	55	0	2	135	250	0
## 8	14	58	0	4	100	248	0
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## 8		58	1	4	125	300	0
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## 8		60	0	3	102	318	0
## 8		58	1	3	105	240	0
## 8		64	1	3	125	309	0
## 8		37	1	3	130	250	0
## 8		59	1	1	170	288	0
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## 8	30	43	0	3	122	213	0
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## 8	32	29	1	2	130	204	0
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## 8	34	63	0	3	135	252	0
## 8		51	1	3	94	227	0
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## 8		35	0	4	138	183	0
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## 8		58	0	1	150	283	1
## 8		52	1	1		186	
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## 8		39	1	3	140	321	0
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## 863	60	1	4	130	253	0
## 864	65	1	4	110	248	0
## 865	65	0	3	155	269	0
## 866	60	1	3	140	185	0
## 867	60	1	4	145	282	0
## 868	54	1	4	120	188	0
## 869	44	1	2	130	219	0
## 870	44	1	4	112	290	0
## 871	51	1	3	110	175	0
## 872	59	1	3	150	212	1
## 873	71	0	2	160	302	0
## 874	61	1	3	150	243	1
## 875	55	1	4	132	353	0
## 876	64	1	3	140	335	0
## 877	43	1	4	150	247	0
## 878	58	0	3	120	340	0
## 879	60	1	4	130	206	0
## 880	58	1	2	120	284	0
## 881	49	1	2	130	266	0
## 882	48	1	2	110	229	0
## 883	52	1	3	172	199	1
## 884	44	1	2	120	263	0
## 885	56	0	2	140	203 294	0
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## 887	67	1	4	160	286	
## 888	63					0
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## 889	67 67	1	4	160	286	0
## 890	67	1	4	120	229	0
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## 892	41	0	2	130	204	0
## 893	56	1	2	120	236	0
## 894	62	0	4	140	268	0
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## 896	63	1	4	130	254	0
## 897	53	1	4	140	203	1
## 898	57	1	4	140	192	0
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## 901	44	1	2	120	263	0
## 902	52	1	3	172	199	1
## 903	57	1	3	150	168	0
## 904	48	1	2	110	229	0
## 905	54	1	4	140	239	0
## 906	48	0	3	130	275	0
## 907	49	1	2	130	266	0
## 908	64	1	1	110	211	0
## 909	58	0	1	150	283	1
## 910	58	1	2	120	284	0

## 911		1	3	132	224	0
## 912		1	4	130	206	0
## 913	50	0	3	120	219	0
## 914	- 58	0	3	120	340	0
## 915	66	0	1	150	226	0
## 916	43	1	4	150	247	0
## 917	40	1	4	110	167	0
## 918	69	0	1	140	239	0
## 919	60	1	4	117	230	1
## 920		1	3	140	335	0
## 921		1	4	135	234	0
## 922		1	3	130	233	0
## 923		1	4	140	226	0
## 924		1	4	120	177	0
## 925		1	4	150	276	0
## 926		1	4	132	353	0
## 927		1	3	150	243	1
## 928		0	4	150	225	0
## 929		1	1	140	199	0
## 936						
		0	2	160	302	0
## 931		1	3	150	212	1
## 932		0	4	130	330	0
## 933		1	3	112	230	0
## 934		1	3	110	175	0
## 935		1	4	150	243	0
## 936		0	3	140	417	1
## 937		1	3	130	197	1
## 938		0	2	105	198	0
## 939		1	4	120	177	0
## 940		1	4	112	290	0
## 941	. 44	1	2	130	219	0
## 942	60	1	4	130	253	0
## 943	54	1	4	124	266	0
## 944	50	1	3	140	233	0
## 945	41	1	4	110	172	0
## 946	54	1	3	125	273	0
## 947	51	1	1	125	213	0
## 948	51	0	4	130	305	0
## 949	46	0	3	142	177	0
## 950		1	4	128	216	0
## 951		0	3	135	304	1
## 952		1	4	120	188	0
## 953		1	4	145	282	0
## 954		1	3	140	185	0
## 955		1	3	150	232	0
## 956		1	4	170	326	0
## 957		1	3	150	231	0
## 958		0	3	155	269	0
## 959		1	3 4	125	269 254	1
## 960		1	4	120	254 267	0
## 506	02	Т	4	120	207	0

		_				_
## 961	65	1	4	110	248	0
## 962	44	1	4	110	197	0
## 963	65	0	3	160	360	0
## 964	60	1	4	125	258	0
## 965	51	0	3	140	308	0
## 966	48	1	2	130	245	0
## 967	58	1	4	150	270	0
## 968	45	1	4	104	208	0
## 969	53	0	4	130	264	0
## 970	39	1	3	140	321	0
## 971	68	1	3	180	274	1
## 972	52	1	2	120	325	0
## 973	44	1	3	140	235	0
## 974	47	1	3	138	257	0
## 975	53	0	3	128	216	0
## 976	53	0	4	138	234	0
## 977	51	0	3	130	256	0
## 978	66	1	4	120	302	0
## 979	62	0	4	160	164	0
## 980	62	1	3	130	231	0
## 981	44	0	3	108	141	0
## 982	63	0	3	135	252	0
## 983	52	1	4	128	255	0
## 984	59	1	4	110	239	0
## 985	60	0	4	150	258	0
## 986	52	1	2	134	201	0
## 987	48	1	4	122	222	0
## 988	45	1	4	115	260	0
## 989	34	1	1	118	182	0
## 990	57	0	4	128	303	ø
## 991	71	0	3	110	265	1
## 992	49	1	3	120	188	0
## 993	54	1	2	108	309	0
## 994	59	1	4	140	177	0
## 995	57	1	3	128	229	0
## 996	61	1	4	120	260	0
## 997	39	1	4	118	219	0
## 998	61	0	4	145	307	0
## 999	56	1	4	125	249	1
## 1000	52	1	1	118	186	0
## 1000	43	0	4	132	341	1
## 1001	62			130	263	
## 1002	62 41	0 1	3 2	135	203	0
## 1003	41 58			135 140	203 211	0
		1	3			1
## 1005	35 63	0	4	138	183	0
## 1006	63	1	4	130	330	1
## 1007	65 48	1	4	135	254	0
## 1008	48	1	4	130	256	1
## 1009	63 51	0	4	150	407	0
## 1010	51	1	3	100	222	0

## 1011	55	1	4	140	217	0
## 1012	65	1	1	138	282	1
## 1013	45	0	2	130	234	0
## 1014	56	0	4	200	288	1
## 1015	54	1	4	110	239	0
## 1016	44	1	2	120	220	0
## 1017	62	0	4	124	209	0
## 1018	54	1	3	120	258	0
## 1019	51	1	3	94	227	0
## 1020	29	1	2	130	204	0
## 1021	51	1	4	140	261	0
## 1022	43	0	3	122	213	0
## 1023	55	0	2	135	250	ø
## 1023	70	1	4	145	174	0
## 1024	62			120	281	
		1	2			0
## 1026	35	1	4	120	198	0
## 1027	51	1	3	125	245	1
## 1028	59	1	2	140	221	0
## 1029	59	1	1	170	288	0
## 1030	52	1	2	128	205	1
## 1031	64	1	3	125	309	0
## 1032	58	1	3	105	240	0
## 1033	47	1	3	108	243	0
## 1034	57	1	4	165	289	1
## 1035	41	1	3	112	250	0
## 1036	45	1	2	128	308	0
## 1037	60	0	3	102	318	0
## 1038	52	1	1	152	298	1
## 1039	42	0	4	102	265	0
## 1040	67	0	3	115	564	0
## 1041	55	1	4	160	289	0
## 1042	64	1	4	120	246	0
## 1043	70	1	4	130	322	ő
## 1043	51	1	4	140	299	0
## 1044	58			125	300	
		1	4			0
## 1046	60	1	4	140	293	0
## 1047	68	1	3	118	277	0
## 1048	46	1	2	101	197	1
## 1049	77	1	4	125	304	0
## 1050	54	0	3	110	214	0
## 1051	58	0	4	100	248	0
## 1052	48	1	3	124	255	1
## 1053	57	1	4	132	207	0
## 1054	52	1	3	138	223	0
## 1055	54	0	2	132	288	1
## 1056	35	1	4	126	282	0
## 1057	45	0	2	112	160	0
## 1058	70	1	3	160	269	0
## 1059	53	1	4	142	226	0
## 1060	59	0	4	174	249	0
500		_		=- •		J

	1061	62	0	4		140	394	0
##	1062	64	1	4	4	145	212	0
##	1063	57	1	4	4	152	274	0
##	1064	52	1	4	1	108	233	1
##	1065	56	1	4	4	132	184	0
	1066	43	1		3	130	315	0
	1067	53	1		3	130	246	1
	1068	48	1	2		124	274	0
	1069							
		56	0	4		134	409	0
	1070	42	1	1		148	244	0
	1071	59	1	1		178	270	0
##	1072	60	0	4		158	305	0
##	1073	63	0	2	2	140	195	0
##	1074	42	1	3	3	120	240	1
##	1075	66	1	2	2	160	246	0
##	1076	54	1	2	2	192	283	0
##	1077	69	1		3	140	254	0
	1078	50	1		3	129	196	0
	1079	51	1	2		140	298	0
	1080	43	1	4		132	247	1
	1081	62	0			138	294	1
	1081							
		68	0		3	120	211	0
	1083	67	1	4		100	299	0
	1084	69	1	1		160	234	1
	1085	45	0	2		138	236	0
	1086	50	0	2	2	120	244	0
##	1087	59	1	1	l	160	273	0
##	1088	50	0	4	1	110	254	0
##	1089	64	0	4	4	180	325	0
##	1090	57	1	3	3	150	126	1
##	1091	64	0		3	140	313	0
	1092	43	1	4		110	211	0
	1093	45	1	4		142	309	0
	1094	58	1	4		128	259	0
	1095	50		4		144	200	0
	1096	55	1					
			1		2	130	262	0
	1097	62	0	4		150	244	0
	1098	37	0	3		120	215	0
	1099	38	1		1	120	231	0
	1100	41	1		3	130	214	0
##	1101	66	0	4	4	178	228	1
##	1102	52	1	4	1	112	230	0
##	1103	56	1	1	l	120	193	0
##	1104	46	0		2	105	204	0
	1105	46	0	4		138	243	0
	1106	64	0	4		130	303	0
	1107	59	1			138	271	0
	1108	41	0	3		112	268	0
	1100	54	0			108	267	
					3			0
##	1110	39	0	3	3	94	199	Ø

## 1111	53	1	4	123	282	0
## 1112	63	0	4	108	269	0
## 1113	34	0	2	118	210	0
## 1114	47	1	4	112	204	0
## 1115	67	0	3	152	277	0
## 1116	54	1	4	110	206	0
## 1117	66	1	4	112	212	0
## 1118	52	0	3	136	196	0
## 1119	55	0	4	180	327	0
## 1120	49	1	3	118	149	0
## 1121	74	0	2	120	269	0
## 1122	54	0	3	160	201	0
## 1123	54	1	4	122	286	0
## 1124	56	1	4	130	283	1
## 1125	46	1	4	120	249	0
## 1125	49				271	
		0	2	134		0
## 1127	42	1	2	120	295	0
## 1128	41	1	2	110	235	0
## 1129	41	0	2	126	306	0
## 1130	49	0	4	130	269	0
## 1131	61	1	1	134	234	0
## 1132	60	0	3	120	178	1
## 1133	67	1	4	120	237	0
## 1134	58	1	4	100	234	0
## 1135	47	1	4	110	275	0
## 1136	52	1	4	125	212	0
## 1137	62	1	2	128	208	1
## 1138	57	1	4	110	201	0
## 1139	58	1	4	146	218	0
## 1140	64	1	4	128	263	0
## 1141	51	0	3	120	295	0
## 1142	43	1	4	115	303	0
## 1143	42	0	3	120	209	0
## 1144	67	0	4	106	223	0
## 1145	76	0	3	140	197	0
## 1146	70	1	2	156	245	0
## 1147	57	1	2	124	261	0
## 1147	44	0	3	118	242	0
			2			
## 1149	58	0		136	319	1
## 1150	60	0	1	150	240	0
## 1151	44	1	3	120	226	0
## 1152	61	1	4	138	166	0
## 1153	42	1	4	136	315	0
## 1154	52	1	4	128	204	1
## 1155	59	1	3	126	218	1
## 1156	40	1	4	152	223	0
## 1157	42	1	3	130	180	0
## 1158	61	1	4	140	207	0
## 1159	66	1	4	160	228	0
## 1160	46	1	4	140	311	0

	1161	71	0	4	112	149		0
##	1162	59	1	1	134	204		0
##	1163	64	1	1	170	227		0
##	1164	66	0	3	146	278		0
##	1165	39	0	3	138	220		0
		57	1	2	154	232		0
	1167	58	0	4	130	197		ø
	1168	57	1	4	110	335		ø
		47		3	130	253		0
	1170		1					
		55 25	0	4	128	205		0
	1171	35	1	2	122	192		0
	1172	61	1	4	148	203		0
	1173	58	1	4	114	318		0
	1174	58	0	4	170	225		1
	1175	58	1	2	125	220		0
##	1176	56	1	2	130	221		0
##	1177	56	1	2	120	240		0
##	1178	67	1	3	152	212		0
##	1179	55	0	2	132	342		0
##	1180	44	1	4	120	169		0
##	1181	63	1	4	140	187		0
##	1182	63	0	4	124	197		0
	1183	41	1	2	120	157		0
	1184	59	1	4	164	176		1
	1185	57	0	4	140	241		0
	1186	45	1	1	110	264		0
	1187	68	1	4	144	193		1
	1188	57	1	4	130	131		0
	1189	57	0	2	130	236		0
##	1190	38	1	3	138	175		0
##	1100				exercise.angina		ST.slone	
	1		0	172	0	0.0	1	0
##	2		0	156	0	1.0	2	1
##				98	0	0.0	1	0
##			1 0	108	1		2	1
						1.5		
##			0	122	0	0.0	1	0
##			0	170	0	0.0	1	0
##			0	170	0	0.0	1	0
##			0	142	0		1	0
##			0	130	1	1.5	2	1
##			0	120	0	0.0	1	0
##			0	142	0	0.0	1	0
##			1	99	1	2.0	2	1
##			0	145	0	0.0	1	0
##			0	140	1	1.0	2	1
##			1	137	0	0.0	1	0
##			0	150	0	1.5	2	0
	17		0	166	0	0.0	2	1
##	18		0	165	0	0.0	1	0
##			0	125	0	1.0	2	1

##	20	0	160	0	3.0	2	1
	21	0	142	0	0.0	1	0
	22	0	142	0	1.0	2	0
	23	0	164	0	0.0	1	0
##	24	0	150	1	3.0	2	1
##	25	0	138	0	0.0	1	0
	26	0	178	0	0.0	1	0
##							
		1	112	1	3.0	2	0
	28	0	118	0	0.0	1	0
##	29	0	127	0	0.0	1	0
##	30	0	145	0	0.0	1	0
##	31	0	130	0	0.0	2	1
	32	0	114	0	0.0	1	0
##		0	122	0	2.0	2	1
##		1	130	0	2.0	2	1
	35	0	154	0	0.0	1	0
##	36	0	155	0	0.0	1	0
##	37	0	87	1	1.5	2	1
	38	1	142	0	0.0	1	0
##		1	148	0	0.0	1	0
##		0	130	1	1.0	2	0
##		0	130	0	0.0	1	0
##		1	100	1	0.0	2	1
##	43	0	168	0	0.0	1	0
##	44	1	170	0	0.0	1	0
##	45	0	120	1	1.0	2	1
##		0	120	1	1.0	2	0
##		0	168	0	0.0	1	0
##		0	170	0	0.0	1	0
	49	0	184	0	1.0	2	0
##	50	0	170	0	0.0	2	1
##	51	0	121	1	2.0	2	1
##	52	0	98	1	2.0	2	1
##		0	122	0	0.0	1	0
	54	0	150	0	0.0	1	0
##		0	140	1	1.5	2	0
##		0	170	0	0.0	1	0
	57	0	153	1	1.5	2	1
##	58	1	140	0	0.0	2	1
##	59	1	134	0	1.0	1	0
##		1	96	1	1.0	2	1
##		0	174	0	0.0	1	0
##		0	175	0	0.0	1	0
	63	0	144	0	0.0	1	0
##	64	0	125	1	1.0	2	1
##	65	0	145	0	0.0	1	0
	66	0	130	0	0.0	1	0
##		0	144	0	0.0	1	0
##		0	184	0	0.0	1	0
##	69	1	82	1	4.0	2	1

##		0	170	0	0.0	1	0
##	71	1	145	1	1.0	2	1
##	72	0	135	0	0.0	1	0
##	73	0	150	0	0.0	2	1
##	74	1	115	0	0.0	1	0
##		0	128	1	1.5	2	1
##		0	116	0	0.0	1	0
##		0	130	0	0.0	2	1
	78	0	150	0	0.0	1	0
##		0	138	1	0.0	1	0
##			170			2	
		0		0	0.0		1
	81	0	160	0	0.0	1	0
	82	0	154	0	0.0	1	0
##		0	115	0	0.0	2	1
##		0	165	0	0.0	1	0
##		0	125	1	1.0	2	1
##		0	94	1	1.0	2	1
##	87	0	112	1	2.0	2	1
##	88	0	142	1	2.0	2	0
##	89	1	155	0	0.0	2	1
##	90	0	110	1	0.5	2	0
##	91	0	160	0	0.0	1	0
##	92	0	140	0	0.0	1	0
##	93	0	148	0	0.0	1	0
##		0	92	1	1.5	2	1
##		1	180	0	0.0	1	0
##		0	140	1	2.0	2	1
##		0	138	0	0.0	1	0
##		0	160	0	0.0	1	0
##		0	140	0	0.0	1	0
	100	0	144	0	0.0	1	0
	101	1	115	1	1.0	2	1
	102	0	100	0	0.0	1	0
	103	0	130	0	2.0	2	1
	104	0	152	1	1.0	2	1
	105	0	124	0	0.0	2	1
	106	0	140	0	0.0	1	0
	107	1	110	0	0.0	1	0
	108	1	168	0	0.0	1	0
	109	0	135	0	0.0	1	0
	110	0	106	0	0.0	1	0
	111	0	124	0	1.0	2	0
	112	0	92	1	3.0	2	1
	113	0	125	1	0.0	1	0
	114	0	150	0	0.0	1	0
	115	1	135	0	0.0	1	0
	116	0	150	1	1.0	2	1
##	117	0	170	0	0.0	2	1
	118	1	130	1	1.5	2	1
##	119	1	185	0	0.0	1	0

##	120	0	180	0	0.0	2	1
##	121	0	170	0	0.0	2	1
	122	0	139	0	0.0	1	0
	123	1	140	0	0.0	1	0
	124	0	110	1	1.0	2	1
	125	0	150	0	0.0	1	0
	126	0	110	0	0.0	1	0
	127	0	190	0	0.0	1	0
	128	0	175	0	2.0	1	0
	129	0	140	0	0.0	1	0
##	130	0	152	1	1.5	2	0
##	131	0	130	0	0.0	1	0
##	132	0	150	1	0.0	2	1
##	133	1	122	1	2.0	2	1
##	134	1	124	1	1.5	2	1
	135	1	120	1	1.0	2	0
	136	0	175	0	0.0	2	1
	137	1	175	0	0.0	1	0
	138	1	146	0	2.0	1	0
	139	0	118	1	0.0	2	1
	140		130			2	1
	141	0	94	1	2.0	2	
		0		1	2.5		1
	142	1	125	1	2.5	2	1
	143	1	158	1	3.0	2	1
	144	0	155	0	0.0	1	0
	145	0	150	0	1.0	2	1
	146	0	132	0	0.0	1	0
	147	0	155	0	0.0	1	0
	148	1	176	0	0.0	1	0
	149	0	160	0	0.0	1	0
##	150	0	125	1	1.0	2	1
##	151	0	120	0	0.0	1	0
##	152	0	100	0	0.0	1	0
##	153	0	150	0	0.0	1	0
##	154	0	140	0	0.0	1	0
	155	1	160	0	0.0	1	0
	156	0	150	1	3.0	2	1
	157	0	150	1	1.0	2	1
	158	0	130	0	0.0	1	0
	159	0	100	1	2.0	2	1
	160	1	130	0	1.0	1	0
	161	2	119	1	0.0	2	1
	162	0	96	1	0.0	2	1
	163	0	174	0	0.0	1	0
	164						
		0	160	0	0.0	1	0
	165	0	150	0	0.0	1	0
	166	0	140	0	0.0	1	0
	167	0	175	0	2.0	2	1
	168	1	140	1	5.0	2	1
##	169	0	118	0	0.0	1	0

##	170	0	100	0	0.0	1	0
##	171	0	160	0	0.0	1	0
	172	0	160	0	0.0	1	0
	173	0	188	0	0.0	1	0
	174	0	162	0	0.0	1	0
	175	0	172	0	0.0	1	0
##	176	0	134	1	2.0	2	1
##	177	0	135	1	2.0	2	1
##	178	0	105	0	1.5	2	1
	179	0	150	0	0.0	1	0
	180	0	150	0	0.0	1	0
	181	0	90	0	0.0	1	0
	182	0	120	1	2.0	2	1
	183	0	150	0	0.0	1	0
##	184	0	124	1	2.0	2	1
##	185	1	140	1	1.0	2	0
##	186	0	130	0	0.0	1	0
	187	1	92	0	0.0	2	1
	188	0	110	0	0.0	1	0
	189	0	138	1	1.0	2	1
	190					2	
		0	110	1	1.0		0
	191	1	120	1	1.5	2	1
	192	1	120	0	0.0	1	0
	193	1	116	0	0.0	1	0
##	194	0	160	0	0.0	1	0
##	195	0	110	0	0.0	1	0
##	196	0	180	0	0.0	1	0
##	197	0	116	0	0.0	1	0
##	198	0	132	0	1.0	2	0
	199	0	136	0	0.0	1	0
	200	0	116	1	0.0	2	1
	201	0	98	0	1.0	2	0
	202	0	150	0	0.0	1	0
	203	0	150	0	0.0	1	0
	204	0	146	0	0.0	1	0
	205	1	150	0	0.0	1	0
##	206	0	100	0	0.0	1	0
##	207	0	140	1	0.0	1	0
##	208	2	180	0	0.0	1	0
	209	0	140	0	0.0	2	1
	210	2	185	0	0.0	_ 1	0
	211	0	140	0	0.0	2	1
	212	0	110	0	0.0	2	1
	212		140	1		2	
		0			0.0		1
	214	0	128	1	1.0	1	0
	215	1	164	0	0.0	1	0
	216	0	98	1	1.5	2	1
	217	1	170	0	0.0	1	0
##	218	0	150	0	0.0	2	1
##	219	0	137	0	0.0	1	0

