

MA678 Homework 2

9/20/2022

11.5

Residuals and predictions: The folder `Pyth` contains outcome y and predictors x_1, x_2 for 40 data points, with a further 20 points with the predictors but no observed outcome. Save the file to your working directory, then read it into R using `read.table()`.

(a)

Use R to fit a linear regression model predicting y from x_1, x_2 , using the first 40 data points in the file. Summarize the inferences and check the fit of your model.

```
data <- read.table("Pyth.txt", header = TRUE)
data1 <- data[1:40, ]
model <- lm(y ~ x1 + x2, data = data1)
summary(model)

##
## Call:
## lm(formula = y ~ x1 + x2, data = data1)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.9585 -0.5865 -0.3356  0.3973  2.8548
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  1.31513    0.38769   3.392  0.00166 **
## x1           0.51481    0.04590  11.216 1.84e-13 ***
## x2           0.80692    0.02434  33.148 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9 on 37 degrees of freedom
## Multiple R-squared:  0.9724, Adjusted R-squared:  0.9709
## F-statistic: 652.4 on 2 and 37 DF,  p-value: < 2.2e-16
```

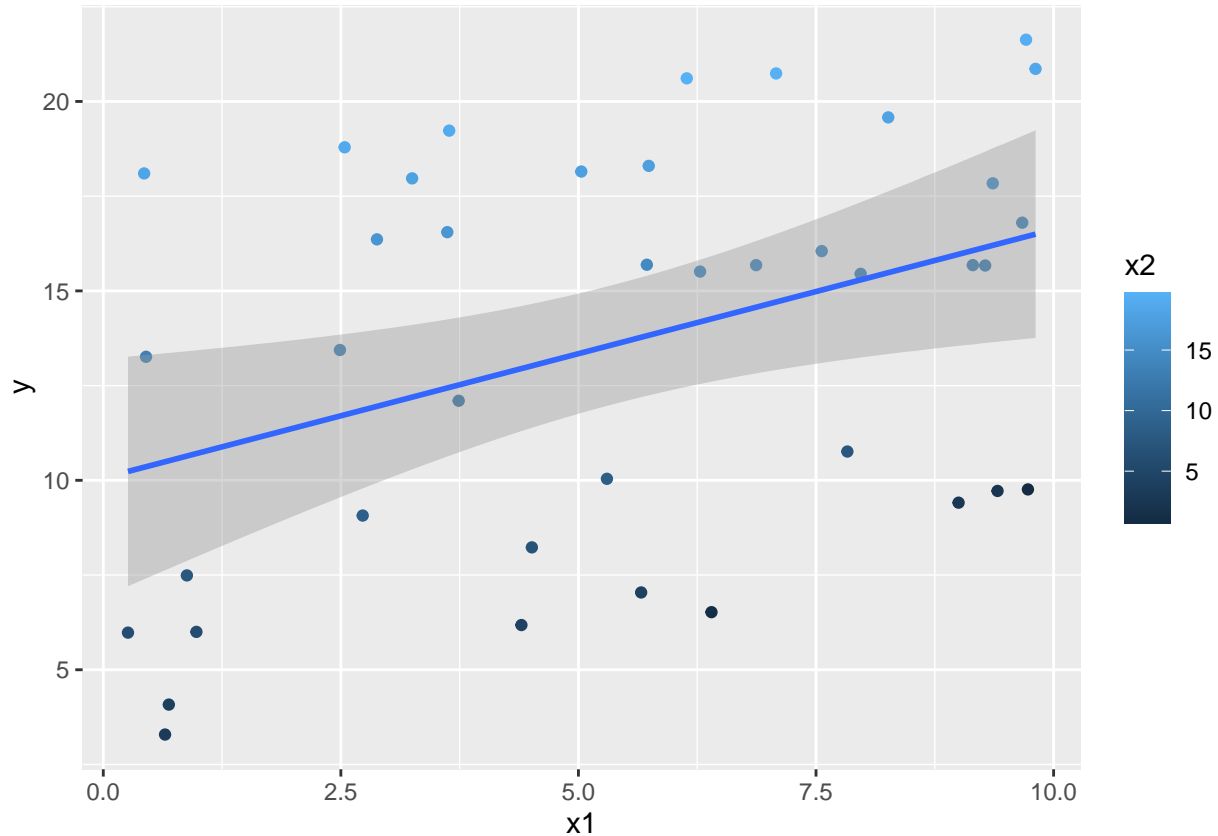
(b)

Display the estimated model graphically as in Figure 10.2

```
library(ggplot2)
ggplot(data=data1, aes(x = x1 , y = y, color = x2 )) +
  geom_point() +
  geom_smooth(method = "lm")

## `geom_smooth()` using formula = 'y ~ x'
## Warning: The following aesthetics were dropped during statistical transformation:
```

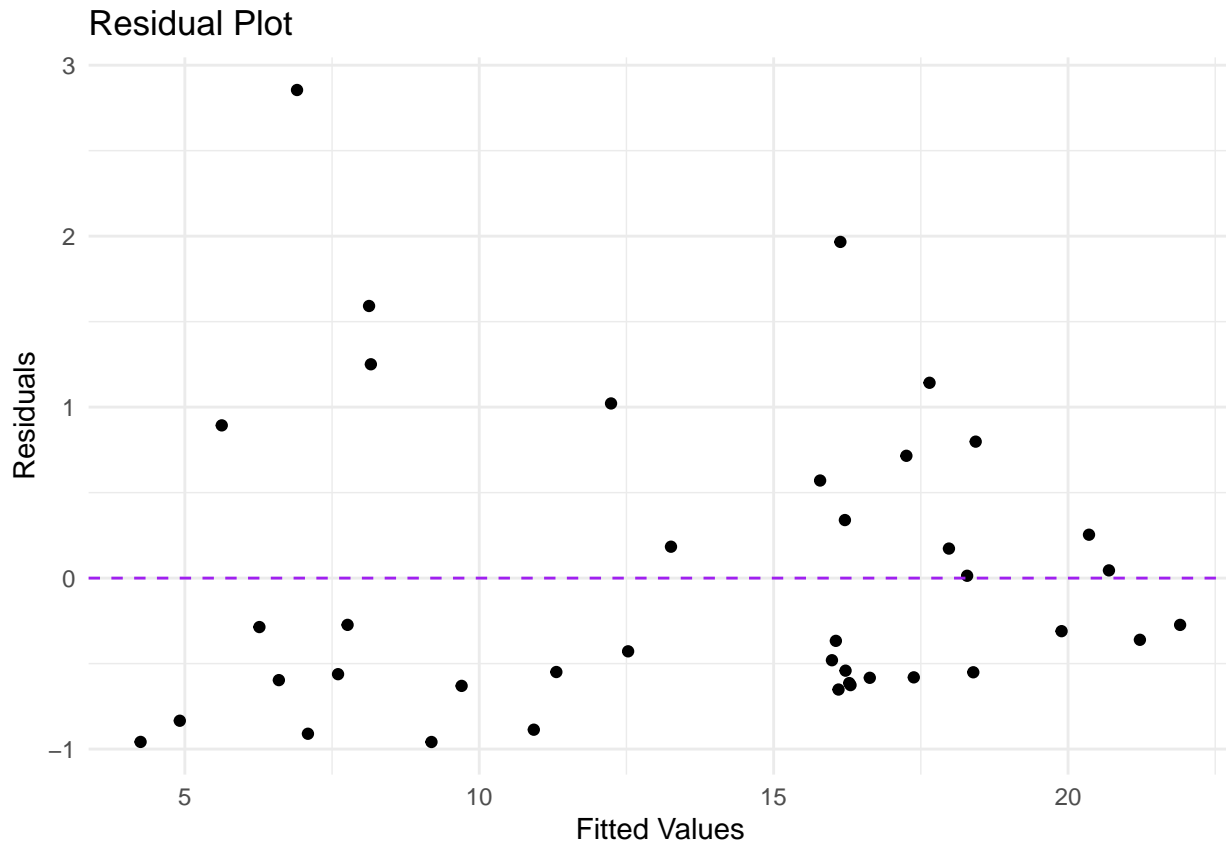
```
## colour.
## i This can happen when ggplot fails to infer the correct grouping structure in
##   the data.
## i Did you forget to specify a `group` aesthetic or to convert a numerical
##   variable into a factor?
```



(c)

Make a residual plot for this model. Do the assumptions appear to be met?

```
residuals <- resid(model)
fitted_values <- fitted(model)
ggplot(data1, aes(x = fitted_values, y = residuals)) +
  geom_point() +
  geom_hline(yintercept = 0, linetype = "dashed", color = "purple") +
  labs(x = "Fitted Values", y = "Residuals", title = "Residual Plot") +
  theme_minimal()
```



```
summary(model)
```

```
##
## Call:
## lm(formula = y ~ x1 + x2, data = data1)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.9585 -0.5865 -0.3356  0.3973  2.8548
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   1.31513    0.38769   3.392  0.00166 **
## x1             0.51481    0.04590  11.216 1.84e-13 ***
## x2             0.80692    0.02434  33.148 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9 on 37 degrees of freedom
## Multiple R-squared:  0.9724, Adjusted R-squared:  0.9709
## F-statistic: 652.4 on 2 and 37 DF,  p-value: < 2.2e-16
```

(d)

Make predictions for the remaining 20 data points in the file. How confident do you feel about these predictions?

```
predictions <- predict(model, newdata = data1)
predictions
```

```
##          1          2          3          4          5          6          7          8
## 16.221378  7.090400 16.133677  9.700421 17.254606 10.926653 20.694923  6.905222
##          9         10         11         12         13         14         15         16
##  9.188536  5.626640 16.057014 15.990263 20.356247 19.890290  8.128384 15.789193
##         17         18         19         20         21         22         23         24
## 18.286339 12.238483 12.528169 17.977308 17.380425 16.210499 17.647595 16.305805
##         25         26         27         28         29         30         31         32
##  4.914170 16.101788 13.256420 21.220813 16.633082  6.596613  4.248042  8.159388
##         33         34         35         36         37         38         39         40
## 11.309235  6.266295 18.431754 16.283969  7.601885 21.903629 18.390868  7.763580
```

12.5

Logarithmic transformation and regression: Consider the following regression:

$$\log(\text{weight}) = -3.8 + 2.1 \log(\text{height}) + \text{error},$$

with errors that have standard deviation 0.25. Weights are in pounds and heights are in inches.

(a)

Fill in the blanks: Approximately 68% of the people will have weights within a factor of $e^{(-0.25)}$ and $e^{0.25}$ of their predicted values from the regression.

(b)

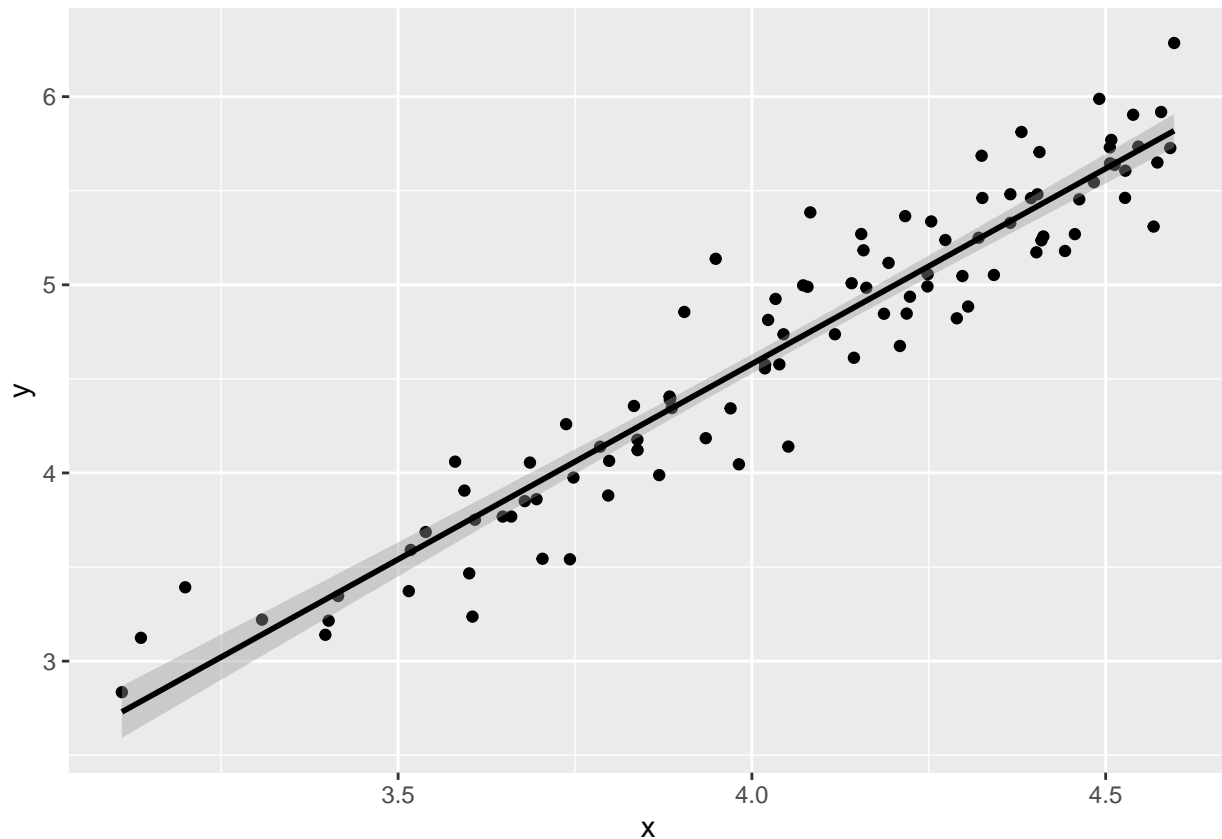
Using pen and paper, sketch the regression line and scatterplot of $\log(\text{weight})$ versus $\log(\text{height})$ that make sense and are consistent with the fitted model. Be sure to label the axes of your graph.

```
set.seed(100)
height <- runif(100, min = 20, max = 100)
error <- rnorm(100, mean = 0, sd = 0.25)
log_weight <- -3.8 + 2.1 * log(height) + error
data2 <- data.frame(x = log(height), y = log_weight)
model2 <- lm(y ~ x, data2)
print(model2)
```

```
##
## Call:
## lm(formula = y ~ x, data = data2)
##
## Coefficients:
## (Intercept)          x
##      -3.729         2.077
```

```
ggplot(data2, aes(x = x, y = y)) +
  geom_point() +
  geom_smooth(method = "lm", color = "black") +
  labs(x = "x", y = "y")
```

```
## `geom_smooth()` using formula = 'y ~ x'
```



12.6

Logarithmic transformations: The folder `Pollution` contains mortality rates and various environmental factors from 60 US metropolitan areas. For this exercise we shall model mortality rate given nitric oxides, sulfur dioxide, and hydrocarbons as inputs. this model is an extreme oversimplification, as it combines all sources of mortality and does not adjust for crucial factors such as age and smoking. We use it to illustrate log transformation in regression.

(a)

Create a scatterplot of mortality rate versus level of nitric oxides. Do you think linear regression will fit these data well? Fit the regression and evaluate a residual plot from the regression.

```
data<-read.csv("pollution.csv",header = TRUE)
model<-lm(mort~nox, data)
print(model)
```

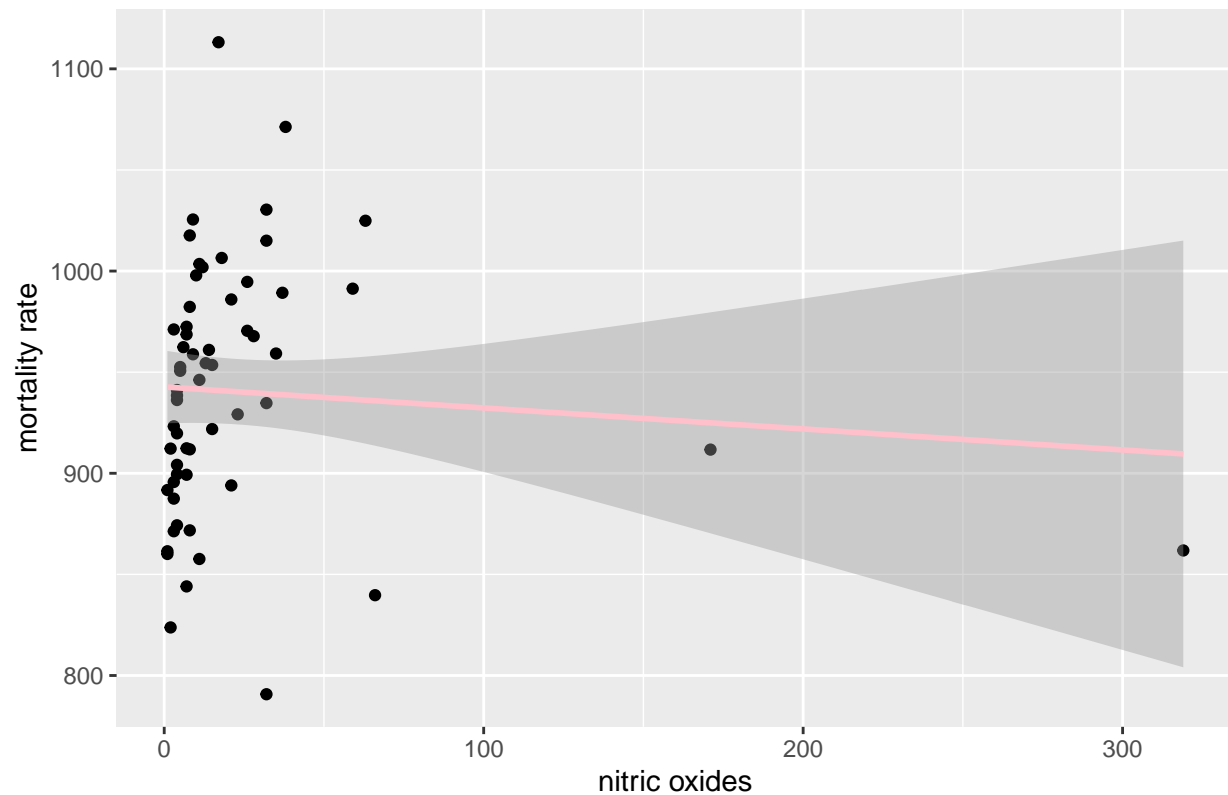
```
##
## Call:
## lm(formula = mort ~ nox, data = data)
##
## Coefficients:
## (Intercept)      nox
##    942.7115    -0.1039
```

```
ggplot(data, aes(x=nox, y=mort))+
  geom_point()+
  geom_smooth(method = "lm", color="pink")+
```

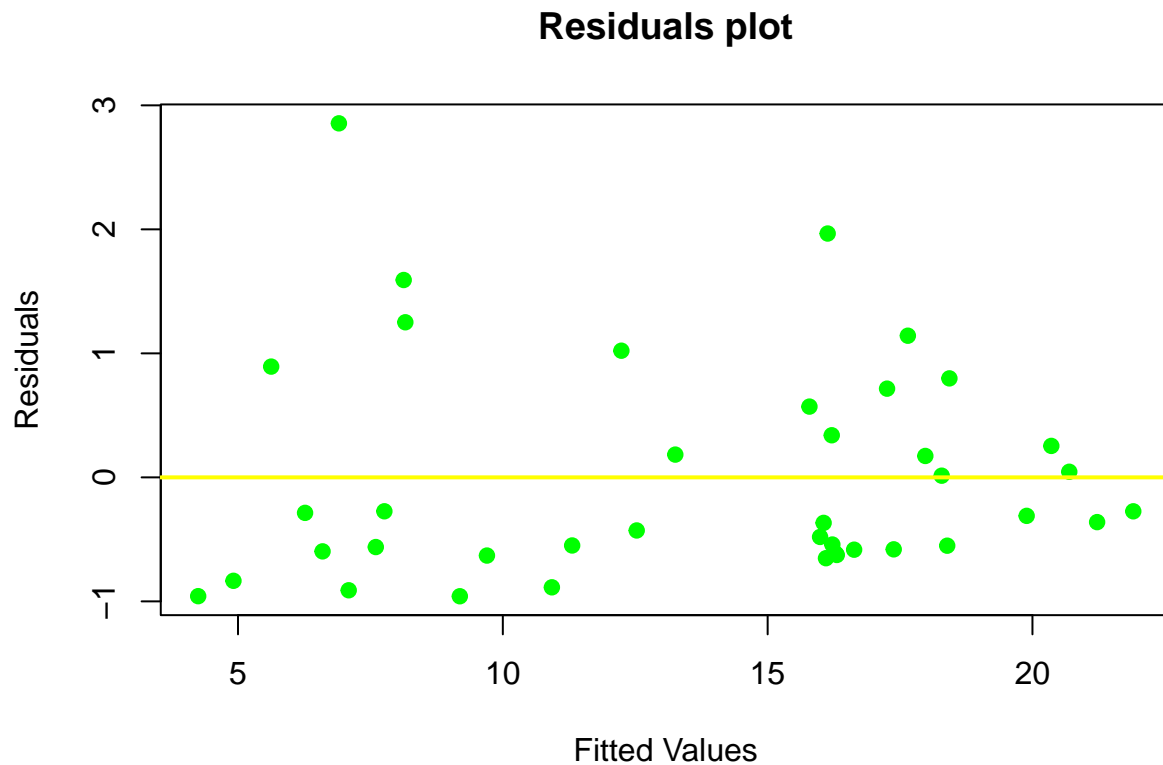
```
labs(title = "mortality rate versus level of nitric oxides", x="nitric oxides", y="mortality rate")
```

```
## `geom_smooth()` using formula = 'y ~ x'
```

mortality rate versus level of nitric oxides



```
predicted <- predict(model)
resid <- data$final - predicted
plot(fitted_values, residuals,
     main = "Residuals plot",
     xlab = "Fitted Values",
     ylab = "Residuals",
     pch = 19,
     col = "green")
abline(h = 0, col = "yellow", lwd = 2)
```



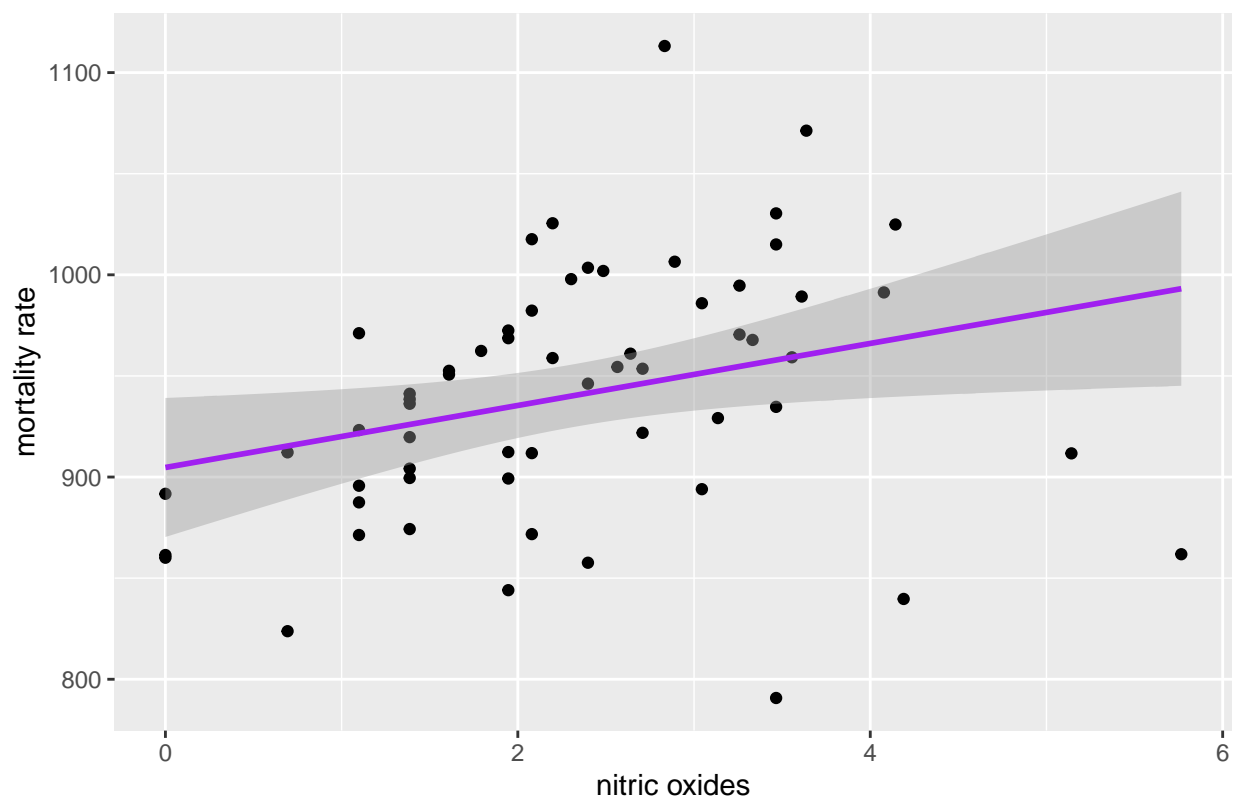
(b)

Find an appropriate reansformation that will result in data more appropriate for linear regression. Fit a regression to the transformed data and evaluate the new residual plot.