##	220	0	150	0	0.0	1	0
##	221	0	170	0	0.0	1	0
	222	0	112	0	0.0	2	1
	223	0	150	1	1.0	2	_ 1
	224	0	125	0	0.0	1	0
	225	0	185	0	0.0	1	0
	226		137	0		1	
		0			0.0		0
	227	0	150	0	0.0	2	1
	228	0	140	0	0.0	1	0
	229	0	134	1	2.5	2	1
	230	0	170	0	0.0	1	0
	231	1	184	0	0.0	1	0
	232	0	158	0	0.0	1	0
	233	0	167	0	0.0	1	0
##	234	0	129	0	0.0	1	0
##	235	0	142	0	0.0	1	0
##	236	1	140	0	0.0	1	0
##	237	0	160	1	1.0	2	0
##	238	0	118	1	3.0	2	1
	239	0	136	0	0.0	2	1
	240	0	99	1	2.0	2	1
	241	0	102	1	3.0	2	1
	242	0	155	0	0.0	1	0
	243	0	142	1	2.0	2	1
	244	0	143	1	2.0	2	1
	245	0	118	0	0.0	1	0
	246	0	103	1	1.0	2	1
	247	0	137	0	2.0	1	0
	248	0	150	1	1.5	2	1
	249	1	150	1	2.0	3	1
	250	1	130	1	1.0	2	1
	251	0	120	1	1.0	2	1
	252	0	135	0	0.0	2	1
	253	0	115	0	2.0	2	1
	254	1	115	1	0.0	1	0
	255	0	152	0	1.0	1	0
	256	0	96	1	2.0	2	1
	257	0	130	0	0.0	1	0
	258	2	150	0	0.0	1	0
	259	0	172	0	0.0	1	0
	260	0	120	0	0.5	1	0
##	261	0	155	0	0.0	1	0
##	262	0	165	1	0.0	1	0
##	263	0	138	0	1.0	1	0
##	264	0	115	1	0.0	2	1
	265	0	125	0	0.0	2	1
	266	0	145	1	1.0	2	1
	267	0	175	0	0.0	1	0
	268	0	110	1	1.0	2	1
	269	0	150	0	0.0	1	0
	-		-	-	-		

##	270	0	91	1	1.0	2	1
##	271	0	145	0	2.0	2	0
	272	0	140	0	0.0	1	0
	273	0	165	0	0.0	1	0
##	274	0	130	1	3.0	2	1
##	275	2	134	0	0.0	1	0
##	276	0	180	0	0.0	1	0
	277	0	100	0	0.0	1	0
	278	0	150	0	2.0	2	1
	279	0	126	1	1.5	2	1
	280	1	126	1	0.8	2	0
##	281	1	155	0	0.0	1	0
##	282	2	135	0	0.0	1	0
##	283	0	122	0	2.0	2	1
##	284	0	160	1	2.0	1	0
	285	1	160	0	0.0	1	0
	286	0	170	0	0.0	1	0
	287	0	120	0	0.0	1	0
	288	0	140	0	0.0	1	0
	289	0	132	0	0.0	1	0
##	290	1	156	0	2.0	1	0
##	291	0	180	0	0.0	1	0
##	292	0	138	0	0.0	1	0
##	293	0	135	0	1.0	1	0
##	294	0	148	0	0.0	1	0
	418	1	112	1	3.0	2	1
	419	1	127	0	0.0	1	0
	420	1	140	1	1.5	3	1
	421	1	149	1	2.5	1	1
	422		99				
		2		1	1.3	2	0
	424	1	105	1	0.0	2	1
	427	1	157	0	0.5	2	1
##	428	1	140	0	0.0	1	0
##	433	1	86	0	0.0	1	0
##	434	0	84	1	2.5	3	1
	435	0	125	1	2.0	2	1
	445	1	140	1	0.5	2	1
	446	0	120	1	1.5	2	1
	447	1	124	1	1.6	2	1
	449						
		1	110	1	2.0	1	1
	450	0	105	1	1.0	2	1
	454	1	118	1	1.5	2	1
	456	0	123	1	1.2	2	1
	462	1	118	1	1.9	2	1
##	464	0	117	1	1.3	3	1
##	467	0	160	0	0.0	1	0
##	470	1	97	1	1.6	1	1
	471	0	161	0	2.0	2	0
	475	1	122	1	1.7	2	1
	478	2	139	0	0.1	1	0
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##	480	1	148	1	2.0	2	1
	484	0	125	0	2.5	1	1
	487	1	128	1	1.2	2	1
##	488	1	180	0	0.4	1	0
##	489	1	144	1	2.0	2	1
	490	0	135	0	0.3	1	0
	491	_					
		0	140	1	3.0	2	1
	492	0	102	1	1.0	2	1
##	493	1	108	0	0.0	2	1
##	495	0	127	1	1.7	2	1
	496	0	110	1	2.5	2	1
	497		140				
		0		1	1.0	2	1
	498	0	69	0	1.0	3	0
##	499	0	148	1	3.0	3	1
##	500	1	130	1	0.0	2	1
	501	0	130	1	1.0	2	1
	502	0	140	1	4.0	3	1
	503	0	138	1	2.0	2	1
	504	1	140	1	2.0	2	1
##	505	1	138	0	0.2	1	0
##	506	0	112	1	3.0	3	1
##	507	1	131	1	1.2	2	1
	508	0	112	1	3.0	2	1
	509	0	80	1	0.0	_ 1	0
	511	0	110	0	0.0	2	1
	512	0	126	0	0.3	1	0
	513	1	88	1	2.0	2	1
	514	1	153		-0.1	1	0
	515	1	150	1	1.3	2	1
	518	0	132	0	0.0	0	1
##	519	0	120	1	1.5	2	1
##	521	1	121	1	1.0	1	1
##	522	1	128	0	0.5	2	0
	523	1	135	1	4.0	3	1
	524	2	120	1		1	
					1.0		1
	525	0	117	1	1.0	2	1
	526	1	150	0	0.0	1	0
##	527	0	144	0	0.1	1	0
##	528	2	113	1	1.7	2	1
##	529	0	135	0	0.3	1	0
##	530	0	127	1	1.5	2	1
	531	0	109	1	1.4	2	1
	532	0	128	1	1.1	2	1
	533	1	115	1	1.8	2	1
	534	1	102	0	0.0	2	1
	535	1	140	1	2.0	2	1
	536	0	135	1	2.5	3	1
	539	1	130	1	4.0	3	1
	540	0	112	1	2.0	2	1
##	541	2	100	0	0.0	1	0

##	542	1	122	1	1.2	2	1
##	543	2	120	0	3.5	3	1
	544	0	105	1	1.5	2	1
	545	1	129	1	3.0	3	1
	546	0	120	1	0.0	1	0
##	547	1	139	0	0.2	1	0
##	548	1	162	0	0.0	2	1
##	549	1	100	0	1.5	3	1
	550	0	140	0	1.5	1	1
	551	1	135	0	0.2	1	0
	552	0	73	0	2.0	2	1
	553	2	86	0	0.0	1	0
##	554	0	108	1	1.8	2	1
##	555	0	116	1	1.8	2	1
	556	1	160	0	0.3	1	0
	557	1	118	1	0.0	2	1
	558	0	112	1	2.0	3	0
	559	1	122	1	1.8	2	1
	560	1	124	1	1.4	2	1
##	561	0	102	1	4.0	3	1
##	562	1	137	0	0.2	1	0
	563	1	141	0	0.1	1	0
	564	0	154	1	2.0	2	0
		_					
	565	1	126	1	1.1	2	1
	566	1	160	1	2.0	2	1
	567	1	115	1	1.7	2	1
##	568	0	128	1	1.5	2	0
##	569	1	115	1	0.0	2	1
##	570	0	105	1	1.5	3	1
	571	0	110	1	2.5	2	1
	572	1	119	1	2.0	3	1
	573	0	109	1	1.5	2	1
	574	1	135	1	0.5	2	1
	575	2	130	0	1.5	2	1
##	576	1	112	1	1.5	2	1
##	577	0	126	1	1.2	2	1
	578	1	120	1	3.0	2	1
	579	0	110	1	1.9	2	1
	580	2	119	1	3.0	3	1
	581	1	110	1	1.8	2	1
	582	2	130	1	1.0	2	1
	583	0	159	1	1.5	1	1
##	584	2	84	1	0.0	2	1
##	585	2	126	0	0.3	1	0
	586	1	116	1	1.5	2	1
	587	1	120	0	0.8	2	1
	588	0	122	1	2.0	2	1
	589	2	165	0	1.0	2	0
	590	1	122	1	2.0	2	1
##	591	0	94	0	0.0	2	1

##	592	1	133	0	0.2	1	0
	593	1	110	0	0.0	_ 1	0
	594	2	150	1	2.0	3	1
	595	2	130	0	0.0	2	1
##	596	2	113	1	1.0	1	1
##	597	2	140	1	0.5	2	1
	598	2	100	0	0.0	2	1
	599	1	136	0	0.2	1	0
	600						
		2	127	1	1.7	3	1
	601	0	98	0	1.5	2	1
	602	1	96	1	1.0	2	0
##	603	0	123	1	1.3	2	1
##	604	0	98	1	0.0	2	1
##	605	1	118	1	0.0	2	1
	606	0	112	1	1.5	3	1
	607	0	151	1	0.0	1	0
	608	2	96	0	1.0	1	0
	609	1	108	1	3.0	2	1
	610	1	128	1	1.5	2	1
##	611	1	138	1	0.0	2	1
##	612	0	126	0	0.0	2	1
##	613	1	154	0	0.0	2	1
	614	1	137	0	0.2	1	0
	615	1	100	0	0.0	2	1
	616	2	135	0	0.3	1	0
	617	2	93			2	1
				1	0.0		
	618	2	109	0	2.4	2	1
	619	2	160	0	1.6	2	0
	620	0	141	0	0.3	1	1
	621	0	105	1	0.2	2	0
##	622	2	121	1	0.2	1	0
##	623	0	140	0	0.4	1	0
	624	2	142	1	0.6	2	1
	625	2	142	1	1.2	2	1
			170	0	1.2		
	626	2				2	1
	627	2	154	0	4.0	2	1
	628	0	161	0	0.5	2	0
	629	2	111	1	0.0	1	0
##	630	2	180	0	0.0	1	0
##	631	0	145	0	2.6	2	1
	632	2	159	0	0.0	1	0
	633	0	125	0	1.6	2	0
	634	0	120	1	1.8	2	1
	635	2	155	1		3	
					3.1		1
	636	2	144	1	1.8	2	0
	637	0	178	1	1.4	1	0
	638	2	129	1	2.6	2	1
	639	2	180	0	0.2	2	0
##	640	0	181	0	1.2	2	0
##	641	0	143	0	0.1	1	0

##	642	2	159	1	0.0	1	0
##	643	0	139	0	0.2	1	0
##	644	2	152	1	0.0	2	0
	645	2	157	0	0.6	1	0
	646	2	165	0	2.5	2	1
	647	2	130	0	0.0	1	0
	648	2				2	
			150	0	0.4		1
	649	2	138	0	2.3	1	0
	650	0	170	0	0.0	1	0
	651	2	140	1	3.4	3	1
	652	2	126	1	0.9	2	1
	653	2	150	1	0.0	1	1
	654	2	138	1	1.9	1	1
##	655	2	125	0	0.0	1	1
##	656	0	150	0	0.0	1	0
##	657	2	186	0	0.0	1	0
##	658	0	181	0	0.0	1	1
##	659	0	163	0	0.0	1	0
	660	0	179	1	0.4	1	0
##	661	0	156	0	0.0	1	0
	662	0	134	0	2.2	2	1
	663	2	165	0	0.0	1	0
	664	2	126	0	0.8	1	1
	665	2	177	0	0.0	1	1
	666	0	120	1	0.0	2	1
	667	2	114	0	1.0	2	1
	668	0	125	1	1.8	2	1
	669	0	184	0	0.0	1	0
	670	2	157	0	0.8	1	0
	671	0	179	0	0.0	1	0
	672	2	175	0	0.6	2	0
	673		168			1	
	674	0		0	0.0		0
		2	125	1	3.6	2	1
	675	0	96	0	0.0	1	0
	676	0	143	1	0.0	2	1
	677	2	103	0	1.4	2	1
	678	0	173	0	0.2	1	0
	679	0	142	1	1.2	2	1
	680	0	169	0	0.0	1	0
	681	0	171	0	0.9	1	0
	682	2	150	0	2.3	3	0
	683	2	112	1	0.6	2	1
	684	2	186	1	0.0	1	0
	685	2	152	0	0.0	1	1
##	686	0	149	0	0.3	2	0
##	687	0	152	0	0.0	1	1
##	688	0	140	1	3.6	2	1
##	689	0	163	1	0.6	1	0
##	690	2	143	0	0.0	1	0
##	691	1	116	0	1.1	2	0

##	692	0	142	0	0.3	1	0
##	693	2	147	1	0.0	2	1
	694	2	148	1	3.0	2	0
	695	0	179	0	0.0	1	0
		_					
	696	0	173	0	0.0	2	0
	697	0	178	0	0.8	1	0
	698	0	105	0	2.0	2	1
##	699	0	130	1	1.6	2	1
##	700	2	111	1	0.8	1	1
##	701	2	168	0	2.0	2	0
##	702	0	126	1	1.5	2	0
	703	2	178	0	0.8	1	0
	704	2	140	0	0.0	1	0
	705	2	145	0	4.2	3	0
	706	0	163	0	0.0	1	0
	707	2	128	0	2.6	2	1
	708	0	164	1	0.0	1	0
	709	2	169	0	0.0	1	1
##	710	2	109	1	2.2	2	1
##	711	2	108	1	0.0	2	1
##	712	0	168	0	1.0	1	1
##	713	2	118	1	1.0	2	1
##	714	2	151	0	0.4	2	0
	715	0	156	0	0.1	1	1
	716	0	133	0	0.2	1	0
	717	_	162			1	
		0		0	1.1		0
	718	0	175	0	0.6	2	0
	719	0	71	0	1.0	2	1
	720	0	163	0	0.0	1	0
	721	2	124	0	1.0	2	1
##	722	2	147	0	1.4	2	1
##	723	2	166	0	0.5	2	1
##	724	0	143	1	1.2	2	0
	725	2	157	0	2.6	2	1
	726	0	162	1	0.0	1	1
	727	0	138	0	0.0	2	0
	728	1	117	1	3.4	2	1
	729	0	153	0	0.0	1	0
	730	2	161	0	0.0	1	1
	731	0	170	0	0.0	1	0
	732	0	162	0	0.0	1	0
##	733	0	162	0	0.0	2	0
##	734	2	144	0	0.8	1	1
##	735	2	133	1	4.0	3	1
	736	0	114	0	2.6	3	0
	737	2	103	1	1.6	3	1
	738	0	139	0	2.0	2	1
	739	2	116	1	3.2	2	1
	740					2	
		0	88	1	1.2		1
##	741	2	151	0	0.8	1	0

##	742	2	152	0	0.5	3	0
	743	0	163	0	0.0	1	0
	744	0	99	1	1.8	2	1
	745	2	169	0	0.1	2	0
##	746	0	158	0	0.8	1	0
##	747	0	160	1	1.4	1	1
	748	0	169	1	1.8	2	1
	749						
		2	132	1	0.1	1	1
	750	0	178	0	0.0	1	0
##	751	2	96	1	2.2	3	1
##	752	2	165	0	1.6	1	0
##	753	2	160	1	1.4	3	0
	754	0	172	0	0.0	1	0
	755	2	144	1	1.2	2	1
	756	0	192	0	0.7	1	0
	757	0	168	1	0.0	1	0
##	758	2	132	0	2.0	2	1
##	759	2	182	0	0.0	1	0
	760	0	163	0	0.6	2	1
	761	2	125	1	1.4	1	0
	762	2	195			1	1
				0	0.0		
	763	0	95	1	2.0	2	1
	764	0	160	0	0.0	1	1
	765	2	114	1	2.0	2	1
##	766	2	173	0	3.2	1	1
##	767	2	172	1	0.0	1	0
##	768	0	179	0	0.0	1	0
##	769	0	158	0	1.6	2	0
##	770	2	167	0	0.0	1	0
	771	0	122	0	2.0	2	0
	772	2	149	0	0.5	1	0
	773	0	172	0	0.0	1	0
	774	0	111	1	5.6	3	1
	775	2	170	0	0.0	1	0
##	776	2	162	0	1.9	2	0
##	777	0	165	1	1.0	2	1
	778	0	182	1	3.8	2	1
	779	0	154	1	1.4	2	1
	780		155	0	0.0	1	0
		0					
	781	2	130	1	3.0	2	1
	782	0	161	0	0.0	1	0
	783	0	154	1	0.0	1	0
##	784	2	159	0	0.0	1	0
	785	2	152	0	1.2	3	0
	786	2	152	1	0.2	2	0
	787	2	174	0	1.4	2	1
	788	2	131	0	0.1	2	0
	789	2	146	0	2.0	2	1
	790	2	125	1	0.9	2	1
##	791	2	115	0	1.5	2	0

##	792	2	174	0	0.0	1	0
##	793	0	106	0	1.9	2	1
	794	0	122	1	4.2	2	1
	795		147		3.6	2	1
		0		0			
	796	0	163	0	0.2	2	1
	797	0	163	0	0.0	1	0
##	798	0	194	0	0.8	3	0
##	799	2	150	1	1.9	2	1
##	800	2	158	0	0.0	1	1
	801	2	122	0	0.6	2	0
	802	2	173	0	0.0	1	0
	803		162				
		0		0	1.9	1	0
	804	2	105	1	2.1	2	1
	805	0	147	0	0.1	1	0
	806	2	157	0	1.2	2	0
##	807	0	112	1	2.9	2	1
##	808	0	160	0	1.2	1	0
##	809	0	125	1	2.6	3	1
	810	0	156	0	0.0	1	0
	811	2	156	1	0.0	1	1
	812	0	175	0	0.0	1	0
	813	2	161	0	1.4	2	0
	814	2	122	0	1.0	2	0
	815	0	158	0	1.6	2	0
##	816	0	151	0	1.8	1	0
##	817	2	162	1	0.0	1	1
##	818	0	151	0	1.0	1	0
##	819	2	171	0	0.0	1	1
	820	2	141	1	2.8	2	1
	821	0	173	1	1.6	1	1
	822	2	145	1	0.8	2	1
	823		178		1.2	2	
		0		0			0
	824	0	160	0	0.0	1	0
	825	2	154	1	0.6	2	0
	826	0	131	1	1.8	2	1
##	827	0	187	0	3.5	3	0
##	828	2	159	0	0.2	2	1
##	829	2	166	0	2.4	2	0
	830	0	165	0	0.2	2	0
	831	2	131	1	2.2	2	1
	832	2	202	0	0.0	1	0
	833	2	172	0	1.4	1	0
	834	2	172	0	0.0	1	0
	835	0	154	1	0.0	1	0
	836	2	147	0	0.4	2	0
	837	0	170	0	0.0	1	0
##	838	0	126	1	2.8	2	1
	839	2	127	0	2.8	2	1
	840	0	174	0	1.6	1	0
	841	2	132	1	1.8	1	1
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##	842	0	182	0	1.4	1	0
##	843	0	132	0	0.0	2	0
	844	0	97	0	1.2	2	1
	845	2	136	1	3.0	2	1
	846	2	162	0	1.0	1	0
	847	2	190	0	0.0	2	0
##	848	2	146	1	1.0	2	1
##	849	0	140	0	1.2	2	1
##	850	2	185	0	0.0	1	0
	851	0	161	1	0.0	1	1
	852	0	146	0	1.8	2	0
	853	2	145	0	6.2	3	1
	854	2	160	0	0.0	1	0
	855	2	120	1	2.5	2	1
##	856	2	156	0	0.0	1	0
##	857	0	172	0	0.2	1	0
##	858	2	150	1	1.6	2	1
	859	2	182	0	0.0	1	0
	860	2	143	0	0.4	2	0
	861	2	160	0	3.6	3	1
	862	2	142	0	1.5	1	0
	863	0	144	1	1.4	1	1
	864	2	158	0	0.6	1	1
	865	0	148	0	0.8	1	0
	866	2	155	0	3.0	2	1
##	867	2	142	1	2.8	2	1
##	868	0	113	0	1.4	2	1
##	869	2	188	0	0.0	1	0
##	870	2	153	0	0.0	1	1
	871	0	123	0	0.6	1	0
	872	0	157	0	1.6	1	0
	873	0	162	0	0.4	1	0
	874	0	137	1	1.0	2	0
	875	0	132	1	1.2	2	1
	876	0	158	0	0.0	1	1
##	877	0	171	0	1.5	1	0
##	878	0	172	0	0.0	1	0
##	879	2	132	1	2.4	2	1
##	880	2	160	0	1.8	2	1
	881	0	171	0	0.6	1	0
	882	0	168	0	1.0	3	1
	883	0	162	0	0.5	1	0
	884						
		0	173	0	0.0	1	0
	885	2	153	0	1.3	2	0
	886	0	148	0	0.4	2	0
	887	2	108	1	1.5	2	1
##	888	2	150	0	2.3	3	0
##	889	2	108	1	1.5	2	1
##	890	2	129	1	2.6	2	1
	891	0	187	0	3.5	3	0

##	892	2	172	0	1.4	1	0
##	893	0	178	0	0.8	1	0
	894	2	160	0	3.6	3	1
	895		163	1			
		0			0.6	1	0
	896	2	147	0	1.4	2	1
	897	2	155	1	3.1	3	1
##	898	0	148	0	0.4	2	0
##	899	2	153	0	1.3	2	0
##	900	2	142	1	0.6	2	1
	901	0	173	0	0.0	1	0
	902	0	162	0	0.5	1	0
	903	0	174	0	1.6	1	0
	904	0	168	0	1.0	3	1
##	905	0	160	0	1.2	1	0
##	906	0	139	0	0.2	1	0
##	907	0	171	0	0.6	1	0
##	908	2	144	1	1.8	2	0
	909	2	162	0	1.0	1	0
	910	2	160	0	1.8	2	1
	911	2	173	0	3.2	1	1
	912						
		2	132	1	2.4	2	1
	913	0	158	0	1.6	2	0
	914	0	172	0	0.0	1	0
	915	0	114	0	2.6	3	0
##	916	0	171	0	1.5	1	0
##	917	2	114	1	2.0	2	1
##	918	0	151	0	1.8	1	0
##	919	0	160	1	1.4	1	1
##	920	0	158	0	0.0	1	1
	921	0	161	0	0.5	2	0
	922	0	179	1	0.4	1	0
	923		178			1	
		0		0	0.0		0
	924	2	120	1	2.5	2	1
	925	2	112	1	0.6	2	1
	926	0	132	1	1.2	2	1
##	927	0	137	1	1.0	2	0
##	928	2	114	0	1.0	2	1
##	929	0	178	1	1.4	1	0
##	930	0	162	0	0.4	1	0
	931	0	157	0	1.6	1	0
	932	2	169	0	0.0	1	1
	933	2	165	0	2.5	2	1
	934	0	123	0	0.6	1	0
	935	2	128	0	2.6	2	1
	936	2	157	0	0.8	1	0
	937	2	152	0	1.2	3	0
##	938	0	168	0	0.0	1	0
##	939	0	140	0	0.4	1	0
	940	2	153	0	0.0	1	1
	941	2	188	0	0.0	1	0
	-			_		_	-