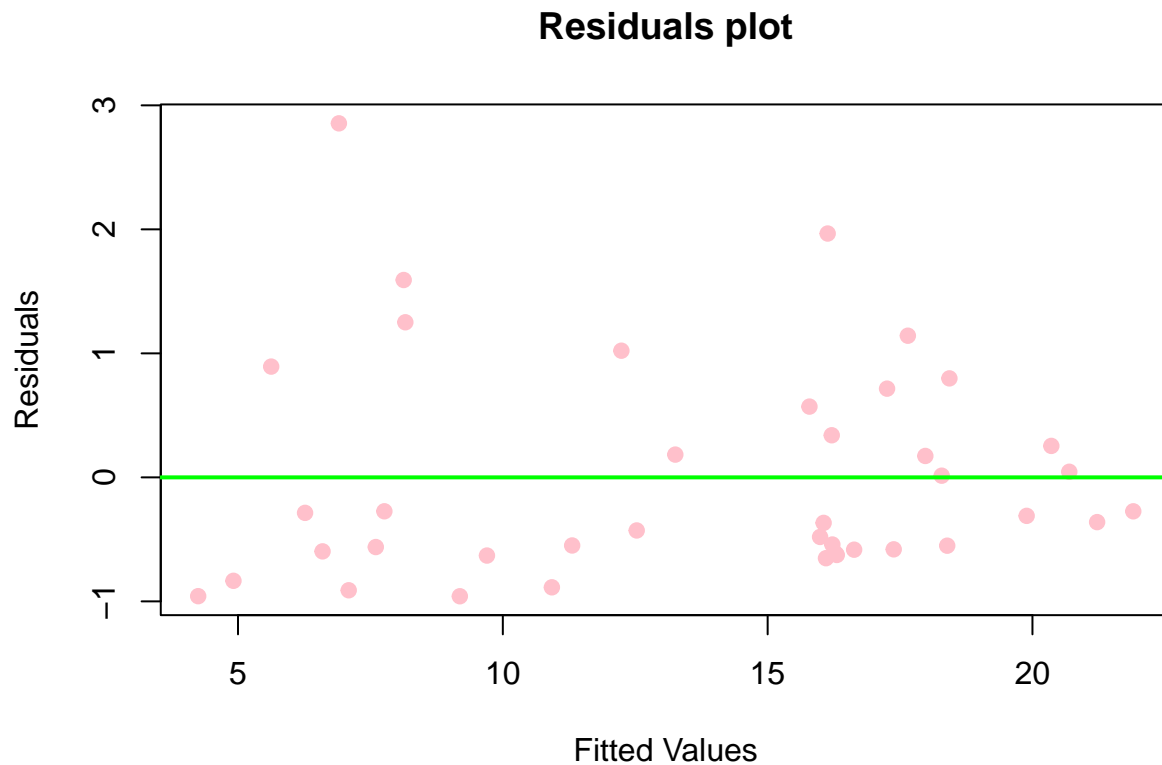
```
model2<-lm(mort~log(nox), data)
ggplot(data, aes(x=log(nox), y=mort))+
  geom_point()+
  geom_smooth(method = "lm", color="purple")+
  labs(title = "NEW mortality rate versus level of nitric oxides", x="nitric oxides", y="mortality rate")

## `geom_smooth()` using formula = 'y ~ x'
```

NEW mortality rate versus level of nitric oxides



```
predicted <- predict(model2)
resid <- data$final - predicted
plot(fitted_values, residuals,
     main = "Residuals plot",
     xlab = "Fitted Values",
     ylab = "Residuals",
     pch = 19,
     col = "pink")
abline(h = 0, col = "green", lwd = 2)
```

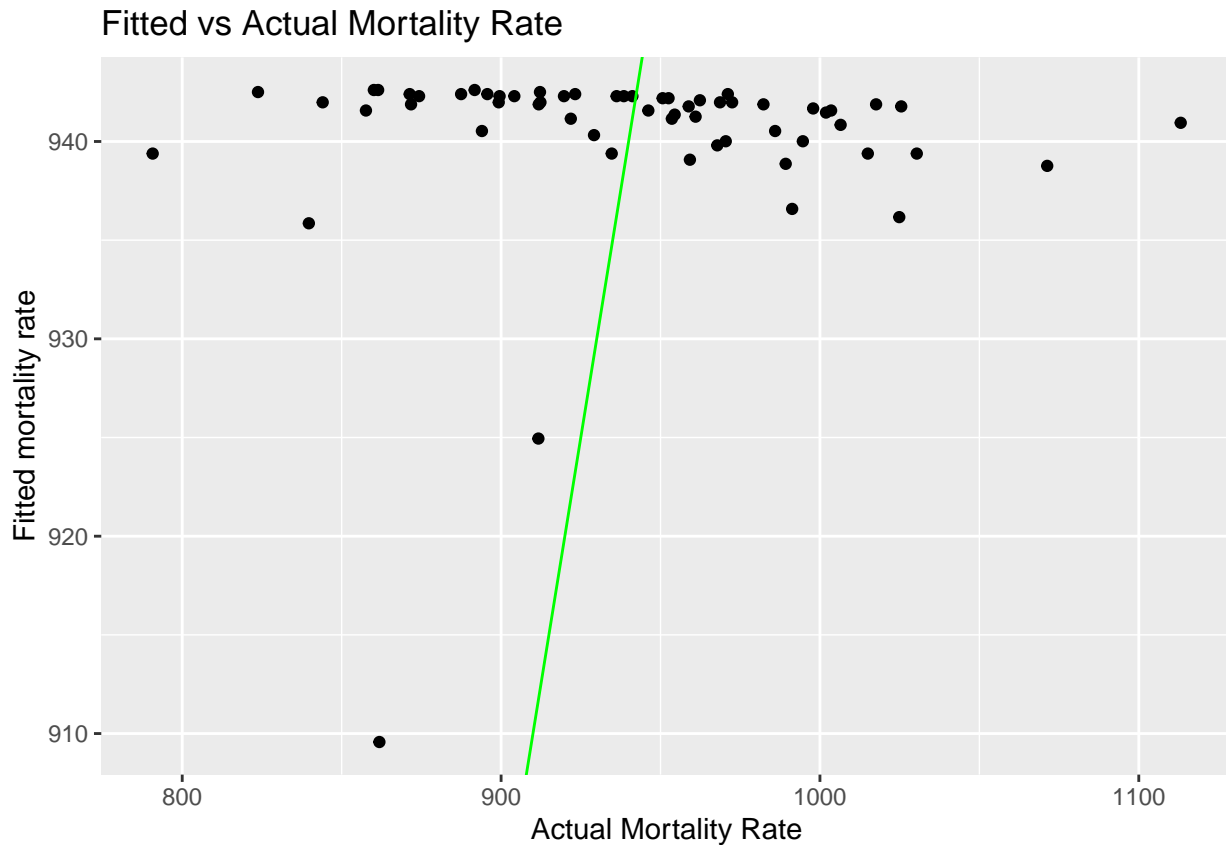
(c)

Interpret the slope coefficient from the model you chose in (b) #The coefficient of $\log(\text{nox})$ shows the elastic relationship between nitric oxide levels and mortality rates.

(d)

Now fit a model predicting mortality rate using levels of nitric oxides, sulfur dioxide, and hydrocarbons as inputs. Use appropriate transformation when helpful. Plot the fitted regression model and interpret the coefficients.

```
data$fitted_values <- predict(model)
ggplot(data, aes(x = mort, y = fitted_values)) +
  geom_point() +
  geom_abline(slope = 1, intercept = 0, color = "green") +
  labs(x = "Actual Mortality Rate", y = "Fitted mortality rate",
       title = "Fitted vs Actual Mortality Rate")
```



#The slope coefficient gives the elasticity of mortality rates with respect to nitric oxide levels, ind

(e)

Cross validate: fit the model you chose above to the first half of the data and then predict for the second half. You used all the data to construct the model in (d), so this is not really cross validation, but it gives a sense of how the steps of cross validation can be implemented.

```
subdata1 <- data[1:30, ]
model_train <- lm(mort ~ log(nox) + log(so2) + log(hc), data = data)
subdata2 <- data[31:60, ]
predicted <- predict(model_train, data=subdata2)
print(predicted)
```

##	1	2	3	4	5	6	7	8
##	956.4509	983.2276	967.9473	918.0334	984.3172	982.5561	1001.2349	919.4739
##	9	10	11	12	13	14	15	16
##	946.7780	931.3324	919.4187	976.2999	986.9578	954.7198	905.3308	924.9652
##	17	18	19	20	21	22	23	24
##	935.7793	923.1217	962.6599	896.6405	924.9652	923.9159	888.8319	904.6360
##	25	26	27	28	29	30	31	32
##	916.1860	932.6360	910.6411	941.8463	947.5820	989.0778	979.8839	862.0146
##	33	34	35	36	37	38	39	40
##	964.3181	931.5151	967.8177	934.0775	918.5888	957.3131	993.9639	1010.2505
##	41	42	43	44	45	46	47	48
##	916.4275	937.1646	980.2446	956.2903	928.3318	935.8043	919.8389	948.4117
##	49	50	51	52	53	54	55	56
##	873.3929	902.0620	948.8509	937.5616	938.9427	901.3836	934.5592	885.9661

```
##          57          58          59          60
## 957.5933 902.0114 972.8950 966.4670
```

12.7

Cross validation comparison of models with different transformations of outcomes: when we compare models with transformed continuous outcomes, we must take into account how the nonlinear transformation warps the continuous outcomes. Follow the procedure used to compare models for the mesquite bushes example on page 202.

(a)

Compare models for earnings and for $\log(\text{earnings})$ given height and sex as shown in page 84 and 192. Use `earnk` and $\log(\text{earnk})$ as outcomes.

```
library(rstanarm)
```

```
## Loading required package: Rcpp
## This is rstanarm version 2.32.1
## - See https://mc-stan.org/rstanarm/articles/priors for changes to default priors!
## - Default priors may change, so it's safest to specify priors, even if equivalent to the defaults.
## - For execution on a local, multicore CPU with excess RAM we recommend calling
##   options(mc.cores = parallel::detectCores())
```

```
earnings<-read.csv("earnings.csv")
earnings
```

	height	weight	male	earn	earnk	ethnicity	education	mother_education
## 1	74	210	1	50000	50.000	White	16	16
## 2	66	125	0	60000	60.000	White	16	16
## 3	64	126	0	30000	30.000	White	16	16
## 4	65	200	0	25000	25.000	White	17	17
## 5	63	110	0	50000	50.000	Other	16	16
## 6	68	165	0	62000	62.000	Black	18	18
## 7	63	190	0	51000	51.000	White	17	17
## 8	64	125	0	9000	9.000	White	15	15
## 9	62	200	0	29000	29.000	White	12	12
## 10	73	230	1	32000	32.000	White	17	17
## 11	72	176	1	2000	2.000	Hispanic	15	15
## 12	72	265	1	35000	35.000	White	NA	99
## 13	72	160	1	27000	27.000	White	12	12
## 14	70	225	1	6530	6.530	White	16	16
## 15	63	107	0	0	0.000	White	14	14
## 16	68	170	1	30000	30.000	White	11	NA
## 17	68	144	1	12000	12.000	White	12	12
## 18	71	193	1	15000	15.000	White	18	18
## 19	65	250	0	12000	12.000	White	12	12
## 20	66	130	0	20000	20.000	White	11	11
## 21	60	100	0	0	0.000	White	12	12
## 22	65	123	0	25000	25.000	White	12	12
## 23	66	130	0	22000	22.000	White	16	16
## 24	65	120	0	25000	25.000	White	16	16
## 25	71	160	1	20000	20.000	White	14	14

## 26	68	172	1	17000	17.000	White	12	12
## 27	68	135	0	40000	40.000	White	14	14
## 28	70	180	1	44000	44.000	White	13	13
## 29	67	112	0	0	0.000	White	9	9
## 30	64	240	0	7000	7.000	Black	12	12
## 31	73	190	1	53000	53.000	Black	13	13
## 32	64	145	0	5000	5.000	Black	12	NA
## 33	62	120	0	5000	5.000	White	13	13
## 34	63	114	0	14000	14.000	White	14	14
## 35	69	170	1	45000	45.000	White	14	14
## 36	67	166	1	5500	5.500	White	14	14
## 37	66	124	0	40000	40.000	White	12	12
## 38	72	175	1	34000	34.000	White	12	12
## 39	63	120	0	5000	5.000	Black	12	12
## 40	63	184	0	10000	10.000	Black	12	12
## 41	68	150	1	0	0.000	White	11	11
## 42	64	150	0	27000	27.000	White	16	16
## 43	73	220	1	62000	62.000	White	14	14
## 44	67	220	0	15000	15.000	White	12	12
## 45	60	NA	0	0	0.000	White	12	12
## 46	72	180	1	50000	50.000	White	16	16
## 47	68	158	0	0	0.000	White	12	NA
## 48	77	255	1	41000	41.000	White	16	16
## 49	64	150	0	0	0.000	White	10	10
## 50	64	130	0	15000	15.000	White	14	14
## 51	64	NA	0	25000	25.000	White	12	12
## 52	63	146	0	25000	25.000	White	16	16
## 53	72	185	1	75000	75.000	White	17	17
## 54	68	180	1	27000	27.000	White	17	17
## 55	64	135	0	12000	12.000	White	12	12
## 56	70	168	1	40000	40.000	White	12	12
## 57	61	138	0	7500	7.500	White	14	14
## 58	65	115	0	25000	25.000	White	12	12
## 59	67	135	0	30000	30.000	Black	14	14
## 60	65	150	0	21000	21.000	White	12	12
## 61	64	120	0	27000	27.000	White	14	14
## 62	73	165	1	45000	45.000	White	16	16
## 63	67	130	0	3000	3.000	White	15	15
## 64	65	170	0	25000	25.000	White	12	12
## 65	65	140	0	24000	24.000	White	12	12
## 66	67	145	0	32000	32.000	White	18	18
## 67	68	145	0	10000	10.000	White	17	17
## 68	70	150	0	0	0.000	White	12	12
## 69	60	100	0	11000	11.000	Hispanic	12	12
## 70	65	105	0	18700	18.700	White	13	13
## 71	62	120	0	20000	20.000	White	12	12
## 72	72	160	1	3500	3.500	White	10	10
## 73	67	206	1	13000	13.000	Black	8	8
## 74	70	170	1	25000	25.000	White	12	12
## 75	70	183	1	21000	21.000	White	17	17
## 76	68	150	0	34000	34.000	White	17	17
## 77	66	115	0	5000	5.000	Black	12	12
## 78	60	120	0	6000	6.000	White	12	12
## 79	71	195	1	17000	17.000	White	12	12

## 80	71	140	1	35000	35.000	White	12	NA
## 81	73	180	1	4000	4.000	White	13	13
## 82	64	115	0	5000	5.000	White	16	16
## 83	68	150	0	14000	14.000	White	14	14
## 84	66	118	0	10000	10.000	White	12	12
## 85	69	155	1	25000	25.000	White	16	16
## 86	63	126	0	0	0.000	White	8	NA
## 87	70	130	1	87000	87.000	White	18	18
## 88	63	130	0	16000	16.000	White	14	14
## 89	66	123	0	0	0.000	Black	13	13
## 90	66	110	0	15000	15.000	White	12	12
## 91	64	200	0	0	0.000	White	12	NA
## 92	62	130	1	16000	16.000	Hispanic	14	14
## 93	66	190	0	25000	25.000	White	18	18
## 94	64	116	0	16500	16.500	White	14	14
## 95	68	170	1	15000	15.000	White	12	12
## 96	64	190	0	4000	4.000	White	9	9
## 97	67	342	0	3840	3.840	White	9	9
## 98	60	90	0	5000	5.000	White	6	NA
## 99	71	200	1	22000	22.000	White	12	12
## 100	60	135	0	200	0.200	White	16	16
## 101	66	140	0	26000	26.000	White	16	16
## 102	66	120	0	2500	2.500	White	15	15
## 103	65	125	0	17000	17.000	White	14	14
## 104	63	112	0	25000	25.000	White	16	16
## 105	70	130	0	8000	8.000	White	13	13
## 106	68	215	1	25000	25.000	White	12	NA
## 107	65	98	0	0	0.000	White	13	13
## 108	66	138	0	12000	12.000	White	13	13
## 109	62	123	0	10000	10.000	White	12	12
## 110	60	105	0	5000	5.000	White	8	8
## 111	76	220	1	100000	100.000	White	16	16
## 112	66	140	0	10000	10.000	White	15	15
## 113	64	173	0	0	0.000	White	14	14
## 114	72	185	1	15000	15.000	White	12	12
## 115	66	190	0	45000	45.000	Other	12	12
## 116	69	190	1	15000	15.000	Black	11	NA
## 117	67	115	0	2400	2.400	Hispanic	8	8
## 118	68	150	1	30000	30.000	Hispanic	12	12
## 119	70	150	1	30000	30.000	White	12	12
## 120	62	125	0	10000	10.000	White	12	12
## 121	63	137	0	5000	5.000	White	13	13
## 122	66	125	0	12000	12.000	White	13	13
## 123	70	80	0	20000	20.000	White	10	10
## 124	68	160	0	20000	20.000	White	12	12
## 125	70	160	1	20000	20.000	White	14	14
## 126	65	125	0	25000	25.000	White	18	18
## 127	68	110	0	5000	5.000	White	8	NA
## 128	66	133	0	0	0.000	White	12	12
## 129	71	180	1	25000	25.000	White	18	18
## 130	66	135	0	1200	1.200	White	12	12
## 131	62	130	0	5000	5.000	White	12	12
## 132	68	120	0	700	0.700	White	16	16
## 133	70	150	1	20000	20.000	White	16	16

## 134	61	110	0	10000	10.000	Hispanic	12	12
## 135	63	128	0	30000	30.000	White	12	12
## 136	72	185	1	25000	25.000	Hispanic	8	NA
## 137	64	200	0	40000	40.000	White	14	14
## 138	67	155	1	25000	25.000	White	12	NA
## 139	66	135	0	45000	45.000	White	18	18
## 140	61	130	0	10000	10.000	White	17	17
## 141	69	132	0	60000	60.000	White	18	18
## 142	62	103	0	45000	45.000	White	12	12
## 143	64	150	0	0	0.000	White	12	NA
## 144	68	130	0	18000	18.000	White	12	12
## 145	60	128	0	15000	15.000	White	12	NA
## 146	71	155	1	50000	50.000	White	18	18
## 147	64	155	0	16040	16.040	White	12	NA
## 148	67	140	0	15000	15.000	Black	14	14
## 149	69	160	1	10000	10.000	White	17	17
## 150	67	185	0	33000	33.000	White	13	13
## 151	68	130	0	18000	18.000	White	12	12
## 152	63	105	0	15000	15.000	White	12	12
## 153	71	145	1	21000	21.000	White	12	NA
## 154	64	124	0	21000	21.000	Black	17	17
## 155	68	170	1	37000	37.000	White	11	11
## 156	68	126	0	38000	38.000	White	17	17
## 157	66	142	0	17000	17.000	Hispanic	14	14
## 158	66	130	0	0	0.000	White	12	12
## 159	66	130	0	0	0.000	Other	16	16
## 160	60	100	0	15000	15.000	White	16	16
## 161	77	210	1	32000	32.000	White	16	16
## 162	67	160	0	27500	27.500	White	12	12
## 163	66	140	1	15000	15.000	White	12	NA
## 164	62	120	0	16500	16.500	White	12	12
## 165	64	118	0	0	0.000	White	17	17
## 166	72	175	0	0	0.000	White	12	12
## 167	67	150	0	25000	25.000	White	18	18
## 168	61	116	0	27000	27.000	White	18	18
## 169	64	220	0	5000	5.000	White	12	NA
## 170	62	125	0	70000	70.000	White	16	16
## 171	63	150	0	5000	5.000	White	12	12
## 172	68	135	1	5000	5.000	White	16	16
## 173	69	158	1	62000	62.000	Other	18	18
## 174	64	160	0	15000	15.000	Black	12	12
## 175	64	158	0	20000	20.000	White	15	15
## 176	72	185	1	4000	4.000	White	15	15
## 177	72	172	1	75000	75.000	White	12	12
## 178	64	130	0	60000	60.000	White	16	16
## 179	61	150	0	5000	5.000	White	13	13
## 180	74	230	1	30000	30.000	White	12	12
## 181	70	165	1	70000	70.000	White	14	14
## 182	64	115	0	5000	5.000	White	16	16
## 183	71	195	1	50000	50.000	White	16	16
## 184	63	120	0	44000	44.000	White	12	12
## 185	73	215	1	40000	40.000	White	18	18
## 186	64	133	0	30000	30.000	White	14	14
## 187	73	200	1	15000	15.000	Black	14	14

## 188	63	150	0	35000	35.000	White	15	15
## 189	62	130	0	0	0.000	White	16	16
## 190	62	140	0	10000	10.000	White	16	16
## 191	70	170	0	23000	23.000	White	17	17
## 192	62	115	0	0	0.000	White	12	12
## 193	71	175	1	45000	45.000	White	17	17
## 194	71	170	1	15000	15.000	White	14	14
## 195	70	169	0	4000	4.000	White	14	14
## 196	67	160	1	17000	17.000	White	14	14
## 197	64	130	0	30000	30.000	White	12	12
## 198	67	112	0	27500	27.500	White	12	12
## 199	62	140	0	5688	5.688	White	8	8
## 200	62	137	0	18000	18.000	Hispanic	13	13
## 201	67	170	1	35000	35.000	White	14	14
## 202	66	160	0	45000	45.000	White	17	17
## 203	68	185	1	43000	43.000	Black	13	13
## 204	62	140	0	32000	32.000	Black	14	14
## 205	62	118	0	25000	25.000	Black	12	12
## 206	66	148	0	0	0.000	Black	5	5
## 207	68	165	0	10000	10.000	Black	18	18
## 208	65	130	0	50000	50.000	Hispanic	12	12
## 209	74	160	1	15000	15.000	White	12	12
## 210	74	185	1	60000	60.000	White	13	13
## 211	71	175	1	30000	30.000	White	15	15
## 212	68	150	0	21000	21.000	Other	12	12
## 213	62	110	0	2400	2.400	White	16	16
## 214	68	240	0	5000	5.000	White	10	10
## 215	62	150	0	35000	35.000	Black	15	15
## 216	66	136	0	1000	1.000	White	15	15
## 217	68	170	1	27000	27.000	White	12	12
## 218	60	115	0	6600	6.600	Hispanic	14	14
## 219	68	164	1	16000	16.000	White	8	8
## 220	72	185	1	90000	90.000	White	12	12
## 221	66	185	0	8000	8.000	White	12	12
## 222	68	150	1	20000	20.000	White	10	NA
## 223	68	130	0	15000	15.000	White	12	12
## 224	69	180	0	12000	12.000	White	12	12
## 225	63	170	0	25000	25.000	White	9	9
## 226	64	128	0	24000	24.000	White	16	16
## 227	65	175	0	20000	20.000	White	14	14
## 228	61	128	0	19000	19.000	White	12	12
## 229	71	180	1	25000	25.000	White	8	NA
## 230	72	172	1	10000	10.000	White	12	12
## 231	66	125	0	40000	40.000	White	16	16
## 232	69	175	1	62000	62.000	Black	8	NA
## 233	63	105	0	25000	25.000	Black	13	13
## 234	62	NA	0	0	0.000	White	10	10
## 235	60	145	0	0	0.000	Hispanic	10	10
## 236	62	138	0	10000	10.000	White	8	NA
## 237	68	160	1	25000	25.000	White	14	14
## 238	70	150	1	25000	25.000	White	12	12
## 239	71	165	1	25000	25.000	White	14	14
## 240	71	209	1	19000	19.000	White	16	16
## 241	68	210	1	44000	44.000	White	16	16

## 242	66	145	0	0	0.000	White	12	12
## 243	63	140	0	0	0.000	White	18	18
## 244	60	105	0	15000	15.000	White	14	14
## 245	63	137	0	17000	17.000	White	12	12
## 246	68	150	1	24000	24.000	White	12	12
## 247	70	150	1	50000	50.000	White	16	16
## 248	64	170	0	23000	23.000	White	12	12
## 249	70	143	1	13000	13.000	White	12	12
## 250	66	178	0	20000	20.000	Black	NA	NA
## 251	66	NA	0	45000	45.000	White	12	12
## 252	68	180	1	65000	65.000	White	16	16
## 253	61	135	0	7000	7.000	White	12	12
## 254	68	180	1	40000	40.000	White	18	18
## 255	66	145	0	15000	15.000	White	17	17
## 256	70	164	1	20000	20.000	White	16	16
## 257	68	150	1	25000	25.000	White	6	NA
## 258	71	175	1	20000	20.000	White	12	12
## 259	63	175	1	5000	5.000	White	9	NA
## 260	65	195	0	20000	20.000	White	12	12
## 261	66	150	0	25000	25.000	White	12	12
## 262	64	110	0	15000	15.000	White	14	14
## 263	70	195	1	49000	49.000	White	13	13
## 264	70	165	1	25000	25.000	White	8	8
## 265	64	102	0	0	0.000	White	12	NA
## 266	63	150	0	0	0.000	White	16	16
## 267	62	158	0	25000	25.000	White	12	12
## 268	65	160	0	30000	30.000	White	12	12
## 269	66	142	0	25000	25.000	White	12	12
## 270	60	125	0	35000	35.000	White	16	16
## 271	66	128	0	11000	11.000	White	14	14
## 272	61	160	0	16000	16.000	White	15	15
## 273	72	145	1	35000	35.000	White	14	14
## 274	74	240	1	125000	125.000	White	18	18
## 275	67	185	0	23000	23.000	White	12	12
## 276	66	170	0	17000	17.000	White	16	16
## 277	62	125	0	0	0.000	White	13	13
## 278	62	115	0	27000	27.000	White	12	12
## 279	72	180	1	70000	70.000	White	14	14
## 280	65	170	0	35000	35.000	White	15	15
## 281	60	150	0	10000	10.000	White	12	12
## 282	64	107	0	15000	15.000	White	13	NA
## 283	62	135	0	35000	35.000	White	15	15
## 284	66	130	0	15000	15.000	White	12	12
## 285	64	250	0	12000	12.000	White	12	12
## 286	71	135	1	8000	8.000	White	12	NA
## 287	65	130	0	8000	8.000	White	12	12
## 288	73	225	1	35000	35.000	White	18	18
## 289	69	175	1	45000	45.000	White	11	NA
## 290	64	175	0	0	0.000	White	12	12
## 291	64	118	0	5000	5.000	White	12	12
## 292	64	123	0	15000	15.000	White	14	14
## 293	61	136	0	15000	15.000	White	12	12
## 294	67	240	0	24000	24.000	White	18	18
## 295	62	189	0	25000	25.000	White	13	13