##	942	0	144	1	1.4	1	1
##	943	2	109	1	2.2	2	1
	944	0	163	0	0.6	2	1
	945	2	158	0	0.0	1	1
	946	2	152	0	0.5	3	0
	947	2	125	1	1.4	1	0
##	948	0	142	1	1.2	2	1
##	949	2	160	1	1.4	3	0
##	950	2	131	1	2.2	2	1
	951	0	170	0	0.0	1	0
	952	0	113	0	1.4	2	1
	953	2	142	1	2.8	2	1
	954	2	155	0	3.0	2	1
##	955	2	165	0	1.6	1	0
##	956	2	140	1	3.4	3	1
##	957	0	147	0	3.6	2	1
	958	0	148	0	0.8	1	0
	959	0	163	0	0.2	2	1
	960	0	99	1	1.8	2	1
	961	2	158	0	0.6	1	1
	962	2	177	0	0.0	1	1
	963	2	151	0	0.8	1	0
	964	2	141	1	2.8	2	1
##	965	2	142	0	1.5	1	0
##	966	2	180	0	0.2	2	0
##	967	2	111	1	0.8	1	1
##	968	2	148	1	3.0	2	0
##	969	2	143	0	0.4	2	0
	970	2	182	0	0.0	1	0
	971	2	150	1	1.6	2	1
	972	0	172	0	0.2	1	0
	973	2	180	0	0.0	1	0
	974	2	156	0	0.0	1	0
	975	2	115	0	0.0	1	0
##	976	2	160	0	0.0	1	0
##	977	2	149	0	0.5	1	0
##	978	2	151	0	0.4	2	0
	979	2	145	0	6.2	3	1
	980	0	146	0	1.8	2	0
	981	0	175	0	0.6	2	0
	982						
		2	172	0	0.0	1	0
	983	0	161	1	0.0	1	1
	984	2	142	1	1.2	2	1
	985	2	157	0	2.6	2	1
##	986	0	158	0	0.8	1	0
##	987	2	186	0	0.0	1	0
	988	2	185	0	0.0	1	0
	989	2	174	0	0.0	1	0
	990	2	159	0	0.0	1	0
	991	2	130	0	0.0	1	0
##	99 1	4	170	U	0.0	_	U

##	992	0	139	0	2.0	2	1
##	993	0	156	0	0.0	1	0
##	994	0	162	1	0.0	1	1
##	995	2	150	0	0.4	2	1
	996	0	140	1	3.6	2	1
	997	0	140	0	1.2	2	1
	998	2	146	1	1.0	2	1
	999	2	144	_ 1	1.2	2	1
	1000	2	190	0	0.0	2	0
	1001	2	136	1	3.0	2	1
	1002	0	97	0	1.2	2	1
	1003	0	132	0	0.0	2	0
	1004	2	165	0	0.0	1	0
	1005		182	0		1	0
		0			1.4		
	1006	2	132	1	1.8	1	1
	1007	2	127	0	2.8	2	1
	1008	2	150	1	0.0	1	1
	1009	2	154	0	4.0	2	1
	1010	0	143	1	1.2	2	0
	1011	0	111	1	5.6	3	1
	1012	2	174	0	1.4	2	1
	1013	2	175	0	0.6	2	0
	1014	2	133	1	4.0	3	1
	1015	0	126	1	2.8	2	1
##	1016	0	170	0	0.0	1	0
	1017	0	163	0	0.0	1	0
##	1018	2	147	0	0.4	2	0
##	1019	0	154	1	0.0	1	0
##	1020	2	202	0	0.0	1	0
##	1021	2	186	1	0.0	1	0
##	1022	0	165	0	0.2	2	0
##	1023	2	161	0	1.4	2	0
##	1024	0	125	1	2.6	3	1
	1025	2	103	0	1.4	2	1
	1026	0	130	1	1.6	2	1
	1027	2	166	0	2.4	2	0
	1028	0	164	1	0.0	1	0
	1029	2	159	0	0.2	2	1
	1030	0	184	0	0.0	1	0
	1031	0	131	1	1.8	2	1
	1032	2	154	1	0.6	2	0
	1033	0	152	0	0.0	1	1
	1034	2	124	0	1.0	2	1
	1035	0	179	0	0.0	1	0
	1036		179				
		2		0	0.0	1	0
	1037	0	160	0	0.0	1	0
	1038	0	178	0	1.2	2	0
	1039	2	122	0	0.6	2	0
	1040	2	160	0	1.6	2	0
##	1041	2	145	1	0.8	2	1

##	1042	2	96	1	2.2	3	1
##	1043	2	109	0	2.4	2	1
	1044	0	173	1	1.6	1	1
	1045		171	0		1	1
		2			0.0		
	1046	2	170	0	1.2	2	1
	1047	0	151	0	1.0	1	0
##	1048	0	156	0	0.0	1	0
##	1049	2	162	1	0.0	1	1
##	1050	0	158	0	1.6	2	0
	1051	2	122	0	1.0	2	0
	1052	0	175	0	0.0	1	0
	1053	0	168	1	0.0	1	0
	1054	0	169	0	0.0	1	0
	1055	2	159	1	0.0	1	0
##	1056	2	156	1	0.0	1	1
##	1057	0	138	0	0.0	2	0
##	1058	0	112	1	2.9	2	1
	1059	2	111	1	0.0	1	0
	1060	0	143	1	0.0	2	1
	1061	2	157	0	1.2	2	0
	1062	2	132			2	1
				0	2.0		
	1063	0	88	1	1.2	2	1
	1064	0	147	0	0.1	1	0
	1065	2	105	1	2.1	2	1
	1066	0	162	0	1.9	1	0
##	1067	2	173	0	0.0	1	0
##	1068	2	166	0	0.5	2	1
##	1069	2	150	1	1.9	2	1
##	1070	2	178	0	0.8	1	0
	1071	2	145	0	4.2	3	0
	1072	2	161	0	0.0	1	1
	1073	0	179	0	0.0	1	0
	1074	0	194	0	0.8	3	0
	1075	0	120	1	0.0	2	1
	1076	2	195	0	0.0	1	1
	1077	2	146	0	2.0	2	1
##	1078	0	163	0	0.0	1	0
##	1079	0	122	1	4.2	2	1
##	1080	2	143	1	0.1	2	1
	1081	0	106	0	1.9	2	1
	1082	2	115	0	1.5	2	0
	1083	2	125	1	0.9	2	1
	1084	2	131	0	0.1	2	0
	1085	2	152		0.2	2	
				1			0
	1086	0	162	0	1.1	1	0
	1087	2	125	0	0.0	1	1
	1088	2	159	0	0.0	1	0
	1089	0	154	1	0.0	1	0
##	1090	0	173	0	0.2	1	0
##	1091	0	133	0	0.2	1	0

##	1092	0	161	0	0.0	1	0
	1093	2	147	1	0.0	2	1
	1094	2	130	1	3.0	2	1
##	1095	2	126	1	0.9	2	1
##	1096	0	155	0	0.0	1	0
	1097	0	154	1	1.4	2	1
		_					
	1098	0	170	0	0.0	1	0
	1099	0	182	1	3.8	2	1
##	1100	2	168	0	2.0	2	0
##	1101	0	165	1	1.0	2	1
##	1102	0	160	0	0.0	1	1
	1103	2	162	0	1.9	2	0
	1104	0	172	0	0.0	1	0
	1105	2	152	1	0.0	2	0
##	1106	0	122	0	2.0	2	0
##	1107	2	182	0	0.0	1	0
	1108	2	172	1	0.0	1	0
	1109	2	167	0	0.0		
						1	0
	1110	0	179	0	0.0	1	0
	1111	0	95	1	2.0	2	1
##	1112	0	169	1	1.8	2	1
##	1113	0	192	0	0.7	1	0
##	1114	0	143	0	0.1	1	0
##	1115	0	172	0	0.0	1	0
	1116	2	108	1	0.0	2	1
	1117	2	132	1	0.1	1	1
	1118	2	169	0	0.1	2	0
	1119	1	117	1	3.4	2	1
	1120	2	126	0	0.8	1	1
	1121	2	121	1	0.2	1	0
	1122	0	163	0	0.0	1	0
	1123	2	116	1	3.2	2	1
	1124	2	103	1	1.6	3	1
##	1125	2	144	0	0.8	1	1
##	1126	0	162	0	0.0	2	0
	1127	0	162	0	0.0	1	0
	1128	0	153	0	0.0	1	0
	1129	0	163	0	0.0	1	0
	1130	0	163	0	0.0	1	0
	1131	0	145	0	2.6	2	1
	1132	0	96	0	0.0	1	0
	1133	0	71	0	1.0	2	1
	1134	0	156	0	0.1	1	1
##	1135	2	118	1	1.0	2	1
##	1136	0	168	0	1.0	1	1
##	1137	2	140	0	0.0	1	0
	1138	0	126	1	1.5	2	0
	1139	0	105	0	2.0	2	1
	1140	0	105	1	0.2	2	0
	1140	2	157	0	0.6		0
##	1141	2	1)/	Ø	0.0	1	U

	1142	0	181	0	1.2	2	0
	1143	0	173	0	0.0	2	0
	1144	0	142	0	0.3	1	0
	1145	1	116	0	1.1	2	0
##	1146	2	143	0	0.0	1	0
##	1147	0	141	0	0.3	1	1
##	1148	0	149	0	0.3	2	0
##	1149	2	152	0	0.0	1	1
##	1150	0	171	0	0.9	1	0
	1151	0	169	0	0.0	1	0
	1152	2	125	1	3.6	2	1
##	1153	0	125	1	1.8	2	1
##	1154	0	156	1	1.0	2	1
##	1155	0	134	0	2.2	2	1
##	1156	0	181	0	0.0	1	1
##	1157	0	150	0	0.0	1	0
##	1158	2	138	1	1.9	1	1
##	1159	2	138	0	2.3	1	0
##	1160	0	120	1	1.8	2	1
##	1161	0	125	0	1.6	2	0
##	1162	0	162	0	0.8	1	1
##	1163	2	155	0	0.6	2	0
##	1164	2	152	0	0.0	2	0
##	1165	0	152	0	0.0	2	0
##	1166	2	164	0	0.0	1	1
##	1167	0	131	0	0.6	2	0
##	1168	0	143	1	3.0	2	1
##	1169	0	179	0	0.0	1	0
##	1170	1	130	1	2.0	2	1
##	1171	0	174	0	0.0	1	0
##	1172	0	161	0	0.0	1	1
##	1173	1	140	0	4.4	3	1
##	1174	2	146	1	2.8	2	1
##	1175	0	144	0	0.4	2	0
##	1176	2	163	0	0.0	1	0
##	1177	0	169	0	0.0	3	0
##	1178	2	150	0	0.8	2	1
##	1179	0	166	0	1.2	1	0
##	1180	0	144	1	2.8	3	1
##	1181	2	144	1	4.0	1	1
##	1182	0	136	1	0.0	2	1
##	1183	0	182	0	0.0	1	0
##	1184	2	90	0	1.0	2	1
##	1185	0	123	1	0.2	2	1
##	1186	0	132	0	1.2	2	1
	1187	0	141	0	3.4	2	1
##	1188	0	115	1	1.2	2	1
##	1189	2	174	0	0.0	2	1
##	1190	0	173	0	0.0	1	0

heart_	<pre>heart_clean[heart_clean\$ST.slope >= min(heart_STs_boxplot\$out),]</pre>									
##		sex	<pre>chest.pain.type</pre>			fasting.blood.sugar				
## 1	40	1	2	140	289	0				
## 2	49	0	3	160	180	0				
## 3	37	1	2	130	283	0				
## 4	48	0	4	138	214	0				
## 5	54	1	3	150	195	0				
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## 8 ## 9	54 37	1 1	2	110 140	208 207	0				
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## 55 52 0 4 130 180 0 ## 56 51 0 2 160 194 0 ## 57 31 1 4 120 270 0 ## 58 58 1 3 130 213 0 ## 59 54 1 4 150 365 0 ## 61 49 1 2 100 253 0 ## 64 1 4 140 224 0 ## 64 46 1 4 120 277 0 ## 68 32 1 2 110 202 0 ## 68 32 1 4 132 297 0 ## 68 32 1 4 160 246 0 ## 70 44 1 4 150 415 0 ## 71 57 1 2 140 265 0 ## 73 52 1 4 120 182 0 ## 73 52 1 4 120 182 0 ## 73 52 1 4 120 182 0 ## 74 44 0 4 120 182 0 ## 75 55 1 4 140 268 0 ## 77 32 1 4 140 268 0 ## 77 32 1 4 18 529 0 ## 78 35 0 4 140 160 277 0 ## 88 36 1 4 120 182 0 ## 79 52 1 2 140 265 0 ## 79 52 1 2 140 268 0 ## 77 32 1 4 110 20 218 0 ## 78 35 0 4 140 160 268 0 ## 79 52 1 2 140 160 0 ## 79 52 1 2 140 160 0 ## 79 52 1 2 140 160 0 ## 78 35 0 4 140 167 0 ## 79 52 1 1 4 190 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	## 54	41	0				
## 56	## 55						
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## 82 54 1 2 120 238 0 ## 83 63 1 4 150 223 0 ## 84 52 1 2 160 196 0 ## 85 56 1 4 150 213 1 ## 86 66 1 4 140 139 0 ## 88 53 0 2 140 216 0 ## 89 43 1 1 120 291 0 ## 90 55 1 4 140 229 0 ## 91 49 0 2 110 208 0 ## 92 39 1 4 130 307 0 ## 93 52 0 2 120 210 0 ## 94 48 1 4 160 329 0 ## 95 39 0 3 110 182 0 ## 96 58 1							
## 83 63 1 4 150 223 0 ## 84 52 1 2 160 196 0 ## 85 56 1 4 150 213 1 ## 86 66 1 4 140 139 0 ## 88 53 0 2 140 216 0 ## 89 43 1 1 120 291 0 ## 90 55 1 4 140 229 0 ## 91 49 0 2 110 208 0 ## 92 39 1 4 130 307 0 ## 93 52 0 2 120 210 0 ## 94 48 1 4 160 329 0 ## 95 39 0 3 110 182 0 ## 96 58 1							
## 84 52 1 2 160 196 0 ## 85 56 1 4 150 213 1 ## 86 66 1 4 140 139 0 ## 87 65 1 4 170 263 1 ## 88 53 0 2 140 216 0 ## 89 43 1 1 120 291 0 ## 90 55 1 4 140 229 0 ## 91 49 0 2 110 208 0 ## 92 39 1 4 130 307 0 ## 93 52 0 2 120 210 0 ## 94 48 1 4 160 329 0 ## 95 39 0 3 110 182 0 ## 96 58 1							
## 85 56 1 4 150 213 1 ## 86 66 1 4 140 139 0 ## 87 65 1 4 170 263 1 ## 88 53 0 2 140 216 0 ## 89 43 1 1 1 120 291 0 ## 90 55 1 4 140 229 0 ## 91 49 0 2 110 208 0 ## 92 39 1 4 130 307 0 ## 93 52 0 2 120 210 0 ## 94 48 1 4 160 329 0 ## 95 39 0 3 110 182 0 ## 96 58 1							
## 86 66 1 4 140 139 0 ## 87 65 1 4 170 263 1 ## 88 53 0 2 140 216 0 ## 89 43 1 1 1 120 291 0 ## 90 55 1 4 140 229 0 ## 91 49 0 2 110 208 0 ## 92 39 1 4 130 307 0 ## 93 52 0 2 120 210 0 ## 94 48 1 4 160 329 0 ## 95 39 0 3 110 182 0 ## 96 58 1							
## 87 65 1 4 170 263 1 ## 88 53 0 2 140 216 0 ## 89 43 1 1 120 291 0 ## 90 55 1 4 140 229 0 ## 91 49 0 2 110 208 0 ## 92 39 1 4 130 307 0 ## 93 52 0 2 120 210 0 ## 94 48 1 4 160 329 0 ## 95 39 0 3 110 182 0 ## 96 58 1 4 130 263							
## 88 53 0 2 140 216 0 ## 89 43 1 1 1 120 291 0 ## 90 55 1 4 140 229 0 ## 91 49 0 2 110 208 0 ## 92 39 1 4 130 307 0 ## 93 52 0 2 120 210 0 ## 94 48 1 4 160 329 0 ## 95 39 0 3 110 182 0 ## 96 58 1 4 130 263							
## 89 43 1 1 120 291 0 ## 90 55 1 4 140 229 0 ## 91 49 0 2 110 208 0 ## 92 39 1 4 130 307 0 ## 93 52 0 2 120 210 0 ## 94 48 1 4 160 329 0 ## 95 39 0 3 110 182 0 ## 96 58 1 4 130 263							
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## 91 49 0 2 110 208 0 ## 92 39 1 4 130 307 0 ## 93 52 0 2 120 210 0 ## 94 48 1 4 160 329 0 ## 95 39 0 3 110 182 0 ## 96 58 1 4 130 263 0							
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## 96 58 1 4 130 263 0							
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## 100			39	1	3	160	147	1
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## 111 59 0 2 130 188 0 ## 112 57 1 4 150 255 0 1	## 3	109	50	1	4	140	129	0
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## 125								
## 126 54 1 2 120 246 0 ## 127 34 0 2 130 161 0 ## 128 48 0 4 108 163 0 ## 129 54 0 2 120 230 1 ## 130 42 1 3 120 228 0 ## 131 38 1 3 145 292 0 ## 132 46 1 4 110 202 0 ## 133 56 1 4 150 230 0 ## 135 61 0 4 150 230 0 ## 136 49 1 3 115 265 0 ## 137 43 0 2 120 215 0 ## 138 39 1 2 120 215 0 ## 139 54 1 4 140 166 0 ## 140 43 1 4 160 291 0 ## 141 53 1 4 140 243 0 ## 144 53 1 4 140 243 0 ## 145 56 0 2 120 279 0 ## 145 56 0 2 120 279 0 ## 145 56 0 2 120 279 0 ## 145 56 0 2 120 279 0								
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## 134 56 1 4 150 230 0 ## 135 61 0 4 130 294 0 ## 136 49 1 3 115 265 0 ## 138 39 1 2 120 215 0 ## 139 54 1 4 140 166 0 ## 140 43 1 4 150 247 0 ## 141 52 1 4 160 331 0 ## 142 50 1 4 140 341 0 ## 143 47 1 4 160 291 0 ## 144 53 1 4 140 243 0 ## 145 56 0 2 120 279 0 ## 146 39 1								
## 135 61 0 4 130 294 0 ## 136 49 1 3 115 265 0 ## 137 43 0 2 120 215 0 ## 138 39 1 2 120 241 0 ## 140 43 1 4 150 247 0 ## 141 52 1 4 160 331 0 ## 142 50 1 4 140 341 0 ## 143 47 1 4 160 291 0 ## 144 53 1 4 140 243 0 ## 145 56 0 2 120 279 0 ## 146 39 1								
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## 143 47 1 4 160 291 0 ## 144 53 1 4 140 243 0 ## 145 56 0 2 120 279 0 ## 146 39 1 4 110 273 0								
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## 162	49	1	4	128	212	0
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## 166	52	0	2	140	225	0
## 167	46	1	1	140	272	1
## 168	50	1	4	140	231	0
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			0				0
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## 254	61	1	4	125	292	0
## 255	62	1	2	140	271	0
## 256	55	1	4	145	248	0
## 257	53	0	3	120	274	0
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## 260	51	0	3	150	200	0
## 261	55	0	2	122	320	0
## 262	46	1	2	140	275	0
## 263	54	0	2	120	221	0
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## 445	60	1	4	130	186	1
## 446	56	1	4	120	100	0
## 447	55	1	3	136	228	0
## 449	77	1	4	124	171	0
## 450	63	1	4	160	230	1
## 454	60	1	4	140	281	0
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## 464	59	1	4	122	233	0
## 467	42	1	3	134	240	0
## 470	62	1	4	152	153	0
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## 515	62	1	1	112	258	0
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## プロブ	/ T	1	4	130	221	Ø

## 570	38	1	4		110	289	0
## 571	55	1	4		158	217	0
## 572	56	1	4	ļ	128	223	0
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## 576	69	1	4	ļ.	142	210	1
## 577	56	1	4	ļ	137	282	1
## 578	62	1	4		139	170	0
## 579	67	1	4		146	369	0
## 580	57	1	4		156	173	0
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## 585	69	1	3		142	271	0
## 586	64	1	4		141	244	1
## 587	57				180	285	
		1	2				1
## 588	53	1	4		124	243	0
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## 597	60	1	4	ļ	130	186	1
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## 606	74	1	4		155	310	0
## 607	68	1	3		134	254	1
## 608	51	0	4		114	258	1
## 609	62	1	4		160	254	1
## 610	53	1	4		144	300	1
## 611	62	1	4		158	170	0
## 611							
## 612 ## 613	46 54	1	4		134 127	310	0
	54	0	4			333	1
## 614	62	1	1		135	139	0
## 615	55	1	4		122	223	1
## 616	58	1	4		140	385	1
## 617	62	1	2		120	254	0
## 618	70	1	4		130	322	0
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## 624	56	1	3	130	256	1
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## 638	4 0 67	1	4	120	229	0
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## 642	54	0	2	132	288	1
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## 649	66	1	4	160	228	0
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## 651	59	1	4	170	326	0
## 652	50	1	4	144	200	0
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## 667	65	0	4	150	225	0
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ππ 003	52	1	2	120	203	1

## 670 65 0 3 140 417 1 ## 671 63 0 2 140 195 0 8 ## 673 41 0 2 105 198 0 ## 673 41 0 2 105 198 0 ## 675 60 0 3 120 178 1 ## 676 59 0 4 174 249 0 ## 677 62 1 2 120 281 0 ## 678 57 1 3 150 126 1 ## 688 44 1 3 120 226 0 ## 688 58 0 1 1 150 240 0 ## 688 61 1 4 120 261 0 ## 688 61 1 4 120 354 0 ## 689 57 0 4 120 354 0 ## 689 67 0 1 2 156 245 0 ## 699 35 1 4 104 208 0 ## 699 45 1 4 104 208 0 ## 699 58 1 4 104 208 1 ## 699 58 1 4 104 208 1 ## 699 59 1 4 120 206 0 ## 699 58 1 4 104 208 0 ## 699 58 1 4 104 208 0 ## 699 57 1 1 3 108 243 0 ## 690 70 1 2 156 245 0 ## 690 70 1 2 156 245 0 ## 690 70 1 2 156 245 0 ## 690 70 1 2 156 245 0 ## 690 70 1 2 156 245 0 ## 699 57 0 4 104 208 0 ## 699 57 1 4 104 208 0 ## 699 58 1 4 104 208 0 ## 699 58 1 4 104 208 0 ## 699 58 1 4 104 208 0 ## 699 58 1 4 104 208 0 ## 699 58 1 4 104 208 0 ## 699 59 1 4 104 208 0 ## 699 59 1 4 104 208 0 ## 699 59 1 4 104 208 0 ## 699 59 1 5 1 4 104 208 0 ## 699 59 1 5 1 4 104 208 0 ## 699 59 1 5 1 4 104 208 0 ## 699 59 1 4 104 208 0 ## 699 59 1 5 1 4 104 208 0 ## 699 59 1 4 104 208 0 ## 699 59 1 4 104 208 0 ## 699 59 1 4 104 208 0 ## 699 59 1 4 104 208 0 ## 699 59 1 5 1 4 104 208 0 ## 699 59 1 6 1 2 2 120 236 0 ## 699 60 0 ## 701 1 1 1 104 209 0 ## 699 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
## 672	## 670	65	0	3	140	417	1
## 673	## 671	63	0	2	140	195	0
## 674 61 1 4 138 166	## 672	45	0	2	130	234	0
## 675 60 0 0 3 120 178 1 ## 676 59 0 4 174 249 0 ## 677 62 1 2 120 281 0 ## 678 57 1 0 4 130 305 0 ## 678 57 1 0 4 130 305 0 ## 681 60 0 1 1 150 240 6 ## 682 63 1 1 1 145 233 1 ## 688 65 1 1 4 150 276 0 ## 684 51 1 4 140 261 0 ## 685 58 0 2 136 319 1 ## 687 47 1 3 108 243 0 ## 688 61 1 4 120 260 0 ## 688 61 1 4 120 260 0 ## 689 57 0 4 120 254 0 ## 690 70 1 2 156 245 0 ## 691 76 0 3 140 197 0 ## 692 67 0 4 106 223 0 ## 693 45 1 4 142 309 0 ## 693 45 1 4 142 309 0 ## 694 62 1 2 120 236 0 ## 695 39 0 3 94 199 0 ## 695 88 1 4 4 120 209 0 ## 696 74 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	## 673	41	0	2	105	198	0
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## 677 62 1 2 120 281 0 1	## 676	59	0	4		249	
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## 684							
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## 688 61 1 4 4 120 260 0 8 ## 689 57 0 4 120 354 0 9 ## 690 70 1 2 156 245 0 1							
## 689 57 0 4 1 22 156 245 0 8 ## 690 70 1 2 156 245 0 8 ## 691 76 0 3 140 197 0 1							
## 690 70 1 2 156 245 0 ## 691 76 0 3 140 197 0 ## 692 67 0 4 106 223 0 ## 693 45 1 4 142 309 0 ## 695 39 0 3 94 199 0 ## 696 42 0 3 120 209 0 ## 697 56 1 2 120 236 0 ## 699 35 1 4 120 198 0 ## 700 58 1 4 150 270 0 ## 701 41 1 3 130 214 0 ## 704 62 1 2 128 208 1 ## 706 41 0 2 128 208 1 ## 707 50 1 4 150 243 0 ## 708 59 1 2 140 221 0 ## 709 61 0 4 130 330 0 ## 710 54 1 4 124 266 0 ## 711 54 1 4 110 206 0 ## 713 47 1 4 110 275 0 ## 714 66 1 4 120 302 0 ## 715 58 1 4 100 2 120 0 ## 716 64 0 3 140 313 0 ## 717 50 0 2 120 302 0 ## 718 64 0 3 140 313 0 ## 715 58 1 4 100 2 120 302 0 ## 716 64 0 3 140 313 0 ## 717 50 0 2 120 244 0 ## 718 64 0 0 3 108 141 0							
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## 692 67 0 4 106 223 0 9 ## 693 45 1 4 142 309 0 8 ## 694 45 1 4 104 208 0 9 ## 695 39 0 3 94 199 0 9 ## 696 42 0 3 120 236 0 9 ## 698 58 1 4 146 218 0 9 ## 700 58 1 4 150 270 0 9 ## 702 57 1 4 110 201 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9							
## 693							
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## 699 35 1 4 120 198 0 ## 700 58 1 4 150 270 0 ## 701 41 1 3 130 214 0 ## 702 57 1 4 110 201 0 ## 704 62 1 2 128 208 1 ## 705 59 1 1 1 178 270 0 ## 707 50 1 4 150 243 0 ## 708 59 1 2 140 221 0 ## 709 61 0 4 130 330 0 ## 710 54 1 4 110 206 0 ## 711 54 1 4 110 206 0 ## 712 52 1 4 120 302 0 ## 713 47 1 4 100 234 0 ## 715 58 1 4 100 234 0 ## 716 64 0 3 140 313 0 ## 717 50 0 2 120 244 0 ## 718 44 0 3 3 108 141							
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## 706							
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## 715 58 1 4 100 234 0 ## 716 64 0 3 140 313 0 ## 717 50 0 2 120 244 0 ## 718 44 0 3 108 141 0							
## 716 64 0 3 140 313 0 ## 717 50 0 2 120 244 0 ## 718 44 0 3 108 141 0							
## 717 50 0 2 120 244 0 ## 718 44 0 3 108 141 0							
## 718 44 0 3 108 141 0							
## /19 0/ 1 4 120 23/ 0							
	## /19	0/	1	4	120	231	Ø

## 720	49	0	4	130	269	0
## 721	57	1	4	165	289	1
## 722	63	1	4	130	254	0
## 723	48	1	4	124	274	0
## 724	51	1	3	100	222	0
## 725	60	0	4	150	258	0
## 726	59	1	4	140	177	0
## 727	45	0	2	112	160	0
## 728	55	0	4	180	327	0
## 729	41	1	2	110	235	0
## 730	60	0	4	158	305	0
## 731	54	0	3	135	304	1
## 732	42	1	2	120	295	0
## 733	49	0	2	134	271	0
## 734	46	1	4	120	249	0
## 735	56	0	4	200	288	1
## 736	66	0	1	150	226	0
## 737	56	1	4	130	283	1
## 738	49	1	3	120	188	0
## 739	54	1	4	122	286	0
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## 740	65	0	3	160	360	0
## 741	54	1	3	125	273	0
## 742	54	0	3	160	201	0
## 743	62	1	4	120	267	0
## 744	52 52					
		0	3	136	196	0
## 746	52	1	2	134	201	0
## 747	60	1	4	117	230	1
## 748	63	0	4	108	269	0
## 749	66	1	4	112	212	0
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## 751	64	1	4	120	246	0
## 752	54	1	3	150	232	0
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## 754	67	0	3	152	277	0
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## 756	34	0	2	118	210	0
## 757	57	1	4	132	207	0
## 758	64	1	4	145	212	0
## 759	59	1	4	138	271	0
## 760	50	1	3	140	233	0
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## 762	54	1	2	192	283	0
## 763	53	1	4	123	282	0
## 764	52	1	4	112	230	0
## 765	40	1	4	110	167	0
## 766	58	1	3	132	224	0
## 767	41	0	3	112	268	0
## 768	41	1	3	112	250	0
## 769	50	0	3	120	219	0

## 770	54	0	3	108	267	0
## 771	64	0	4	130	303	0
## 772	51	0	3	130	256	0
## 773	46	0	2	105	204	0
## 774	55	1	4	140	217	0
## 775	45	1	2	128	308	0
## 776	56	1	1	120	193	0
## 777	66	0	4	178	228	1
## 778	38	1	1	120	231	0
## 779	62	0	4	150	244	0
## 780	55	1	2	130	262	0
## 781	58	1	4	128	259	0
## 782	43	1	4	110	211	0
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## 784	50	0	4	110	254	0
## 785	53	1	3	130	197	1
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## 787	65	1	1	138	282	1
## 788	69	1	1	160	234	1
## 789	69	1	3	140	254	0
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## 790	68	0		120	211	0
## 791			3		182	
	34	1	1	118		0
## 793	62 51	0	4	138	294	1
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## 805	52	1	4	108	233	1
## 806	62	0	4	140	394	0
## 807	70	1	3	160	269	0
## 808	54	1	4	140	239	0
## 809	70	1	4	145	174	0
## 810	54	1	2	108	309	0
## 811	35	1	4	126	282	0
## 812	48	1	3	124	255	1
## 813	55	0	2	135	250	0
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## 815	54	0	3	110	214	0
## 816	69	0	1	140	239	0
## 817	77	1	4	125	304	0
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## 819	58	1	4	125	300	0

## 820	60	1	4	125	258	0
## 821	51	1	4	140	299	0
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## 823	52	1	1	152	298	1
## 824	60	0	3	102	318	0
## 825	58	1	3	105	240	0
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## 832	29	1	2	130	204	0
## 833	41	0	2	130	204	0
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## 836	54	1	3	120	258	0
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## 838	54	1	4	110	239	0
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## 840	57	1	3	150	168	0
## 841	63	1	4	130	330	1
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## 846	58	0	1	150	283	1
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## 853	62	0	4	160	164	0
## 854	53	0	4	138	234	0
## 855	43	1	4	120	177	0
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## 857	52	1	2	120	325	0
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## 860	53	0	4	130	264	0
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## 867	60	1	4	145	282	0
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##	873	71	0	2	160	302	0
##	874	61	1	3	150	243	1
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	876	64	1	3	140	335	0
	877	43	1	4	150	247	0
	878	58	0	3	120	340	0
	879	60	1	4	130	206	0
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	881	49	1	2	130	266	0
	882	48	1	2	110	229	0
	883	52	1	3	172	199	1
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	885	56	0	2	140	294	0
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	887						
		67	1	4	160	286	0
	888	63	1	1	145	233	1
	889	67	1	4	160	286	0
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	893	56	1	2	120	236	0
	894	62	0	4	140	268	0
	895	57	0	4	120	354	0
	896	63	1	4	130	254	0
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	898	57	1	4	140	192	0
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##	903	57	1	3	150	168	0
##	904	48	1	2	110	229	0
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##	906	48	0	3	130	275	0
##	907	49	1	2	130	266	0
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	915	66	0	1	150	226	0
	916	43	1	4	150	247	0
	917	40	1	4	110	167	0
	917	40 69	0	1	140	239	0
	918	60	1	4	117	230	1
##	クエフ	00	1	4	11/	230	1

		_	_			_
## 920	64	1	3	140	335	0
## 921	59	1	4	135	234	0
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## 923	42	1	4	140	226	0
## 924	43	1	4	120	177	0
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## 926	55	1	4	132	353	0
## 927	61	1	3	150	243	1
## 928	65	0	4	150	225	0
## 929	40	1	1	140	199	0
## 930	71	0	2	160	302	0
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## 950	58	1	4	128	216	0
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## 955	54	1	3	150	232	0
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## 958	65	0	3	155	269	0
## 959	67	1	4	125	254	1
## 960	62	1	4	120	267	0
## 961	65	1	4	110	248	0
## 962	44	1	4	110	197	0
## 963	65	0	3	160	360	0
## 964	60	1	4	125	258	0
## 965	51	0	3	140	308	0
## 966	48	1	2	130	245	0
## 967	58	1	4	150	270	0
## 968	45	1	4	104	208	0
## 969	53	0	4	130	264	0

			_	_			
	970	39	1	3	140	321	0
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	1014	56	0	4	200	288	1
	1014	56 54	1	4	110	239	0
	1015	5 4 44	1	2	120	220	0
	1016	62	0	4	124	209	0
	1017	62 54	1		124	258	
	1018	54 51	1	3	94	227	0 0
##	TOTA	JΙ	1	,	74	LL I	U

## 1020	29	1	2	130	204	0
## 1021	51	1	4	140	261	0
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## 1040						
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## 1065	56	_ 1	4	132	184	0
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## 1003	50	U	4	134	403	U

## 1070	42	1	•	1	148	244	0
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## 1083							0
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## 1085	45	0		4	138	236	0
## 1086	50	0		2	120	244	0
## 1087	59	1		1	160	273	0
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## 1089	64	0		4	180	325	0
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## 1097	62	0	4	4	150	244	0
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## 1099	38	1	:	1	120	231	0
## 1100	41	1		3	130	214	0
## 1101	66	0	4	4	178	228	1
## 1102	52	1	4	4	112	230	0
## 1103	56	1	:	1	120	193	0
## 1104	46	0		2	105	204	0
## 1105	46	0	4	4	138	243	0
## 1106	64	0	4	4	130	303	0
## 1107	59	1	4	4	138	271	0
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## 1109	54	0		3	108	267	0
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## 1116	54	1		4	110	206	0
## 1117	66	1		4	112	212	0
## 1117	52	0		3	136	196	0
## 1119	55	0		4	180	327	0
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## 1124	56	1		4	130	283	1
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## 1127	42	1		2	120	295	0
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## 1133	67	1		4	120	237	0
## 1134	58	1		4	100	234	0
## 1135	47	1		4	110	275	0
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## 1137	62	1		2	128	208	1
## 1137	57	1		4	110	201	0
## 1138	58			4	146	218	0
## 1139		1					
## 1140	64 51	1		4	128	263	0
	51	0		3	120	295	0
## 1142	43	1		4	115	303	0
## 1143	42	0		3	120	209	0
## 1144	67	0		4	106	223	0
## 1145	76	0		3	140	197	0
## 1146	70	1		2	156	245	0
## 1147	57	1		2	124	261	0
## 1148	44	0		3	118	242	0
## 1149	58	0		2	136	319	1
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## 1153	42	1		4	136	315	0
## 1154	52	1		4	128	204	1
## 1155	59	1		3	126	218	1
## 1156	40	1	•	4	152	223	0
## 1157	42	1		3	130	180	0
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## 1159	66	1		4	160	228	0
## 1160	46	1		4	140	311	0
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## 1164	66	0		3	146	278	0
## 1165	39	0		3	138	220	0
## 1166	57	1		2	154	232	0
## 1167	58	0		4	130	197	0
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	1170	55	0	4	128	205		0
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	1180	44	1	4	120	169		
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	1181	63	1	4	140	187		0
	1182	63	0	4	124	197		0
	1183	41	1	2	120	157		0
	1184	59	1	4	164	176		1
	1185	57	0	4	140	241		0
##	1186	45	1	1	110	264		0
##	1187	68	1	4	144	193		1
##	1188	57	1	4	130	131		0
##	1189	57	0	2	130	236		0
	1190	38	1	3	138	175		0
##					exercise.angina		ST slone	
##	1		0	172	0	0.0	1	0
##				156	0	1.0	2	
##			0	98				1
			1		0	0.0	1	0
##			0	108	1	1.5	2	1
##			0	122	0	0.0	1	0
	6		0	170	0	0.0	1	0
	7		0	170	0	0.0	1	0
	8		0	142	0	0.0	1	0
##	9		0	130	1	1.5	2	1
##	10		0	120	0	0.0	1	0
##	11		0	142	0	0.0	1	0
##	12		1	99	1	2.0	2	1
	13		0	145	0	0.0	1	0
	14		0	140	1	1.0	2	1
	15		1	137	0	0.0	1	0
	16		0	150	0	1.5	2	0
	17		0	166	0	0.0	2	1
	18			165			1	
			0		0	0.0		0
##			0	125	0	1.0	2	1
	20		0	160	0	3.0	2	1
	21		0	142	0	0.0	1	0
	22		0	142	0	1.0	2	0
	23		0	164	0	0.0	1	0
	24		0	150	1	3.0	2	1
##	25		0	138	0	0.0	1	0
##	26		0	178	0	0.0	1	0
	27		1	112	1	3.0	2	0
	28		0	118	0	0.0	1	0

##	29	0	127	0	0.0	1	0
	30	0	145	0	0.0	1	0
	31	0	130	0	0.0	2	1
	32	0	114	0	0.0	1	0
##	33	0	122	0	2.0	2	1
##	34	1	130	0	2.0	2	1
	35	0	154	0	0.0	1	0
	36	0	155	0	0.0	1	0
	37	0	87	1	1.5	2	1
##	38	1	142	0	0.0	1	0
##	39	1	148	0	0.0	1	0
##	40	0	130	1	1.0	2	0
	41	0	130	0	0.0	1	0
	42	1	100	1	0.0	2	1
	43	0	168	0	0.0	1	0
	44	1	170	0	0.0	1	0
##	45	0	120	1	1.0	2	1
##	46	0	120	1	1.0	2	0
	47	0	168	0	0.0	1	0
	48	0	170	0	0.0	1	0
	49		184			2	
		0		0	1.0		0
	50	0	170	0	0.0	2	1
	51	0	121	1	2.0	2	1
##	52	0	98	1	2.0	2	1
##	53	0	122	0	0.0	1	0
##	54	0	150	0	0.0	1	0
	55	0	140	1	1.5	2	0
	56	0	170	0	0.0	1	0
	57	0	153	1	1.5	2	1
	58	1	140	0	0.0	2	1
##	59	1	134	0	1.0	1	0
##	60	1	96	1	1.0	2	1
##	61	0	174	0	0.0	1	0
	62	0	175	0	0.0	1	0
	63	0	144	0	0.0		0
						1	
	64	0	125	1	1.0	2	1
	65	0	145	0	0.0	1	0
	66	0	130	0	0.0	1	0
##	67	0	144	0	0.0	1	0
	68	0	184	0	0.0	1	0
	69	1	82	1	4.0	2	1
	70	0	170	0	0.0	1	0
	71	1	145	1	1.0	2	1
	72	0	135	0	0.0	1	0
##	73	0	150	0	0.0	2	1
##	74	1	115	0	0.0	1	0
	75	0	128	1	1.5	2	1
	76	0	116	0	0.0	1	0
	77	0	130	0	0.0	2	1
##	78	0	150	0	0.0	1	0

		_		_		_	_
##	79	0	138	1	0.0	1	0
##	80	0	170	0	0.0	2	1
##	81	0	160	0	0.0	1	0
	82	0	154	0	0.0	1	0
	83	0	115	0	0.0	2	1
	84	0	165	0	0.0	1	0
##	85	0	125	1	1.0	2	1
##	86	0	94	1	1.0	2	1
##	87	0	112	1	2.0	2	1
##		0	142	_ 1	2.0	2	0
##		1	155	0	0.0	2	1
	90	0	110	1	0.5	2	0
##		0	160	0	0.0	1	0
##	92	0	140	0	0.0	1	0
##	93	0	148	0	0.0	1	0
##	94	0	92	1	1.5	2	1
##		1	180	0	0.0	1	0
	96	0	140	1	2.0	2	1
	97	0	138	0	0.0	1	0
##		0	160	0	0.0	1	0
	99	0	140	0	0.0	1	0
##	100	0	144	0	0.0	1	0
##	101	1	115	1	1.0	2	1
##	102	0	100	0	0.0	1	0
	103	0	130	0	2.0	2	1
	104	0	152	1	1.0	2	1
	105	0	124	0	0.0	2	1
	106	0	140	0	0.0	1	0
	107		110				
		1		0	0.0	1	0
	108	1	168	0	0.0	1	0
	109	0	135	0	0.0	1	0
	110	0	106	0	0.0	1	0
##	111	0	124	0	1.0	2	0
##	112	0	92	1	3.0	2	1
##	113	0	125	1	0.0	1	0
	114	0	150	0	0.0	1	0
	115	1	135	0	0.0	1	0
	116	0	150	1	1.0	2	1
	117	0	170	0	0.0	2	1
	118	1	130	1	1.5	2	1
##	119	1	185	0	0.0	1	0
##	120	0	180	0	0.0	2	1
##	121	0	170	0	0.0	2	1
	122	0	139	0	0.0	1	0
	123	1	140	0	0.0	1	0
	124	0	110	1	1.0	2	1
	125	0	150	0		1	0
		_			0.0		
	126	0	110	0	0.0	1	0
	127	0	190	0	0.0	1	0
##	128	0	175	0	2.0	1	0

##	129	0	140	0	0.0	1	0
##	130	0	152	1	1.5	2	0
	131	0	130	0	0.0	1	0
	132	0	150	1	0.0	2	1
	133	1	122	1	2.0	2	1
##	134	1	124	1	1.5	2	1
##	135	1	120	1	1.0	2	0
##	136	0	175	0	0.0	2	1
	137	1	175	0	0.0	1	0
	138	1	146	0	2.0	1	0
	139		118			2	
		0		1	0.0		1
	140	0	130	1	2.0	2	1
	141	0	94	1	2.5	2	1
##	142	1	125	1	2.5	2	1
##	143	1	158	1	3.0	2	1
##	144	0	155	0	0.0	1	0
##	145	0	150	0	1.0	2	1
	146	0	132	0	0.0	1	0
	147	0	155	0	0.0	1	0
	148	1	176	0	0.0	1	0
	149	0	160	0	0.0	1	0
	150	0	125	1	1.0	2	1
	151	0	120	0	0.0	1	0
	152	0	100	0	0.0	1	0
##	153	0	150	0	0.0	1	0
##	154	0	140	0	0.0	1	0
##	155	1	160	0	0.0	1	0
##	156	0	150	1	3.0	2	1
	157	0	150	1	1.0	2	1
	158	0	130	0	0.0	1	0
	159	0	100	1	2.0	2	1
	160					1	
		1	130	0	1.0		0
	161	2	119	1	0.0	2	1
	162	0	96	1	0.0	2	1
	163	0	174	0	0.0	1	0
##	164	0	160	0	0.0	1	0
##	165	0	150	0	0.0	1	0
##	166	0	140	0	0.0	1	0
##	167	0	175	0	2.0	2	1
	168	1	140	1	5.0	2	1
	169	0	118	0	0.0	1	0
	170	0	100	0	0.0	1	0
						1	
	171	0	160	0	0.0		0
	172	0	160	0	0.0	1	0
	173	0	188	0	0.0	1	0
	174	0	162	0	0.0	1	0
	175	0	172	0	0.0	1	0
##	176	0	134	1	2.0	2	1
##	177	0	135	1	2.0	2	1
##	178	0	105	0	1.5	2	1