## 296	63	165	0	25000	25.000	Black	14	14
## 297	67	105	1	20000	20.000	Other	10	10
## 298	68	140	0	24000	24.000	White	12	12
## 299	72	165	1	44000	44.000	White	16	16
## 300	70	187	1	69000	69.000	White	12	12
## 301	70	188	1	62000	62.000	White	18	18
## 302	60	145	0	25000	25.000	Black	15	15
## 303	67	170	1	32000	32.000	Black	14	14
## 304	63	125	0	20000	20.000	Black	12	12
## 305	66	112	0	32000	32.000	Other	18	18
## 306	66	135	0	25000	25.000	White	17	17
## 307	71	185	1	170000	170.000	White	18	18
## 308	66	185	0	0	0.000	Black	11	11
## 309	67	170	1	35000	35.000	White	16	16
## 310	76	194	1	40000	40.000	Black	16	16
## 311	69	155	1	33000	33.000	White	14	14
## 312	65	145	0	18000	18.000	White	12	12
## 313	62	120	0	30000	30.000	White	13	13
## 314	62	112	0	26000	26.000	White	12	12
## 315	62	120	0	5000	5.000	White	12	12
## 316	69	163	0	5000	5.000	White	12	12
## 317	62	130	0	20000	20.000	White	16	16
## 318	61	105	0	17000	17.000	White	12	12
## 319	65	138	0	32000	32.000	White	14	14
## 320	72	170	1	15000	15.000	White	14	14
## 321	66	120	0	0	0.000	White	17	17
## 322	72	248	1	50000	50.000	White	14	14
## 323	64	138	0	8000	8.000	White	12	NA
## 324	71	190	1	40000	40.000	White	14	14
## 325	72	185	1	40000	40.000	White	15	15
## 326	66	130	1	32750	32.750	White	12	12
## 327	68	170	1	5000	5.000	White	12	12
## 328	65	185	0	20000	20.000	White	14	14
## 329	65	128	0	36000	36.000	Black	15	15
## 330	62	170	0	6000	6.000	White	12	NA
## 331	66	160	0	12000	12.000	Hispanic	14	14
## 332	67	150	1	60000	60.000	White	14	14
## 333	64	135	0	40000	40.000	White	13	13
## 334	74	185	1	5000	5.000	Hispanic	13	13
## 335	63	117	0	43000	43.000	White	12	12
## 336	67	150	0	45000	45.000	White	16	16
## 337	68	190	0	6000	6.000	White	18	18
## 338	64	154	0	8000	8.000	Other	10	NA
## 339	64	170	0	20000	20.000	Black	13	13
## 340	66	165	1	17000	17.000	Black	12	12
## 341	65	112	0	2000	2.000	White	12	NA
## 342	65	180	1	65000	65.000	White	12	12
## 343	72	180	1	50000	50.000	White	12	12
## 344	68	128	0	0	0.000	White	11	11
## 345	63	170	0	0	0.000	White	11	11
## 346	70	220	1	15000	15.000	White	13	NA
## 347	68	140	0	11000	11.000	White	12	12
## 348	74	190	1	35000	35.000	White	18	18
## 349	63	185	1	27000	27.000	White	12	12

## 350	64	135	0	3500	3.500	White	12	12
## 351	65	132	0	15000	15.000	White	7	7
## 352	68	180	1	42000	42.000	White	12	12
## 353	61	200	0	15000	15.000	White	12	12
## 354	67	130	0	20000	20.000	White	18	18
## 355	67	125	0	15000	15.000	White	12	12
## 356	73	207	1	10000	10.000	White	12	12
## 357	62	105	0	0	0.000	White	12	NA
## 358	70	176	1	6000	6.000	White	8	8
## 359	71	200	1	25000	25.000	White	12	NA
## 360	65	200	0	17000	17.000	Hispanic	16	NA
## 361	69	148	1	35000	35.000	Hispanic	16	16
## 362	77	203	1	28000	28.000	White	14	14
## 363	68	165	0	15000	15.000	White	12	NA
## 364	62	110	0	20000	20.000	White	17	17
## 365	64	128	0	20000	20.000	White	12	12
## 366	67	150	1	10500	10.500	Hispanic	12	12
## 367	70	165	1	13000	13.000	White	16	16
## 368	62	123	0	10000	10.000	White	12	12
## 369	63	170	0	3000	3.000	White	12	12
## 370	62	116	0	24000	24.000	White	14	14
## 371	63	117	0	0	0.000	White	17	17
## 372	69	160	0	17000	17.000	White	13	13
## 373	64	122	0	11000	11.000	White	12	12
## 374	64	154	0	0	0.000	White	14	14
## 375	69	185	0	32000	32.000	White	14	14
## 376	59	95	0	17000	17.000	White	15	15
## 377	61	115	0	15000	15.000	White	16	16
## 378	60	125	0	25000	25.000	White	12	12
## 379	72	225	1	136500	136.500	White	12	12
## 380	66	NA	0	3000	3.000	Other	12	12
## 381	63	160	0	15000	15.000	White	8	NA
## 382	65	150	0	0	0.000	White	12	12
## 383	70	200	1	25000	25.000	White	18	18
## 384	72	250	1	5000	5.000	White	14	14
## 385	62	125	0	2100	2.100	Black	12	12
## 386	70	148	1	15000	15.000	Black	10	10
## 387	60	120	0	15000	15.000	White	13	NA
## 388	66	140	0	15000	15.000	Black	12	12
## 389	64	160	1	15000	15.000	Hispanic	12	12
## 390	71	180	1	15000	15.000	White	16	16
## 391	73	250	1	5000	5.000	Black	12	12
## 392	75	180	1	3192	3.192	Black	11	11
## 393	62	110	0	15000	15.000	Other	12	12
## 394	63	123	0	17000	17.000	White	17	17
## 395	65	150	0	30000	30.000	White	13	13
## 396	70	135	1	15000	15.000	White	12	12
## 397	64	110	0	5000	5.000	White	16	16
## 398	68	170	0	24000	24.000	White	16	16
## 399	65	154	0	10000	10.000	White	14	14
## 400	69	150	1	50000	50.000	White	8	8
## 401	64	170	0	15000	15.000	White	11	NA
## 402	72	168	1	50000	50.000	White	16	16
## 403	69	160	1	136500	136.500	White	12	12

## 404	64	150	0	20000	20.000	White	17	17
## 405	63	108	0	30000	30.000	Hispanic	18	18
## 406	68	122	0	5000	5.000	White	18	18
## 407	64	135	0	0	0.000	White	12	12
## 408	66	130	0	0	0.000	White	10	10
## 409	70	165	1	25000	25.000	White	12	12
## 410	63	134	0	0	0.000	White	5	NA
## 411	73	180	0	22000	22.000	White	14	14
## 412	75	200	1	27000	27.000	White	12	12
## 413	65	210	0	4000	4.000	White	12	12
## 414	64	140	0	35000	35.000	White	16	16
## 415	66	160	0	17500	17.500	White	17	17
## 416	66	112	0	16500	16.500	White	14	14
## 417	64	190	0	28000	28.000	White	16	16
## 418	66	140	0	52000	52.000	White	18	18
## 419	64	108	0	15000	15.000	White	16	16
## 420	63	140	0	19000	19.000	White	13	13
## 421	63	125	0	0	0.000	White	13	13
## 422	67	132	0	5000	5.000	Black	12	12
## 423	69	135	0	15000	15.000	White	12	12
## 424	73	170	1	27000	27.000	White	12	12
## 425	72	171	1	15000	15.000	White	8	8
## 426	66	196	0	0	0.000	White	12	12
## 427	72	195	1	15000	15.000	White	14	14
## 428	64	150	0	14500	14.500	White	12	NA
## 429	64	106	0	24000	24.000	White	13	13
## 430	61	115	0	5000	5.000	White	12	12
## 431	68	145	1	18000	18.000	White	15	15
## 432	62	118	0	4000	4.000	White	12	12
## 433	64	129	0	15000	15.000	White	12	NA
## 434	69	NA	0	4000	4.000	White	13	13
## 435	66	160	0	20000	20.000	White	15	15
## 436	60	98	0	700	0.700	White	12	12
## 437	64	123	0	25000	25.000	White	15	15
## 438	65	220	0	24000	24.000	White	12	12
## 439	60	125	0	15000	15.000	White	12	NA
## 440	76	215	1	27000	27.000	White	12	12
## 441	72	NA	0	12000	12.000	White	12	12
## 442	72	185	1	400000	400.000	White	12	12
## 443	62	145	0	22000	22.000	White	18	18
## 444	62	140	0	30000	30.000	White	13	13
## 445	70	160	1	45000	45.000	White	16	16
## 446	71	205	1	35000	35.000	White	12	12
## 447	74	195	1	20000	20.000	White	12	12
## 448	65	138	0	32000	32.000	White	16	16
## 449	63	160	0	6000	6.000	Other	12	12
## 450	67	150	0	12000	12.000	White	12	12
## 451	65	128	0	0	0.000	White	16	16
## 452	63	145	0	10000	10.000	White	12	12
## 453	65	126	0	1000	1.000	White	12	12
## 454	64	136	0	12000	12.000	White	15	NA
## 455	65	140	0	16000	16.000	White	12	12
## 456	63	125	0	15000	15.000	White	13	13
## 457	68	240	0	0	0.000	White	16	16

## 458	63	140	0	25000	25.000	White	16	16
## 459	70	135	0	25000	25.000	White	12	12
## 460	68	180	1	32000	32.000	White	12	12
## 461	67	165	1	35000	35.000	White	14	14
## 462	68	130	1	25000	25.000	White	12	12
## 463	66	135	0	25000	25.000	White	12	12
## 464	65	125	0	6000	6.000	White	12	12
## 465	69	165	1	80000	80.000	White	14	14
## 466	68	145	0	20000	20.000	White	14	14
## 467	66	187	0	1000	1.000	White	17	17
## 468	71	165	1	28000	28.000	Hispanic	13	13
## 469	64	125	1	26000	26.000	Hispanic	16	16
## 470	74	210	1	27000	27.000	White	12	12
## 471	62	112	0	18000	18.000	White	13	13
## 472	65	200	0	2000	2.000	White	12	12
## 473	69	195	1	20000	20.000	White	12	12
## 474	72	185	1	15000	15.000	Black	12	12
## 475	66	221	0	6000	6.000	White	16	16
## 476	70	180	1	15000	15.000	White	11	11
## 477	61	170	0	15000	15.000	White	12	NA
## 478	60	110	0	0	0.000	White	10	10
## 479	70	190	1	5000	5.000	White	12	12
## 480	73	130	0	5000	5.000	White	11	11
## 481	66	160	0	15000	15.000	White	12	12
## 482	57	130	0	45000	45.000	Hispanic	12	12
## 483	67	210	1	25000	25.000	White	11	11
## 484	73	180	1	12000	12.000	White	12	NA
## 485	65	115	0	0	0.000	White	18	18
## 486	62	120	0	15000	15.000	White	12	12
## 487	76	165	1	12000	12.000	White	12	12
## 488	70	175	1	30000	30.000	White	14	14
## 489	64	160	0	0	0.000	White	12	12
## 490	63	130	0	4000	4.000	Black	15	15
## 491	67	185	0	5000	5.000	Black	11	11
## 492	63	115	0	26000	26.000	Black	13	13
## 493	69	190	0	5000	5.000	White	9	9
## 494	67	200	0	15000	15.000	White	9	9
## 495	66	180	0	15000	15.000	Black	12	12
## 496	61	140	0	5000	5.000	Black	12	12
## 497	70	164	1	23000	23.000	Black	12	12
## 498	71	175	1	21000	21.000	White	12	12
## 499	65	135	0	25000	25.000	White	12	12
## 500	70	157	1	18000	18.000	White	16	NA
## 501	63	150	0	4000	4.000	White	13	13
## 502	64	116	0	23900	23.900	White	12	12
## 503	68	145	1	35000	35.000	White	12	NA
## 504	64	123	0	35000	35.000	White	18	18
## 505	67	140	1	26000	26.000	White	14	14
## 506	66	172	1	25000	25.000	White	16	16
## 507	68	118	0	23500	23.500	White	13	13
## 508	65	135	0	12000	12.000	White	12	12
## 509	67	140	0	15000	15.000	White	12	12
## 510	61	165	0	25000	25.000	White	8	NA
## 511	73	210	1	3000	3.000	White	17	17

## 512	63	200	0	15000	15.000	White	12	12
## 513	66	145	0	20000	20.000	White	12	12
## 514	64	200	0	6000	6.000	White	12	12
## 515	71	160	1	14000	14.000	White	12	12
## 516	63	123	0	15000	15.000	White	16	16
## 517	71	180	1	175000	175.000	White	16	16
## 518	63	118	0	0	0.000	White	12	12
## 519	64	128	0	62000	62.000	White	16	16
## 520	73	170	1	1000	1.000	White	18	18
## 521	65	140	0	10000	10.000	White	14	14
## 522	66	120	1	45000	45.000	White	13	NA
## 523	66	120	0	15000	15.000	White	12	NA
## 524	60	135	0	45000	45.000	White	15	15
## 525	68	165	0	50000	50.000	White	18	18
## 526	59	140	0	20000	20.000	White	13	13
## 527	70	215	1	5000	5.000	White	12	12
## 528	70	165	1	35000	35.000	White	16	16
## 529	72	152	1	40000	40.000	White	16	16
## 530	64	135	0	35000	35.000	White	12	12
## 531	72	200	1	25000	25.000	White	12	12
## 532	66	170	0	50000	50.000	White	16	16
## 533	70	205	1	100000	100.000	White	18	18
## 534	69	145	1	35000	35.000	White	13	NA
## 535	66	115	0	0	0.000	White	12	12
## 536	68	175	0	24000	24.000	White	12	12
## 537	64	120	0	0	0.000	White	12	12
## 538	67	140	0	25000	25.000	White	14	14
## 539	63	124	0	0	0.000	White	12	12
## 540	74	268	1	35000	35.000	White	17	17
## 541	73	230	1	38000	38.000	White	16	NA
## 542	70	200	1	35000	35.000	White	13	13
## 543	60	130	0	25000	25.000	White	8	8
## 544	67	160	1	30000	30.000	White	12	12
## 545	64	136	0	5000	5.000	Hispanic	12	12
## 546	67	160	1	148000	148.000	White	18	18
## 547	70	165	1	30000	30.000	White	12	12
## 548	64	120	0	6500	6.500	White	15	15
## 549	62	95	0	3000	3.000	White	16	16
## 550	72	175	1	25000	25.000	White	15	15
## 551	66	200	0	0	0.000	White	8	NA
## 552	69	230	1	23000	23.000	White	18	18
## 553	82	175	1	45000	45.000	White	18	NA
## 554	63	150	0	35000	35.000	White	16	16
## 555	68	155	1	40000	40.000	White	17	17
## 556	72	180	1	30000	30.000	White	14	14
## 557	63	210	0	0	0.000	White	14	14
## 558	63	210	0	14000	14.000	White	12	12
## 559	69	NA	0	15000	15.000	White	12	12
## 560	64	120	0	26000	26.000	White	18	18
## 561	71	195	0	8000	8.000	White	12	12
## 562	64	123	0	24000	24.000	Black	16	16
## 563	72	135	1	0	0.000	White	8	8
## 564	62	125	0	0	0.000	White	12	12
## 565	66	180	0	0	0.000	White	10	10

## 566	72	200	1	15000	15.000	White	12	NA
## 567	66	140	1	5124	5.124	White	8	8
## 568	61	110	0	10000	10.000	White	15	15
## 569	64	165	0	5000	5.000	White	7	NA
## 570	62	111	0	5000	5.000	Black	13	13
## 571	69	125	0	0	0.000	White	13	13
## 572	68	145	0	12000	12.000	White	16	16
## 573	66	155	0	0	0.000	White	12	12
## 574	68	180	1	50000	50.000	White	17	17
## 575	71	158	1	136500	136.500	White	16	16
## 576	64	125	0	23000	23.000	White	13	13
## 577	61	118	0	0	0.000	White	16	16
## 578	68	155	0	25000	25.000	White	12	12
## 579	63	174	0	5000	5.000	White	9	NA
## 580	65	138	0	5000	5.000	White	12	NA
## 581	64	110	0	5000	5.000	White	12	12
## 582	65	130	0	15000	15.000	White	12	12
## 583	64	125	0	5000	5.000	White	14	14
## 584	66	130	1	40000	40.000	Black	14	14
## 585	62	124	0	6000	6.000	Black	13	13
## 586	71	170	1	100000	100.000	White	18	18
## 587	65	160	0	5000	5.000	Black	16	16
## 588	64	190	0	45000	45.000	White	8	NA
## 589	60	120	0	25000	25.000	Black	12	12
## 590	66	156	1	110000	110.000	White	18	18
## 591	61	102	0	25000	25.000	White	13	13
## 592	72	145	1	41000	41.000	Hispanic	13	NA
## 593	70	145	0	25000	25.000	White	12	12
## 594	63	130	0	23000	23.000	White	13	13
## 595	68	132	0	15000	15.000	White	14	NA
## 596	63	120	0	0	0.000	White	12	12
## 597	70	165	1	21000	21.000	White	12	12
## 598	62	150	0	4000	4.000	White	12	12
## 599	71	280	1	25000	25.000	White	12	12
## 600	70	170	1	30000	30.000	White	18	18
## 601	64	159	0	14000	14.000	White	11	11
## 602	63	115	0	6000	6.000	White	12	12
## 603	65	144	0	14000	14.000	White	12	12
## 604	71	175	1	43000	43.000	White	12	12
## 605	62	128	0	25000	25.000	White	15	15
## 606	73	195	1	40000	40.000	White	12	12
## 607	64	135	0	25000	25.000	White	16	16
## 608	68	220	1	65000	65.000	White	17	17
## 609	76	210	1	16000	16.000	White	15	15
## 610	73	196	1	136500	136.500	White	16	16
## 611	70	160	1	87000	87.000	White	18	NA
## 612	66	120	0	8000	8.000	White	12	12
## 613	64	NA	0	20000	20.000	White	15	15
## 614	60	NA	0	14000	14.000	White	14	14
## 615	68	140	1	45000	45.000	White	12	12
## 616	61	180	0	8000	8.000	White	11	NA
## 617	65	185	0	15000	15.000	White	10	NA
## 618	66	130	1	12000	12.000	White	12	12
## 619	63	132	0	8000	8.000	White	14	14

## 620	63	105	0	16000	16.000	White	15	15
## 621	67	NA	0	25000	25.000	White	12	NA
## 622	74	170	1	6000	6.000	White	15	15
## 623	66	160	0	136500	136.500	White	12	NA
## 624	70	180	1	19000	19.000	White	12	12
## 625	68	155	0	21000	21.000	White	13	13
## 626	70	131	0	43000	43.000	White	18	18
## 627	69	190	1	35000	35.000	White	15	15
## 628	70	175	1	8000	8.000	White	10	NA
## 629	63	125	0	21000	21.000	White	14	14
## 630	65	135	0	5800	5.800	White	12	12
## 631	69	185	1	17000	17.000	White	12	NA
## 632	65	120	0	45000	45.000	White	12	NA
## 633	68	140	1	24000	24.000	White	14	14
## 634	62	140	0	5000	5.000	White	11	11
## 635	70	185	1	62000	62.000	White	11	11
## 636	66	150	0	11000	11.000	White	12	12
## 637	65	225	1	10000	10.000	White	13	NA
## 638	70	185	1	40000	40.000	White	14	14
## 639	66	163	0	0	0.000	Black	12	NA
## 640	70	170	1	40000	40.000	White	12	NA
## 641	66	165	0	24000	24.000	Black	14	NA
## 642	68	160	1	50000	50.000	Black	18	18
## 643	68	NA	0	25000	25.000	White	12	12
## 644	68	160	1	24000	24.000	White	16	16
## 645	68	120	1	20000	20.000	White	16	16
## 646	63	120	0	15000	15.000	White	16	16
## 647	70	195	1	60000	60.000	White	18	18
## 648	65	155	0	11000	11.000	White	13	13
## 649	64	115	0	5000	5.000	White	15	15
## 650	63	113	0	136500	136.500	White	17	17
## 651	69	180	1	87000	87.000	White	18	18
## 652	65	135	0	27000	27.000	White	16	16
## 653	77	241	1	89000	89.000	White	16	16
## 654	70	175	1	40000	40.000	White	14	14
## 655	64	120	0	15000	15.000	White	16	16
## 656	64	130	0	1000	1.000	White	14	14
## 657	62	180	0	0	0.000	White	12	12
## 658	64	NA	0	22000	22.000	White	12	12
## 659	64	184	0	12000	12.000	White	8	8
## 660	63	125	0	22000	22.000	White	16	16
## 661	58	180	0	40000	40.000	Black	12	12
## 662	73	182	1	25000	25.000	Black	10	NA
## 663	66	182	0	0	0.000	White	12	12
## 664	64	120	0	62000	62.000	White	16	16
## 665	62	150	0	40000	40.000	White	16	16
## 666	61	123	0	0	0.000	White	13	13
## 667	64	113	0	35000	35.000	Hispanic	14	14
## 668	64	119	0	7000	7.000	White	12	12
## 669	70	190	1	25000	25.000	White	14	14
## 670	62	118	0	14000	14.000	White	12	12
## 671	62	120	0	5000	5.000	White	12	12
## 672	64	150	0	15000	15.000	White	12	12
## 673	66	240	0	0	0.000	Black	14	14

## 674	66	150	0	6000	6.000	White	13	13
## 675	69	223	0	11000	11.000	Black	12	NA
## 676	64	132	0	10000	10.000	White	13	13
## 677	62	168	0	0	0.000	White	12	12
## 678	62	118	0	5000	5.000	White	12	12
## 679	71	193	1	20000	20.000	White	14	14
## 680	59	108	0	35000	35.000	White	12	NA
## 681	62	155	0	7000	7.000	White	12	12
## 682	68	185	1	38000	38.000	White	9	9
## 683	68	175	1	29000	29.000	White	9	NA
## 684	62	122	0	20000	20.000	White	10	10
## 685	63	160	0	8000	8.000	White	12	12
## 686	69	175	1	36000	36.000	White	16	16
## 687	67	228	0	1500	1.500	White	12	12
## 688	64	135	0	42000	42.000	White	18	18
## 689	68	135	0	35000	35.000	White	17	17
## 690	70	165	1	25000	25.000	White	12	12
## 691	76	150	1	5000	5.000	White	9	9
## 692	69	140	1	13000	13.000	White	10	10
## 693	66	133	0	20000	20.000	White	11	11
## 694	66	98	0	10000	10.000	White	12	NA
## 695	72	194	1	50000	50.000	Other	15	15
## 696	69	145	1	30000	30.000	Black	11	11
## 697	69	160	1	7000	7.000	White	12	NA
## 698	62	118	0	15000	15.000	Black	12	12
## 699	60	200	0	31000	31.000	Black	12	NA
## 700	66	149	0	15000	15.000	Black	12	12
## 701	60	135	0	0	0.000	White	18	18
## 702	67	170	1	50000	50.000	White	16	16
## 703	67	120	0	5000	5.000	Hispanic	11	11
## 704	66	140	1	5000	5.000	White	15	15
## 705	70	150	0	600	0.600	Black	12	12
## 706	64	150	0	14000	14.000	Black	8	8
## 707	60	105	0	40000	40.000	Other	18	18
## 708	68	170	1	24000	24.000	White	18	18
## 709	66	150	0	25000	25.000	Black	12	NA
## 710	73	180	1	22000	22.000	Black	12	12
## 711	72	215	1	20000	20.000	White	8	8
## 712	64	145	0	20112	20.112	White	12	NA
## 713	67	135	1	12000	12.000	White	13	13
## 714	71	180	1	15000	15.000	Black	8	NA
## 715	70	221	1	20000	20.000	White	18	18
## 716	66	129	0	5000	5.000	White	8	8
## 717	67	140	0	41000	41.000	White	13	13
## 718	71	155	1	13000	13.000	Black	9	9
## 719	63	136	0	0	0.000	White	12	12
## 720	73	170	1	60000	60.000	White	16	16
## 721	70	155	1	24000	24.000	White	16	16
## 722	70	165	1	38000	38.000	White	16	16
## 723	71	128	0	3000	3.000	White	14	14
## 724	66	110	0	13000	13.000	White	12	12
## 725	75	160	1	5000	5.000	White	12	12
## 726	60	92	0	20000	20.000	White	14	14
## 727	72	230	1	22000	22.000	White	12	12

## 728	70	256	0	35000	35.000	White	14	14
## 729	63	118	0	0	0.000	Black	16	16
## 730	75	230	1	28000	28.000	Black	9	NA
## 731	60	110	0	22000	22.000	White	12	12
## 732	73	186	1	30000	30.000	Black	12	NA
## 733	65	165	1	5000	5.000	Black	6	NA
## 734	65	210	0	30000	30.000	Black	12	12
## 735	63	135	0	35000	35.000	White	17	17
## 736	67	140	1	30000	30.000	White	16	16
## 737	61	130	0	32000	32.000	White	12	12
## 738	69	135	0	26000	26.000	White	17	17
## 739	64	144	0	22000	22.000	White	14	14
## 740	62	190	0	15000	15.000	White	14	NA
## 741	70	150	1	25000	25.000	White	12	12
## 742	68	147	0	11000	11.000	White	10	10
## 743	67	140	1	15000	15.000	White	12	NA
## 744	62	130	0	13000	13.000	White	12	NA
## 745	64	180	0	10000	10.000	White	15	15
## 746	68	110	0	0	0.000	White	12	12
## 747	72	200	1	35000	35.000	White	16	16
## 748	68	120	0	12000	12.000	White	12	12
## 749	64	130	0	25000	25.000	White	17	17
## 750	66	130	1	0	0.000	White	13	13
## 751	64	118	0	7000	7.000	White	11	NA
## 752	73	230	1	57000	57.000	White	14	14
## 753	73	210	1	36000	36.000	White	16	16
## 754	69	175	1	29000	29.000	Hispanic	14	14
## 755	68	133	0	8000	8.000	White	13	13
## 756	71	125	1	3000	3.000	Black	11	11
## 757	63	160	0	0	0.000	White	12	12
## 758	66	205	0	20000	20.000	White	16	16
## 759	66	158	0	0	0.000	White	12	NA
## 760	66	173	1	33000	33.000	White	12	12
## 761	68	210	0	15000	15.000	Hispanic	12	12
## 762	70	235	1	16000	16.000	White	12	12
## 763	62	148	0	5000	5.000	White	12	12
## 764	66	142	0	8000	8.000	White	14	14
## 765	63	122	0	32000	32.000	Black	16	16
## 766	75	175	1	14500	14.500	White	12	12
## 767	67	125	0	13000	13.000	White	12	12
## 768	68	115	1	5000	5.000	White	16	16
## 769	60	NA	0	5000	5.000	Black	12	12
## 770	62	125	0	0	0.000	White	10	NA
## 771	70	200	0	5000	5.000	White	11	NA
## 772	63	160	0	7000	7.000	White	9	9
## 773	65	126	0	50000	50.000	Black	18	18
## 774	69	185	0	12000	12.000	Black	12	12
## 775	71	209	1	19000	19.000	White	14	14
## 776	62	110	0	9000	9.000	White	12	12
## 777	64	110	0	25000	25.000	White	12	12
## 778	65	130	0	20000	20.000	Black	12	NA
## 779	72	170	1	55000	55.000	Hispanic	18	18
## 780	62	145	0	15000	15.000	Black	12	NA
## 781	75	190	1	45000	45.000	White	18	18