##	179	0	150	0	0.0	1	0
##	180	0	150	0	0.0	1	0
	181	0	90	0	0.0	1	0
	182	0	120	1	2.0	2	1
	183	0	150	0	0.0	1	0
		_					
	184	0	124	1	2.0	2	1
	185	1	140	1	1.0	2	0
	186	0	130	0	0.0	1	0
	187	1	92	0	0.0	2	1
	188	0	110	0	0.0	1	0
	189	0	138	1	1.0	2	1
##	190	0	110	1	1.0	2	0
##	191	1	120	1	1.5	2	1
##	192	1	120	0	0.0	1	0
##	193	1	116	0	0.0	1	0
	194	0	160	0	0.0	1	0
	195	0	110	0	0.0	1	0
	196	0	180	0	0.0	1	0
	197		116	0	0.0	1	0
		0					
	198	0	132	0	1.0	2	0
	199	0	136	0	0.0	1	0
	200	0	116	1	0.0	2	1
	201	0	98	0	1.0	2	0
	202	0	150	0	0.0	1	0
##	203	0	150	0	0.0	1	0
##	204	0	146	0	0.0	1	0
##	205	1	150	0	0.0	1	0
##	206	0	100	0	0.0	1	0
##	207	0	140	1	0.0	1	0
	208	2	180	0	0.0	1	0
	209	0	140	0	0.0	2	1
	210	2	185	0	0.0	1	0
	211	0	140	0	0.0	2	1
	212	0	110	0	0.0	2	1
	213	0	140	1	0.0	2	1
	214	0	128	1	1.0	1	0
	215	1	164	0	0.0	1	0
	216	0	98	1	1.5	2	1
	217	1	170	0	0.0	1	0
	218	0	150	0	0.0	2	1
	219	0	137	0	0.0	1	0
	220	0	150	0	0.0	1	0
##	221	0	170	0	0.0	1	0
##	222	0	112	0	0.0	2	1
##	223	0	150	1	1.0	2	1
	224	0	125	0	0.0	1	0
	225	0	185	0	0.0	1	0
	226	0	137	0	0.0	1	0
	227	0	150	0	0.0	2	1
	228	0	140	0	0.0	1	0
πĦ	220	U	170	J	0.0	_	5

##	229	0	134	1	2.5	2	1
	230	0	170	0	0.0	1	0
	231	1	184	0	0.0	1	0
	232	0	158	0	0.0	1	0
	233	0	167	0	0.0	1	0
		_					
	234	0	129	0	0.0	1	0
	235	0	142	0	0.0	1	0
	236	1	140	0	0.0	1	0
	237	0	160	1	1.0	2	0
	238	0	118	1	3.0	2	1
	239	0	136	0	0.0	2	1
	240	0	99	1	2.0	2	1
	241	0	102	1	3.0	2	1
	242	0	155	0	0.0	1	0
##	243	0	142	1	2.0	2	1
##	244	0	143	1	2.0	2	1
##	245	0	118	0	0.0	1	0
##	246	0	103	1	1.0	2	1
##	247	0	137	0	2.0	1	0
##	248	0	150	1	1.5	2	1
	249	1	150	1	2.0	3	1
	250	1	130	1	1.0	2	1
	251	0	120	1	1.0	2	1
	252	0	135	0	0.0	2	1
	253	0	115	0	2.0	2	1
	254	1	115	1	0.0	1	0
	255	0	152	0	1.0	1	0
	256	0	96	1	2.0	2	1
	257	0	130	0	0.0	1	0
	258	2	150	0	0.0	1	0
	259	0	172	0	0.0	1	0
	260						
		0	120	0	0.5	1	0
	261	0	155	0	0.0	1	0
	262	0	165	1	0.0	1	0
	263	0	138	0	1.0	1	0
	264	0	115	1	0.0	2	1
	265	0	125	0	0.0	2	1
	266	0	145	1	1.0	2	1
	267	0	175	0	0.0	1	0
	268	0	110	1	1.0	2	1
	269	0	150	0	0.0	1	0
	270	0	91	1	1.0	2	1
	271	0	145	0	2.0	2	0
	272	0	140	0	0.0	1	0
##	273	0	165	0	0.0	1	0
##	274	0	130	1	3.0	2	1
##	275	2	134	0	0.0	1	0
##	276	0	180	0	0.0	1	0
	277	0	100	0	0.0	1	0
	278	0	150	0	2.0	2	1

##	279	0	126	1	1.5	2	1
##	280	1	126	1	0.8	2	0
	281	1	155	0	0.0	1	0
	282	2	135	0	0.0	1	0
	283	0	122	0	2.0	2	1
##	284	0	160	1	2.0	1	0
##	285	1	160	0	0.0	1	0
##	286	0	170	0	0.0	1	0
	287	0	120	0	0.0	1	0
	288	0	140	0	0.0	1	0
	289		132			1	
		0		0	0.0		0
	290	1	156	0	2.0	1	0
	291	0	180	0	0.0	1	0
##	292	0	138	0	0.0	1	0
##	293	0	135	0	1.0	1	0
##	294	0	148	0	0.0	1	0
##	418	1	112	1	3.0	2	1
	419	1	127	0	0.0	1	0
	420	1	140	1	1.5	3	1
	421	1	149	1	2.5	1	1
	422	2	99	1	1.3	2	0
	424	1	105	1	0.0	2	1
	427	1	157	0	0.5	2	1
	428	1	140	0	0.0	1	0
##	433	1	86	0	0.0	1	0
##	434	0	84	1	2.5	3	1
##	435	0	125	1	2.0	2	1
##	445	1	140	1	0.5	2	1
##	446	0	120	1	1.5	2	1
	447	1	124	1	1.6	2	1
	449	1	110	1	2.0	1	1
	450	0	105	1	1.0	2	1
		_					
	454	1	118	1	1.5	2	1
	456	0	123	1	1.2	2	1
	462	1	118	1	1.9	2	1
##	464	0	117	1	1.3	3	1
##	467	0	160	0	0.0	1	0
##	470	1	97	1	1.6	1	1
##	471	0	161	0	2.0	2	0
	475	1	122	1	1.7	2	1
	478	2	139	0	0.1	1	0
	480	1	148	1	2.0	2	1
	484	0	125	0	2.5	1	1
	487	1	128	1	1.2	2	1
	488	1	180	0	0.4	1	0
	489	1	144	1	2.0	2	1
	490	0	135	0	0.3	1	0
##	491	0	140	1	3.0	2	1
##	492	0	102	1	1.0	2	1
	493	1	108	0	0.0	2	1

##	495	0	127	1	1.7	2	1
	496	0	110	1	2.5	2	_ 1
	497	0	140	1	1.0	2	1
##	498	0	69	0	1.0	3	0
##	499	0	148	1	3.0	3	1
	500	1	130	1	0.0	2	1
	501		130	1	1.0	2	1
		0					
	502	0	140	1	4.0	3	1
##	503	0	138	1	2.0	2	1
##	504	1	140	1	2.0	2	1
##	505	1	138	0	0.2	1	0
	506	0	112	1	3.0	3	1
	507	1	131	1	1.2	2	1
	508	0	112	1	3.0	2	1
##	509	0	80	1	0.0	1	0
##	511	0	110	0	0.0	2	1
	512	0	126	0	0.3	1	0
	513	1	88	1	2.0	2	
							1
	514	1	153		-0.1	1	0
	515	1	150	1	1.3	2	1
##	518	0	132	0	0.0	0	1
##	519	0	120	1	1.5	2	1
##	521	1	121	1	1.0	1	1
##	522	1	128	0	0.5	2	0
	523	1	135	1	4.0	3	1
	524	2	120	1	1.0	1	1
	525	0	117	1	1.0	2	1
	526	1	150	0	0.0	1	0
	527	0	144	0	0.1	1	0
	528	2	113	1	1.7	2	1
	529	0	135	0	0.3	1	0
	530	0	127	1	1.5	2	1
##	531	0	109	1	1.4	2	1
##	532	0	128	1	1.1	2	1
	533	1	115	1	1.8	2	1
	534	1	102	0	0.0	2	1
	535	1	140	1	2.0	2	1
	536	0	135	1	2.5	3	1
	539	1	130	1	4.0	3	1
	540	0	112	1	2.0	2	1
##	541	2	100	0	0.0	1	0
##	542	1	122	1	1.2	2	1
##	543	2	120	0	3.5	3	1
	544	0	105	1	1.5	2	1
	545	1	129	1	3.0	3	1
	546	0	120	1	0.0	1	0
	547	1	139	0	0.2	1	0
	548		162	0		2	1
		1			0.0		
	549	1	100	0	1.5	3	1
##	550	0	140	0	1.5	1	1

##	551	1	135	0	0.2	1	0
##	552	0	73	0	2.0	2	1
	553	2	86	0	0.0	1	0
	554	0	108	1	1.8	2	1
##	555	0	116	1	1.8	2	1
##	556	1	160	0	0.3	1	0
	557	1	118	1	0.0	2	1
	558	0	112	1	2.0	3	0
		_					
	559	1	122	1	1.8	2	1
##	560	1	124	1	1.4	2	1
##	561	0	102	1	4.0	3	1
##	562	1	137	0	0.2	1	0
	563	1	141	0	0.1	1	0
	564	0	154	1	2.0	2	0
	565	1	126	1	1.1	2	1
##	566	1	160	1	2.0	2	1
##	567	1	115	1	1.7	2	1
##	568	0	128	1	1.5	2	0
	569	1	115	1	0.0	2	1
	570	_	105	1		3	1
		0			1.5		
	571	0	110	1	2.5	2	1
	572	1	119	1	2.0	3	1
	573	0	109	1	1.5	2	1
##	574	1	135	1	0.5	2	1
##	575	2	130	0	1.5	2	1
##	576	1	112	1	1.5	2	1
##	577	0	126	1	1.2	2	1
##	578	1	120	1	3.0	2	1
##	579	0	110	1	1.9	2	1
##	580	2	119	1	3.0	3	1
##	581	1	110	1	1.8	2	1
	582	2	130	1	1.0	2	1
	583		159				
		0		1	1.5	1	1
	584	2	84	1	0.0	2	1
##	585	2	126	0	0.3	1	0
##	586	1	116	1	1.5	2	1
##	587	1	120	0	0.8	2	1
	588	0	122	1	2.0	2	1
	589	2	165	0	1.0	2	0
	590	1	122	1	2.0	2	1
	591	0	94	0	0.0	2	1
	592	1	133	0	0.2	1	0
			110			1	
	593	1		0	0.0		0
	594	2	150	1	2.0	3	1
	595	2	130	0	0.0	2	1
	596	2	113	1	1.0	1	1
	597	2	140	1	0.5	2	1
	598	2	100	0	0.0	2	1
	599	1	136	0	0.2	1	0
##	600	2	127	1	1.7	3	1

##	601	0	98	0	1.5	2	1
##	602	1	96	1	1.0	2	0
	603	0	123	1	1.3	2	1
	604		98		0.0	2	1
		0		1			
	605	1	118	1	0.0	2	1
##	606	0	112	1	1.5	3	1
##	607	0	151	1	0.0	1	0
##	608	2	96	0	1.0	1	0
	609	1	108	1	3.0	2	1
	610	1	128	1	1.5	2	1
	611						
		1	138	1	0.0	2	1
	612	0	126	0	0.0	2	1
	613	1	154	0	0.0	2	1
##	614	1	137	0	0.2	1	0
##	615	1	100	0	0.0	2	1
	616	2	135	0	0.3	1	0
	617	2	93	1	0.0	2	1
	618	2	109	0	2.4	2	1
	619	2	160	0	1.6	2	0
	620	0	141	0	0.3	1	1
##	621	0	105	1	0.2	2	0
##	622	2	121	1	0.2	1	0
##	623	0	140	0	0.4	1	0
	624	2	142	1	0.6	2	1
	625	2	142	1	1.2	2	1
	626	2	170	0	1.2	2	1
	627	2	154	0	4.0	2	1
	628	0	161	0	0.5	2	0
##	629	2	111	1	0.0	1	0
##	630	2	180	0	0.0	1	0
	631	0	145	0	2.6	2	1
	632	2	159	0	0.0	1	0
	633		125				
		0		0	1.6	2	0
	634	0	120	1	1.8	2	1
	635	2	155	1	3.1	3	1
	636	2	144	1	1.8	2	0
##	637	0	178	1	1.4	1	0
	638	2	129	1	2.6	2	1
	639	2	180	0	0.2	2	0
	640	0	181	0	1.2	2	0
	641		143		0.1	1	
		0		0			0
	642	2	159	1	0.0	1	0
	643	0	139	0	0.2	1	0
##	644	2	152	1	0.0	2	0
##	645	2	157	0	0.6	1	0
	646	2	165	0	2.5	2	1
	647	2	130	0	0.0	1	0
	648	2	150	0	0.4	2	1
	649	2	138	0	2.3	1	0
##	650	0	170	0	0.0	1	0

## 651 2 140 1 3.4 ## 652 2 126 1 0.9 ## 653 2 150 1 0.0 ## 654 2 138 1 1.9 ## 655 2 125 0 0.0 ## 656 0 150 0 0.0 ## 657 2 186 0 0.0 ## 658 0 181 0 0.0	3 2 1 1	1 1
## 652 2 126 1 0.9 ## 653 2 150 1 0.0 ## 654 2 138 1 1.9 ## 655 2 125 0 0.0 ## 656 0 150 0 0.0 ## 657 2 186 0 0.0	2 1 1	1
## 653 2 150 1 0.0 ## 654 2 138 1 1.9 ## 655 2 125 0 0.0 ## 656 0 150 0 0.0 ## 657 2 186 0 0.0	1 1	
## 654 2 138 1 1.9 ## 655 2 125 0 0.0 ## 656 0 150 0 0.0 ## 657 2 186 0 0.0	1	
## 655 2 125 0 0.0 ## 656 0 150 0 0.0 ## 657 2 186 0 0.0		1
## 656 0 150 0 0.0 ## 657 2 186 0 0.0	4	1
## 657	1	1
## 657	1	0
	1	0
## 026		
	1	1
## 659 0 163 0 0.0	1	0
## 660	1	0
## 661 0 156 0 0.0	1	0
## 662 0 134 0 2.2	2	1
## 663 2 165 0 0.0	1	0
	1	1
## 665	1	1
## 666 0 120 1 0.0	2	1
## 667 2 114 0 1.0	2	1
## 668 0 125 1 1.8	2	1
## 669 0 184 0 0.0	1	0
## 670 2 157 0 0.8	1	0
	1	
		0
## 672 2 175 0 0.6	2	0
## 673	1	0
## 674 2 125 1 3.6	2	1
## 675 0 96 0 0.0	1	0
## 676	2	1
## 677 2 103 0 1.4	2	1
## 678 0 173 0 0.2	1	0
	_	U
## C70 0 1/2 1 1 2	2	
## 679 0 142 1 1.2	2	1
## 680 0 169 0 0.0	1	1 0
		1
## 680 0 169 0 0.0	1	1 0
## 680 0 169 0 0.0 ## 681 0 171 0 0.9 ## 682 2 150 0 2.3	1 1 3	1 0 0 0
## 680 0 169 0 0.0 ## 681 0 171 0 0.9 ## 682 2 150 0 2.3 ## 683 2 112 1 0.6	1 1 3 2	1 0 0 0 1
## 680 0 169 0 0.0 ## 681 0 171 0 0.9 ## 682 2 150 0 2.3 ## 683 2 112 1 0.6 ## 684 2 186 1 0.0	1 1 3 2 1	1 0 0 0 1 0
## 680 0 169 0 0.0 ## 681 0 171 0 0.9 ## 682 2 150 0 2.3 ## 683 2 112 1 0.6 ## 684 2 186 1 0.0 ## 685 2 152 0 0.0	1 1 3 2 1	1 0 0 0 1 0
## 680 0 169 0 0.0 ## 681 0 171 0 0.9 ## 682 2 150 0 2.3 ## 683 2 112 1 0.6 ## 684 2 186 1 0.0 ## 685 2 152 0 0.0 ## 686 0 149 0 0.3	1 3 2 1 1	1 0 0 0 1 0 1
## 680 0 169 0 0.0 ## 681 0 171 0 0.9 ## 682 2 150 0 2.3 ## 683 2 112 1 0.6 ## 684 2 186 1 0.0 ## 685 2 152 0 0.0 ## 686 0 149 0 0.3 ## 687 0 152 0 0.0	1 1 3 2 1 1 2	1 0 0 1 0 1 0
## 680 0 169 0 0.0 ## 681 0 171 0 0.9 ## 682 2 150 0 2.3 ## 683 2 112 1 0.6 ## 684 2 186 1 0.0 ## 685 2 152 0 0.0 ## 686 0 149 0 0.3	1 3 2 1 1	1 0 0 0 1 0 1
## 680 0 169 0 0.0 ## 681 0 171 0 0.9 ## 682 2 150 0 2.3 ## 683 2 112 1 0.6 ## 684 2 186 1 0.0 ## 685 2 152 0 0.0 ## 686 0 149 0 0.3 ## 687 0 152 0 0.0	1 1 3 2 1 1 2	1 0 0 1 0 1 0
## 680 0 169 0 0.0 ## 681 0 171 0 0.9 ## 682 2 150 0 2.3 ## 683 2 112 1 0.6 ## 684 2 186 1 0.0 ## 685 2 152 0 0.0 ## 686 0 149 0 0.3 ## 687 0 152 0 0.0 ## 688 0 140 1 3.6 ## 689 0 163 1 0.6	1 1 3 2 1 1 2 1 2 1	1 0 0 1 0 1 0 1
## 680 0 169 0 0.0 ## 681 0 171 0 0.9 ## 682 2 150 0 2.3 ## 683 2 112 1 0.6 ## 684 2 186 1 0.0 ## 685 2 152 0 0.0 ## 686 0 149 0 0.3 ## 687 0 152 0 0.0 ## 688 0 140 1 3.6 ## 689 0 163 1 0.6 ## 690 2 143 0 0.0	1 1 3 2 1 1 2 1 2 1 1	1 0 0 1 0 1 0 1 0
## 680	1 1 3 2 1 1 2 1 2 1 2 1 2	1 0 0 1 0 1 0 1 0 0
## 680 0 169 0 0.0 ## 681 0 171 0 0.9 ## 682 2 150 0 2.3 ## 683 2 112 1 0.6 ## 684 2 186 1 0.0 ## 685 2 152 0 0.0 ## 686 0 149 0 0.3 ## 687 0 152 0 0.0 ## 688 0 140 1 3.6 ## 689 0 163 1 0.6 ## 690 2 143 0 0.0 ## 691 1 116 0 1.1 ## 692 0 142 0 0.3	1 1 3 2 1 1 2 1 2 1 1 2 1 1 2	1 0 0 1 0 1 0 1 1 0 0
## 680	1 1 3 2 1 1 2 1 2 1 1 2 1 2 1 2	1 0 0 1 0 1 0 1 0 0 0
## 680	1 1 3 2 1 1 2 1 2 1 1 2 1 2 1 2 2 1 2 2	1 0 0 1 0 1 1 0 0 0 0
## 680 0 169 0 0.0 ## 681 0 171 0 0.9 ## 682 2 150 0 2.3 ## 683 2 112 1 0.6 ## 684 2 186 1 0.0 ## 685 2 152 0 0.0 ## 686 0 149 0 0.3 ## 687 0 152 0 0.0 ## 688 0 140 1 3.6 ## 689 0 163 1 0.6 ## 690 2 143 0 0.0 ## 691 1 116 0 1.1 ## 692 0 142 0 0.3 ## 693 2 147 1 0.0 ## 694 2 148 1 3.0 ## 695	1 1 3 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	1 0 0 1 0 1 0 1 0 0 0
## 680	1 1 3 2 1 1 2 1 2 1 1 2 1 2 1 2 2 1 2 2	1 0 0 1 0 1 1 0 0 0 0
## 680	1 1 3 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	1 0 0 1 0 1 0 1 0 0 0 0
## 680	1 1 3 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	1 0 0 1 0 1 0 1 0 0 0 1 0 0
## 680	1 1 3 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	1 0 0 1 0 1 0 1 0 0 0 0 1 0 0
## 680	1 1 3 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	1 0 0 1 0 1 0 1 0 0 0 1 0 0

##	701	2	168	0	2.0	2	0
##	702	0	126	1	1.5	2	0
	703	2	178	0	0.8	1	0
	704	2	140	0	0.0	1	0
	705	2	145	0	4.2	3	0
##	706	0	163	0	0.0	1	0
##	707	2	128	0	2.6	2	1
	708	0	164	1	0.0	1	0
	709	2	169	0		1	1
					0.0		
	710	2	109	1	2.2	2	1
	711	2	108	1	0.0	2	1
##	712	0	168	0	1.0	1	1
##	713	2	118	1	1.0	2	1
	714	2	151	0	0.4	2	0
	715	0	156	0	0.1	1	1
	716		133			1	
		0		0	0.2		0
	717	0	162	0	1.1	1	0
	718	0	175	0	0.6	2	0
##	719	0	71	0	1.0	2	1
##	720	0	163	0	0.0	1	0
	721	2	124	0	1.0	2	1
	722	2	147	0	1.4	2	1
	723						
		2	166	0	0.5	2	1
	724	0	143	1	1.2	2	0
	725	2	157	0	2.6	2	1
##	726	0	162	1	0.0	1	1
##	727	0	138	0	0.0	2	0
##	728	1	117	1	3.4	2	1
	729	0	153	0	0.0	1	0
	730		161				
		2		0	0.0	1	1
	731	0	170	0	0.0	1	0
	732	0	162	0	0.0	1	0
##	733	0	162	0	0.0	2	0
##	734	2	144	0	0.8	1	1
##	735	2	133	1	4.0	3	1
	736	0	114	0	2.6	3	0
	737	2	103	1	1.6	3	1
	738	0	139	0	2.0	2	1
	739	2	116	1	3.2	2	1
##	740	0	88	1	1.2	2	1
##	741	2	151	0	0.8	1	0
##	742	2	152	0	0.5	3	0
	743	0	163	0	0.0	1	0
	744	0	99	1	1.8	2	1
	745	2	169	0	0.1	2	0
	746	0	158	0	0.8	1	0
##	747	0	160	1	1.4	1	1
##	748	0	169	1	1.8	2	1
	749	2	132	1	0.1	1	1
	750	0	178	0	0.0	1	0
ππ	150	U	1/0	J	0.0	1	J