## 782	65	120	0	10000	10.000	White	12	12
## 783	65	142	0	15000	15.000	White	12	12
## 784	63	113	0	13000	13.000	White	12	12
## 785	66	120	0	45000	45.000	White	18	18
## 786	64	110	0	20000	20.000	White	13	13
## 787	68	116	0	45000	45.000	White	16	16
## 788	72	185	1	30000	30.000	White	12	12
## 789	64	110	0	12000	12.000	White	12	12
## 790	70	125	0	26000	26.000	White	13	NA
## 791	65	115	0	12500	12.500	White	12	12
## 792	64	130	0	8000	8.000	White	12	12
## 793	64	120	0	15000	15.000	Hispanic	16	16
## 794	67	207	1	65000	65.000	White	14	14
## 795	73	175	1	25000	25.000	White	10	NA
## 796	73	185	1	8000	8.000	Hispanic	14	14
## 797	65	110	1	15000	15.000	Other	14	14
## 798	64	160	0	12000	12.000	White	16	16
## 799	72	195	1	35000	35.000	White	12	12
## 800	67	140	0	35000	35.000	Black	13	13
## 801	67	162	1	40000	40.000	White	16	16
## 802	66	140	0	15000	15.000	Hispanic	14	14
## 803	74	145	1	29000	29.000	White	12	12
## 804	60	114	0	5000	5.000	White	10	10
## 805	64	96	0	15000	15.000	White	12	12
## 806	63	175	0	15000	15.000	White	13	13
## 807	74	250	1	20000	20.000	White	12	NA
## 808	74	205	1	3000	3.000	Black	6	NA
## 809	63	120	0	1000	1.000	Black	16	16
## 810	62	140	0	8000	8.000	Black	11	11
## 811	62	103	0	5000	5.000	White	12	12
## 812	67	160	0	25000	25.000	White	16	16
## 813	75	219	1	5000	5.000	White	13	13
## 814	69	163	1	20000	20.000	White	12	12
## 815	65	133	0	15000	15.000	White	12	12
## 816	73	150	1	30000	30.000	White	12	12
## 817	63	200	0	12000	12.000	White	12	NA
## 818	59	NA	0	5000	5.000	White	11	NA
## 819	60	120	0	0	0.000	White	12	12
## 820	65	122	0	15000	15.000	White	14	14
## 821	64	145	1	5000	5.000	Black	14	14
## 822	64	130	0	15000	15.000	Black	10	NA
## 823	64	135	0	25000	25.000	White	18	NA
## 824	67	210	0	10000	10.000	White	14	14
## 825	69	140	1	16000	16.000	White	12	12
## 826	71	185	1	45000	45.000	White	12	12
## 827	72	170	1	40000	40.000	White	14	14
## 828	72	200	1	15000	15.000	White	12	12
## 829	63	140	0	0	0.000	White	12	12
## 830	66	152	0	20000	20.000	White	13	13
## 831	70	125	1	25000	25.000	White	14	NA
## 832	64	145	0	19000	19.000	White	14	14
## 833	64	128	0	17600	17.600	White	16	16
## 834	68	155	1	7000	7.000	White	12	NA
## 835	74	207	1	30000	30.000	White	12	12

## 836	62	125	0	18000	18.000	White	11	11
## 837	63	135	0	15000	15.000	Hispanic	8	8
## 838	65	135	0	25000	25.000	White	16	16
## 839	66	155	0	0	0.000	White	14	14
## 840	60	120	0	6000	6.000	White	5	5
## 841	69	170	1	70000	70.000	White	18	18
## 842	61	115	0	15000	15.000	Other	16	16
## 843	68	140	1	15000	15.000	White	12	12
## 844	65	135	0	25000	25.000	White	17	17
## 845	66	120	0	35000	35.000	White	16	16
## 846	70	155	1	18000	18.000	White	16	16
## 847	72	165	1	28000	28.000	Black	15	15
## 848	66	160	0	35000	35.000	White	12	12
## 849	67	150	1	25000	25.000	Hispanic	12	12
## 850	64	135	0	15000	15.000	Hispanic	11	11
## 851	71	172	1	22000	22.000	Hispanic	14	14
## 852	63	128	0	0	0.000	White	12	12
## 853	73	190	1	35000	35.000	White	12	NA
## 854	64	140	0	18000	18.000	Black	15	NA
## 855	68	150	1	35000	35.000	White	14	14
## 856	64	115	0	16400	16.400	Black	12	12
## 857	66	135	1	22000	22.000	Black	16	16
## 858	67	128	0	30000	30.000	White	16	NA
## 859	64	135	0	17000	17.000	Hispanic	12	12
## 860	64	147	0	25000	25.000	Black	14	14
## 861	62	138	0	10000	10.000	White	12	12
## 862	69	180	1	40000	40.000	White	12	12
## 863	63	125	0	12500	12.500	White	12	12
## 864	63	180	0	15000	15.000	White	12	NA
## 865	63	135	0	10000	10.000	White	12	12
## 866	72	195	1	35000	35.000	White	15	NA
## 867	61	93	0	0	0.000	Hispanic	16	16
## 868	75	202	1	105000	105.000	White	12	12
## 869	71	160	1	25000	25.000	White	12	12
## 870	70	170	1	100000	100.000	White	18	18
## 871	60	130	0	25000	25.000	White	12	NA
## 872	69	158	1	21000	21.000	White	12	NA
## 873	64	200	0	10000	10.000	White	14	14
## 874	72	222	1	33000	33.000	White	12	12
## 875	69	149	1	26000	26.000	White	18	18
## 876	63	136	0	60000	60.000	White	10	10
## 877	64	110	0	15000	15.000	White	16	16
## 878	71	235	1	18000	18.000	White	16	16
## 879	59	105	0	15000	15.000	White	8	NA
## 880	68	170	1	5000	5.000	White	13	13
## 881	77	270	1	60000	60.000	White	17	17
## 882	68	150	0	12000	12.000	White	14	14
## 883	70	140	1	28000	28.000	Black	18	18
## 884	69	154	1	42000	42.000	White	18	18
## 885	63	103	0	2000	2.000	White	12	12
## 886	65	147	0	10000	10.000	White	16	16
## 887	73	190	1	20000	20.000	Black	18	18
## 888	66	145	1	28000	28.000	Other	15	15
## 889	72	212	1	10000	10.000	Black	17	17

## 890	66	164	1	0	0.000	White	16	NA
## 891	72	161	1	31000	31.000	Black	12	12
## 892	69	172	0	17000	17.000	Black	13	13
## 893	67	220	0	16000	16.000	White	12	NA
## 894	66	170	0	35000	35.000	White	15	15
## 895	67	111	0	3000	3.000	White	12	12
## 896	68	149	0	5000	5.000	White	11	11
## 897	72	155	1	25000	25.000	White	10	NA
## 898	68	150	0	16000	16.000	White	18	18
## 899	65	120	0	35000	35.000	Black	15	15
## 900	62	140	0	27000	27.000	Black	17	17
## 901	69	155	1	25000	25.000	White	17	17
## 902	62	200	0	0	0.000	White	14	14
## 903	70	145	1	40000	40.000	White	16	16
## 904	66	151	0	45000	45.000	White	16	16
## 905	66	185	1	14000	14.000	White	12	12
## 906	66	200	0	25000	25.000	White	14	14
## 907	72	230	1	40000	40.000	White	12	12
## 908	69	187	1	34000	34.000	White	12	NA
## 909	66	205	1	40000	40.000	White	12	NA
## 910	71	190	1	25000	25.000	White	16	16
## 911	69	165	1	35000	35.000	White	14	14
## 912	60	104	0	12000	12.000	Hispanic	12	12
## 913	65	NA	0	30000	30.000	White	17	17
## 914	62	180	0	23000	23.000	White	12	12
## 915	67	150	0	2000	2.000	White	12	12
## 916	67	175	1	20000	20.000	White	14	14
## 917	68	240	0	10000	10.000	Black	9	9
## 918	65	175	0	0	0.000	Black	6	NA
## 919	63	115	0	25000	25.000	White	16	16
## 920	64	210	0	5000	5.000	Other	12	12
## 921	66	150	0	5000	5.000	Black	11	NA
## 922	66	160	0	60000	60.000	Black	16	16
## 923	74	170	1	12000	12.000	Black	16	16
## 924	65	157	0	25000	25.000	White	18	18
## 925	63	180	0	22000	22.000	Black	14	14
## 926	62	130	0	0	0.000	White	12	12
## 927	68	165	1	8000	8.000	White	17	17
## 928	68	NA	0	5000	5.000	White	17	17
## 929	66	124	0	2000	2.000	White	16	16
## 930	64	110	0	5000	5.000	White	14	14
## 931	61	130	0	10000	10.000	White	13	13
## 932	65	122	0	18600	18.600	White	16	16
## 933	62	120	0	20000	20.000	White	14	14
## 934	73	200	1	100000	100.000	White	18	18
## 935	62	135	0	50000	50.000	White	15	15
## 936	70	170	1	27000	27.000	White	12	12
## 937	58	100	0	1000	1.000	Black	12	12
## 938	68	145	1	18000	18.000	White	12	12
## 939	67	140	0	17000	17.000	White	14	14
## 940	64	180	0	10000	10.000	White	12	12
## 941	70	208	1	14000	14.000	White	14	NA
## 942	72	200	1	7200	7.200	White	14	NA
## 943	63	130	0	0	0.000	Other	8	8

## 944	63	112	0	33000	33.000	White	17	17
## 945	66	180	1	23000	23.000	White	12	12
## 946	65	138	0	10000	10.000	White	12	12
## 947	61	124	1	22000	22.000	White	12	12
## 948	61	110	0	13000	13.000	Hispanic	12	12
## 949	67	150	0	33000	33.000	White	12	12
## 950	73	250	1	36000	36.000	White	12	12
## 951	66	180	0	10000	10.000	Black	10	NA
## 952	71	185	0	10000	10.000	Black	14	14
## 953	64	145	0	6000	6.000	White	12	12
## 954	70	199	1	25000	25.000	White	11	NA
## 955	67	165	0	12000	12.000	White	12	12
## 956	62	190	0	10000	10.000	White	11	NA
## 957	67	131	0	21000	21.000	White	12	12
## 958	69	210	1	26000	26.000	White	12	12
## 959	66	170	0	22000	22.000	Black	12	12
## 960	66	155	0	23000	23.000	Black	15	15
## 961	66	150	1	20000	20.000	White	15	15
## 962	66	130	0	10000	10.000	White	13	13
## 963	64	137	0	15000	15.000	White	12	NA
## 964	72	190	1	7000	7.000	Black	14	14
## 965	64	195	0	15000	15.000	White	12	12
## 966	64	170	0	0	0.000	White	12	12
## 967	65	160	0	26000	26.000	White	16	16
## 968	72	150	1	10000	10.000	White	11	11
## 969	63	150	0	0	0.000	White	8	8
## 970	71	185	1	3000	3.000	White	14	14
## 971	64	135	0	27000	27.000	Hispanic	17	17
## 972	70	190	1	25000	25.000	Black	16	16
## 973	66	125	0	35000	35.000	White	18	18
## 974	64	112	0	28000	28.000	White	17	17
## 975	69	154	0	25000	25.000	White	12	12
## 976	67	123	0	15000	15.000	White	12	12
## 977	75	178	1	55000	55.000	White	18	18
## 978	66	125	0	20000	20.000	Hispanic	17	17
## 979	67	125	0	8500	8.500	White	12	12
## 980	68	132	0	0	0.000	White	12	12
## 981	67	142	0	15000	15.000	White	13	13
## 982	75	214	1	30000	30.000	Black	8	NA
## 983	71	175	1	30000	30.000	White	16	16
## 984	62	175	0	0	0.000	White	12	12
## 985	68	180	0	5000	5.000	White	13	13
## 986	67	124	0	5000	5.000	White	14	14
## 987	68	135	0	20000	20.000	White	12	12
## 988	70	183	0	20000	20.000	White	15	NA
## 989	70	151	1	22000	22.000	White	6	6
## 990	67	145	1	25000	25.000	White	16	16
## 991	64	122	0	0	0.000	White	16	16
## 992	64	140	0	5000	5.000	Black	12	NA
## 993	65	120	0	15000	15.000	White	12	12
## 994	71	160	1	3000	3.000	White	8	8
## 995	63	137	0	16000	16.000	White	12	12
## 996	70	175	1	30000	30.000	White	14	14
## 997	64	126	0	0	0.000	White	12	12

## 998	61	148	0	10000	10.000	Black	12	12
## 999	65	162	0	15000	15.000	Black	12	12
## 1000	67	170	1	28000	28.000	White	12	12
## 1001	67	150	0	15000	15.000	White	12	NA
## 1002	68	NA	0	15000	15.000	White	12	12
## 1003	59	110	0	5000	5.000	White	6	NA
## 1004	63	135	0	5000	5.000	White	12	NA
## 1005	65	153	1	31500	31.500	White	14	14
## 1006	66	168	1	95000	95.000	White	18	18
## 1007	68	160	1	45000	45.000	White	17	17
## 1008	69	150	0	20000	20.000	White	12	NA
## 1009	67	145	1	38000	38.000	White	12	12
## 1010	72	250	1	10000	10.000	White	8	8
## 1011	63	139	0	15000	15.000	White	16	16
## 1012	74	199	1	30000	30.000	White	12	12
## 1013	74	225	1	35900	35.900	White	16	16
## 1014	66	104	0	12000	12.000	White	13	13
## 1015	72	165	1	15000	15.000	White	15	15
## 1016	69	115	0	10000	10.000	White	16	16
## 1017	66	150	0	45000	45.000	White	18	18
## 1018	62	175	0	5000	5.000	White	12	12
## 1019	68	130	1	5000	5.000	White	11	11
## 1020	74	185	1	40000	40.000	White	16	16
## 1021	72	180	1	21500	21.500	White	12	12
## 1022	66	132	1	14000	14.000	White	12	NA
## 1023	67	175	1	38000	38.000	Other	17	17
## 1024	65	130	0	1000	1.000	White	12	12
## 1025	66	240	1	14000	14.000	White	12	12
## 1026	65	130	0	15000	15.000	White	12	12
## 1027	64	110	0	15000	15.000	White	16	16
## 1028	62	132	0	0	0.000	Hispanic	12	NA
## 1029	64	160	0	25000	25.000	White	12	NA
## 1030	68	145	0	24000	24.000	White	13	13
## 1031	64	130	0	4500	4.500	White	16	16
## 1032	64	127	0	18000	18.000	White	16	16
## 1033	64	115	0	35000	35.000	White	12	12
## 1034	63	100	0	14000	14.000	White	12	NA
## 1035	69	160	0	10000	10.000	White	12	12
## 1036	67	150	0	9500	9.500	White	12	12
## 1037	63	140	0	11000	11.000	White	15	15
## 1038	67	140	1	17000	17.000	White	12	12
## 1039	60	130	0	6000	6.000	White	13	13
## 1040	62	140	0	2500	2.500	White	11	NA
## 1041	72	163	1	40000	40.000	White	16	16
## 1042	67	190	0	0	0.000	White	14	14
## 1043	67	165	1	25000	25.000	White	16	16
## 1044	68	170	0	15000	15.000	White	13	13
## 1045	66	170	0	28000	28.000	Black	15	15
## 1046	66	136	0	33000	33.000	Black	12	12
## 1047	68	210	0	5000	5.000	White	16	16
## 1048	60	149	0	4000	4.000	White	8	NA
## 1049	67	150	0	0	0.000	White	12	12
## 1050	65	130	1	4100	4.100	White	16	16
## 1051	60	89	1	5000	5.000	White	11	11

## 1052	69	135	0	25000	25.000	White	12	12
## 1053	72	205	1	32000	32.000	White	12	12
## 1054	65	170	1	15000	15.000	Hispanic	9	9
## 1055	69	170	1	15000	15.000	White	14	14
## 1056	64	140	0	13000	13.000	White	8	NA
## 1057	64	150	1	8000	8.000	Hispanic	8	8
## 1058	62	100	0	0	0.000	Other	17	17
## 1059	65	170	0	0	0.000	White	13	13
## 1060	64	125	0	17000	17.000	White	12	12
## 1061	67	137	0	15000	15.000	White	12	12
## 1062	66	170	1	18000	18.000	White	13	13
## 1063	73	165	1	12000	12.000	White	12	12
## 1064	74	295	1	7000	7.000	White	7	7
## 1065	66	121	0	0	0.000	White	12	12
## 1066	65	130	0	1200	1.200	White	14	14
## 1067	72	170	1	0	0.000	White	12	12
## 1068	64	120	0	0	0.000	White	12	12
## 1069	63	165	1	14000	14.000	White	12	12
## 1070	63	115	0	17000	17.000	White	12	12
## 1071	66	150	1	30000	30.000	White	12	12
## 1072	69	196	1	5000	5.000	White	6	6
## 1073	72	230	1	0	0.000	White	10	NA
## 1074	64	140	0	62000	62.000	White	12	12
## 1075	70	260	1	25000	25.000	White	12	NA
## 1076	66	185	0	22000	22.000	Hispanic	12	12
## 1077	63	130	0	15000	15.000	White	12	12
## 1078	73	210	1	27000	27.000	White	12	12
## 1079	63	135	0	20000	20.000	White	16	16
## 1080	69	160	0	9000	9.000	White	11	11
## 1081	66	120	0	0	0.000	White	14	14
## 1082	73	168	1	17000	17.000	White	12	12
## 1083	65	119	0	5000	5.000	White	14	14
## 1084	71	145	1	15000	15.000	White	12	12
## 1085	68	160	0	1800	1.800	White	12	12
## 1086	64	145	0	18000	18.000	White	12	12
## 1087	63	120	0	25000	25.000	White	18	18
## 1088	66	150	0	5000	5.000	Black	14	14
## 1089	70	220	1	20000	20.000	Black	16	16
## 1090	64	115	0	75000	75.000	White	15	15
## 1091	66	170	0	3500	3.500	White	12	12
## 1092	61	130	0	36000	36.000	White	12	NA
## 1093	72	210	1	30000	30.000	White	12	12
## 1094	65	145	0	25000	25.000	White	13	13
## 1095	64	200	0	1000	1.000	White	14	14
## 1096	68	187	1	60000	60.000	White	12	NA
## 1097	64	170	0	5000	5.000	White	12	NA
## 1098	74	195	1	35000	35.000	White	13	NA
## 1099	67	160	1	9000	9.000	White	13	13
## 1100	70	184	1	35000	35.000	White	9	9
## 1101	66	150	0	11000	11.000	White	10	10
## 1102	71	180	1	12000	12.000	White	12	12
## 1103	71	170	1	30000	30.000	White	12	12
## 1104	71	155	1	19000	19.000	Black	7	NA
## 1105	67	215	0	5000	5.000	White	12	12

## 1106	74	205	1	9000	9.000	White	9	NA
## 1107	75	225	1	30000	30.000	White	16	16
## 1108	62	118	0	0	0.000	White	12	12
## 1109	72	150	1	9000	9.000	White	12	12
## 1110	66	145	0	15000	15.000	Hispanic	16	16
## 1111	65	135	0	8000	8.000	Black	12	12
## 1112	70	175	1	25000	25.000	White	8	NA
## 1113	66	129	0	10000	10.000	White	10	10
## 1114	72	160	1	33000	33.000	White	12	NA
## 1115	70	175	1	5000	5.000	Black	10	NA
## 1116	72	185	0	5000	5.000	Black	5	NA
## 1117	64	237	0	15000	15.000	Black	9	NA
## 1118	60	140	0	12000	12.000	Hispanic	12	12
## 1119	64	136	0	18000	18.000	White	15	15
## 1120	61	169	0	5000	5.000	Hispanic	8	8
## 1121	66	181	0	15000	15.000	Black	12	12
## 1122	65	193	0	30000	30.000	White	13	13
## 1123	65	198	0	12500	12.500	White	12	12
## 1124	62	145	0	10000	10.000	Black	12	NA
## 1125	68	212	1	8500	8.500	Black	13	13
## 1126	67	205	0	15000	15.000	White	13	13
## 1127	73	175	1	21000	21.000	Black	14	14
## 1128	63	122	0	0	0.000	White	12	12
## 1129	64	153	0	21000	21.000	White	12	12
## 1130	70	210	1	40000	40.000	White	12	12
## 1131	66	135	0	0	0.000	White	13	13
## 1132	68	160	0	21000	21.000	White	17	17
## 1133	63	123	0	0	0.000	White	13	13
## 1134	66	160	0	5000	5.000	White	12	12
## 1135	71	153	0	22000	22.000	White	17	17
## 1136	73	155	1	30000	30.000	White	14	14
## 1137	64	185	0	0	0.000	White	12	12
## 1138	61	140	0	123000	123.000	White	14	14
## 1139	63	190	0	8000	8.000	White	9	NA
## 1140	63	140	0	0	0.000	White	9	NA
## 1141	62	115	0	0	0.000	White	8	8
## 1142	64	145	0	2000	2.000	White	9	9
## 1143	67	195	0	7600	7.600	White	6	NA
## 1144	67	145	0	0	0.000	White	12	12
## 1145	66	157	0	5000	5.000	White	8	NA
## 1146	72	160	1	15000	15.000	White	14	14
## 1147	66	135	0	5000	5.000	White	15	15
## 1148	66	135	0	15000	15.000	Black	12	12
## 1149	61	114	0	0	0.000	White	18	18
## 1150	63	138	0	10000	10.000	White	12	12
## 1151	73	244	1	35000	35.000	White	12	12
## 1152	64	130	0	15000	15.000	White	12	12
## 1153	66	158	0	15000	15.000	White	16	16
## 1154	70	155	0	4000	4.000	White	12	12
## 1155	68	165	1	16000	16.000	White	8	8
## 1156	67	128	0	200	0.200	White	12	12
## 1157	74	195	1	23000	23.000	White	16	16
## 1158	64	123	0	16000	16.000	White	16	16
## 1159	61	130	0	0	0.000	White	12	12

## 1160	66	250	0	0	0.000	White	12	12
## 1161	60	200	0	6000	6.000	White	12	12
## 1162	59	125	0	600	0.600	White	9	9
## 1163	62	160	0	0	0.000	Black	16	16
## 1164	62	187	0	0	0.000	Black	14	14
## 1165	62	124	0	25000	25.000	Black	12	12
## 1166	62	210	0	0	0.000	White	12	12
## 1167	75	201	1	28000	28.000	Other	16	16
## 1168	66	155	0	15000	15.000	White	8	NA
## 1169	66	160	0	4000	4.000	White	8	8
## 1170	64	129	1	15000	15.000	White	12	12
## 1171	71	172	1	15000	15.000	White	12	12
## 1172	66	150	0	25000	25.000	White	18	18
## 1173	70	170	1	5000	5.000	White	13	13
## 1174	61	117	0	0	0.000	White	10	NA
## 1175	63	123	0	25000	25.000	White	12	12
## 1176	67	117	0	15000	15.000	White	12	12
## 1177	74	230	0	15000	15.000	White	12	12
## 1178	69	180	1	40000	40.000	White	11	NA
## 1179	70	255	1	30000	30.000	White	11	11
## 1180	66	195	0	5000	5.000	White	12	12
## 1181	74	200	1	35000	35.000	White	14	14
## 1182	65	200	0	16000	16.000	White	14	14
## 1183	63	145	0	5000	5.000	White	12	12
## 1184	64	128	0	28000	28.000	White	16	16
## 1185	68	206	1	20000	20.000	White	15	15
## 1186	66	140	1	21000	21.000	White	13	13
## 1187	69	210	1	17000	17.000	Black	12	NA
## 1188	60	115	0	24000	24.000	White	13	13
## 1189	61	110	0	25000	25.000	White	12	12
## 1190	75	162	1	40000	40.000	White	12	12
## 1191	70	220	1	15000	15.000	White	9	9
## 1192	63	145	0	0	0.000	Hispanic	9	9
## 1193	69	150	1	0	0.000	White	13	13
## 1194	66	165	0	0	0.000	White	16	16
## 1195	64	120	0	8000	8.000	White	13	13
## 1196	63	175	0	19000	19.000	Hispanic	15	15
## 1197	64	178	0	5000	5.000	White	12	NA
## 1198	64	120	0	10000	10.000	Hispanic	11	NA
## 1199	67	138	0	45000	45.000	White	16	16
## 1200	64	145	1	5000	5.000	Black	17	17
## 1201	72	160	1	0	0.000	White	14	14
## 1202	63	142	0	24000	24.000	Black	14	14
## 1203	67	100	0	5000	5.000	White	14	14
## 1204	63	155	0	15000	15.000	Hispanic	14	14
## 1205	66	160	1	33000	33.000	White	16	16
## 1206	65	125	0	24000	24.000	White	14	14
## 1207	63	135	0	6000	6.000	White	13	13
## 1208	66	129	0	90000	90.000	White	14	NA
## 1209	64	190	0	0	0.000	White	16	16
## 1210	64	170	0	57000	57.000	White	18	18
## 1211	68	125	0	15000	15.000	White	14	14
## 1212	71	195	1	13800	13.800	White	14	14
## 1213	71	280	1	30000	30.000	White	18	18