##	751	2	96	1	2.2	3	1
##	752	2	165	0	1.6	1	0
	753	2	160	1	1.4	3	0
	754		172			1	
		0		0	0.0		0
	755	2	144	1	1.2	2	1
	756	0	192	0	0.7	1	0
##	757	0	168	1	0.0	1	0
##	758	2	132	0	2.0	2	1
##	759	2	182	0	0.0	1	0
	760	0	163	0	0.6	2	1
	761	2	125	1	1.4	1	0
	762	2	195	0	0.0	1	1
	763	0	95	1	2.0	2	1
	764	0	160	0	0.0	1	1
##	765	2	114	1	2.0	2	1
##	766	2	173	0	3.2	1	1
##	767	2	172	1	0.0	1	0
	768	0	179	0	0.0	1	0
	769	0	158	0	1.6	2	0
	770	2	167	0	0.0	1	0
	771	0	122	0	2.0	2	0
	772	2	149	0	0.5	1	0
	773	0	172	0	0.0	1	0
	774	0	111	1	5.6	3	1
##	775	2	170	0	0.0	1	0
##	776	2	162	0	1.9	2	0
##	777	0	165	1	1.0	2	1
##	778	0	182	1	3.8	2	1
##	779	0	154	1	1.4	2	1
	780	0	155	0	0.0	1	0
	781	2	130	1	3.0	2	1
	782					1	
		0	161	0	0.0		0
	783	0	154	1	0.0	1	0
	784	2	159	0	0.0	1	0
	785	2	152	0	1.2	3	0
##	786	2	152	1	0.2	2	0
##	787	2	174	0	1.4	2	1
##	788	2	131	0	0.1	2	0
	789	2	146	0	2.0	2	1
	790	2	125	1	0.9	2	1
	791	2	115	0	1.5	2	0
	792	2	174	0	0.0	1	0
	793	0	106	0	1.9	2	1
	794	0	122	1	4.2	2	1
	795	0	147	0	3.6	2	1
	796	0	163	0	0.2	2	1
##	797	0	163	0	0.0	1	0
##	798	0	194	0	0.8	3	0
	799	2	150	1	1.9	2	1
	800	2	158	0	0.0	1	1
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##	801	2	122	0	0.6	2	0
##	802	2	173	0	0.0	1	0
	803	0	162	0	1.9	1	0
	804	2	105	1		2	1
					2.1		
	805	0	147	0	0.1	1	0
	806	2	157	0	1.2	2	0
##	807	0	112	1	2.9	2	1
##	808	0	160	0	1.2	1	0
##	809	0	125	1	2.6	3	1
	810	0	156	0	0.0	1	0
	811	2	156	1	0.0	1	1
	812	0	175	0	0.0	1	0
	813	2	161	0	1.4	2	0
##	814	2	122	0	1.0	2	0
##	815	0	158	0	1.6	2	0
##	816	0	151	0	1.8	1	0
	817	2	162	1	0.0	1	1
	818	0	151	0	1.0	1	0
	819	2	171	0	0.0	1	1
	820	2	141	1	2.8	2	1
	821	0	173	1	1.6	1	1
##	822	2	145	1	0.8	2	1
##	823	0	178	0	1.2	2	0
##	824	0	160	0	0.0	1	0
##	825	2	154	1	0.6	2	0
	826	0	131	1	1.8	2	1
	827	0	187	0	3.5	3	0
	828	2	159	0	0.2	2	1
	829		166			2	
		2		0	2.4		0
	830	0	165	0	0.2	2	0
	831	2	131	1	2.2	2	1
	832	2	202	0	0.0	1	0
##	833	2	172	0	1.4	1	0
##	834	2	172	0	0.0	1	0
##	835	0	154	1	0.0	1	0
	836	2	147	0	0.4	2	0
	837	0	170	0	0.0	1	0
	838	0	126	1	2.8	2	1
	839	2	127	0	2.8	2	1
	840	0	174	0	1.6	1	0
	841	2	132	1	1.8	1	1
##	842	0	182	0	1.4	1	0
##	843	0	132	0	0.0	2	0
##	844	0	97	0	1.2	2	1
	845	2	136	1	3.0	2	1
	846	2	162	0	1.0	1	0
	847	2	190	0	0.0	2	0
	848	2	146	1	1.0	2	1
	849	0	140	0	1.2	2	1
##	850	2	185	0	0.0	1	0

##	851	0	161	1	0.0	1	1
##	852	0	146	0	1.8	2	0
	853	2	145	0	6.2	3	1
	854	2	160	0		1	
					0.0		0
	855	2	120	1	2.5	2	1
	856	2	156	0	0.0	1	0
##	857	0	172	0	0.2	1	0
##	858	2	150	1	1.6	2	1
##	859	2	182	0	0.0	1	0
	860	2	143	0	0.4	2	0
	861	2	160	0	3.6	3	1
	862	2	142	0	1.5	1	0
	863	0	144	1	1.4	1	1
	864	2	158	0	0.6	1	1
	865	0	148	0	0.8	1	0
##	866	2	155	0	3.0	2	1
##	867	2	142	1	2.8	2	1
##	868	0	113	0	1.4	2	1
	869	2	188	0	0.0	1	0
	870	2	153	0	0.0	1	1
	871	0	123	0	0.6	1	0
	872	0	157	0	1.6	1	0
	873	0	162	0	0.4	1	0
	874	0	137	1	1.0	2	0
##	875	0	132	1	1.2	2	1
##	876	0	158	0	0.0	1	1
##	877	0	171	0	1.5	1	0
##	878	0	172	0	0.0	1	0
	879	2	132	1	2.4	2	1
	880	2	160	0	1.8	2	1
	881	0	171	0	0.6	1	0
	882	_	168			3	
		0		0	1.0		1
	883	0	162	0	0.5	1	0
	884	0	173	0	0.0	1	0
	885	2	153	0	1.3	2	0
##	886	0	148	0	0.4	2	0
##	887	2	108	1	1.5	2	1
##	888	2	150	0	2.3	3	0
##	889	2	108	1	1.5	2	1
	890	2	129	1	2.6	2	1
	891	0	187	0	3.5	3	0
	892	2	172	0	1.4	1	0
	893	0	178	0	0.8	1	0
	894	2	160	0	3.6	3	1
	895	0	163	1	0.6	1	0
	896	2	147	0	1.4	2	1
##	897	2	155	1	3.1	3	1
##	898	0	148	0	0.4	2	0
	899	2	153	0	1.3	2	0
	900	2	142	1	0.6	2	1
			-	_		-	_

##	901	0	173	0	0.0	1	0
##	902	0	162	0	0.5	1	0
	903	0	174	0	1.6	1	0
	904		168	0		3	1
		0			1.0		
	905	0	160	0	1.2	1	0
	906	0	139	0	0.2	1	0
##	907	0	171	0	0.6	1	0
##	908	2	144	1	1.8	2	0
##	909	2	162	0	1.0	1	0
	910	2	160	0	1.8	2	1
	911	2	173	0	3.2	1	1
	912	2	132	1	2.4	2	1
	913	0	158	0	1.6	2	0
##	914	0	172	0	0.0	1	0
##	915	0	114	0	2.6	3	0
##	916	0	171	0	1.5	1	0
##	917	2	114	1	2.0	2	1
	918	0	151	0	1.8	1	0
	919	0	160	1	1.4	1	1
	920	0	158	0	0.0	1	1
	921	0	161	0	0.5	2	0
	922	0	179	1	0.4	1	0
	923	0	178	0	0.0	1	0
	924	2	120	1	2.5	2	1
##	925	2	112	1	0.6	2	1
##	926	0	132	1	1.2	2	1
##	927	0	137	1	1.0	2	0
##	928	2	114	0	1.0	2	1
##	929	0	178	1	1.4	1	0
	930	0	162	0	0.4	1	0
	931	0	157	0	1.6	1	0
	932	2	169	0	0.0	1	1
	933	2	165	0	2.5	2	1
	934	0	123	0	0.6	1	0
	935	2	128	0	2.6	2	1
##	936	2	157	0	0.8	1	0
##	937	2	152	0	1.2	3	0
##	938	0	168	0	0.0	1	0
##	939	0	140	0	0.4	1	0
	940	2	153	0	0.0	1	1
	941	2	188	0	0.0	1	0
	942	0	144	1	1.4	1	1
	943	2	109	1	2.2	2	1
	944	0	163	0	0.6	2	1
	945	2	158	0	0.0	1	1
	946	2	152	0	0.5	3	0
##	947	2	125	1	1.4	1	0
##	948	0	142	1	1.2	2	1
	949	2	160	1	1.4	3	0
	950	2	131	1	2.2	2	1
				_	• =	-	_

##	951	0	170	0	0.0	1	0
##	952	0	113	0	1.4	2	1
	953	2	142	1	2.8	2	1
	954	2	155	0	3.0	2	1
	955	2	165	0	1.6	1	0
	956	2	140	1	3.4	3	1
	957	0	147	0	3.6	2	1
	958	0	148	0	0.8	1	0
##	959	0	163	0	0.2	2	1
##	960	0	99	1	1.8	2	1
##	961	2	158	0	0.6	1	1
##	962	2	177	0	0.0	1	1
	963	2	151	0	0.8	1	0
	964	2	141	1	2.8	2	1
	965	2	142	0	1.5	1	0
	966	2	180	0	0.2	2	0
	967	2	111	1	0.8	1	1
	968	2	148	1	3.0	2	0
	969	2	143	0	0.4	2	0
	970	2	182	0	0.0	1	0
	971	2	150	1	1.6	2	1
##	972	0	172	0	0.2	1	0
##	973	2	180	0	0.0	1	0
##	974	2	156	0	0.0	1	0
##	975	2	115	0	0.0	1	0
	976	2	160	0	0.0	1	0
	977	2	149	0	0.5	1	0
	978	2	151	0	0.4	2	0
	979	2	145	0	6.2		1
	980					3	
		0	146	0	1.8	2	0
	981	0	175	0	0.6	2	0
	982	2	172	0	0.0	1	0
	983	0	161	1	0.0	1	1
	984	2	142	1	1.2	2	1
##	985	2	157	0	2.6	2	1
##	986	0	158	0	0.8	1	0
##	987	2	186	0	0.0	1	0
##	988	2	185	0	0.0	1	0
##	989	2	174	0	0.0	1	0
	990	2	159	0	0.0	1	0
	991	2	130	0	0.0	_ 1	0
	992	0	139	0	2.0	2	1
	993		156			1	
		0		0	0.0		0
	994	0	162	1	0.0	1	1
	995	2	150	0	0.4	2	1
	996	0	140	1	3.6	2	1
	997	0	140	0	1.2	2	1
	998	2	146	1	1.0	2	1
##	999	2	144	1	1.2	2	1
##	1000	2	190	0	0.0	2	0

##	1001	2	136	1	3.0	2	1
	1002	0	97	0	1.2	2	1
	1003	0	132	0	0.0	2	0
	1004	2	165	0	0.0	1	0
	1005	0	182	0	1.4	1	0
	1006	2	132	1	1.8	1	1
##	1007	2	127	0	2.8	2	1
##	1008	2	150	1	0.0	1	1
##	1009	2	154	0	4.0	2	1
	1010	0	143	1	1.2	2	0
	1011	0	111	1	5.6	3	1
	1012		174	0	1.4	2	1
		2					
	1013	2	175	0	0.6	2	0
	1014	2	133	1	4.0	3	1
	1015	0	126	1	2.8	2	1
##	1016	0	170	0	0.0	1	0
##	1017	0	163	0	0.0	1	0
##	1018	2	147	0	0.4	2	0
	1019	0	154	1	0.0	1	0
	1020	2	202	0	0.0	1	0
	1021	2	186	1	0.0	1	0
	1022	0	165	0	0.2	2	0
	1023	2	161	0	1.4	2	0
	1024	0	125	1	2.6	3	1
	1025	2	103	0	1.4	2	1
	1026	0	130	1	1.6	2	1
##	1027	2	166	0	2.4	2	0
##	1028	0	164	1	0.0	1	0
##	1029	2	159	0	0.2	2	1
##	1030	0	184	0	0.0	1	0
	1031	0	131	1	1.8	2	1
	1032	2	154	1	0.6	2	0
	1033	0	152	0	0.0	1	1
	1034						
		2	124	0	1.0	2	1
	1035	0	179	0	0.0	1	0
	1036	2	170	0	0.0	1	0
	1037	0	160	0	0.0	1	0
	1038	0	178	0	1.2	2	0
##	1039	2	122	0	0.6	2	0
##	1040	2	160	0	1.6	2	0
##	1041	2	145	1	0.8	2	1
	1042	2	96	1	2.2	3	1
	1043	2	109	0	2.4	2	1
	1044	0	173	1	1.6	1	1
	1045	2	171	0	0.0	1	
							1
	1046	2	170	0	1.2	2	1
	1047	0	151	0	1.0	1	0
	1048	0	156	0	0.0	1	0
	1049	2	162	1	0.0	1	1
##	1050	0	158	0	1.6	2	0

##	1051	2	122	0	1.0	2	0
##	1052	0	175	0	0.0	1	0
##	1053	0	168	1	0.0	1	0
	1054	0	169	0	0.0	1	0
	1055	2	159	1	0.0	1	0
	1056	2	156	1	0.0	1	1
	1057	0	138	0	0.0	2	0
	1058	0	112	1	2.9	2	1
	1059	2	111	1	0.0	1	0
	1060	0	143	1	0.0	2	1
	1061	2	157	0	1.2	2	0
	1062	2	132	0	2.0	2	1
	1063	0	88	1	1.2	2	1
	1064		147	0		1	
		0			0.1		0
	1065	2	105	1	2.1	2	1
	1066	0	162	0	1.9	1	0
	1067	2	173	0	0.0	1	0
	1068	2	166	0	0.5	2	1
	1069	2	150	1	1.9	2	1
	1070	2	178	0	0.8	1	0
	1071	2	145	0	4.2	3	0
	1072	2	161	0	0.0	1	1
	1073	0	179	0	0.0	1	0
	1074	0	194	0	0.8	3	0
##	1075	0	120	1	0.0	2	1
##	1076	2	195	0	0.0	1	1
##	1077	2	146	0	2.0	2	1
##	1078	0	163	0	0.0	1	0
##	1079	0	122	1	4.2	2	1
##	1080	2	143	1	0.1	2	1
##	1081	0	106	0	1.9	2	1
##	1082	2	115	0	1.5	2	0
##	1083	2	125	1	0.9	2	1
##	1084	2	131	0	0.1	2	0
	1085	2	152	1	0.2	2	0
	1086	0	162	0	1.1	1	0
	1087	2	125	0	0.0	1	1
	1088	2	159	0	0.0	1	0
	1089	0	154	1	0.0	1	0
	1090	0	173	0	0.2	1	0
	1091	0	133	0	0.2	1	0
	1092	0	161	0	0.0	1	0
	1093	2	147	1	0.0	2	1
	1094	2	130	1	3.0	2	1
	1095	2	126	1	0.9	2	
	1096					1	1
		0	155	0	0.0		0
	1097	0	154	1	1.4	2	1
	1098	0	170	0	0.0	1	0
	1099	0	182	1	3.8	2	1
##	1100	2	168	0	2.0	2	0

## 1101	0	165	1	1.0	2	1
## 1102	0	160	0	0.0	1	1
## 1103	2	162	0	1.9	2	0
## 1104	0	172	0	0.0	1	0
## 1105	2	152	1	0.0	2	0
## 1106	0	122	0	2.0	2	0
## 1107	2	182	0	0.0	1	0
## 1108	2	172	1	0.0	1	0
## 1109	2	167	0	0.0	1	0
## 1110	0	179	0	0.0	1	0
## 1111	0	95	1	2.0	2	1
## 1112	0	169	1	1.8	2	1
## 1113	0	192	0	0.7	1	0
## 1114	0	143	0	0.1	1	0
## 1115	0	172	0	0.0	1	0
## 1116	2	108	1	0.0	2	1
## 1117	2	132	1	0.1	1	1
## 1118	2	169	0	0.1	2	0
## 1119	1	117	1	3.4	2	1
## 1120	2	126	0	0.8	1	1
## 1121	2	121	1	0.2	1	0
## 1122	0	163	0	0.0	1	0
## 1123	2	116	1	3.2	2	1
## 1124	2	103	1	1.6	3	1
## 1124 ## 1125	2	144	0			1
				0.8	1	
## 1126	0	162	0	0.0	2	0
## 1127	0	162	0	0.0	1	0
## 1128	0	153	0	0.0	1	0
## 1129	0	163	0	0.0	1	0
## 1130	0	163	0	0.0	1	0
## 1131	0	14 5	0	2.6	2	1
## 1132	0	96	0	0.0	1	0
## 1133	0	71	0	1.0	2	1
## 1134	0	156	0	0.1	1	1
## 1135	2	118	1	1.0	2	1
## 1136	0	168	0	1.0	1	1
## 1137	2	140	0	0.0	1	0
## 1138	0	126	1	1.5	2	0
## 1139	0	105	0	2.0	2	1
## 1140	0	105	1	0.2	2	0
## 1141	2	157	0	0.6	1	0
## 1142	0	181	0	1.2	2	0
## 1143	0	173		0.0	2	0
			0			
## 1144	0	142	0	0.3	1	0
## 1145	1	116	0	1.1	2	0
## 1146	2	143	0	0.0	1	0
## 1147	0	141	0	0.3	1	1
## 1148	0	149	0	0.3	2	0
## 1149	2	152	0	0.0	1	1
## 1150	0	171	0	0.9	1	0
1130	3	±, ±	J	0.5	_	J

## 1151	0	169	0	0.0	1	0
## 1152	2	125	1	3.6	2	1
## 1153	0	125	1	1.8	2	1
## 1154	0	156	1	1.0	2	1
## 1155	0	134	0	2.2	2	1
## 1156	0	181	0	0.0	1	1
## 1157	0	150	0	0.0	1	0
## 1158	2	138	1	1.9	1	1
## 1159	2	138	0	2.3	1	0
## 1160	0	120	1	1.8	2	1
## 1161	0	125	0	1.6	2	0
## 1162	0	162	0	0.8	1	1
## 1163	2	155	0	0.6	2	0
## 1164	2	152	0	0.0	2	0
## 1165	0	152	0	0.0	2	0
## 1166	2	164	0	0.0	1	1
## 1167	0	131	0	0.6	2	0
## 1168	0	143	1	3.0	2	1
## 1169	0	179	0	0.0	1	0
## 1170	1	130	1	2.0	2	1
## 1171	0	174	0	0.0	1	0
## 1172	0	161	0	0.0	1	1
## 1173	1	140	0	4.4	3	1
## 1174	2	146	1	2.8	2	1
## 1175	0	144	0	0.4	2	0
## 1176	2	163	0	0.0	1	0
## 1177	0	169	0	0.0	3	0
## 1178	2	150	0	0.8	2	1
## 1179	0	166	0	1.2	1	0
## 1180	0	144	1	2.8	3	1
## 1181	2	144	1	4.0	1	1
## 1182	0	136	1	0.0	2	1
## 1183	0	182	0	0.0	1	0
## 1184	2	90	0	1.0	2	1
## 1185	0	123	1	0.2	2	1
## 1186	0	132	0	1.2	2	1
## 1187	0	141	0	3.4	2	1
## 1188	0	115	1	1.2	2	1
## 1189	2	174	0	0.0	2	1
## 1190	0	173	0	0.0	1	0
dim(heart)						
## [1] 1190	12					
dim(heart_cle	ean)					
## [1] 1018	12					
colnames(hear	rt_clean)					

```
## [1] "age" "sex" "chest.pain.type"
## [4] "resting.bp.s" "cholesterol" "fasting.blood.sugar"
## [7] "resting.ecg" "max.heart.rate" "exercise.angina"
## [10] "oldpeak" "ST.slope" "target"
```

I am going to finish this project in Google colab and the column names would be a problem "the name separated by".". I am going to rename the ones that is problematic.

```
colnames(heart clean)[colnames(heart clean) == "chest.pain.type" ] <-</pre>
"chest_pain_type"
colnames(heart_clean)[colnames(heart_clean) == "resting.bp.s" ] <-</pre>
"resting_bp_s"
colnames(heart clean)[colnames(heart clean) == "fasting.blood.sugar" ] <-</pre>
"fasting_blood_sugar"
colnames(heart_clean)[colnames(heart_clean) == "resting.ecg" ] <-</pre>
"resting_ecg"
colnames(heart_clean)[colnames(heart_clean) == "max.heart.rate" ] <-</pre>
"max heart rate"
colnames(heart_clean)[colnames(heart_clean) == "exercise.angina" ] <-</pre>
"exercise_angina"
colnames(heart clean)[colnames(heart clean) == "ST.slope" ] <- "ST slope"</pre>
colnames(heart_clean)
## [1] "age"
                               "sex"
                                                      "chest_pain_type"
## [4] "resting_bp_s"
                               "cholesterol"
                                                      "fasting_blood_sugar"
## [7] "resting_ecg"
                                                       "exercise_angina"
                               "max_heart_rate"
## [10] "oldpeak"
                               "ST slope"
                                                      "target"
# perform PCA on the swiss dataset
    note: variables are centered and scaled before analysis
pc_heart <- prcomp(heart_clean, center = T, scale. = T)</pre>
# inspect the attributes of the PCA object returned by prcomp
attributes(pc_heart)
## $names
## [1] "sdev"
                   "rotation" "center"
                                          "scale"
##
## $class
## [1] "prcomp"
# see value section of the help for the prcomp for more details
help(prcomp)
## starting httpd help server ... done
# calculate the proportion of exaplained variance (PEV) from the std values
pc_heart_var <- pc_heart$sdev^2</pre>
pc_heart_var
```

```
## [1] 3.4316643 1.3794357 1.1074205 0.9775069 0.9334707 0.8922695 0.7836522
## [8] 0.6976649 0.5345477 0.4964314 0.4178373 0.3480988

pc_heart_PEV <- pc_heart_var / sum(pc_heart_var)
pc_heart_PEV

## [1] 0.28597203 0.11495298 0.09228504 0.08145891 0.07778923 0.07435579
## [7] 0.06530435 0.05813874 0.04454564 0.04136928 0.03481978 0.02900824

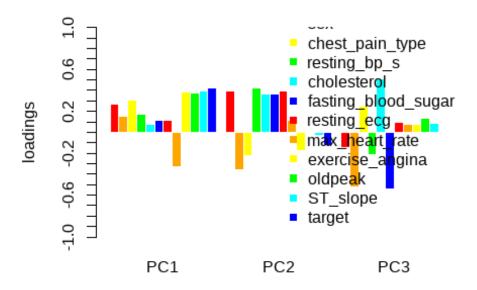
# plot the variance per PC
# note: this can be done using the plot function on the prcomp object
plot(pc_heart)</pre>
```

Variances 0.0 1.0 2.0 3.0 Dc_heart

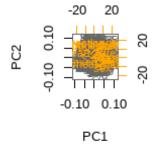
```
# plot the cumulative value of PEV for increasing number of additional PCs
# note: add an 80% threshold line to inform the feature extraction
# according to the plot the first 3 PCs should be selected
opar <- par(no.readonly = TRUE)
plot(
    cumsum(pc_heart_PEV),
    ylim = c(0,1),
    xlab = 'PC',
    ylab = 'cumulative PEV',
    pch = 20,
    col = 'orange'
)
abline(h = 0.8, col = 'red', lty = 'dashed')</pre>
```