## 1214	72	155	1	15000	15.000	White	12	12
## 1215	60	115	0	15000	15.000	White	14	14
## 1216	70	170	1	31000	31.000	White	12	12
## 1217	74	180	1	33000	33.000	White	17	17
## 1218	68	175	1	30000	30.000	White	18	18
## 1219	74	218	1	12000	12.000	White	12	12
## 1220	75	150	1	5000	5.000	White	12	12
## 1221	68	171	1	21000	21.000	White	12	12
## 1222	72	185	1	45000	45.000	White	12	12
## 1223	63	140	0	28000	28.000	White	18	18
## 1224	71	225	1	25000	25.000	White	9	9
## 1225	72	210	1	12000	12.000	White	12	12
## 1226	64	170	0	19000	19.000	White	12	12
## 1227	63	200	0	6000	6.000	White	14	14
## 1228	66	230	0	5300	5.300	White	13	13
## 1229	66	121	0	5000	5.000	Black	12	12
## 1230	61	87	0	15000	15.000	White	13	13
## 1231	60	110	1	5000	5.000	Black	2	NA
## 1232	62	120	0	0	0.000	White	12	12
## 1233	65	145	0	15000	15.000	White	11	NA
## 1234	73	215	1	17000	17.000	White	12	12
## 1235	66	165	0	4700	4.700	Black	12	NA
## 1236	67	139	0	5000	5.000	White	12	12
## 1237	68	113	0	0	0.000	White	12	12
## 1238	62	150	0	9500	9.500	White	12	12
## 1239	65	150	1	1700	1.700	White	12	12
## 1240	63	130	0	0	0.000	White	14	14
## 1241	62	141	0	5400	5.400	White	12	12
## 1242	68	160	1	10000	10.000	White	12	12
## 1243	59	99	0	25000	25.000	White	15	15
## 1244	62	180	0	0	0.000	White	12	12
## 1245	69	165	1	5000	5.000	White	13	13
## 1246	70	135	0	25000	25.000	White	14	14
## 1247	66	180	1	15000	15.000	White	8	8
## 1248	64	102	0	0	0.000	White	9	9
## 1249	59	120	0	15000	15.000	White	12	NA
## 1250	62	100	0	25000	25.000	White	10	NA
## 1251	68	190	1	30000	30.000	White	12	12
## 1252	68	157	0	35000	35.000	White	16	16
## 1253	63	220	0	25000	25.000	White	11	NA
## 1254	63	130	0	28000	28.000	White	18	18
## 1255	63	100	0	42000	42.000	White	12	12
## 1256	68	170	1	45000	45.000	White	12	12
## 1257	64	121	0	55000	55.000	White	12	12
## 1258	65	128	0	5000	5.000	White	15	15
## 1259	72	220	1	62000	62.000	White	17	17
## 1260	70	135	0	36000	36.000	White	16	16
## 1261	66	140	0	15000	15.000	White	12	12
## 1262	70	155	1	25000	25.000	White	10	NA
## 1263	72	220	1	19000	19.000	White	12	12
## 1264	69	165	1	38000	38.000	White	11	11
## 1265	63	120	0	15000	15.000	White	14	14
## 1266	58	114	0	4500	4.500	White	5	NA
## 1267	63	115	0	96000	96.000	White	14	14

## 1268	63	115	0	11000	11.000	White	12	12
## 1269	73	312	1	9000	9.000	White	15	15
## 1270	69	127	0	5000	5.000	White	14	14
## 1271	70	160	1	50000	50.000	White	12	12
## 1272	66	115	0	0	0.000	White	12	NA
## 1273	60	170	0	5000	5.000	White	15	15
## 1274	66	185	0	0	0.000	White	16	16
## 1275	65	185	0	6000	6.000	White	13	13
## 1276	72	180	1	100000	100.000	White	13	13
## 1277	62	130	0	16500	16.500	White	13	13
## 1278	72	200	1	25000	25.000	White	12	12
## 1279	69	185	1	0	0.000	White	12	12
## 1280	65	120	0	15000	15.000	Black	12	12
## 1281	73	134	1	15000	15.000	Black	14	14
## 1282	66	140	0	15000	15.000	Black	12	12
## 1283	72	280	1	32000	32.000	White	14	14
## 1284	73	230	1	30000	30.000	White	18	18
## 1285	68	150	0	10000	10.000	White	16	16
## 1286	59	180	0	15000	15.000	White	12	12
## 1287	64	128	0	0	0.000	White	12	NA
## 1288	66	125	0	15000	15.000	White	12	12
## 1289	60	129	0	6500	6.500	White	8	8
## 1290	60	124	0	26000	26.000	White	18	18
## 1291	65	140	0	17000	17.000	White	12	12
## 1292	63	150	0	22000	22.000	Other	18	18
## 1293	64	145	0	10000	10.000	White	12	12
## 1294	71	165	1	50000	50.000	White	14	14
## 1295	67	162	1	20000	20.000	White	12	12
## 1296	63	145	0	5000	5.000	White	12	NA
## 1297	67	150	0	0	0.000	White	13	13
## 1298	63	160	0	400	0.400	White	12	12
## 1299	72	160	1	30000	30.000	White	12	NA
## 1300	65	125	0	16000	16.000	White	14	14
## 1301	66	112	0	62000	62.000	White	14	14
## 1302	66	160	0	10000	10.000	White	12	NA
## 1303	63	115	0	14000	14.000	White	13	13
## 1304	65	112	0	5000	5.000	White	15	15
## 1305	74	210	1	40000	40.000	White	16	16
## 1306	67	170	0	5000	5.000	White	13	13
## 1307	68	185	0	25000	25.000	White	17	17
## 1308	65	150	0	12000	12.000	White	12	12
## 1309	64	137	0	58000	58.000	White	16	16
## 1310	68	128	0	18000	18.000	White	16	16
## 1311	65	147	1	1000	1.000	White	12	12
## 1312	72	265	1	21000	21.000	White	17	17
## 1313	66	158	1	11000	11.000	Black	12	12
## 1314	69	220	1	15000	15.000	White	7	7
## 1315	64	130	0	13000	13.000	White	12	12
## 1316	64	140	0	0	0.000	White	12	12
## 1317	60	110	0	20000	20.000	Other	16	16
## 1318	72	220	1	25000	25.000	Black	12	12
## 1319	70	205	1	5000	5.000	Hispanic	8	8
## 1320	64	130	0	600	0.600	White	12	12
## 1321	67	190	1	25000	25.000	Black	14	14

## 1322	69	178	1	15000	15.000	White	12	NA
## 1323	68	140	1	36000	36.000	White	12	12
## 1324	64	175	0	15000	15.000	Other	13	NA
## 1325	64	142	0	35000	35.000	White	14	14
## 1326	66	185	0	3500	3.500	White	12	12
## 1327	65	120	0	19005	19.005	White	16	16
## 1328	70	170	1	62000	62.000	White	14	14
## 1329	69	195	1	62000	62.000	White	16	16
## 1330	70	135	1	25000	25.000	White	12	12
## 1331	66	180	1	50000	50.000	White	12	NA
## 1332	64	180	0	0	0.000	White	12	12
## 1333	66	160	0	0	0.000	White	13	13
## 1334	66	140	1	40000	40.000	White	12	12
## 1335	74	190	1	26000	26.000	White	18	18
## 1336	66	132	0	5000	5.000	White	12	NA
## 1337	62	120	0	22000	22.000	White	12	12
## 1338	66	164	0	21000	21.000	White	17	17
## 1339	62	198	0	6108	6.108	White	12	12
## 1340	65	145	0	30000	30.000	Black	18	18
## 1341	66	165	0	15000	15.000	White	11	NA
## 1342	64	160	0	15000	15.000	White	12	12
## 1343	63	129	0	6000	6.000	White	12	12
## 1344	66	150	0	15000	15.000	White	8	NA
## 1345	71	173	1	27000	27.000	White	16	16
## 1346	64	150	0	5000	5.000	Hispanic	10	10
## 1347	66	160	0	4000	4.000	White	16	16
## 1348	62	165	0	4416	4.416	Other	6	NA
## 1349	66	144	0	5000	5.000	White	12	12
## 1350	64	225	0	5000	5.000	Black	9	NA
## 1351	67	NA	0	30000	30.000	White	16	16
## 1352	62	130	0	0	0.000	White	12	12
## 1353	63	125	0	5000	5.000	White	10	NA
## 1354	65	153	0	0	0.000	White	9	9
## 1355	67	175	1	45000	45.000	White	18	18
## 1356	61	130	0	18000	18.000	White	14	14
## 1357	66	125	0	6000	6.000	White	15	15
## 1358	61	155	0	0	0.000	White	12	12
## 1359	72	200	1	14000	14.000	White	12	12
## 1360	69	125	0	35000	35.000	White	14	14
## 1361	64	120	0	15000	15.000	White	16	16
## 1362	63	126	0	12000	12.000	Black	12	12
## 1363	60	175	0	1000	1.000	White	12	NA
## 1364	70	195	1	32000	32.000	Black	15	15
## 1365	66	155	0	15000	15.000	White	15	15
## 1366	69	210	1	62000	62.000	White	17	17
## 1367	72	140	1	5000	5.000	White	12	12
## 1368	73	185	1	1500	1.500	White	12	12
## 1369	64	130	0	30000	30.000	White	12	12
## 1370	66	138	0	5000	5.000	White	13	13
## 1371	65	150	0	3000	3.000	Black	16	16
## 1372	71	165	1	35000	35.000	White	15	15
## 1373	64	135	0	35000	35.000	White	12	12
## 1374	63	114	0	0	0.000	White	12	12
## 1375	63	132	0	0	0.000	White	16	16

## 1376	72	175	1	70000	70.000	White	15	15
## 1377	67	140	0	21000	21.000	White	16	16
## 1378	69	145	1	50000	50.000	White	11	11
## 1379	71	175	1	15000	15.000	White	9	9
## 1380	68	132	1	0	0.000	Hispanic	10	NA
## 1381	64	140	0	15000	15.000	White	12	NA
## 1382	73	172	1	0	0.000	Black	12	12
## 1383	62	142	0	5000	5.000	Black	9	NA
## 1384	66	150	0	9000	9.000	Black	8	8
## 1385	68	190	1	25000	25.000	White	12	12
## 1386	64	185	0	15000	15.000	Black	14	14
## 1387	63	140	0	10000	10.000	Black	14	14
## 1388	65	125	0	0	0.000	White	12	12
## 1389	66	140	0	5000	5.000	Black	18	18
## 1390	64	126	1	87000	87.000	White	12	12
## 1391	71	175	1	30000	30.000	White	12	12
## 1392	72	185	1	16000	16.000	White	14	NA
## 1393	68	135	1	20000	20.000	White	12	12
## 1394	64	142	0	0	0.000	White	12	12
## 1395	72	185	1	100000	100.000	White	17	17
## 1396	72	240	1	62000	62.000	White	12	12
## 1397	66	133	0	10000	10.000	White	12	12
## 1398	72	147	0	62000	62.000	White	18	18
## 1399	66	200	1	35000	35.000	White	14	14
## 1400	65	135	0	7000	7.000	White	16	16
## 1401	65	230	0	0	0.000	White	12	12
## 1402	66	165	0	0	0.000	White	12	12
## 1403	65	230	0	0	0.000	White	11	11
## 1404	71	180	1	8000	8.000	Black	14	14
## 1405	74	270	1	11000	11.000	White	10	10
## 1406	70	217	1	25000	25.000	White	9	9
## 1407	64	130	0	25000	25.000	White	14	14
## 1408	69	175	1	30000	30.000	White	14	14
## 1409	63	120	0	15000	15.000	White	12	12
## 1410	66	130	1	0	0.000	White	12	12
## 1411	63	105	0	48000	48.000	White	18	18
## 1412	68	145	0	17000	17.000	White	12	12
## 1413	66	180	1	15000	15.000	White	12	NA
## 1414	78	200	1	25000	25.000	White	12	NA
## 1415	71	111	0	0	0.000	White	8	NA
## 1416	73	167	1	26000	26.000	White	16	16
## 1417	69	165	1	25000	25.000	White	12	12
## 1418	63	185	0	10000	10.000	White	12	12
## 1419	62	130	0	25000	25.000	White	18	18
## 1420	65	125	0	0	0.000	White	11	11
## 1421	71	180	1	60000	60.000	White	18	18
## 1422	65	115	0	22000	22.000	White	18	18
## 1423	62	129	0	5000	5.000	White	12	12
## 1424	70	180	1	15000	15.000	White	12	12
## 1425	64	145	0	5000	5.000	White	12	12
## 1426	72	215	1	15000	15.000	White	16	16
## 1427	64	145	0	6200	6.200	White	13	13
## 1428	65	132	0	24000	24.000	White	16	16
## 1429	71	143	1	20000	20.000	White	14	14

## 1430	70	150	0	7000	7.000	White	14	14
## 1431	73	155	1	0	0.000	Black	12	12
## 1432	67	115	0	5000	5.000	White	15	15
## 1433	62	121	0	15000	15.000	White	12	NA
## 1434	68	275	0	30000	30.000	Black	16	16
## 1435	66	130	0	23000	23.000	White	18	18
## 1436	64	130	0	20000	20.000	White	12	12
## 1437	66	170	0	3000	3.000	White	16	16
## 1438	63	135	0	0	0.000	White	12	12
## 1439	70	140	1	30000	30.000	White	16	16
## 1440	64	130	0	12000	12.000	White	14	14
## 1441	66	150	0	35000	35.000	White	5	NA
## 1442	66	126	0	0	0.000	White	7	7
## 1443	63	140	0	0	0.000	White	10	NA
## 1444	71	190	1	40000	40.000	White	12	12
## 1445	64	150	0	15000	15.000	White	14	14
## 1446	63	153	0	36000	36.000	White	16	16
## 1447	66	145	0	10000	10.000	White	12	12
## 1448	63	225	0	0	0.000	White	11	NA
## 1449	68	120	0	13000	13.000	White	14	14
## 1450	65	265	0	0	0.000	White	12	12
## 1451	61	120	0	0	0.000	White	14	14
## 1452	62	128	0	10000	10.000	Black	12	12
## 1453	69	175	1	30000	30.000	Hispanic	12	12
## 1454	69	170	1	5000	5.000	White	11	11
## 1455	65	140	0	25000	25.000	White	12	12
## 1456	64	150	1	23000	23.000	White	13	13
## 1457	70	180	1	20000	20.000	White	17	17
## 1458	65	130	0	19000	19.000	White	13	13
## 1459	68	149	0	62000	62.000	White	16	16
## 1460	61	132	1	20000	20.000	Black	11	11
## 1461	64	180	1	28000	28.000	Black	14	14
## 1462	65	119	0	13000	13.000	White	10	10
## 1463	64	185	1	12000	12.000	White	12	12
## 1464	63	135	0	25000	25.000	White	18	18
## 1465	69	140	1	20000	20.000	White	11	11
## 1466	66	185	0	15000	15.000	White	14	14
## 1467	61	123	0	15000	15.000	White	8	8
## 1468	74	190	1	25000	25.000	White	12	12
## 1469	68	165	0	25000	25.000	White	13	13
## 1470	68	155	0	0	0.000	White	12	12
## 1471	65	205	0	0	0.000	White	14	14
## 1472	67	132	0	18000	18.000	White	16	16
## 1473	65	115	0	0	0.000	White	12	12
## 1474	64	120	0	0	0.000	White	18	18
## 1475	62	170	0	6000	6.000	White	10	10
## 1476	72	160	1	16000	16.000	White	13	13
## 1477	73	175	1	45000	45.000	White	16	16
## 1478	60	115	0	15000	15.000	White	12	12
## 1479	70	172	1	25000	25.000	White	14	14
## 1480	64	145	0	12000	12.000	White	14	14
## 1481	68	160	0	2000	2.000	White	12	12
## 1482	63	110	0	10000	10.000	White	12	12
## 1483	71	185	1	14000	14.000	White	12	12

## 1484	64	200	0	15000	15.000	White	12	12
## 1485	67	200	0	0	0.000	White	11	11
## 1486	60	140	0	10000	10.000	White	12	NA
## 1487	64	180	0	5000	5.000	White	10	NA
## 1488	66	157	0	1200	1.200	White	4	NA
## 1489	64	155	0	25000	25.000	White	12	NA
## 1490	59	113	0	15000	15.000	White	14	14
## 1491	63	150	0	10000	10.000	White	13	13
## 1492	66	140	1	2000	2.000	White	12	12
## 1493	66	125	0	0	0.000	White	12	12
## 1494	65	NA	0	4000	4.000	White	13	13
## 1495	70	140	1	5000	5.000	White	8	NA
## 1496	64	145	0	10000	10.000	White	14	14
## 1497	61	NA	0	5000	5.000	White	13	13
## 1498	66	123	0	15000	15.000	White	12	NA
## 1499	61	96	0	5000	5.000	Hispanic	16	16
## 1500	66	108	0	1500	1.500	White	12	12
## 1501	66	145	1	18000	18.000	Hispanic	17	17
## 1502	73	175	1	4000	4.000	White	15	15
## 1503	72	150	1	28000	28.000	White	16	16
## 1504	74	180	0	10000	10.000	White	14	14
## 1505	65	118	0	3000	3.000	White	16	16
## 1506	64	110	0	0	0.000	White	14	14
## 1507	62	125	0	25000	25.000	White	18	18
## 1508	71	240	1	12000	12.000	White	12	12
## 1509	62	147	0	15000	15.000	White	12	12
## 1510	68	158	0	19000	19.000	White	13	13
## 1511	61	235	0	0	0.000	White	12	12
## 1512	70	184	1	36000	36.000	White	16	16
## 1513	64	180	0	7000	7.000	White	16	16
## 1514	59	85	0	35000	35.000	White	11	11
## 1515	68	168	1	40000	40.000	White	18	18
## 1516	68	130	1	15000	15.000	White	14	14
## 1517	69	130	0	8000	8.000	White	13	13
## 1518	69	190	0	25000	25.000	White	14	14
## 1519	72	185	1	20000	20.000	White	12	12
## 1520	75	214	1	28000	28.000	White	18	18
## 1521	69	180	1	22000	22.000	White	14	14
## 1522	71	150	1	15000	15.000	White	14	14
## 1523	72	210	1	21500	21.500	Black	13	13
## 1524	68	160	0	3000	3.000	White	12	12
## 1525	64	110	0	25000	25.000	Other	12	12
## 1526	72	190	1	23000	23.000	White	13	13
## 1527	66	165	0	15000	15.000	White	18	18
## 1528	72	197	1	18000	18.000	White	12	12
## 1529	67	128	1	5000	5.000	Hispanic	8	NA
## 1530	67	156	1	20000	20.000	White	16	16
## 1531	66	150	0	62000	62.000	White	14	14
## 1532	72	164	1	62000	62.000	White	14	14
## 1533	64	120	0	5000	5.000	White	13	13
## 1534	63	110	0	16000	16.000	Hispanic	12	12
## 1535	69	181	1	15000	15.000	White	12	12
## 1536	63	118	0	53000	53.000	Hispanic	17	17
## 1537	70	200	1	15000	15.000	Hispanic	17	17

## 1538	72	162	1	26000	26.000	White	12	NA
## 1539	70	145	0	20000	20.000	White	12	12
## 1540	65	110	0	4000	4.000	Other	12	12
## 1541	73	200	1	10000	10.000	White	16	16
## 1542	75	220	1	25000	25.000	White	12	12
## 1543	69	230	1	43000	43.000	White	12	12
## 1544	69	180	1	17000	17.000	Other	14	14
## 1545	61	230	0	4000	4.000	Hispanic	12	12
## 1546	71	185	1	87000	87.000	White	18	18
## 1547	72	175	1	30000	30.000	Hispanic	13	13
## 1548	65	135	0	25000	25.000	White	16	16
## 1549	73	195	1	50000	50.000	White	15	15
## 1550	64	123	0	25000	25.000	White	18	18
## 1551	67	137	0	55000	55.000	White	18	18
## 1552	63	145	0	28000	28.000	White	16	16
## 1553	66	160	0	0	0.000	White	12	12
## 1554	72	150	1	15000	15.000	White	7	NA
## 1555	64	135	0	5000	5.000	White	12	12
## 1556	62	200	0	5000	5.000	White	14	14
## 1557	65	130	0	18000	18.000	White	13	13
## 1558	72	175	1	21000	21.000	Hispanic	15	NA
## 1559	59	180	0	15000	15.000	Hispanic	9	NA
## 1560	67	115	0	12000	12.000	White	12	12
## 1561	65	164	0	33000	33.000	Hispanic	16	16
## 1562	64	140	0	15000	15.000	White	16	NA
## 1563	72	175	1	50000	50.000	Hispanic	13	13
## 1564	65	231	0	6000	6.000	Hispanic	9	9
## 1565	64	140	0	16000	16.000	White	14	14
## 1566	68	150	1	35000	35.000	White	12	12
## 1567	68	260	0	25000	25.000	White	12	12
## 1568	66	155	0	35000	35.000	White	17	17
## 1569	76	210	1	20000	20.000	White	14	NA
## 1570	63	118	0	18000	18.000	White	12	12
## 1571	74	225	1	34000	34.000	White	14	14
## 1572	68	155	1	25000	25.000	White	16	16
## 1573	61	110	0	15000	15.000	White	14	14
## 1574	64	140	0	20000	20.000	White	16	16
## 1575	72	200	1	20000	20.000	White	17	17
## 1576	68	170	1	33000	33.000	White	12	12
## 1577	71	150	1	20000	20.000	White	12	NA
## 1578	63	126	0	15000	15.000	White	12	12
## 1579	65	158	0	4000	4.000	White	12	12
## 1580	60	130	0	20000	20.000	White	8	NA
## 1581	72	200	1	40000	40.000	White	16	16
## 1582	64	132	0	14000	14.000	White	14	14
## 1583	68	170	0	12000	12.000	White	12	12
## 1584	61	105	0	25000	25.000	White	12	12
## 1585	63	136	0	10000	10.000	White	17	NA
## 1586	67	138	0	70000	70.000	White	10	NA
## 1587	67	140	0	38000	38.000	White	17	17
## 1588	63	125	0	14000	14.000	White	12	12
## 1589	71	164	1	62000	62.000	White	18	NA
## 1590	63	108	0	0	0.000	White	15	15
## 1591	60	100	0	15000	15.000	White	13	13

## 1592	74	215	1	17000	17.000	White	16	16
## 1593	66	125	0	25000	25.000	White	15	15
## 1594	69	158	1	60000	60.000	White	14	14
## 1595	67	180	0	15000	15.000	White	15	NA
## 1596	65	145	1	25000	25.000	White	16	16
## 1597	62	131	1	18000	18.000	Hispanic	12	12
## 1598	65	145	1	0	0.000	White	12	12
## 1599	64	140	0	45000	45.000	White	17	17
## 1600	72	175	1	70000	70.000	White	18	18
## 1601	66	NA	0	0	0.000	Hispanic	11	11
## 1602	65	130	0	30000	30.000	White	18	NA
## 1603	67	167	0	100000	100.000	White	15	15
## 1604	62	145	0	8000	8.000	White	12	12
## 1605	71	185	1	30000	30.000	White	16	16
## 1606	62	115	0	0	0.000	White	11	11
## 1607	71	192	1	27000	27.000	White	14	14
## 1608	70	270	1	47000	47.000	White	18	18
## 1609	67	135	1	12000	12.000	Hispanic	12	12
## 1610	72	190	1	35000	35.000	White	16	16
## 1611	62	130	0	24000	24.000	White	17	17
## 1612	63	165	0	13000	13.000	Hispanic	12	12
## 1613	61	102	0	80000	80.000	White	14	14
## 1614	72	130	1	5000	5.000	White	12	12
## 1615	65	110	0	0	0.000	White	12	12
## 1616	63	153	0	25000	25.000	White	10	10
## 1617	66	240	1	28000	28.000	White	12	12
## 1618	64	125	0	8000	8.000	White	15	15
## 1619	66	110	0	10000	10.000	White	13	13
## 1620	68	155	0	9000	9.000	White	14	14
## 1621	60	150	0	20000	20.000	White	12	12
## 1622	65	200	1	12000	12.000	White	12	NA
## 1623	65	130	0	15000	15.000	White	14	14
## 1624	61	110	0	20000	20.000	White	14	14
## 1625	68	200	0	15000	15.000	White	16	16
## 1626	64	134	0	28000	28.000	White	14	14
## 1627	66	140	0	265	0.265	White	15	15
## 1628	69	157	1	35000	35.000	White	14	14
## 1629	67	NA	0	25000	25.000	White	12	12
## 1630	66	165	0	26000	26.000	Hispanic	14	14
## 1631	67	118	0	27000	27.000	White	17	17
## 1632	68	180	0	14000	14.000	White	12	12
## 1633	66	140	1	32000	32.000	White	16	16
## 1634	69	112	0	10000	10.000	White	14	14
## 1635	72	135	1	15000	15.000	White	12	12
## 1636	69	190	1	7000	7.000	White	16	16
## 1637	71	182	1	28000	28.000	White	17	17
## 1638	74	250	1	60000	60.000	White	13	13
## 1639	60	130	0	25000	25.000	White	14	14
## 1640	69	170	1	12000	12.000	White	4	4
## 1641	65	NA	0	0	0.000	White	13	13
## 1642	65	NA	0	0	0.000	White	12	12
## 1643	75	200	0	15000	15.000	White	13	13
## 1644	65	125	0	40000	40.000	White	14	14
## 1645	63	110	0	25000	25.000	White	16	16

## 1646	72	135	1	15000	15.000	White	6	NA
## 1647	60	112	0	35000	35.000	White	12	12
## 1648	72	225	1	15000	15.000	White	11	NA
## 1649	64	120	0	26000	26.000	White	15	15
## 1650	59	100	0	0	0.000	Black	12	12
## 1651	71	170	1	0	0.000	Other	12	12
## 1652	72	165	1	26000	26.000	Hispanic	16	16
## 1653	63	108	0	18720	18.720	Black	10	10
## 1654	68	155	0	0	0.000	Black	12	12
## 1655	62	148	0	5000	5.000	Other	11	NA
## 1656	64	152	0	12000	12.000	Black	12	NA
## 1657	70	210	1	80000	80.000	White	17	17
## 1658	66	120	0	48000	48.000	White	13	13
## 1659	63	125	0	5000	5.000	White	18	18
## 1660	62	135	1	18000	18.000	Other	16	16
## 1661	70	150	1	85000	85.000	White	15	15
## 1662	64	175	0	35000	35.000	Black	12	12
## 1663	69	150	1	5000	5.000	White	16	16
## 1664	64	140	0	9000	9.000	Hispanic	13	13
## 1665	67	125	0	30000	30.000	White	16	16
## 1666	72	250	1	80000	80.000	White	14	14
## 1667	65	124	0	35000	35.000	White	16	16
## 1668	63	210	0	12000	12.000	White	14	14
## 1669	70	190	1	200000	200.000	White	18	18
## 1670	64	128	0	4000	4.000	White	16	16
## 1671	68	165	1	2000	2.000	White	12	12
## 1672	66	190	0	24000	24.000	White	18	18
## 1673	66	165	1	2000	2.000	Hispanic	15	15
## 1674	70	185	1	15000	15.000	White	17	17
## 1675	70	225	1	15000	15.000	White	12	12
## 1676	62	150	0	6000	6.000	White	12	12
## 1677	66	150	1	5000	5.000	White	12	12
## 1678	66	130	0	1500	1.500	Hispanic	12	NA
## 1679	64	130	0	28000	28.000	White	18	18
## 1680	70	150	0	9000	9.000	White	12	12
## 1681	74	175	1	60000	60.000	White	14	14
## 1682	66	150	1	1200	1.200	White	12	12
## 1683	62	185	0	1400	1.400	Hispanic	3	3
## 1684	68	160	0	15000	15.000	White	16	16
## 1685	66	180	0	7000	7.000	White	13	13
## 1686	70	190	1	25000	25.000	White	12	NA
## 1687	62	130	0	21000	21.000	White	12	12
## 1688	69	107	1	44000	44.000	White	12	12
## 1689	68	164	1	29000	29.000	Black	16	16
## 1690	72	165	1	3000	3.000	Hispanic	14	14
## 1691	64	140	1	12000	12.000	Black	13	13
## 1692	64	110	0	0	0.000	Hispanic	16	16
## 1693	60	200	0	0	0.000	Hispanic	9	9
## 1694	72	195	1	20000	20.000	Hispanic	12	12
## 1695	62	146	0	1200	1.200	Black	5	NA
## 1696	64	104	0	25000	25.000	White	12	12
## 1697	74	215	1	37000	37.000	White	16	16
## 1698	66	150	1	8000	8.000	Other	10	NA
## 1699	68	135	1	35000	35.000	Hispanic	16	16

## 1700	67	145	1	25000	25.000	Hispanic	14	14
## 1701	62	110	1	25000	25.000	Other	14	14
## 1702	71	160	0	18000	18.000	White	10	10
## 1703	63	130	0	30000	30.000	Black	16	16
## 1704	66	133	1	5000	5.000	Other	14	14
## 1705	69	165	1	20000	20.000	White	18	18
## 1706	71	160	1	12000	12.000	Hispanic	6	6
## 1707	64	180	0	0	0.000	Hispanic	12	NA
## 1708	66	125	0	10000	10.000	White	12	12
## 1709	72	195	1	18000	18.000	White	14	NA
## 1710	62	115	0	0	0.000	Hispanic	15	15
## 1711	65	130	0	15000	15.000	Hispanic	12	12
## 1712	72	181	1	20000	20.000	Black	12	NA
## 1713	68	150	0	31000	31.000	White	16	16
## 1714	70	160	1	25000	25.000	Black	12	NA
## 1715	64	150	1	6000	6.000	Hispanic	10	10
## 1716	64	140	0	0	0.000	White	12	12
## 1717	68	182	1	35000	35.000	Black	12	12
## 1718	70	150	1	12000	12.000	White	13	13
## 1719	66	155	0	13000	13.000	White	16	16
## 1720	67	210	0	26000	26.000	White	17	17
## 1721	68	130	0	15000	15.000	Black	11	11
## 1722	64	140	0	30000	30.000	White	17	17
## 1723	65	122	0	2000	2.000	White	14	14
## 1724	70	150	1	5000	5.000	Other	13	13
## 1725	71	150	0	53000	53.000	White	14	14
## 1726	64	127	0	0	0.000	White	12	12
## 1727	62	102	0	2000	2.000	White	13	13
## 1728	71	155	1	25000	25.000	White	17	17
## 1729	74	185	1	5000	5.000	White	12	12
## 1730	64	105	0	21000	21.000	White	13	13
## 1731	64	NA	0	15000	15.000	White	14	14
## 1732	70	130	0	17000	17.000	White	15	15
## 1733	73	155	1	5000	5.000	White	16	16
## 1734	64	135	0	12000	12.000	White	13	13
## 1735	70	230	1	42000	42.000	Hispanic	14	14
## 1736	74	205	1	21000	21.000	White	12	12
## 1737	63	170	0	6000	6.000	Hispanic	12	12
## 1738	59	107	0	0	0.000	Hispanic	12	12
## 1739	74	190	1	25000	25.000	White	14	14
## 1740	66	119	0	3000	3.000	White	14	14
## 1741	65	150	0	3600	3.600	White	15	NA
## 1742	71	155	1	4000	4.000	White	12	12
## 1743	69	160	1	20000	20.000	White	14	NA
## 1744	72	160	1	45000	45.000	White	18	18
## 1745	70	165	1	136500	136.500	White	16	16
## 1746	60	220	1	52000	52.000	White	15	15
## 1747	64	130	0	60000	60.000	White	12	12
## 1748	64	122	0	15000	15.000	White	13	NA
## 1749	72	190	1	90000	90.000	White	16	16
## 1750	63	160	0	35000	35.000	White	12	NA
## 1751	72	156	1	25000	25.000	Hispanic	13	13
## 1752	66	185	1	15000	15.000	White	12	12
## 1753	61	180	0	26000	26.000	White	14	14

## 1754	62	150	0	0	0.000	Hispanic	13	NA
## 1755	69	140	1	2000	2.000	White	12	12
## 1756	67	145	0	16000	16.000	White	12	NA
## 1757	65	130	0	24000	24.000	Hispanic	11	NA
## 1758	68	172	1	15000	15.000	Hispanic	16	16
## 1759	74	170	1	42000	42.000	White	17	17
## 1760	63	150	0	0	0.000	White	15	15
## 1761	65	135	0	10000	10.000	White	12	12
## 1762	71	220	1	17000	17.000	Hispanic	13	13
## 1763	64	NA	0	30000	30.000	White	14	14
## 1764	65	120	0	0	0.000	White	16	16
## 1765	69	160	0	32000	32.000	White	17	17
## 1766	64	135	0	36000	36.000	Hispanic	17	17
## 1767	72	190	1	10000	10.000	Hispanic	13	13
## 1768	63	130	0	20000	20.000	White	15	15
## 1769	65	110	0	24000	24.000	White	12	12
## 1770	72	180	1	17000	17.000	White	12	12
## 1771	65	137	0	23000	23.000	White	14	14
## 1772	64	125	0	25000	25.000	White	12	12
## 1773	71	200	1	50000	50.000	White	12	12
## 1774	63	145	0	0	0.000	White	14	14
## 1775	62	120	0	20000	20.000	White	12	12
## 1776	66	145	0	30000	30.000	White	16	16
## 1777	64	190	0	7000	7.000	White	10	10
## 1778	67	120	1	7000	7.000	White	10	10
## 1779	68	185	1	30000	30.000	White	11	11
## 1780	66	130	0	3000	3.000	White	12	12
## 1781	66	145	0	20000	20.000	White	14	14
## 1782	66	139	0	40000	40.000	White	16	16
## 1783	67	150	1	10000	10.000	White	12	12
## 1784	66	240	1	16000	16.000	White	12	12
## 1785	63	225	0	11000	11.000	White	9	9
## 1786	68	175	0	16000	16.000	White	13	13
## 1787	70	185	1	18000	18.000	White	12	12
## 1788	63	115	0	12000	12.000	White	16	16
## 1789	70	170	1	4000	4.000	Black	14	14
## 1790	72	195	1	60000	60.000	White	12	12
## 1791	75	180	1	43000	43.000	White	17	17
## 1792	62	180	0	31000	31.000	White	14	14
## 1793	68	150	0	50000	50.000	White	17	17
## 1794	68	165	0	27000	27.000	White	14	14
## 1795	70	158	1	30000	30.000	White	17	17
## 1796	73	195	1	12000	12.000	Black	13	NA
## 1797	66	160	1	136500	136.500	White	18	18
## 1798	69	124	0	0	0.000	White	16	16
## 1799	62	140	0	20000	20.000	White	17	17
## 1800	60	120	0	15000	15.000	Black	12	12
## 1801	64	150	0	25000	25.000	Other	16	16
## 1802	68	190	1	5000	5.000	Hispanic	12	12
## 1803	60	125	0	2000	2.000	Hispanic	6	NA
## 1804	60	140	0	5000	5.000	White	14	14
## 1805	73	170	1	3000	3.000	Hispanic	15	15
## 1806	64	138	0	25000	25.000	Black	16	16
## 1807	66	130	0	110000	110.000	Other	18	18

## 1808	69	155	1	55000	55.000	White	18	18
## 1809	70	170	1	58000	58.000	White	18	18
## 1810	70	165	0	10000	10.000	White	16	16
## 1811	72	165	1	19000	19.000	White	12	12
## 1812	61	120	0	15000	15.000	White	18	18
## 1813	64	130	0	8000	8.000	White	12	12
## 1814	72	194	1	60000	60.000	White	12	12
## 1815	63	155	0	15000	15.000	Other	14	14
## 1816	68	150	1	6000	6.000	White	12	12
##	father_education walk exercise smokenow tense angry age							
## 1		16	3		3	2	0	0 45
## 2		16	6		5	1	0	0 58
## 3		16	8		1	2	1	1 29
## 4		NA	8		1	2	0	0 57
## 5		16	5		6	2	0	0 91
## 6		18	1		1	2	2	2 54
## 7		17	3		1	2	4	4 39
## 8		15	7		4	1	4	4 26
## 9		12	2		2	2	0	0 49
## 10		17	7		1	1	0	0 46
## 11		15	8		1	2	0	0 21
## 12		99	1		1	2	0	0 53
## 13		12	1		2	2	1	1 26
## 14		NA	4		1	2	0	0 65
## 15		14	7		4	2	2	2 50
## 16		NA	7		4	2	0	0 34
## 17		12	6		5	2	2	2 27
## 18		18	4		6	2	0	0 51
## 19		12	5		1	2	1	1 51
## 20		11	8		1	1	0	0 45
## 21		12	4		2	1	7	7 27
## 22		12	1		4	1	0	0 41
## 23		16	5		1	2	1	1 35
## 24		16	5		4	2	1	1 29
## 25		14	7		4	2	0	0 22
## 26		12	8		1	2	0	0 58
## 27		14	8		7	2	1	1 29
## 28		13	8		2	2	4	4 44
## 29		9	1		1	1	0	0 21
## 30		12	8		1	2	4	4 55
## 31		13	6		7	2	2	2 35
## 32		NA	3		1	1	7	7 23
## 33		13	2		1	1	0	0 51
## 34		14	5		3	2	0	0 21
## 35		14	8		7	2	1	1 36
## 36		14	6		7	2	0	0 22
## 37		12	4		4	2	0	0 41
## 38		NA	2		1	2	0	0 45
## 39		12	4		1	1	7	7 23
## 40		12	8		3	2	3	3 35
## 41		NA	2		7	1	1	1 21
## 42		16	2		1	1	0	0 60
## 43		NA	8		1	2	2	2 44
## 44		12	1		1	2	0	0 69

## 45	12	8	1	2	0	0	44
## 46	16	5	6	2	1	1	38
## 47	NA	3	1	2	0	0	55
## 48	16	7	7	2	0	0	33
## 49	10	8	1	2	0	0	19
## 50	14	4	1	2	3	3	25
## 51	12	1	5	2	7	7	33
## 52	16	5	1	2	1	1	72
## 53	17	8	5	2	4	4	39
## 54	17	5	2	2	0	0	31
## 55	12	8	1	2	7	7	26
## 56	12	7	3	2	0	0	51
## 57	14	8	1	1	0	0	78
## 58	12	7	2	1	0	0	46
## 59	14	8	6	2	7	7	31
## 60	12	8	1	1	0	0	57
## 61	14	5	1	2	0	0	26
## 62	16	7	2	1	0	0	44
## 63	15	1	1	2	1	1	65
## 64	12	8	7	2	2	2	30
## 65	12	1	7	2	1	1	41
## 66	18	4	5	1	1	1	29
## 67	17	7	2	2	1	1	30
## 68	12	5	1	2	0	0	57
## 69	12	2	1	2	0	0	21
## 70	13	5	6	2	0	0	32
## 71	12	2	1	1	7	7	29
## 72	10	4	7	2	0	0	18
## 73	8	8	1	2	5	5	56
## 74	12	1	1	2	0	0	65
## 75	17	5	5	2	0	0	41
## 76	17	5	5	2	2	2	49
## 77	12	7	4	2	1	1	23
## 78	12	1	1	1	0	0	65
## 79	12	8	7	1	1	1	28
## 80	NA	1	2	1	0	0	32
## 81	13	6	6	2	0	0	18
## 82	16	8	6	2	1	1	22
## 83	14	4	1	2	0	0	55
## 84	12	8	1	2	0	0	57
## 85	16	2	6	2	4	4	29
## 86	8	1	1	1	0	0	63
## 87	18	1	1	2	0	0	60
## 88	14	4	6	2	0	0	27
## 89	13	8	3	2	1	1	30
## 90	12	5	2	2	2	2	33
## 91	NA	4	1	2	3	3	26
## 92	NA	1	1	2	0	0	28
## 93	18	8	2	2	0	0	67
## 94	14	8	7	2	5	5	43
## 95	12	3	7	1	0	0	73
## 96	NA	2	1	2	0	0	68
## 97	NA	5	1	2	0	0	52
## 98	NA	1	1	2	0	0	78

## 99	12	1	6	2	0	0	39
## 100	16	8	1	2	3	3	53
## 101	16	2	5	2	3	3	27
## 102	15	1	1	2	2	2	21
## 103	14	1	1	2	0	0	39
## 104	16	4	5	2	0	0	35
## 105	13	8	7	2	1	1	22
## 106	12	1	3	2	0	0	31
## 107	13	7	1	2	0	0	63
## 108	13	4	1	1	0	0	68
## 109	12	8	6	1	0	0	47
## 110	8	7	1	2	0	0	77
## 111	16	3	6	2	0	0	51
## 112	15	8	1	1	2	2	67
## 113	14	4	1	1	0	0	38
## 114	12	8	2	2	0	0	39
## 115	12	8	6	2	0	0	43
## 116	NA	4	4	2	0	0	73
## 117	8	8	4	1	1	1	39
## 118	12	4	6	2	2	2	32
## 119	12	5	6	2	1	1	33
## 120	12	6	4	2	5	5	38
## 121	13	7	2	1	0	0	26
## 122	13	1	1	2	5	5	63
## 123	10	2	1	2	0	0	61
## 124	12	3	1	2	1	1	36
## 125	14	8	7	2	0	0	23
## 126	18	8	7	2	1	1	57
## 127	NA	1	4	2	0	0	82
## 128	12	3	1	2	4	4	59
## 129	18	8	1	2	0	0	76
## 130	12	7	7	2	2	2	20
## 131	NA	6	4	2	0	0	69
## 132	16	4	5	2	0	0	32
## 133	16	1	4	1	0	0	27
## 134	12	8	6	1	0	0	22
## 135	12	7	7	2	0	0	73
## 136	NA	8	1	2	0	0	63
## 137	NA	8	7	2	0	0	56
## 138	NA	8	7	2	0	0	89
## 139	18	5	2	2	0	0	65
## 140	17	7	1	2	0	0	79
## 141	18	8	1	2	0	0	63
## 142	12	8	1	2	0	0	56
## 143	NA	4	7	2	3	3	21
## 144	12	7	1	1	0	0	66
## 145	NA	4	5	2	5	5	74
## 146	18	8	3	2	1	1	42
## 147	NA	8	1	2	3	3	33
## 148	14	8	1	1	7	7	30
## 149	NA	1	7	2	2	2	23
## 150	13	2	1	2	0	0	43
## 151	12	7	7	2	0	0	30
## 152	12	7	1	2	7	7	37

## 153	12	4	7	2	0	0	22
## 154	17	3	1	2	0	0	43
## 155	11	4	4	2	2	2	37
## 156	17	7	6	2	2	2	44
## 157	14	4	4	1	0	0	43
## 158	12	4	3	1	2	2	29
## 159	16	8	2	2	0	0	32
## 160	16	1	1	2	1	1	91
## 161	16	1	7	2	1	1	30
## 162	12	4	1	2	0	0	58
## 163	NA	8	1	1	0	0	76
## 164	12	8	1	1	3	3	44
## 165	17	8	6	2	5	5	30
## 166	12	7	1	2	2	2	51
## 167	18	7	5	2	1	1	35
## 168	18	4	7	2	2	2	43
## 169	12	5	1	1	7	7	28
## 170	16	8	1	2	0	0	38
## 171	12	4	5	2	2	2	40
## 172	16	1	4	2	1	1	24
## 173	18	4	1	2	1	1	30
## 174	12	8	1	1	0	0	59
## 175	15	8	4	1	0	0	26
## 176	15	4	5	1	2	2	21
## 177	12	7	6	2	0	0	39
## 178	16	5	1	2	2	2	35
## 179	13	8	1	2	7	7	31
## 180	12	7	4	1	3	3	38
## 181	14	5	4	1	2	2	35
## 182	16	8	1	2	0	0	60
## 183	16	8	4	1	0	0	41
## 184	12	8	6	1	0	0	39
## 185	18	4	4	1	0	0	40
## 186	14	4	7	2	2	2	43
## 187	NA	8	7	2	2	2	24
## 188	15	6	1	2	0	0	31
## 189	16	5	1	2	6	6	32
## 190	16	3	1	2	7	7	40
## 191	17	6	3	2	5	5	42
## 192	12	1	1	2	7	7	39
## 193	17	6	1	2	0	0	62
## 194	14	8	6	1	0	0	31
## 195	14	8	1	2	0	0	71
## 196	14	1	6	2	0	0	31
## 197	12	6	4	2	3	3	32
## 198	12	3	3	1	1	1	30
## 199	NA	6	1	2	3	3	69
## 200	13	6	1	2	0	0	56
## 201	14	6	7	2	3	3	36
## 202	17	8	1	2	0	0	32
## 203	13	7	1	2	7	7	44
## 204	14	6	2	2	1	1	44
## 205	NA	7	7	2	0	0	20
## 206	NA	6	1	2	1	1	51

## 207	18	3	2	2	4	4	56
## 208	12	8	1	2	1	1	38
## 209	12	2	5	1	3	3	20
## 210	13	8	3	1	0	0	45
## 211	15	1	1	2	0	0	23
## 212	12	8	4	2	5	5	50
## 213	16	3	4	2	7	7	22
## 214	10	8	7	1	0	0	50
## 215	15	2	1	2	2	2	42
## 216	15	5	7	2	0	0	28
## 217	12	8	1	1	3	3	27
## 218	14	8	6	1	2	2	28
## 219	8	4	1	2	2	2	43
## 220	12	8	7	2	6	6	26
## 221	NA	5	2	1	0	0	42
## 222	NA	1	1	2	0	0	32
## 223	12	6	7	1	5	5	18
## 224	12	8	1	2	0	0	60
## 225	NA	8	2	2	2	2	67
## 226	16	7	3	2	0	0	46
## 227	14	8	3	2	0	0	39
## 228	12	8	1	2	0	0	46
## 229	8	3	1	1	0	0	53
## 230	12	8	1	2	0	0	49
## 231	16	8	1	1	1	1	34
## 232	NA	1	1	2	0	0	35
## 233	13	7	6	2	3	3	38
## 234	NA	8	1	1	6	6	57
## 235	NA	8	1	2	0	0	48
## 236	NA	2	1	2	0	0	88
## 237	14	8	1	2	0	0	64
## 238	NA	4	6	2	0	0	24
## 239	14	4	5	1	0	0	32
## 240	16	8	4	2	4	4	61
## 241	16	4	4	2	2	2	48
## 242	12	8	6	2	0	0	19
## 243	18	8	1	1	0	0	55
## 244	14	8	2	1	0	0	49
## 245	NA	5	1	2	5	5	36
## 246	12	1	1	2	0	0	56
## 247	16	8	6	2	0	0	38
## 248	12	8	1	2	7	7	37
## 249	12	8	7	2	0	0	74
## 250	NA	8	1	2	0	0	72
## 251	12	4	7	1	7	7	49
## 252	16	1	6	2	1	1	46
## 253	NA	4	1	2	3	3	63
## 254	18	8	2	2	0	0	63
## 255	17	7	1	2	3	3	43
## 256	16	5	5	2	0	0	25
## 257	NA	1	1	1	0	0	77
## 258	12	8	2	2	7	7	50
## 259	9	2	1	2	0	0	67
## 260	12	8	1	2	0	0	42

## 261	12	3	1	2	0	0	49
## 262	14	8	6	2	0	0	20
## 263	13	7	7	1	0	0	37
## 264	8	8	7	1	0	0	24
## 265	12	3	1	2	3	3	36
## 266	16	6	4	2	7	7	35
## 267	12	5	1	2	0	0	65
## 268	12	5	1	2	0	0	67
## 269	12	8	1	2	1	1	62
## 270	16	8	1	2	0	0	72
## 271	14	7	1	2	0	0	57
## 272	15	3	7	2	1	1	38
## 273	14	1	7	2	2	2	43
## 274	18	4	1	2	7	7	45
## 275	12	3	1	1	2	2	47
## 276	16	1	1	2	1	1	28
## 277	13	2	2	1	7	7	31
## 278	12	2	1	2	3	3	41
## 279	14	8	7	2	0	0	32
## 280	15	8	1	2	0	0	47
## 281	12	1	1	1	3	3	62
## 282	13	8	4	1	4	4	30
## 283	15	6	6	2	0	0	39
## 284	12	8	5	2	1	1	38
## 285	12	7	6	2	0	0	39
## 286	NA	1	1	1	0	0	68
## 287	12	7	1	1	0	0	50
## 288	18	5	2	2	0	0	50
## 289	NA	8	1	1	0	0	51
## 290	12	8	7	2	0	0	58
## 291	12	7	7	2	4	4	27
## 292	14	4	2	2	0	0	22
## 293	12	6	1	2	3	3	77
## 294	18	7	2	2	3	3	51
## 295	13	5	1	1	5	5	32
## 296	14	4	2	2	0	0	54
## 297	NA	1	1	1	0	0	28
## 298	12	8	4	2	0	0	24
## 299	16	8	4	2	1	1	46
## 300	12	7	1	1	0	0	38
## 301	18	8	4	2	0	0	44
## 302	15	2	1	2	1	1	65
## 303	14	6	6	2	0	0	32
## 304	12	8	1	1	0	0	33
## 305	18	5	2	2	0	0	35
## 306	17	8	5	2	1	1	50
## 307	18	5	4	2	0	0	45
## 308	11	8	5	2	2	2	29
## 309	16	1	7	2	0	0	33
## 310	16	5	6	2	1	1	38
## 311	14	5	7	2	3	3	30
## 312	12	2	3	2	0	0	22
## 313	13	2	1	1	1	1	43
## 314	12	2	1	1	7	7	31

## 315	12	2	2	1	4	4	21
## 316	12	2	1	1	7	7	18
## 317	16	8	1	2	0	0	73
## 318	12	5	6	1	0	0	30
## 319	14	2	1	1	2	2	28
## 320	14	7	6	2	0	0	22
## 321	17	8	6	2	3	3	41
## 322	14	8	1	2	0	0	55
## 323	NA	3	2	2	2	2	39
## 324	14	8	3	2	0	0	51
## 325	15	8	6	2	3	3	41
## 326	NA	7	5	1	0	0	34
## 327	12	8	3	1	5	5	20
## 328	14	3	1	2	0	0	69
## 329	15	8	7	2	0	0	39
## 330	NA	3	7	2	0	0	64
## 331	14	7	7	2	2	2	34
## 332	14	8	7	2	0	0	63
## 333	13	8	2	1	0	0	44
## 334	13	5	7	2	0	0	19
## 335	12	5	6	2	0	0	38
## 336	16	8	1	2	3	3	34
## 337	18	3	1	2	5	5	39
## 338	10	7	1	2	0	0	82
## 339	13	8	1	2	5	5	39
## 340	12	8	6	2	0	0	23
## 341	NA	6	1	1	7	7	32
## 342	12	8	3	2	0	0	28
## 343	12	4	4	2	1	1	41
## 344	11	6	5	1	1	1	54
## 345	11	5	3	2	0	0	29
## 346	NA	1	1	2	0	0	21
## 347	12	8	1	2	1	1	38
## 348	18	5	7	2	0	0	30
## 349	12	1	2	2	1	1	33
## 350	12	8	1	2	0	0	61
## 351	7	1	1	1	0	0	77
## 352	12	8	4	1	2	2	37
## 353	NA	5	1	2	0	0	61
## 354	18	3	3	2	0	0	29
## 355	12	8	1	1	3	3	29
## 356	12	2	7	2	1	1	21
## 357	NA	1	1	1	2	2	48
## 358	8	8	7	2	0	0	78
## 359	NA	5	1	2	2	2	80
## 360	NA	8	1	2	3	3	23
## 361	16	8	1	2	0	0	65
## 362	14	8	7	2	0	0	28
## 363	NA	6	3	1	1	1	33
## 364	17	6	1	1	0	0	24
## 365	12	4	1	2	3	3	29
## 366	NA	7	4	2	1	1	42
## 367	16	7	7	2	2	2	22
## 368	12	1	4	2	7	7	52

## 369	NA	8	3	2	5	5	37
## 370	14	1	4	1	7	7	29
## 371	17	1	1	2	4	4	41
## 372	13	1	1	1	7	7	35
## 373	NA	1	1	1	0	0	48
## 374	14	6	1	2	7	7	37
## 375	14	1	4	1	4	4	40
## 376	15	2	1	2	5	5	26
## 377	16	5	6	2	0	0	47
## 378	12	4	1	2	0	0	75
## 379	12	4	4	2	0	0	49
## 380	NA	7	7	2	7	7	35
## 381	NA	8	6	2	0	0	60
## 382	12	1	1	1	0	0	41
## 383	18	8	1	2	1	1	58
## 384	14	2	1	2	0	0	48
## 385	12	6	1	1	6	6	21
## 386	10	8	1	1	0	0	82
## 387	13	8	1	2	0	0	76
## 388	12	2	1	2	3	3	29
## 389	12	8	6	1	0	0	34
## 390	16	2	6	2	2	2	23
## 391	12	7	5	1	0	0	27
## 392	11	8	7	1	0	0	34
## 393	12	6	1	2	0	0	25
## 394	17	5	5	2	1	1	26
## 395	13	7	7	2	7	7	28
## 396	12	1	1	2	0	0	32
## 397	16	7	6	2	0	0	26
## 398	16	6	4	2	1	1	42
## 399	14	8	1	2	0	0	67
## 400	8	2	7	1	0	0	53
## 401	NA	1	1	2	0	0	77
## 402	16	3	2	2	0	0	53
## 403	12	8	2	1	0	0	38
## 404	17	4	2	2	0	0	49
## 405	18	7	2	2	0	0	54
## 406	18	2	1	2	2	2	41
## 407	12	1	1	1	1	1	63
## 408	10	6	1	2	0	0	48
## 409	12	1	1	2	0	0	37
## 410	5	7	1	2	0	0	58
## 411	14	5	1	2	0	0	45
## 412	12	1	7	2	0	0	24
## 413	12	4	2	2	1	1	38
## 414	16	8	4	2	0	0	41
## 415	17	4	1	2	0	0	26
## 416	14	7	6	2	3	3	28
## 417	16	3	1	2	5	5	39
## 418	18	2	5	2	0	0	50
## 419	16	2	6	2	0	0	29
## 420	13	8	7	2	2	2	32
## 421	13	8	4	2	0	0	44
## 422	NA	3	1	2	2	2	19