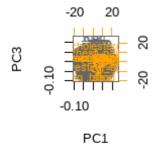
```
par(opar)
# get and inspect the loadings for each PC
    note: loadings are reported as a rotation matrix (see lecture)
pc_heart_loadings <- pc_heart$rotation</pre>
pc_heart_loadings
                               PC1
                                             PC2
                                                          PC3
                                                                       PC4
##
                         0.2733733
                                    0.397598231 -0.141652230
                                                                0.19529925
## age
                         0.1541771 -0.355089865 -0.526270396 -0.26079461
## sex
                                                  0.247590096
## chest_pain_type
                         0.3112215
                                  -0.223569389
                                                               0.03588838
## resting bp s
                         0.1703685
                                    0.425028899 -0.214305178
                                                                0.28336686
## cholesterol
                         0.0798028
                                    0.370361200
                                                  0.507975480
                                                               0.13864458
## fasting_blood_sugar
                         0.1164798
                                    0.370155677 -0.540013003 -0.01143243
                         0.1135241
                                    0.389671534
                                                  0.094829988 -0.73973835
## resting_ecg
## max_heart_rate
                        -0.3336951
                                    0.111655925
                                                  0.078366160 -0.41983066
                         0.3855692 -0.172945498
                                                  0.076334955
                                                              0.07731400
## exercise_angina
## oldpeak
                         0.3774355 -0.007807335
                                                  0.130638927 -0.17752886
## ST slope
                         0.3964217 -0.033683822
                                                  0.089568405 -0.14910242
                         0.4279776 -0.124878756
                                                  0.006586668 -0.09854191
## target
                                 PC<sub>5</sub>
                                              PC6
                                                           PC7
                                                                         PC8
##
                        -0.005911474
                                      0.47925309 -0.159980892
## age
                                                                 0.287816267
                         0.245521240 -0.29965695 -0.351125227
                                                                 0.384380295
## sex
## chest_pain_type
                         0.405745676
                                      0.13704073 -0.073143968 -0.523093061
## resting bp s
                        -0.284882983 -0.37835509 -0.505038659
                                                               -0.369835692
## cholesterol
                         0.426670065 -0.45741194
                                                   0.016758531
                                                                 0.418394452
## fasting_blood_sugar
                        0.314963579 -0.11772110 0.622345480 -0.186710522
```

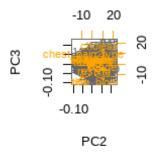
```
## resting ecg
                    ## max heart rate
                    ## exercise_angina
                    -0.485074595 -0.12966873 0.140633998 0.096110603
## oldpeak
## ST_slope
                    -0.351332310 -0.07609459 0.345884782 0.133198030
                    0.099362250 -0.14120650 -0.040704516 0.001267336
## target
##
                           PC9
                                      PC10
                                                 PC11
                                                            PC12
## age
                    -0.300981742   0.500465060   0.017429723   -0.17165633
## sex
                    ## chest pain type
                    -0.479944382 -0.101847357 -0.274820171 -0.10925830
## resting_bp_s
                    0.016504087 -0.206253531 -0.003741695 -0.07156292
## cholesterol
                    -0.006274670 -0.044435869 -0.102242089 -0.01129295
## fasting blood sugar -0.005968049 -0.043669919 -0.081378509 0.11778076
## resting_ecg
                   0.259963360 -0.198943237 -0.027595983 0.03083796
## max_heart_rate
                    -0.318718613   0.552039754   0.100441327   -0.20815401
## exercise angina
                   0.668526795  0.509255946  -0.087202664  -0.13718261
## oldpeak
                    ## ST slope
                    -0.055993950 -0.272638602 0.102844954 -0.67588035
## target
                    -0.153679420 0.026927598 0.785318277 0.34488948
# plot the loadings for the first three PCs as a barplot
   note: two vectors for colours and labels are created for convenience
     for details on the other parameters see the help for barplot and legend
opar <- par(no.readonly = TRUE)
colvector = c('red', 'orange', 'yellow', 'green', 'cyan', 'blue')
labvector = c('PC1', 'PC2', 'PC3')
barplot(
 pc_heart_loadings[,c(1:3)],
 beside = T,
 yaxt = 'n',
 names.arg = labvector,
 col = colvector,
 ylim = c(-1,1),
 border = 'white',
 ylab = 'loadings'
)
axis(2, seq(-1,1,0.1))
legend(
  'bottomright',
 bty = 'n',
 col = colvector,
 pch = 15
 row.names(pc heart loadings)
```



```
par(opar)
# generate a biplot for each pair of important PCs (and show them on the same
page)
   note: the option choices is used to select the PCs - default is 1:2
opar <- par(no.readonly = TRUE)</pre>
par(mfrow = c(2,2))
biplot(
  pc_heart,
  scale = TRUE,
  col = c('grey40','orange')
biplot(
  pc_heart,
  choices = c(1,3),
  scale = TRUE,
  col = c('grey40','orange')
)
biplot(
  pc_heart,
  choices = c(2,3),
  scale = TRUE,
  col = c('grey40','orange')
)
par(opar)
```







Saving clean data to csv

write.csv(heart_clean, "Clean_heart_data.csv")

Format of the Project

- 1. Data Decscritption and Research Question
- 2. Data Preparation and Clean(done on Rstudio)
- 3. Exploratory Data Analysis Some done in RStudio and the rest will be done on this note book.
- 4. Machine Learning and Prediction.
- 5. Deep Learning Prediction
- 6. Performance Evaluation and Comparision of Methods
- 7. Data Management Plan and author contributioon

1. Data Description and Research

This notebook looks into using various Python-based machine-learning and data science libraries in attemtp to build a machine learning model capabale of predictiing whether or not someone has heart disease based on thier medical attribute.

Problem Definition

In a statement:

Given clinical parameters about a patient, can we predict whether our not they have heart disease. Given that the target is binary it means it is a binary classification problem

Data

This heart disease dataset is curated by combining 5 popular heart disease datasets already available independently but not combined before. In this dataset, 5 heart datasets are combined over 11 common features which makes it the largest heart disease dataset available so far for research purposes. The five datasets used for its curation are:

- Cleveland
- Hungarian
- Switzerland
- Long Beach VA
- Statlog (Heart) Data Set.

The original data came from the Cleavland data from the UCI Machine Learning Repository. https://ieee-dataport.org/open-access/heart-disease-dataset-comprehensive

Evaluation

If we can reach 90% accuracy at predicting whether or not a patient has heart disease during the proof of concept, we'll pursue the project.

Features

Create Data Dictionary

- 1. age Age, age in years(data type numeric)
- 2. sex Sex(data type binary):
 - ∘ 1 = male;
 - \circ 0 = female.
- 3. chest pain type chest pain type(data type nominal):
 - 1: Typical angina: chest pain related decrease blood supply to the heart;
 - 2: Atypical angina: chest pain not related to heart;
 - 3: Non-anginal pain: typically esophageal spasms (non heart related);
 - 4: Asymptomatic: chest pain not showing signs of disease.
- 4. resting blood pressure resting bp s(in mm Hg on admission to the hospital), (data type numeric):
 - o anything above 130-140 is typically cause for concern.
- 5. serum cholesterol Cholesterol in mg/dl(data type numeric):
 - serum = LDL + HDL + .2 * triglycerides;
 - above 200 is cause for concern;
- 6. fasting blood sugar fasting blood sugar(1,0 > 120 mg/dl), (data type binary):
 - 1 = true;
 - \circ 0 = false;
 - '>126' mg/dL signals diabetes.
- 7. resting electrocardiogram results -restecg results(data type nominal):
 - 0: Nothing to note;
 - 1: ST-T Wave abnormality:
 - can range from mild symptoms to severe problems;
 - signals non-normal heart beat.

- 2: Possible or definite left ventricular hypertrophy:
 - Enlarged heart's main pumping chamber.
- 8. maximum heart rate achieved max heart rate(71 202), (data type numeric)
- 9. exercise induced angina exercise angina(data type binary):
 - ∘ 1 = yes;
 - \circ 0 = no.
- 10. oldpeak =ST oldpeak(depression induced by exercise relative to rest), (data type numeric):
 - looks at stress of heart during excercise;
 - unhealthy heart will stress more.
- 11. the slope of the peak exercise ST segment ST slope(data type nominal):
 - 1: Upsloping: better heart rate with excercise (uncommon);
 - 2: Flatsloping: minimal change (typical healthy heart);
 - 3: Downslopins: signs of unhealthy heart.
- 12. target have disease or not (1=yes, 0=no) (= the predicted attribute) (data type binary)

3. 3. Evaluation Data Analyis

```
# Importing all the tools I need
# Regular EDA and plotting libraries
import tensorflow as tf
import numpy as np # np is short for numpy
import pandas as pd # pandas is so commonly used, it's shortened to pd
import matplotlib.pyplot as plt
import seaborn as sns # seaborn gets shortened to sns
# We want our plots to appear in the notebook
%matplotlib inline
## Models
from sklearn.linear model import LogisticRegression
from sklearn.neighbors import KNeighborsClassifier as KNN #helps for classification
from sklearn.ensemble import RandomForestClassifier
from sklearn.preprocessing import OneHotEncoder #helps for label one-hot encoding
from sklearn.preprocessing import LabelEncoder #helps to encode bool/text variables to be num
## Model evaluators
from sklearn.model selection import train test split, cross val score #helps to split trainin
from sklearn.metrics import confusion matrix, classification report
from sklearn.metrics import precision score, recall score, f1 score
from sklearn.metrics import plot roc curve
from sklearn.metrics import accuracy_score #helps to evaluate the prediction accuracy
```

#from sklearn.model_selection import train_test_split

Load the data

```
from google.colab import drive # Mount the google drive for data loading
drive.mount('/content/drive')
```

Mounted at /content/drive

After completing stage one and two I saved it to a csv file and uploaded to my drive to con
df = pd.read_csv("/content/drive/MyDrive/Integrated assessment/Clean_heart_data.csv")
df.shape #rows and columns

(1018, 13)

Data Exploration (exploratory data analysis or EDA)

My goal here is to find out more about the data and become a subject matter export on the dataset I am working with.

- 1. What question(s) are you trying to solve?
- 2. What kind of data do we have and how do we treat different types? Completed
- 3. What's missing from the data and how do you deal with it? Completed
- 4. Where are the outliers and why should you care about them? Completed
- 5. How can you add, change or remove features to get more out of your data? Pursuing.

```
# The data looks ot be in good shape after stage loading.
df.head()
```

	Unnamed: 0	age	sex	<pre>chest_pain_type</pre>	resting_bp_s	cholesterol	fasting_blood_sugar
0	1	40	1	2	140	289	0
1	2	49	\cap	3	160	180	Λ

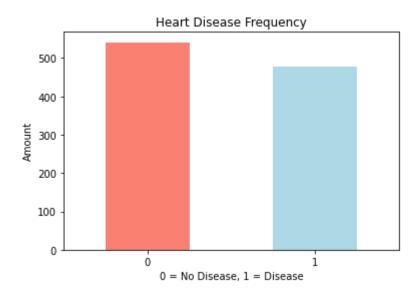
determing how much class
df["target"].value_counts()

0 5411 477

Name: target, dtype: int64

```
df["target"].value_counts().plot(kind = "bar", color =["salmon","lightblue"]);
plt.title("Heart Disease Frequency")
plt.xlabel("0 = No Disease, 1 = Disease")
plt.ylabel("Amount")
plt.xticks(rotation = 0);
```

The total number of person with heart diseasse is just under those without. We can look aa



```
## Heart Disease according to sex
df.sex.value_counts()
```

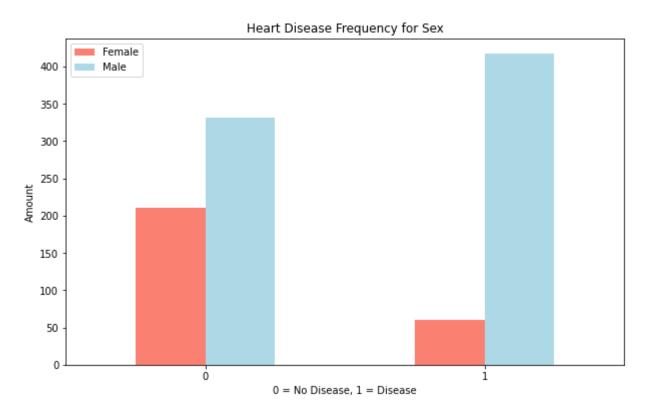
748
 270

Name: sex, dtype: int64

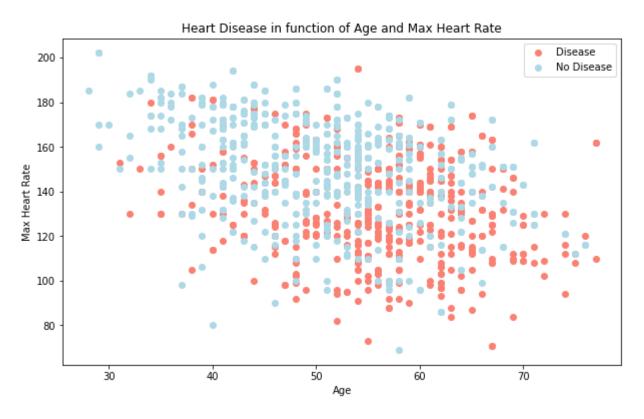
```
# compare target column with sex coloumn
pd.crosstab(df.target, df.sex)
# The data set contains more male participants.
```

```
sex 0 1
target
0 210 331
```

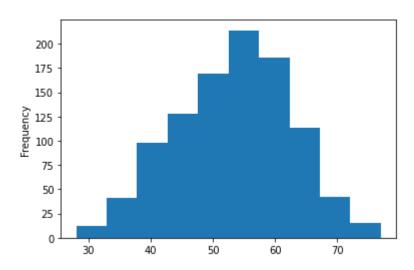
```
# create a plot of crosstab
pd.crosstab(df.target, df.sex).plot(kind = "bar", color = ["salmon", "lightblue"], figsize =
plt.title("Heart Disease Frequency for Sex")
plt.xlabel("0 = No Disease, 1 = Disease")
plt.ylabel("Amount")
plt.legend(["Female", "Male"])
plt.xticks(rotation = 0);
```



Age vs. max Heart Rate for Disease



Checking distribution of age column with a Histogram
df.age.plot.hist();



Heart Disease Frequecy per Chest pain Type

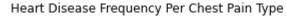
chest pain type:

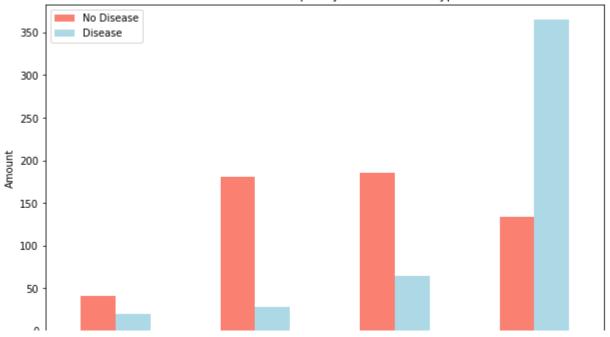
- * 1: Typical angina: chest pain related decrease blood supply to the heart;
- * 2: Atypical angina: chest pain not related to heart;
- * 3: Non-anginal pain: typically esophageal spasms (non heart related);
- * 4: Asymptomatic: chest pain not showing signs of disease.

pd.crosstab(df.chest_pain_type, df.target)

target	0	1
chest_pain_type		
1	41	20
2	181	28
3	185	64
4	134	365

```
# Make the crosstab more visible
pd.crosstab(df.chest_pain_type, df.target).plot(kind = "bar", figsize = (10, 6), color = ["sa
# Asymtomatic is very high in value and this chest_pain feature needs tobe further investgate
plt.title("Heart Disease Frequency Per Chest Pain Type")
plt.xlabel("Chest Pain Type")
plt.ylabel("Amount")
plt.legend(["No Disease", "Disease"])
plt.xticks(rotation = 0);
```





Need to refresh my mind on the data.
df.head()

	Unnamed: 0	age	sex	<pre>chest_pain_type</pre>	resting_bp_s	cholesterol	fasting_blood_sugar
0	1	40	1	2	140	289	0
1	2	49	0	3	160	180	0
2	3	37	1	2	130	283	0
3	4	48	0	4	138	214	0
4							•

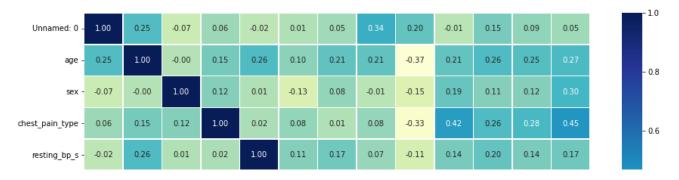
Make a correlation matrix
df.corr()

	Unnamed: 0	age	sex	<pre>chest_pain_type</pre>	resting_bp_s	choles
Unnamed: 0	1.000000	0.254598	-0.065389	0.059660	-0.024570	0.0
age	0.254598	1.000000	-0.000812	0.154295	0.259836	0.0
sex	-0.065389	-0.000812	1.000000	0.115732	0.012293	-0.
chest_pain_type	0.059660	0.154295	0.115732	1.000000	0.021156	0.0
resting_bp_s	-0.024570	0.259836	0.012293	0.021156	1.000000	0.1
cholesterol	0.009710	0.098634	-0.132119	0.083201	0.112951	1.0
fasting blood sugar	0.048949	0.209705	0.083098	0.007749	0.169577	0.0

[#] Better to plot it in order to better understand the data.

```
corr_matrix = df.corr()
fig, ax = plt.subplots(figsize = (15, 10))
ax = sns.heatmap(corr_matrix, annot = True, linewidths = 0.5, fmt = ".2f", cmap = "YlGnBu");
# bottom, top = ax.get_ylim()
# ax.set_ylim(bottom + 0.5, top - 0.5)
```

[#] Slope and chess_pain are amoung the features that has good correlation values



3. Machine Learning Modeling and Prediction(RandomForest model)

- We have 11 independent variables and a dependent(target) variable which is binary.
- Given clinical parameters about a patient, can we predict whether or not they have heart disease?
- Since the target is binary, we can use clasification models for the problem.

df.head()

	Unnamed:	age	sex	<pre>chest_pain_type</pre>	resting_bp_s	cholesterol	fasting_blood_sugar
0	1	40	1	2	140	289	0
1	2	49	0	3	160	180	0
2	3	37	1	2	130	283	0
3	4	48	0	4	138	214	0
4							•

I am going to use all the vairable to predict the target variable.

Hence, I shall split of the target variable from the dataframe.

```
# split x/y
x = df.drop("target", axis = 1)
y = df["target"]

# Looking at x we can now see target is no longer int he dataframe.
x
```

	Unnamed: 0	age	sex	<pre>chest_pain_type</pre>	resting_bp_s	cholesterol	fasting_blood_sug
0	1	40	1	2	140	289	
1	2	49	0	3	160	180	
2	3	37	1	2	130	283	
3	4	48	0	4	138	214	
4	5	54	1	3	150	195	
1013	1186	45	1	1	110	264	
1014	1187	68	1	4	144	193	
1015	1188	57	1	4	130	131	
1016	1189	57	0	2	130	236	

```
# Now lut us inspect y.
y
0 0
```

Name: target, Length: 1018, dtype: int64

split the data into test and train sets. I will use 20% as test_size since the data is fai
np.random.seed(42)

x_train, x_test, y_train, y_test = train_test_split(x, y, test_size = 0.2)

x_train

	Unnamed:	age	sex	<pre>chest_pain_type</pre>	resting_bp_s	cholesterol	fasting_blood_suga
137	138	39	1	2	120	241	
780	953	60	1	4	145	282	
754	927	61	1	3	150	243	
289	290	48	0	2	133	308	
899	1072	60	0	4	158	305	
						•••	
106	107	48	0	4	120	254	
270	271	47	0	3	130	235	

We now have 814 samples to train on y_train, len(y_train)

```
(137
780
754
289
899
       1
106
       0
270
       0
860
     1
435
       0
102
Name: target, Length: 814, dtype: int64, 814)
```

We have now split the data into training and test sets, so it's time to build a machine learning model. We will train the model (find the patterns) on the training set, and then we will test it (use the patterns) on the test set.

I am going to try one of the different machine learning models. Choosing the right estimatar was done by using this map(https://scikit-learn.org/stable/tutorial/machine_learning_map/index.html):

- 1. Logistic Regression(not going to be used)
- 2. K-Nearest Neighbours Classifier
- 3. Random Forest Classifier.

Because our dataset is small, I can experiment to see which algorithm performs the best. However, I shall Random Forest and KNN. Both models can use the below mention procedures.

For training a model, model.fit(X_train, y_train), and scoring a model, model.score(X_train, y_train), all of the algorithms in the Scikit-Learn library use the same functions.

 (x_{test}, y_{test}) score score() returns the percentage of correct predictions (1.0 = 100% correct).

Because the algorithms we've chosen use the same methods for fitting and evaluating them, let's put them in a dictionary and create a which fits and scores them.

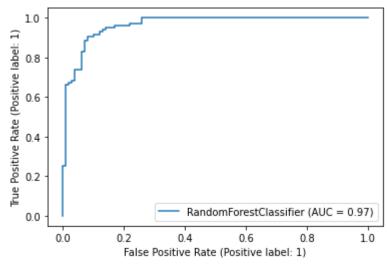
```
model = RandomForestClassifier(n_estimators=900)
model.fit(x_train, y_train)
y pred = model.predict(x test)
```

Evaluation of our classification models beyond "Accuracy." We want:

- ROC curve and AUC score plot_roc_curve()
- Confusion matrix confusion_matrix()
- Classification report classification_report()
- Precision precision_score()
- Recall recall_score()
- F1-score f1_score()

```
# Plot ROC curve and calculate AUC metric
plot_roc_curve(model, x_test, y_test);
```

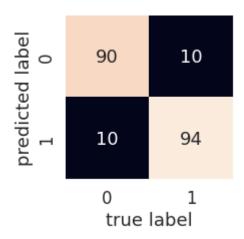
/usr/local/lib/python3.7/dist-packages/sklearn/utils/deprecation.py:87: FutureWarning: F warnings.warn(msg, category=FutureWarning)



```
# Display confusion matrix
print(confusion_matrix(y_test, y_pred))
[[90 10]
      [10 94]]
```

```
# Seaborn already imported above
sns.set(font scale=1.5) # Increase font size
```

- # There are 10 cases when the model should have predict zero when it shold have been one.
- # There are 10 case when the model shoudl have predicted one when it shoud have predict zero.



print(classification_report(y_test,y_pred))

	precision	recall	f1-score	support
0	0.90 0.90	0.90 0.90	0.90 0.90	100 104
accuracy macro avg weighted avg	0.90 0.90	0.90 0.90	0.90 0.90 0.90	204 204 204

- Precision Thus score is too bad. If the model falsely predict someone had heart disease further test can be done to varify.
- Recall Seeing that this model is to be used to detect heart disease. For every 10 person that
 is predict to have no heart disease one will be incorrect. Ideally i would have like this recall
 score around 0.95 for this use.
- F1 score A perfect model achieves an F1 score of 1.0. and our model

- Support The number of samples each metric was calculated on.
- Accuracy The accuracy of the model in decimal form. Perfect accuracy is equal to 1.0. and this model gives us 0.80. Needs improvement.
- Macro avg This model does not take class imbalace into account. Since we have clas imbalance I would not think to much about the score.
- Weighted avg This method favors the majority class which in this case is zero.