## 423	NA	5	1	2	1	1	34
## 424	12	6	6	1	2	2	23
## 425	8	1	7	1	6	6	58
## 426	12	1	2	2	5	5	24
## 427	14	8	5	2	1	1	33
## 428	NA	7	1	2	0	0	55
## 429	13	2	1	2	0	0	30
## 430	12	4	2	2	1	1	18
## 431	15	7	7	2	0	0	36
## 432	12	8	2	2	0	0	68
## 433	NA	6	1	2	0	0	85
## 434	13	6	1	2	0	0	57
## 435	15	4	7	2	0	0	53
## 436	12	8	1	2	7	7	36
## 437	NA	7	7	2	0	0	33
## 438	12	4	1	2	2	2	91
## 439	NA	2	1	2	0	0	60
## 440	12	7	7	2	0	0	39
## 441	12	7	7	2	5	5	35
## 442	12	5	4	2	6	6	33
## 443	18	4	7	2	2	2	47
## 444	13	1	1	2	1	1	36
## 445	16	7	6	2	0	0	35
## 446	12	8	3	2	0	0	61
## 447	12	8	2	2	7	7	42
## 448	16	5	1	2	0	0	32
## 449	12	4	1	1	2	2	31
## 450	12	3	1	1	0	0	39
## 451	16	2	1	1	0	0	44
## 452	12	3	1	2	1	1	31
## 453	NA	6	6	1	0	0	18
## 454	NA	7	6	1	0	0	71
## 455	12	7	1	2	1	1	36
## 456	13	7	1	2	2	2	27
## 457	16	8	1	2	5	5	41
## 458	16	4	2	2	0	0	33
## 459	NA	5	7	2	2	2	27
## 460	NA	5	6	2	5	5	30
## 461	14	1	5	2	0	0	43
## 462	12	8	2	1	7	7	24
## 463	12	3	1	2	2	2	23
## 464	12	8	1	1	1	1	28
## 465	14	4	3	1	0	0	44
## 466	14	7	1	2	0	0	25
## 467	17	2	1	2	0	0	38
## 468	13	1	5	1	0	0	38
## 469	16	7	7	2	0	0	23
## 470	12	7	6	2	2	2	24
## 471	13	5	3	2	2	2	41
## 472	12	8	1	2	0	0	59
## 473	12	4	5	2	0	0	66
## 474	12	8	2	2	2	2	19
## 475	16	4	1	2	1	1	48
## 476	11	8	4	2	0	0	32

## 477	NA	1	3	2	0	0	74
## 478	10	1	1	2	0	0	68
## 479	12	2	4	2	2	2	19
## 480	11	8	7	1	0	0	21
## 481	12	7	1	2	1	1	74
## 482	12	2	1	2	0	0	36
## 483	11	8	7	2	0	0	63
## 484	NA	8	3	2	0	0	29
## 485	18	4	5	2	3	3	26
## 486	12	6	1	2	0	0	45
## 487	NA	8	1	1	0	0	57
## 488	14	8	5	2	0	0	76
## 489	12	6	6	2	2	2	30
## 490	15	4	4	2	4	4	22
## 491	11	8	1	2	2	2	18
## 492	13	7	7	2	0	0	37
## 493	NA	8	4	2	0	0	53
## 494	9	1	1	1	7	7	23
## 495	12	4	4	1	7	7	30
## 496	12	7	7	2	1	1	25
## 497	12	8	7	1	4	4	35
## 498	12	8	1	1	7	7	33
## 499	12	5	1	2	3	3	62
## 500	16	4	1	2	1	1	75
## 501	13	4	6	2	0	0	44
## 502	12	8	7	2	2	2	22
## 503	NA	8	5	2	0	0	68
## 504	18	3	6	2	1	1	40
## 505	14	1	4	1	3	3	30
## 506	16	2	2	2	1	1	36
## 507	13	2	4	1	7	7	27
## 508	12	1	1	2	1	1	22
## 509	12	5	6	2	2	2	20
## 510	NA	7	1	2	0	0	67
## 511	17	5	6	2	0	0	23
## 512	12	2	1	2	0	0	68
## 513	12	1	7	2	0	0	37
## 514	12	8	1	2	2	2	67
## 515	12	1	1	2	0	0	69
## 516	16	3	1	2	2	2	31
## 517	16	8	5	2	2	2	48
## 518	12	3	1	1	1	1	51
## 519	16	5	1	2	1	1	70
## 520	18	7	7	2	3	3	25
## 521	14	6	2	2	0	0	63
## 522	13	4	1	2	0	0	82
## 523	NA	1	1	1	0	0	81
## 524	15	8	1	2	0	0	79
## 525	18	4	1	1	2	2	52
## 526	NA	8	1	2	4	4	41
## 527	12	2	6	1	2	2	42
## 528	16	1	7	2	2	2	30
## 529	16	4	7	2	0	0	28
## 530	12	8	7	2	0	0	72

## 531	12	8	2	1	1	1	33
## 532	16	4	4	2	0	0	54
## 533	18	5	1	1	0	0	57
## 534	NA	1	7	1	0	0	28
## 535	12	5	5	2	2	2	51
## 536	12	3	1	1	0	0	35
## 537	12	4	1	1	4	4	30
## 538	14	8	1	2	2	2	35
## 539	NA	2	1	2	0	0	60
## 540	17	6	1	1	0	0	43
## 541	NA	7	5	2	0	0	74
## 542	13	8	4	1	0	0	29
## 543	8	8	1	2	0	0	76
## 544	12	8	6	2	0	0	52
## 545	NA	5	1	2	2	2	39
## 546	18	1	4	2	0	0	38
## 547	12	2	1	2	0	0	32
## 548	15	8	6	2	1	1	31
## 549	16	8	2	2	7	7	37
## 550	NA	8	1	1	0	0	75
## 551	8	1	1	1	2	2	53
## 552	18	3	6	2	0	0	69
## 553	18	4	1	2	1	1	65
## 554	16	8	1	2	0	0	36
## 555	17	8	6	2	2	2	41
## 556	14	8	2	2	1	1	39
## 557	14	8	2	1	7	7	29
## 558	NA	6	5	1	0	0	37
## 559	12	8	1	2	7	7	34
## 560	18	4	2	1	0	0	36
## 561	12	8	7	1	7	7	25
## 562	16	8	6	1	4	4	27
## 563	8	5	5	1	0	0	20
## 564	12	8	2	1	7	7	25
## 565	10	8	5	2	3	3	38
## 566	NA	1	1	2	0	0	40
## 567	8	1	1	1	3	3	67
## 568	15	2	4	2	3	3	25
## 569	NA	5	1	1	1	1	38
## 570	13	8	5	2	0	0	20
## 571	NA	8	7	2	1	1	19
## 572	16	7	1	2	7	7	32
## 573	12	5	7	1	7	7	23
## 574	17	7	6	2	0	0	34
## 575	16	5	5	1	0	0	41
## 576	13	4	2	2	1	1	26
## 577	16	7	1	2	1	1	40
## 578	12	4	1	2	0	0	69
## 579	NA	5	1	2	0	0	69
## 580	NA	8	1	2	1	1	91
## 581	12	8	1	2	5	5	18
## 582	12	8	7	1	0	0	38
## 583	14	7	2	2	0	0	19
## 584	14	8	7	1	0	0	34

## 585	13	7	1	2	7	7	26
## 586	NA	8	5	2	0	0	77
## 587	16	8	1	2	7	7	30
## 588	NA	8	1	1	7	7	52
## 589	12	8	5	2	0	0	26
## 590	18	5	5	2	0	0	37
## 591	13	8	4	1	2	2	37
## 592	NA	8	7	2	0	0	32
## 593	NA	5	6	2	0	0	55
## 594	13	4	4	2	0	0	78
## 595	14	8	5	2	0	0	78
## 596	12	7	5	2	7	7	32
## 597	12	8	7	1	1	1	23
## 598	12	5	1	1	7	7	29
## 599	12	8	4	1	0	0	36
## 600	18	4	7	1	1	1	46
## 601	NA	8	1	2	0	0	51
## 602	12	3	2	1	7	7	35
## 603	12	2	1	1	0	0	46
## 604	12	1	6	2	6	6	27
## 605	15	8	5	1	7	7	33
## 606	12	8	1	2	0	0	66
## 607	16	8	1	2	0	0	73
## 608	17	5	5	2	3	3	40
## 609	15	3	4	2	0	0	32
## 610	16	1	1	1	0	0	65
## 611	NA	1	6	2	0	0	54
## 612	12	8	1	2	0	0	71
## 613	15	4	4	2	4	4	39
## 614	14	1	1	2	0	0	72
## 615	12	8	1	2	0	0	74
## 616	NA	1	1	2	0	0	72
## 617	10	3	1	1	0	0	71
## 618	NA	5	4	1	0	0	28
## 619	14	5	5	2	0	0	31
## 620	15	1	1	2	2	2	32
## 621	NA	1	2	2	0	0	43
## 622	15	7	1	1	7	7	73
## 623	12	4	7	2	1	1	45
## 624	12	8	6	2	0	0	32
## 625	13	6	3	1	5	5	39
## 626	18	7	3	2	1	1	46
## 627	15	7	7	2	0	0	21
## 628	NA	8	2	2	0	0	75
## 629	14	7	1	1	1	1	41
## 630	12	8	5	2	5	5	30
## 631	NA	5	1	2	0	0	46
## 632	NA	2	2	1	2	2	42
## 633	14	4	3	1	2	2	49
## 634	NA	1	1	2	3	3	71
## 635	11	1	1	2	0	0	48
## 636	12	8	1	1	3	3	23
## 637	13	5	1	2	0	0	27
## 638	14	4	4	2	0	0	36

## 639	12	8	5	2	0	0	37
## 640	NA	8	4	1	0	0	47
## 641	NA	8	2	2	3	3	29
## 642	18	8	7	2	0	0	34
## 643	12	6	2	1	3	3	25
## 644	16	1	3	2	0	0	26
## 645	16	8	3	2	0	0	33
## 646	16	8	5	2	0	0	23
## 647	18	3	1	2	0	0	50
## 648	13	5	1	2	0	0	47
## 649	15	8	2	2	7	7	40
## 650	17	8	6	2	0	0	84
## 651	18	8	5	2	5	5	39
## 652	16	7	5	2	0	0	30
## 653	16	8	1	2	2	2	41
## 654	14	8	4	2	2	2	28
## 655	16	8	7	2	0	0	26
## 656	14	8	6	2	0	0	20
## 657	12	4	1	1	7	7	28
## 658	12	5	1	2	0	0	60
## 659	8	1	1	1	0	0	48
## 660	16	4	2	2	2	2	28
## 661	NA	8	1	2	0	0	56
## 662	NA	2	6	2	2	2	55
## 663	12	8	6	2	0	0	58
## 664	16	7	7	2	3	3	40
## 665	16	5	1	2	0	0	44
## 666	13	6	7	2	0	0	42
## 667	14	4	2	2	0	0	53
## 668	12	8	1	2	0	0	28
## 669	NA	8	1	2	0	0	40
## 670	12	6	2	2	0	0	37
## 671	12	8	1	2	1	1	20
## 672	12	2	1	2	0	0	56
## 673	14	1	1	2	0	0	31
## 674	13	7	6	2	0	0	34
## 675	NA	1	1	2	7	7	41
## 676	13	4	1	2	0	0	31
## 677	NA	8	1	2	1	1	59
## 678	12	4	4	1	4	4	32
## 679	14	8	5	2	2	2	41
## 680	NA	7	1	2	0	0	56
## 681	12	4	1	2	0	0	73
## 682	9	8	2	2	1	1	46
## 683	NA	4	1	1	1	1	58
## 684	NA	4	1	2	0	0	44
## 685	12	4	1	1	0	0	57
## 686	16	8	1	2	0	0	51
## 687	12	7	7	2	1	1	44
## 688	18	6	5	2	1	1	29
## 689	17	8	1	1	1	1	44
## 690	12	1	7	1	0	0	22
## 691	9	3	6	2	0	0	18
## 692	10	1	1	1	0	0	20

## 693	11	4	1	2	0	0	64
## 694	NA	8	1	2	1	1	71
## 695	15	8	5	1	3	3	49
## 696	11	8	1	2	0	0	51
## 697	NA	7	6	2	0	0	23
## 698	12	8	1	2	0	0	82
## 699	NA	8	1	1	7	7	48
## 700	12	2	2	2	3	3	42
## 701	NA	2	1	2	4	4	41
## 702	16	7	2	2	1	1	49
## 703	11	1	1	2	3	3	18
## 704	15	8	7	2	0	0	20
## 705	12	7	6	2	3	3	18
## 706	NA	8	1	2	0	0	51
## 707	18	8	1	2	0	0	35
## 708	18	5	7	2	5	5	36
## 709	NA	8	1	2	0	0	59
## 710	NA	1	5	1	7	7	24
## 711	8	4	1	1	1	1	36
## 712	NA	8	5	1	3	3	38
## 713	13	7	1	1	1	1	67
## 714	NA	8	6	1	0	0	37
## 715	18	7	7	1	0	0	69
## 716	8	4	1	2	0	0	44
## 717	13	7	1	2	1	1	40
## 718	9	8	1	2	0	0	50
## 719	12	5	5	2	3	3	25
## 720	16	1	4	1	0	0	31
## 721	16	8	7	2	4	4	25
## 722	16	1	7	2	6	6	36
## 723	14	3	2	2	4	4	27
## 724	12	4	2	1	0	0	30
## 725	12	1	2	1	2	2	21
## 726	14	4	5	2	5	5	37
## 727	12	4	7	2	5	5	28
## 728	14	1	1	2	2	2	40
## 729	16	3	7	2	1	1	23
## 730	NA	8	4	2	0	0	55
## 731	12	6	3	1	7	7	41
## 732	12	8	5	2	1	1	44
## 733	NA	8	1	2	0	0	70
## 734	NA	2	1	2	7	7	32
## 735	17	8	1	2	0	0	63
## 736	16	8	4	2	0	0	31
## 737	12	8	1	2	0	0	69
## 738	17	6	5	2	4	4	43
## 739	14	4	6	1	1	1	34
## 740	NA	5	1	2	0	0	72
## 741	12	6	5	2	0	0	33
## 742	10	8	3	1	7	7	24
## 743	NA	8	1	2	0	0	33
## 744	NA	5	1	1	1	1	53
## 745	15	7	7	1	1	1	42
## 746	12	1	1	2	7	7	24

## 747	16	8	6	2	0	0	32
## 748	12	4	4	2	0	0	45
## 749	17	6	1	2	7	7	38
## 750	13	5	7	1	0	0	57
## 751	NA	8	1	1	0	0	64
## 752	14	2	1	1	0	0	37
## 753	16	8	4	2	2	2	37
## 754	14	7	6	2	4	4	29
## 755	13	8	4	2	2	2	19
## 756	11	8	1	2	4	4	18
## 757	12	5	2	2	0	0	64
## 758	16	8	1	2	0	0	41
## 759	NA	8	1	1	3	3	36
## 760	12	7	4	2	1	1	57
## 761	NA	8	1	2	0	0	68
## 762	12	1	1	2	1	1	33
## 763	12	6	7	2	2	2	78
## 764	14	5	4	2	3	3	43
## 765	16	4	1	2	3	3	34
## 766	12	1	3	1	0	0	24
## 767	12	2	2	2	6	6	29
## 768	16	4	5	2	0	0	27
## 769	12	2	1	2	0	0	34
## 770	NA	8	7	2	2	2	20
## 771	11	4	1	2	1	1	57
## 772	9	7	4	2	1	1	25
## 773	18	7	1	2	0	0	65
## 774	12	8	2	1	3	3	35
## 775	14	8	6	2	0	0	61
## 776	12	8	7	1	0	0	55
## 777	12	2	2	1	4	4	38
## 778	NA	8	1	1	2	2	35
## 779	18	1	1	2	0	0	35
## 780	NA	2	1	2	0	0	71
## 781	18	6	7	1	4	4	31
## 782	12	8	7	1	0	0	40
## 783	12	8	1	2	0	0	67
## 784	12	2	2	1	0	0	19
## 785	18	7	7	2	0	0	30
## 786	13	1	1	1	7	7	31
## 787	16	6	2	2	6	6	29
## 788	12	8	6	2	0	0	26
## 789	12	8	1	2	1	1	34
## 790	13	7	2	2	2	2	33
## 791	12	3	6	1	1	1	27
## 792	12	2	1	1	1	1	29
## 793	16	2	6	2	7	7	32
## 794	14	2	7	1	1	1	25
## 795	10	8	6	1	6	6	21
## 796	14	4	6	2	1	1	21
## 797	14	7	4	2	1	1	21
## 798	16	4	1	1	1	1	40
## 799	12	8	1	2	2	2	42
## 800	13	5	6	2	2	2	37

## 801	16	7	6	2	0	0	31
## 802	14	7	2	2	1	1	24
## 803	12	8	4	2	0	0	22
## 804	10	8	1	1	0	0	74
## 805	12	5	4	1	7	7	33
## 806	13	4	2	2	1	1	31
## 807	NA	4	2	2	1	1	36
## 808	NA	8	5	2	0	0	62
## 809	16	8	2	2	5	5	19
## 810	11	3	2	1	7	7	23
## 811	NA	4	6	1	1	1	18
## 812	16	8	5	2	2	2	27
## 813	13	7	5	1	0	0	22
## 814	12	7	4	2	0	0	57
## 815	12	2	1	1	0	0	26
## 816	12	2	2	2	0	0	34
## 817	12	1	1	1	0	0	35
## 818	NA	1	1	2	3	3	80
## 819	12	7	1	1	7	7	34
## 820	14	8	7	2	2	2	38
## 821	14	4	1	2	0	0	34
## 822	NA	5	2	2	1	1	59
## 823	NA	8	1	2	0	0	78
## 824	14	7	1	2	1	1	32
## 825	12	8	1	1	0	0	19
## 826	12	2	5	1	0	0	29
## 827	14	5	5	2	0	0	54
## 828	12	8	6	1	1	1	26
## 829	12	4	1	2	7	7	62
## 830	13	8	5	1	0	0	33
## 831	NA	3	1	2	0	0	81
## 832	14	7	5	1	0	0	52
## 833	16	2	2	1	3	3	30
## 834	NA	8	1	2	0	0	67
## 835	12	5	4	2	2	2	32
## 836	11	1	1	1	0	0	47
## 837	NA	7	1	1	0	0	41
## 838	16	4	2	1	2	2	47
## 839	14	6	1	2	1	1	55
## 840	5	8	1	2	7	7	62
## 841	18	7	6	2	0	0	42
## 842	16	5	1	2	0	0	34
## 843	12	8	1	1	0	0	61
## 844	17	8	1	1	0	0	33
## 845	16	4	6	2	0	0	28
## 846	16	5	3	2	0	0	24
## 847	15	2	6	2	0	0	30
## 848	12	8	1	1	0	0	49
## 849	12	8	4	2	1	1	23
## 850	11	8	6	2	0	0	21
## 851	NA	7	2	1	0	0	28
## 852	12	8	6	2	0	0	29
## 853	NA	3	3	2	0	0	30
## 854	15	1	6	2	0	0	46

## 855	14	7	5	1	0	0	37
## 856	12	4	1	2	5	5	21
## 857	16	1	1	1	1	1	37
## 858	NA	4	1	2	0	0	58
## 859	12	4	5	2	2	2	27
## 860	14	8	6	2	7	7	36
## 861	12	6	1	1	3	3	51
## 862	12	1	3	2	1	1	37
## 863	12	2	1	2	0	0	63
## 864	NA	1	1	2	0	0	77
## 865	NA	7	3	2	7	7	30
## 866	NA	1	1	2	3	3	45
## 867	16	8	6	2	2	2	23
## 868	12	2	2	1	1	1	49
## 869	12	2	1	1	1	1	27
## 870	18	8	7	2	1	1	40
## 871	NA	1	1	1	0	0	61
## 872	12	1	1	1	0	0	51
## 873	14	1	1	2	7	7	56
## 874	12	2	1	1	3	3	26
## 875	18	1	7	2	0	0	25
## 876	NA	7	1	2	0	0	78
## 877	16	8	5	2	0	0	84
## 878	16	7	7	2	1	1	45
## 879	NA	8	1	1	0	0	61
## 880	13	6	4	2	0	0	20
## 881	17	8	2	2	0	0	42
## 882	14	8	1	2	3	3	69
## 883	18	8	1	2	0	0	38
## 884	18	5	6	1	0	0	43
## 885	12	8	1	1	0	0	33
## 886	16	1	1	2	1	1	54
## 887	18	8	6	2	0	0	33
## 888	15	8	1	2	0	0	40
## 889	17	4	2	1	0	0	62
## 890	NA	8	1	2	0	0	65
## 891	12	8	6	1	7	7	31
## 892	13	7	1	2	4	4	37
## 893	NA	4	1	2	3	3	39
## 894	15	8	1	2	0	0	38
## 895	12	4	1	1	7	7	26
## 896	11	7	6	1	1	1	78
## 897	NA	1	1	1	0	0	51
## 898	18	8	6	2	4	4	39
## 899	15	8	7	2	3	3	42
## 900	17	5	1	2	0	0	33
## 901	17	5	5	2	1	1	29
## 902	14	8	1	2	1	1	78
## 903	16	4	4	1	1	1	41
## 904	16	5	2	2	0	0	43
## 905	NA	7	1	2	2	2	23
## 906	14	8	1	1	0	0	37
## 907	12	7	5	2	0	0	42
## 908	NA	6	1	1	0	0	35

## 909	12	7	2	2	0	0	34
## 910	16	6	1	2	0	0	83
## 911	14	1	7	2	0	0	28
## 912	12	8	1	1	0	0	51
## 913	17	8	3	2	4	4	43
## 914	12	2	1	1	6	6	40
## 915	12	4	2	2	3	3	30
## 916	14	8	6	1	0	0	25
## 917	NA	3	1	2	0	0	62
## 918	NA	1	1	2	4	4	67
## 919	16	2	1	2	0	0	33
## 920	12	1	1	2	7	7	19
## 921	NA	8	1	1	0	0	64
## 922	16	8	1	2	0	0	43
## 923	NA	4	1	1	3	3	41
## 924	18	2	1	2	1	1	61
## 925	14	2	1	2	0	0	73
## 926	12	4	1	1	2	2	38
## 927	17	2	2	2	0	0	25
## 928	17	8	7	2	0	0	22
## 929	16	7	6	2	1	1	21
## 930	14	8	2	2	0	0	30
## 931	13	7	1	2	0	0	20
## 932	16	6	6	2	0	0	26
## 933	14	8	7	2	0	0	20
## 934	18	2	1	2	0	0	37
## 935	15	1	1	1	2	2	40
## 936	12	6	5	2	1	1	42
## 937	12	8	1	1	0	0	58
## 938	12	4	2	1	4	4	20
## 939	14	4	1	1	7	7	23
## 940	12	8	1	2	0	0	74
## 941	NA	1	1	2	0	0	35
## 942	NA	8	1	1	0	0	66
## 943	8	4	1	1	3	3	52
## 944	17	7	2	2	0	0	39
## 945	12	1	1	2	0	0	34
## 946	12	4	1	2	0	0	41
## 947	12	2	6	2	2	2	24
## 948	NA	7	1	2	2	2	19
## 949	12	8	6	2	3	3	31
## 950	12	7	1	1	0	0	36
## 951	10	8	1	2	0	0	64
## 952	14	4	1	2	0	0	32
## 953	12	5	3	2	1	1	60
## 954	NA	8	1	2	0	0	63
## 955	12	8	5	2	3	3	43
## 956	NA	5	1	1	1	1	47
## 957	12	6	1	2	2	2	45
## 958	12	5	1	2	1	1	32
## 959	12	8	1	1	0	0	50
## 960	15	4	1	2	0	0	54
## 961	15	8	7	2	1	1	24
## 962	13	4	1	2	0	0	38

## 963	NA	2	1	2	0	0	71
## 964	14	5	5	2	1	1	24
## 965	12	7	1	2	2	2	38
## 966	12	6	1	2	2	2	60
## 967	16	1	1	1	0	0	34
## 968	11	7	5	1	0	0	31
## 969	8	1	1	2	0	0	57
## 970	14	8	5	2	1	1	20
## 971	17	2	2	2	1	1	41
## 972	16	5	4	1	0	0	52
## 973	18	8	1	2	0	0	39
## 974	17	5	7	2	7	7	25
## 975	12	1	7	1	1	1	22
## 976	12	8	6	2	1	1	27
## 977	18	8	7	2	0	0	30
## 978	17	8	7	2	0	0	26
## 979	12	8	1	1	0	0	44
## 980	12	1	1	2	0	0	58
## 981	13	5	2	1	0	0	31
## 982	NA	6	5	1	0	0	41
## 983	16	1	1	2	0	0	30
## 984	12	8	1	2	0	0	66
## 985	13	6	7	2	2	2	54
## 986	14	2	3	1	0	0	18
## 987	12	7	7	2	1	1	31
## 988	15	7	1	2	1	1	57
## 989	6	5	1	2	0	0	75
## 990	16	1	6	2	0	0	26
## 991	16	1	1	1	0	0	62
## 992	NA	7	2	2	3	3	33
## 993	12	8	1	1	0	0	64
## 994	8	8	4	2	2	2	22
## 995	12	6	1	1	0	0	49
## 996	14	8	6	2	1	1	27
## 997	12	8	1	2	0	0	57
## 998	NA	1	1	2	0	0	39
## 999	12	1	5	2	7	7	28
## 1000	12	1	2	2	0	0	46
## 1001	NA	2	2	2	2	2	45
## 1002	12	6	1	2	3	3	69
## 1003	NA	8	1	2	0	0	76
## 1004	NA	7	7	1	7	7	53
## 1005	14	2	4	2	0	0	35
## 1006	18	7	2	2	3	3	52
## 1007	17	7	1	1	0	0	61
## 1008	NA	4	1	2	0	0	53
## 1009	12	1	2	1	7	7	40
## 1010	NA	8	1	2	0	0	70
## 1011	16	7	1	2	0	0	73
## 1012	12	8	1	2	5	5	41
## 1013	16	4	6	2	0	0	42
## 1014	NA	1	7	2	1	1	22
## 1015	15	2	1	2	7	7	35
## 1016	16	2	2	1	0	0	25