4. Deep learning Modeling and Prediction(KNN model)

- 1. Data structure visualization.
- 2. Viariable transformation.
- 3. Training data and testing data split.

```
# Getting my data
data = pd.read csv("/content/drive/MyDrive/Integrated assesment/Clean heart data.csv")
df.shape #rows and columns
     (1018, 13)
data le = np.zeros like(data)
                                                 # Set up a matrix for encoded data
data le[:,0] = data.iloc[:,0]
                                                 # The first coloum requires no encoding
for i in range(1, data.shape[1]):
                                                 # Encode the data using label encoder
  le = LabelEncoder().fit(data.iloc[:,i])
   data le[:,i] = le.transform(data.iloc[:,i])
print (data_le)
     [[1.000e+00 1.200e+01 1.000e+00 ... 1.000e+00 1.000e+00 0.000e+00]
      [2.000e+00 2.100e+01 0.000e+00 ... 1.100e+01 2.000e+00 1.000e+00]
      [3.000e+00 9.000e+00 1.000e+00 ... 1.000e+00 1.000e+00 0.000e+00]
      [1.188e+03 2.900e+01 1.000e+00 ... 1.300e+01 2.000e+00 1.000e+00]
      [1.189e+03 2.900e+01 0.000e+00 ... 1.000e+00 2.000e+00 1.000e+00]
      [1.190e+03 1.000e+01 1.000e+00 ... 1.000e+00 1.000e+00 0.000e+00]]
input = data_le[:,:-1] # Features
labels = data le[:,-1:] # labels
print ('Shape of features:', input.shape)
print ('Shape of labels:', labels.shape)
    Shape of features: (1018, 12)
    Shape of labels: (1018, 1)
```

```
onehot = OneHotEncoder()  #An objective for one-hot package
labels_onehot = onehot.fit_transform(labels).toarray() #Transform labels to be the one-hot fo
print (labels_onehot)

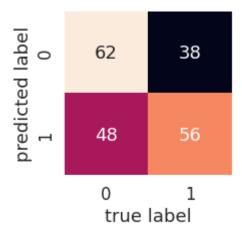
[[1. 0.]
       [0. 1.]
       [1. 0.]
       ...
       [0. 1.]
       [0. 1.]
       [0. 1.]
       [1. 0.]]
```

KNN Model Training

KNN Model Testing and Evaluation

```
prediction = classifier.predict(x test)
                                                               # Predict the testing set
print (accuracy score(prediction, y test))
                                                               # Evaluate the accuracy in the
     0.5784313725490197
print(confusion matrix(y test,prediction))
     [[62 38]
      [48 56]]
sns.set(font scale=1.5) # Increase font size
def plot_conf_mat(y_test, y_pred):
   Plots a confusion matrix using Seaborn's heatmap().
   fig, ax = plt.subplots(figsize=(3, 3))
    ax = sns.heatmap(confusion_matrix(y_test, prediction),
                     annot=True, # Annotate the boxes
                     cbar=False)
   plt.xlabel("true label")
   plt.ylabel("predicted label")
plot conf mat(y test, prediction)
```

- # There are 38 cases when the model should have predict zero when it shold have been one.
- # There are 48 case when the model shoull have predicted one when it should have predict zero.



print(classification_report(y_test,prediction))

	precision	recall	f1-score	support
0	0.56 0.60	0.62 0.54	0.59 0.57	100 104
accuracy macro avg weighted avg	0.58 0.58	0.58 0.58	0.58 0.58 0.58	204 204 204

RandomForest out perform this model in every one of the evaluation metrics. Granted KNN performs poorly with outliers and an imbalance dataset, but, I removed the outliers and the imbalance is very small.

Nearal Network

Create Training and Testing Datasets

Now that we have preprocessed the data appropriately, we can split it into training and testings datasets. We will use Sklearn's train_test_split() function to generate a training dataset (80 percent of the total data) and testing dataset (20 percent of the total data).

Building and Training the Neural Network¶

Now that we have our data fully processed and split into training and testing datasets, we can begin building a neural network to solve this classification problem. Using keras, we will define a simple neural network with one hidden layer. Since this is a categorical classification problem, we will use a softmax activation function in the final layer of our network and a categorical_crossentropy loss during our training phase.

Importing tools.

```
# Importing the Keras libraries and packages
import keras
from keras.models import Sequential
from keras.layers import Dense
from keras.layers import LeakyReLU,PReLU,ELU
from keras.layers import Dropout
from sklearn.preprocessing import StandardScaler
from sklearn.model selection import train test split
Split data into x/y
X = df.iloc[:,0:-1].values
y = df.iloc[:,-1].values
Split into Test/Train
# Split data in Train set and Test set
X_train,X_test,y_train,y_test = train_test_split(X,y,test_size=0.3)
# Feature scaling
sc = StandardScaler()
X train = sc.fit transform(X train)
X test = sc.transform(X test)
# Initialising the ANN
classifier = Sequential()
# Adding the input layer and the first hidden layer
classifier.add(Dense(units = 12, kernel_initializer = 'he_uniform',activation='relu',input_di
# Adding the second hidden layer
classifier.add(Dense(units = 12, kernel initializer = 'he uniform',activation='relu'))
```

```
# Adding the thrid hidden layer
classifier.add(Dense(units = 12, kernel initializer = 'he uniform',activation='relu'))
# Adding the output layer
classifier.add(Dense(units = 1, kernel initializer = 'glorot uniform', activation = 'sigmoid'
# Compiling the ANN
classifier.compile(optimizer = 'Adamax', loss = 'binary crossentropy', metrics = ['accuracy']
# Fitting the ANN to the Train set
model history = classifier.fit(X train,y train,validation split=0.33, batch size=12,epochs=10
  Epoch 1/100
  Epoch 2/100
  40/40 [=========== ] - 0s 5ms/step - loss: 0.2595 - accuracy: 0.895
  Epoch 3/100
  40/40 [=========== ] - 0s 5ms/step - loss: 0.2592 - accuracy: 0.899
  Epoch 4/100
  40/40 [============ ] - 0s 5ms/step - loss: 0.2582 - accuracy: 0.897
  Epoch 5/100
  Epoch 6/100
  40/40 [============= ] - 0s 5ms/step - loss: 0.2556 - accuracy: 0.901
  Epoch 7/100
  40/40 [============= ] - 0s 5ms/step - loss: 0.2546 - accuracy: 0.901
   Epoch 8/100
  40/40 [============== ] - 0s 6ms/step - loss: 0.2535 - accuracy: 0.899
  Epoch 9/100
  Epoch 10/100
  40/40 [============= ] - Os 5ms/step - loss: 0.2519 - accuracy: 0.901
  Epoch 11/100
  Epoch 12/100
  Epoch 13/100
  Epoch 14/100
  40/40 [============= ] - Os 7ms/step - loss: 0.2483 - accuracy: 0.901
   Epoch 15/100
  40/40 [============== ] - Os 5ms/step - loss: 0.2476 - accuracy: 0.901
   Epoch 16/100
  Epoch 17/100
  40/40 [============= ] - Os 4ms/step - loss: 0.2460 - accuracy: 0.901
  Epoch 18/100
  Epoch 19/100
  Epoch 20/100
  Epoch 21/100
  40/40 [============= ] - Os 3ms/step - loss: 0.2425 - accuracy: 0.901
```

```
Epoch 22/100
   40/40 [============= ] - Os 3ms/step - loss: 0.2417 - accuracy: 0.901
   Epoch 23/100
   40/40 [============== ] - Os 2ms/step - loss: 0.2407 - accuracy: 0.903
   Epoch 24/100
   Epoch 25/100
   Epoch 26/100
   Epoch 27/100
   Epoch 28/100
   40/40 [============ ] - 0s 4ms/step - loss: 0.2366 - accuracy: 0.903
   Epoch 29/100
# Predicting the Test set results
y_pred = classifier.predict(X_test)
y pred = (y pred > 0.5)
for i in range(len(y_pred)):
  print("Predicted %d----> Expected %d" %(y pred[[i]],y test[i]))
   Predicted 0----> Expected 0
   Predicted 0----> Expected 0
   Predicted 0----> Expected 1
   Predicted 0----> Expected 0
   Predicted 1----> Expected 1
   Predicted 0----> Expected 0
   Predicted 0----> Expected 0
   Predicted 0----> Expected 0
   Predicted 1----> Expected 1
   Predicted 0----> Expected 0
   Predicted 0----> Expected 0
   Predicted 1----> Expected 1
   Predicted 0----> Expected 0
   Predicted 0----> Expected 0
   Predicted 1----> Expected 1
   Predicted 0----> Expected 0
   Predicted 1----> Expected 1
   Predicted 1----> Expected 1
   Predicted 0----> Expected 0
   Predicted 0----> Expected 0
   Predicted 0----> Expected 0
   Predicted 1----> Expected 1
   Predicted 1----> Expected 1
   Predicted 0----> Expected 0
   Predicted 0----> Expected 0
   Predicted 1----> Expected 1
   Predicted 0----> Expected 0
   Predicted 1----> Expected 1
   Predicted 0----> Expected 0
   Predicted 1----> Expected 1
```

```
Predicted 0----> Expected 0
    Predicted 1----> Expected 1
    Predicted 0----> Expected 0
    Predicted 1----> Expected 1
    Predicted 1----> Expected 1
    Predicted 1----> Expected 1
    Predicted 1----> Expected 1
    Predicted 0----> Expected 0
    Predicted 1----> Expected 1
    Predicted 0----> Expected 1
    Predicted 1----> Expected 1
    Predicted 0----> Expected 0
    Predicted 1----> Expected 0
    Predicted 0----> Expected 0
    Predicted 1----> Expected 1
    Predicted 1----> Expected 1
    Predicted 1----> Expected 1
    Predicted 1----> Expected 0
    Predicted 1----> Expected 1
    Predicted 0----> Expected 0
    Predicted 0----> Expected 0
    Predicted 1----> Expected 1
    Predicted 0----> Expected 0
    Predicted 1----> Expected 1
    Predicted 1----> Expected 1
    Predicted 1----> Expected 1
    Predicted 1----> Expected 1
# Making the Confusion Matrix
from sklearn.metrics import confusion matrix
cm = confusion matrix(y test, y pred)
cm
    array([[142, 21],
           [ 24, 119]])
# Calculate the Accuracy
from sklearn.metrics import accuracy score
score=accuracy_score(y_pred,y_test)
score
    0.8529411764705882
print(classification_report(y_pred, y_test))
```

	precision	recall	f1-score	support
False True	0.87 0.83	0.86 0.85	0.86 0.84	166 140
accuracy macro avg	0.85	0.85	0.85 0.85	306 306

```
weighted avg
```

0.85

0.85

0.85

306

```
# list all data in history
print(model_history.history.keys())
# summarize history for accuracy
plt.plot(model history.history['accuracy'])
plt.plot(model_history.history['val_accuracy'])
plt.title('model accuracy')
plt.ylabel('accuracy')
plt.xlabel('epoch')
plt.legend(['train', 'test'], loc='upper left')
plt.show()
# summarize history for loss
plt.plot(model history.history['loss'])
plt.plot(model history.history['val loss'])
plt.title('model loss')
plt.ylabel('loss')
plt.xlabel('epoch')
plt.legend(['train', 'test'], loc='upper left')
plt.show()
```

There are 21 cases when the model should have predict zero when it shold have been one.

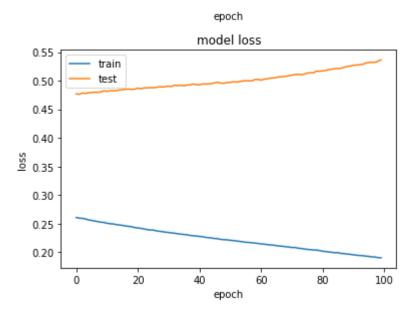
There are 24 case when the model should have predicted one when it should have predict zero.

<u>ζ</u> |

Data Management Plan ad Author Contribution

This plan is in the appendix in the report. Authors:

Mr. Sookchand Harripersad.



Heart Disease Dataset Attribute Description

S.No.	Attribute	Code given	Unit	Data type
1	age	Age	in years	Numeric
2	sex	Sex	1, 0	Binary
3	chest pain type	chest pain type	1,2,3,4	Nominal
4	resting blood pressure	resting bp s	in mm Hg	Numeric
5	serum cholesterol	cholesterol	in mg/dl	Numeric
6	fasting blood sugar	fasting blood sugar	1,0 > 120 mg/dl	Binary
7	resting electrocardiogram results	resting ecg	0,1,2	Nominal
8	maximum heart rate achieved	max heart rate	71–202	Numeric
9	exercise induced angina	exercise angina	0,1	Binary
10	oldpeak =ST	oldpeak	depression	Numeric
11	the slope of the peak exercise ST segment	ST slope	0,1,2	Nominal
12	class	target	0,1	Binary

Description of Nominal Attributes

Attribute	Description	
Sex	1 = male, 0= female;	
Chest Pain Type	Value 1: typical angina	
	Value 2: atypical angina	
	Value 3: non-anginal pain	
	Value 4: asymptomatic	
Fasting Blood	(fasting blood sugar > 120 mg/dl) (1 = true; 0 = false)	
sugar		
Resting	Value 0: normal	
electrocardiogram	Value 1: having ST-T wave abnormality (T wave inversions	
results	and/or ST elevation or depression of > 0.05 mV)	
	Value 2: showing probable or definite left ventricular	
	hypertrophy by Estes' criteria	
Exercise induced	1 = yes; 0 = no	
angina		
the slope of the	Value 1: upsloping	
peak exercise ST	Value 2: flat	
segment	Value 3: downsloping	
class	1 = heart disease, 0 = Normal	

Re: Predictive Data Analysis Group 4

Sookchand Harripersad (Student) <2121403@brunel.ac.uk>

Fri 11/03/2022 11:36

To: Stasha Lauria (Staff) < Stasha.Lauria@brunel.ac.uk>

Dear Stasha

Thank you for your support!

Have a great weekend.

Kind regards Sookchand Harripersad

From: Stasha Lauria (Staff) <Stasha.Lauria@brunel.ac.uk>

Sent: 11 March 2022 08:11

To: Sookchand Harripersad (Student) <2121403@brunel.ac.uk>

Subject: Re: Predictive Data Analysis Group 4

Dear Sookchand,

Thanks for the update. Yes you are having the correct approach. Looking forward to seeing your work.

Regards, Stasha

From: Sookchand Harripersad (Student) <2121403@brunel.ac.uk>

Sent: 10 March 2022 14:53

To: Stasha Lauria (Staff) <Stasha.Lauria@brunel.ac.uk>

Subject: Re: Predictive Data Analysis Group 4

Dear Stasha,

I am yet to receive any communication from PDA group 4. I have moved on to my individual part of the project and you can see there has been no attempt of anyone to communicate regarding this project.

Thank you,

kind regards

Sookchand Harripersad

From: Sookchand Harripersad (Student) <2121403@brunel.ac.uk>

Sent: 28 February 2022 13:47

To: Stasha Lauria (Staff) <Stasha.Lauria@brunel.ac.uk>

Cc: William Marshall (Student) <1839575@brunel.ac.uk>; Zeerak Jawed (Student) <1723254@brunel.ac.uk>;

Rehab Musse (Student) <1807434@brunel.ac.uk>; Sandilya Bojja (Student) <1735848@brunel.ac.uk> **Subject:** Fw: Predictive Data Analysis Group 4

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- 1. Data Description and Research Question.
- 2. Data Preparation and Clean
- 3. Exploratory Data Analysis

I am now moving on to the project's individual aspect, and I have chosen to use the Random Forest.

Thank you,

Kind regards

Sookchand Harripersad

From: Sookchand Harripersad (Student) <2121403@brunel.ac.uk>

Sent: 28 February 2022 09:44

To: William Marshall (Student) <1839575@brunel.ac.uk>; Zeerak Jawed (Student) <1723254@brunel.ac.uk>; Sandilya Bojja (Student) <1735848@brunel.ac.uk>; Rehab Musse (Student) <1807434@brunel.ac.uk>; Stasha Lauria (Staff) <Stasha.Lauria@brunel.ac.uk>

Subject: Re: Predictive Data Analysis Group 4

Hello All,

As per your request Zeerak, I am attaching an updated RStudio file, Google Colab file, and both the cleaned and uncleaned dataset.

I shall be using RandomForest as my choice of model for this project.

Let me know when you have completed your model so that we can compare the results

Thank you, Kind Regards

Sookchand

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Sent: 27 February 2022 13:34

To: William Marshall (Student) <1839575@brunel.ac.uk>; Zeerak Jawed (Student) <1723254@brunel.ac.uk>; Sandilya Bojja (Student) <1735848@brunel.ac.uk>; Rehab Musse (Student) <1807434@brunel.ac.uk>; Stasha

Lauria (Staff) <Stasha.Lauria@brunel.ac.uk>
Subject: Predictive Data Analysis Group 4

Dear All,

I have completed:

- 1. Data Description and Research Question
- Data Preparation and Clean(done on RStudio)
- 3. Evaluation Some done in RStudio and the rest will be done on this notebook.

I am no moving on to the individual aspect of this project. If anyone is interested, I can send the first 3 parts.

Thank you,

Kind regards Sookchand Harripersad

From: William Marshall (Student) <1839575@brunel.ac.uk>

Sent: 25 January 2022 10:51

To: Sookchand Harripersad (Student) <2121403@brunel.ac.uk>; Zeerak Jawed (Student)

<1723254@brunel.ac.uk>; Sandilya Bojja (Student) <1735848@brunel.ac.uk>; Rehab Musse (Student)

<1807434@brunel.ac.uk>

Subject: Re: group introduction

Sounds like a start. Do you think we should plan a meeting? We can present some datasets and decide which to pick.

From William.

Get Outlook for Android

From: Sookchand Harripersad (Student) <2121403@brunel.ac.uk>

Sent: Tuesday, January 25, 2022 10:48:59 AM

To: William Marshall (Student) <1839575@brunel.ac.uk>; Zeerak Jawed (Student) <1723254@brunel.ac.uk>;

Sandilya Bojja (Student) <1735848@brunel.ac.uk>; Rehab Musse (Student) <1807434@brunel.ac.uk>

Subject: Re: group introduction

Good Morning Guys,

I trust that you are all well. Shall we begin our first task by identifying a dataset?

Thank you,

Kind Regards Sookchand.

From: William Marshall (Student) <1839575@brunel.ac.uk>

Sent: 12 January 2022 11:12

To: Sookchand Harripersad (Student) <2121403@brunel.ac.uk>; Zeerak Jawed (Student)

<1723254@brunel.ac.uk>; Sandilya Bojja (Student) <1735848@brunel.ac.uk>; Rehab Musse (Student)

<1807434@brunel.ac.uk> **Subject:** Re: group introduction

Here is the WhatsApp link:

https://chat.whatsapp.com/HfQYmOniFo43MklrPitWY3

Get Outlook for Android

From: Sookchand Harripersad (Student) <2121403@brunel.ac.uk>

Sent: Wednesday, January 12, 2022 10:56:03 AM

To: William Marshall (Student) <1839575@brunel.ac.uk>; Zeerak Jawed (Student) <1723254@brunel.ac.uk>;

Sandilya Bojja (Student) <1735848@brunel.ac.uk>; Rehab Musse (Student) <1807434@brunel.ac.uk>

Subject: Re: group introduction

Good morning, everyone,

this is my number for the WhatsApp group: +44 7591 083032.

Have a good day,

Sookchand

From: William Marshall (Student) <1839575@brunel.ac.uk>

Sent: 11 January 2022 14:59

To: Sookchand Harripersad (Student) <2121403@brunel.ac.uk>; Zeerak Jawed (Student)

<1723254@brunel.ac.uk>; Sandilya Bojja (Student) <1735848@brunel.ac.uk>; Rehab Musse (Student)

<1807434@brunel.ac.uk>

Subject: Re: group introduction

Hi,

I also have similar circumstances so I think it would be best to stick to online for now. For ease of communication we could set up a WhatsApp or discord.

William

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Sent: Tuesday, January 11, 2022 2:53:16 PM

To: Zeerak Jawed (Student) <1723254@brunel.ac.uk>; Sandilya Bojja (Student) <1735848@brunel.ac.uk>; Rehab

Musse (Student) <1807434@brunel.ac.uk>; William Marshall (Student) <1839575@brunel.ac.uk>

Subject: group introduction

Hello everyone,

Based upon the group information on BBL I see that we are all in group 4. So, I am taking the initiative to reach out to you all so that we begin thinking about our way forward. For now, I cannot meet in

person so I would appreciate it if you could keep this in mind as we move forward.

Have a great day.

Kind regards Sookchand

Fw: Predictive Data Analysis Group 4

Sookchand Harripersad (Student) <2121403@brunel.ac.uk>

Sat 23/04/2022 20:39

To: Stasha Lauria (Staff) < Stasha.Lauria@brunel.ac.uk>

Cc: Zeerak Jawed (Student) <1723254@brunel.ac.uk>;Rehab Musse (Student)

<1807434@brunel.ac.uk>;Sandilya Bojja (Student) <1735848@brunel.ac.uk>;William Marshall (Student)

<1839575@brunel.ac.uk>

Dear Stasha,

At this moment William Marshal is the only group member that shared his model and results. Complete data analysis was sent to all group members on the 28th of February and 11th of April I shared my model and results. At this late hour, I must move with the rest of the project using Marshall's submission for the discussion. Please take note of this.

Thank you, Kind regards

Sookchand Harripersad

From: Sookchand Harripersad (Student) <2121403@brunel.ac.uk>

Sent: 23 April 2022 11:10

To: William Marshall (Student) <1839575@brunel.ac.uk>; Zeerak Jawed (Student) <1723254@brunel.ac.uk>; Sandilya Bojja (Student) <1735848@brunel.ac.uk>; Rehab Musse (Student) <1807434@brunel.ac.uk>; Stasha Lauria (Staff) <Stasha.Lauria@brunel.ac.uk>

Subject: Re: Predictive Data Analysis Group 4

Reminder to the group members except William Marshal to send the models and performance evaluation for comparison(integrated assessment).

Thank you, regards Sookchand

From: Sookchand Harripersad (Student) <2121403@brunel.ac.uk>

Sent: 22 April 2022 11:27

To: William Marshall (Student) <1839575@brunel.ac.uk>; Zeerak Jawed (Student) <1723254@brunel.ac.uk>; Sandilya Bojja (Student) <1735848@brunel.ac.uk>; Rehab Musse (Student) <1807434@brunel.ac.uk>; Stasha Lauria (Staff) <Stasha.Lauria@brunel.ac.uk>

Subject: Re: Predictive Data Analysis Group 4

Good day all,

I hope you all are doing well. Except for Williams who has already done this, can you all please share your model and results so that I can make the comparison and complete my report.

Thank you,

Regards

Sookchand Harripersad

From: Sookchand Harripersad (Student) <2121403@brunel.ac.uk>

Sent: 22 April 2022 06:29

To: William Marshall (Student) <1839575@brunel.ac.uk>; Zeerak Jawed (Student) <1723254@brunel.ac.uk>; Sandilya Bojja (Student) <1735848@brunel.ac.uk>; Rehab Musse (Student) <1807434@brunel.ac.uk>; Stasha

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Subject: Fw: Predictive Data Analysis Group 4

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Sent: 28 February 2022 13:47

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