## 1017	18	7	5	2	0	0	44
## 1018	12	4	5	2	3	3	19
## 1019	11	8	1	1	0	0	25
## 1020	16	8	6	2	0	0	56
## 1021	12	8	6	1	4	4	27
## 1022	NA	8	1	1	4	4	62
## 1023	17	7	4	2	0	0	54
## 1024	12	8	7	2	0	0	18
## 1025	NA	8	1	2	4	4	73
## 1026	12	8	2	1	1	1	31
## 1027	16	6	2	1	0	0	23
## 1028	NA	8	1	2	0	0	63
## 1029	NA	4	1	2	0	0	70
## 1030	13	7	6	2	0	0	42
## 1031	16	8	4	1	4	4	23
## 1032	16	7	5	2	0	0	63
## 1033	12	8	7	2	0	0	19
## 1034	12	2	2	2	0	0	20
## 1035	12	1	1	2	7	7	28
## 1036	12	2	1	1	1	1	32
## 1037	15	1	1	2	0	0	66
## 1038	12	8	5	2	0	0	67
## 1039	13	8	6	2	0	0	28
## 1040	NA	8	1	2	0	0	58
## 1041	16	7	5	2	0	0	41
## 1042	14	6	5	2	2	2	35
## 1043	16	8	2	2	1	1	39
## 1044	13	8	1	2	2	2	65
## 1045	15	8	2	1	0	0	60
## 1046	12	8	1	2	1	1	45
## 1047	16	8	4	2	0	0	62
## 1048	NA	8	1	2	7	7	64
## 1049	NA	8	6	1	7	7	29
## 1050	16	5	2	1	0	0	30
## 1051	NA	1	1	2	0	0	76
## 1052	12	1	1	2	0	0	82
## 1053	NA	2	7	2	0	0	28
## 1054	9	8	1	1	0	0	40
## 1055	14	7	3	1	0	0	38
## 1056	NA	8	1	1	0	0	58
## 1057	8	1	4	2	0	0	27
## 1058	17	1	1	2	3	3	26
## 1059	13	5	4	2	0	0	56
## 1060	12	8	2	2	1	1	38
## 1061	12	8	1	2	0	0	77
## 1062	13	8	4	2	0	0	32
## 1063	12	7	7	2	1	1	24
## 1064	7	7	1	2	1	1	49
## 1065	12	2	2	2	2	2	24
## 1066	14	6	3	2	1	1	22
## 1067	12	6	7	2	0	0	18
## 1068	12	6	4	2	2	2	18
## 1069	12	1	1	1	0	0	21
## 1070	12	2	1	1	3	3	40

## 1071	12	8	2	2	3	3	42
## 1072	6	8	1	2	0	0	61
## 1073	NA	1	4	2	0	0	63
## 1074	12	7	1	2	0	0	81
## 1075	NA	4	1	2	0	0	53
## 1076	12	5	2	2	0	0	33
## 1077	12	5	4	1	2	2	21
## 1078	12	3	3	2	3	3	91
## 1079	16	3	5	2	0	0	26
## 1080	11	8	7	2	2	2	34
## 1081	14	3	5	2	0	0	24
## 1082	NA	4	5	2	0	0	30
## 1083	14	8	1	2	4	4	21
## 1084	12	1	1	1	4	4	21
## 1085	12	6	1	2	7	7	46
## 1086	12	3	1	2	1	1	46
## 1087	18	8	1	2	0	0	42
## 1088	14	8	6	2	2	2	47
## 1089	16	8	5	2	2	2	41
## 1090	15	7	4	2	1	1	40
## 1091	12	6	3	2	0	0	40
## 1092	12	8	1	2	0	0	71
## 1093	12	5	3	1	3	3	25
## 1094	13	1	7	1	0	0	78
## 1095	14	3	1	2	4	4	26
## 1096	NA	8	1	2	0	0	66
## 1097	NA	1	1	2	1	1	73
## 1098	13	8	1	2	0	0	76
## 1099	13	8	1	1	0	0	33
## 1100	9	7	1	2	0	0	84
## 1101	10	6	1	1	0	0	58
## 1102	12	8	6	2	0	0	52
## 1103	12	7	4	1	0	0	43
## 1104	NA	8	1	1	0	0	57
## 1105	NA	2	1	2	0	0	46
## 1106	NA	1	1	1	0	0	61
## 1107	16	7	2	2	0	0	29
## 1108	12	4	1	2	5	5	33
## 1109	12	2	4	2	2	2	32
## 1110	16	6	5	2	0	0	30
## 1111	12	8	5	2	3	3	31
## 1112	NA	8	1	2	7	7	45
## 1113	10	4	1	2	0	0	75
## 1114	12	8	4	2	1	1	37
## 1115	NA	8	7	2	0	0	60
## 1116	NA	1	1	2	0	0	83
## 1117	NA	8	1	2	0	0	65
## 1118	12	8	1	2	7	7	28
## 1119	15	3	4	1	2	2	37
## 1120	8	5	1	2	0	0	33
## 1121	12	6	1	2	0	0	59
## 1122	13	7	1	2	0	0	61
## 1123	12	5	4	2	3	3	32
## 1124	12	1	1	2	0	0	36

## 1125	13	1	1	2	0	0	71
## 1126	13	1	2	2	0	0	36
## 1127	14	8	1	2	0	0	46
## 1128	12	8	6	2	0	0	29
## 1129	12	2	1	2	0	0	77
## 1130	12	7	2	2	0	0	47
## 1131	13	7	6	2	0	0	24
## 1132	17	4	2	2	0	0	25
## 1133	13	2	5	2	4	4	39
## 1134	12	4	1	2	0	0	52
## 1135	17	2	1	2	2	2	36
## 1136	14	8	4	2	0	0	26
## 1137	12	3	1	1	3	3	28
## 1138	14	8	3	2	0	0	58
## 1139	9	8	1	2	4	4	45
## 1140	NA	1	1	1	1	1	54
## 1141	8	7	1	1	0	0	56
## 1142	NA	3	1	2	0	0	25
## 1143	6	5	1	2	0	0	62
## 1144	12	1	1	2	2	2	18
## 1145	NA	7	1	2	0	0	69
## 1146	14	7	5	2	2	2	22
## 1147	15	1	1	2	0	0	27
## 1148	12	5	1	2	0	0	30
## 1149	18	3	1	2	0	0	45
## 1150	12	2	1	2	4	4	25
## 1151	12	8	2	2	2	2	48
## 1152	12	1	1	2	7	7	26
## 1153	16	7	5	1	0	0	57
## 1154	12	8	3	1	0	0	22
## 1155	NA	2	6	2	0	0	24
## 1156	12	7	1	2	0	0	33
## 1157	16	4	4	2	0	0	25
## 1158	16	8	5	1	2	2	27
## 1159	12	2	1	2	1	1	27
## 1160	12	1	1	2	0	0	52
## 1161	12	2	1	2	3	3	49
## 1162	9	8	1	2	0	0	46
## 1163	16	5	1	2	1	1	36
## 1164	14	8	1	2	2	2	61
## 1165	12	7	1	2	7	7	21
## 1166	12	1	1	2	0	0	25
## 1167	16	8	6	1	0	0	34
## 1168	NA	6	1	1	NA	NA	47
## 1169	8	4	1	2	2	2	66
## 1170	12	8	1	1	2	2	35
## 1171	12	8	7	2	1	1	25
## 1172	18	5	2	2	0	0	36
## 1173	13	1	1	1	0	0	61
## 1174	NA	2	6	1	2	2	35
## 1175	12	4	5	1	0	0	30
## 1176	12	5	1	2	1	1	26
## 1177	NA	4	1	2	0	0	49
## 1178	NA	8	7	1	0	0	44

## 1179	11	5	1	2	0	0	51
## 1180	12	8	1	1	7	7	29
## 1181	14	8	7	2	0	0	34
## 1182	14	2	1	2	3	3	31
## 1183	12	3	1	2	7	7	36
## 1184	16	7	7	2	0	0	40
## 1185	15	1	2	2	7	7	42
## 1186	13	8	7	1	7	7	30
## 1187	NA	7	4	1	2	2	42
## 1188	13	7	1	1	0	0	50
## 1189	12	8	1	2	0	0	75
## 1190	12	4	7	2	1	1	46
## 1191	9	2	2	2	0	0	25
## 1192	9	8	3	2	7	7	23
## 1193	13	6	6	2	0	0	20
## 1194	16	7	1	2	0	0	63
## 1195	13	7	5	1	1	1	19
## 1196	15	1	1	1	0	0	45
## 1197	12	1	1	2	0	0	76
## 1198	NA	8	3	2	2	2	36
## 1199	16	7	6	1	0	0	69
## 1200	17	8	1	2	0	0	33
## 1201	14	7	5	2	0	0	21
## 1202	14	4	5	2	1	1	40
## 1203	14	4	5	2	1	1	19
## 1204	14	4	5	2	1	1	42
## 1205	16	7	7	2	0	0	34
## 1206	14	8	1	2	0	0	24
## 1207	13	4	1	2	0	0	23
## 1208	NA	6	1	2	0	0	55
## 1209	16	6	2	2	4	4	45
## 1210	18	7	6	2	0	0	47
## 1211	14	3	2	2	0	0	21
## 1212	14	4	1	1	1	1	54
## 1213	18	4	2	2	1	1	37
## 1214	12	4	3	1	3	3	40
## 1215	14	7	1	2	0	0	75
## 1216	12	8	7	2	1	1	29
## 1217	17	8	7	2	1	1	40
## 1218	18	8	1	2	0	0	61
## 1219	12	2	1	2	0	0	38
## 1220	12	6	1	2	0	0	22
## 1221	12	6	6	2	0	0	59
## 1222	12	8	7	1	0	0	59
## 1223	18	2	4	2	0	0	46
## 1224	9	1	1	2	0	0	62
## 1225	12	3	2	2	2	2	31
## 1226	12	8	2	2	0	0	46
## 1227	14	8	1	2	6	6	35
## 1228	13	1	1	2	0	0	60
## 1229	12	1	1	2	0	0	21
## 1230	13	1	4	2	7	7	28
## 1231	NA	1	1	2	0	0	90
## 1232	12	2	2	2	3	3	29

## 1233	NA	6	1	1	0	0	59
## 1234	12	8	1	2	4	4	46
## 1235	12	5	1	2	6	6	78
## 1236	12	8	1	2	0	0	75
## 1237	12	1	1	2	0	0	18
## 1238	12	3	1	2	0	0	65
## 1239	12	8	1	2	1	1	22
## 1240	14	8	5	2	1	1	43
## 1241	12	6	1	1	1	1	31
## 1242	12	7	2	2	0	0	31
## 1243	15	7	1	2	0	0	83
## 1244	12	6	3	2	2	2	39
## 1245	NA	4	2	1	0	0	38
## 1246	14	8	4	1	2	2	33
## 1247	NA	8	1	2	0	0	82
## 1248	9	8	1	1	2	2	63
## 1249	NA	1	1	2	0	0	82
## 1250	NA	8	1	1	0	0	73
## 1251	12	4	2	2	1	1	42
## 1252	16	7	5	2	2	2	43
## 1253	NA	4	1	2	7	7	46
## 1254	18	4	2	2	0	0	44
## 1255	12	7	1	1	5	5	40
## 1256	12	8	1	2	0	0	58
## 1257	12	8	7	2	1	1	51
## 1258	15	1	5	2	0	0	39
## 1259	17	6	1	2	2	2	55
## 1260	16	3	2	2	1	1	30
## 1261	12	1	1	2	0	0	81
## 1262	NA	8	2	1	0	0	31
## 1263	12	6	5	2	0	0	28
## 1264	11	4	2	2	0	0	50
## 1265	14	8	4	2	1	1	37
## 1266	NA	1	1	2	0	0	85
## 1267	14	3	7	2	0	0	27
## 1268	12	8	1	2	0	0	47
## 1269	15	8	2	2	0	0	34
## 1270	14	7	7	2	0	0	24
## 1271	12	8	1	1	0	0	51
## 1272	12	7	1	2	0	0	59
## 1273	NA	8	1	2	0	0	56
## 1274	16	8	1	2	0	0	62
## 1275	13	8	1	2	0	0	44
## 1276	13	6	7	2	7	7	22
## 1277	13	7	1	2	1	1	46
## 1278	12	8	1	2	0	0	54
## 1279	12	8	7	2	0	0	18
## 1280	12	5	6	2	7	7	32
## 1281	14	2	2	2	0	0	26
## 1282	12	8	5	2	3	3	40
## 1283	14	7	1	2	0	0	40
## 1284	18	1	1	2	0	0	41
## 1285	16	4	1	2	0	0	42
## 1286	12	1	1	2	0	0	62

## 1287	NA	1	1	1	1	1	35
## 1288	12	8	5	2	0	0	19
## 1289	8	5	1	2	0	0	83
## 1290	18	6	5	2	0	0	63
## 1291	12	8	3	2	0	0	59
## 1292	18	8	1	2	0	0	59
## 1293	NA	8	1	2	0	0	41
## 1294	14	8	7	2	0	0	58
## 1295	12	6	1	2	0	0	35
## 1296	NA	3	1	2	0	0	67
## 1297	13	1	7	2	0	0	59
## 1298	12	4	5	1	3	3	31
## 1299	NA	7	1	1	0	0	67
## 1300	14	5	1	2	1	1	59
## 1301	14	6	2	2	1	1	43
## 1302	NA	3	1	2	0	0	66
## 1303	13	4	6	2	0	0	58
## 1304	15	3	2	2	5	5	20
## 1305	16	5	4	2	0	0	34
## 1306	13	8	1	1	2	2	55
## 1307	17	1	1	1	0	0	47
## 1308	12	2	1	2	1	1	51
## 1309	16	4	7	2	5	5	34
## 1310	16	4	2	2	1	1	26
## 1311	12	7	5	2	0	0	18
## 1312	17	6	7	2	1	1	47
## 1313	12	6	4	1	0	0	62
## 1314	7	6	1	2	0	0	77
## 1315	12	3	1	2	4	4	36
## 1316	12	8	1	1	0	0	53
## 1317	16	6	1	2	0	0	88
## 1318	12	5	7	1	1	1	35
## 1319	8	7	1	1	0	0	74
## 1320	12	5	1	2	0	0	43
## 1321	14	2	4	2	1	1	26
## 1322	12	8	1	1	1	1	91
## 1323	12	2	2	1	0	0	28
## 1324	13	1	1	2	0	0	33
## 1325	14	8	5	2	3	3	36
## 1326	12	8	1	2	0	0	51
## 1327	16	1	7	1	1	1	34
## 1328	14	1	6	2	0	0	54
## 1329	16	7	1	2	0	0	35
## 1330	12	8	2	2	1	1	42
## 1331	NA	8	1	2	0	0	52
## 1332	12	1	1	1	1	1	28
## 1333	13	5	1	2	0	0	26
## 1334	12	8	6	1	0	0	61
## 1335	18	2	4	2	1	1	26
## 1336	12	8	1	2	0	0	72
## 1337	12	2	2	1	0	0	48
## 1338	17	8	1	2	1	1	39
## 1339	12	1	1	2	0	0	65
## 1340	18	8	4	1	3	3	64

## 1341	11	8	1	2	3	3	68
## 1342	12	2	2	2	0	0	79
## 1343	12	1	1	2	0	0	78
## 1344	NA	6	1	2	0	0	75
## 1345	16	7	1	2	2	2	29
## 1346	NA	2	1	2	0	0	26
## 1347	16	7	1	2	7	7	42
## 1348	NA	5	1	2	2	2	72
## 1349	12	3	1	1	0	0	39
## 1350	NA	3	1	1	7	7	62
## 1351	16	8	1	1	0	0	33
## 1352	12	8	6	2	0	0	76
## 1353	NA	8	1	2	0	0	87
## 1354	9	1	1	2	0	0	75
## 1355	18	1	7	2	0	0	40
## 1356	14	5	1	2	3	3	45
## 1357	15	8	6	2	0	0	22
## 1358	NA	7	1	2	1	1	49
## 1359	12	4	4	2	0	0	24
## 1360	14	1	1	2	7	7	24
## 1361	16	8	6	1	0	0	29
## 1362	12	6	3	2	2	2	29
## 1363	NA	5	7	2	7	7	47
## 1364	15	2	2	2	1	1	33
## 1365	15	8	3	1	0	0	25
## 1366	17	8	7	2	4	4	36
## 1367	12	5	6	2	0	0	20
## 1368	12	8	6	2	1	1	19
## 1369	12	8	6	2	0	0	18
## 1370	13	8	1	1	0	0	19
## 1371	16	3	1	2	0	0	23
## 1372	15	8	2	2	0	0	42
## 1373	12	7	5	2	7	7	42
## 1374	12	4	4	2	0	0	45
## 1375	16	7	6	2	7	7	29
## 1376	15	4	1	1	0	0	48
## 1377	16	4	7	2	4	4	28
## 1378	11	2	5	2	1	1	18
## 1379	9	8	7	1	3	3	21
## 1380	NA	2	2	1	5	5	18
## 1381	NA	1	1	1	0	0	30
## 1382	12	5	7	2	2	2	20
## 1383	NA	8	1	2	7	7	63
## 1384	8	2	1	2	0	0	35
## 1385	12	1	1	1	0	0	37
## 1386	14	6	1	2	0	0	63
## 1387	14	8	5	2	1	1	25
## 1388	12	6	1	1	1	1	60
## 1389	18	6	6	2	1	1	43
## 1390	12	8	1	2	1	1	81
## 1391	12	4	1	2	0	0	47
## 1392	14	5	7	2	0	0	21
## 1393	12	8	2	1	0	0	51
## 1394	12	2	1	2	0	0	45

## 1395	17	5	1	2	0	0	54
## 1396	12	6	1	2	1	1	69
## 1397	12	6	1	2	0	0	43
## 1398	18	1	1	2	0	0	35
## 1399	14	7	2	2	0	0	63
## 1400	16	8	4	2	2	2	31
## 1401	12	1	1	2	1	1	62
## 1402	12	1	1	2	0	0	52
## 1403	NA	2	4	2	7	7	38
## 1404	NA	1	6	2	0	0	27
## 1405	10	5	1	1	0	0	50
## 1406	NA	8	7	2	1	1	47
## 1407	14	4	1	1	0	0	45
## 1408	14	1	1	2	1	1	48
## 1409	12	1	1	2	7	7	29
## 1410	12	6	5	2	3	3	26
## 1411	18	4	7	1	0	0	34
## 1412	NA	2	1	2	0	0	46
## 1413	NA	4	1	2	0	0	69
## 1414	NA	4	2	1	0	0	64
## 1415	NA	8	1	2	0	0	70
## 1416	16	8	7	2	0	0	24
## 1417	12	8	1	2	0	0	32
## 1418	12	7	2	2	1	1	61
## 1419	18	6	1	1	0	0	50
## 1420	11	7	1	2	0	0	57
## 1421	18	8	5	2	0	0	53
## 1422	18	7	5	2	0	0	29
## 1423	12	5	6	2	0	0	20
## 1424	12	8	1	2	1	1	77
## 1425	12	3	7	2	0	0	64
## 1426	16	8	1	1	7	7	44
## 1427	13	5	1	2	0	0	83
## 1428	16	2	2	1	7	7	32
## 1429	14	8	7	2	2	2	40
## 1430	14	6	1	2	0	0	30
## 1431	12	1	6	2	1	1	19
## 1432	15	4	1	2	1	1	29
## 1433	NA	7	6	1	0	0	60
## 1434	16	8	1	2	3	3	48
## 1435	18	8	7	2	3	3	28
## 1436	12	2	1	2	0	0	40
## 1437	16	8	6	2	1	1	29
## 1438	12	4	7	2	5	5	31
## 1439	16	2	4	2	0	0	41
## 1440	14	8	5	2	1	1	23
## 1441	NA	1	1	2	7	7	73
## 1442	7	8	1	2	4	4	41
## 1443	NA	2	1	1	4	4	37
## 1444	12	8	4	2	0	0	38
## 1445	14	4	1	2	5	5	23
## 1446	NA	4	1	2	7	7	45
## 1447	12	1	1	1	0	0	53
## 1448	NA	4	1	2	0	0	65

## 1449	14	7	1	2	0	0	48
## 1450	NA	1	1	1	7	7	59
## 1451	14	6	5	2	2	2	41
## 1452	NA	2	1	2	6	6	27
## 1453	12	4	4	2	0	0	37
## 1454	11	5	5	2	1	1	18
## 1455	12	3	5	2	2	2	33
## 1456	13	8	1	1	0	0	32
## 1457	17	8	4	2	0	0	68
## 1458	13	2	1	2	1	1	82
## 1459	16	6	7	2	1	1	60
## 1460	11	7	7	2	0	0	66
## 1461	14	5	7	2	0	0	63
## 1462	NA	8	1	2	7	7	80
## 1463	12	8	1	2	0	0	75
## 1464	18	1	1	2	6	6	36
## 1465	11	8	1	2	0	0	23
## 1466	14	8	1	2	0	0	62
## 1467	8	4	1	2	0	0	78
## 1468	12	8	5	1	0	0	30
## 1469	13	5	6	2	0	0	52
## 1470	12	2	7	2	1	1	34
## 1471	14	4	1	2	2	2	41
## 1472	16	7	5	2	7	7	40
## 1473	12	8	7	1	7	7	18
## 1474	18	4	1	2	0	0	46
## 1475	10	4	1	2	1	1	68
## 1476	13	8	6	2	7	7	23
## 1477	16	4	1	1	0	0	38
## 1478	12	5	7	2	2	2	30
## 1479	14	6	1	2	1	1	69
## 1480	14	5	2	2	5	5	38
## 1481	12	2	5	2	0	0	18
## 1482	12	4	6	2	0	0	18
## 1483	12	8	1	2	7	7	36
## 1484	12	8	1	2	0	0	31
## 1485	11	8	7	2	0	0	37
## 1486	12	2	1	2	0	0	39
## 1487	NA	1	1	2	0	0	70
## 1488	4	3	1	1	4	4	64
## 1489	NA	8	1	2	0	0	74
## 1490	14	1	2	2	0	0	62
## 1491	13	8	1	2	1	1	64
## 1492	12	8	7	2	7	7	18
## 1493	12	3	2	1	7	7	35
## 1494	13	3	1	1	2	2	33
## 1495	NA	8	1	1	0	0	58
## 1496	14	3	2	2	3	3	32
## 1497	13	8	3	1	1	1	22
## 1498	NA	6	1	1	0	0	28
## 1499	16	7	6	2	0	0	22
## 1500	12	8	1	2	1	1	23
## 1501	17	8	7	2	0	0	26
## 1502	15	5	5	2	0	0	24

## 1503	16	7	5	2	0	0	26
## 1504	14	8	6	2	0	0	22
## 1505	16	8	5	2	1	1	22
## 1506	NA	5	5	2	3	3	31
## 1507	18	8	1	2	1	1	68
## 1508	12	3	3	2	1	1	21
## 1509	12	2	1	2	0	0	77
## 1510	13	8	1	1	0	0	45
## 1511	12	2	1	1	2	2	33
## 1512	16	2	1	1	1	1	39
## 1513	16	5	6	2	0	0	59
## 1514	11	8	4	1	0	0	34
## 1515	18	7	1	2	0	0	43
## 1516	14	3	1	1	0	0	25
## 1517	13	2	1	1	0	0	43
## 1518	14	8	1	2	0	0	55
## 1519	12	1	7	2	0	0	23
## 1520	18	7	6	2	0	0	38
## 1521	14	1	4	2	7	7	35
## 1522	14	1	5	2	0	0	31
## 1523	13	7	7	2	7	7	24
## 1524	12	8	2	1	4	4	23
## 1525	NA	8	1	2	2	2	22
## 1526	NA	7	4	2	7	7	28
## 1527	18	8	4	2	0	0	41
## 1528	12	8	1	2	0	0	73
## 1529	8	8	7	1	0	0	20
## 1530	16	8	5	2	0	0	71
## 1531	14	8	1	2	1	1	59
## 1532	14	7	7	2	0	0	72
## 1533	NA	8	1	2	0	0	69
## 1534	12	7	1	2	7	7	46
## 1535	12	7	4	1	3	3	26
## 1536	17	4	6	1	0	0	32
## 1537	17	8	1	2	0	0	56
## 1538	12	1	7	2	7	7	27
## 1539	12	3	3	1	0	0	33
## 1540	12	7	6	1	1	1	28
## 1541	16	8	7	2	1	1	59
## 1542	12	8	3	1	0	0	33
## 1543	12	2	1	2	0	0	51
## 1544	14	4	4	1	0	0	33
## 1545	12	5	5	2	3	3	38
## 1546	18	4	4	2	0	0	55
## 1547	13	8	7	2	5	5	23
## 1548	16	6	5	2	7	7	32
## 1549	15	8	2	2	7	7	48
## 1550	18	8	5	1	0	0	56
## 1551	18	8	7	2	3	3	51
## 1552	16	4	5	2	5	5	41
## 1553	12	8	4	2	0	0	48
## 1554	NA	8	1	1	0	0	69
## 1555	12	1	4	2	0	0	32
## 1556	14	1	1	2	2	2	48

## 1557	13	5	1	2	1	1	49
## 1558	NA	8	7	2	0	0	62
## 1559	9	6	2	1	4	4	44
## 1560	NA	8	1	1	1	1	33
## 1561	16	1	1	2	0	0	62
## 1562	NA	1	1	2	0	0	81
## 1563	13	8	1	1	2	2	64
## 1564	NA	4	1	2	0	0	74
## 1565	14	5	6	2	2	2	59
## 1566	12	4	6	1	2	2	50
## 1567	NA	8	1	2	7	7	43
## 1568	17	8	2	2	1	1	41
## 1569	14	8	5	2	0	0	26
## 1570	12	7	5	2	3	3	36
## 1571	14	3	6	2	0	0	78
## 1572	16	7	7	2	0	0	25
## 1573	14	1	5	1	0	0	65
## 1574	16	2	1	1	0	0	54
## 1575	17	8	1	2	0	0	77
## 1576	12	7	7	2	0	0	69
## 1577	NA	4	1	2	0	0	66
## 1578	12	8	1	2	0	0	76
## 1579	12	7	7	2	0	0	73
## 1580	NA	2	1	2	0	0	77
## 1581	NA	3	2	1	0	0	33
## 1582	14	7	4	1	3	3	40
## 1583	12	1	1	1	0	0	48
## 1584	12	1	2	2	0	0	31
## 1585	NA	2	1	2	0	0	60
## 1586	NA	8	1	1	0	0	72
## 1587	17	5	5	2	7	7	55
## 1588	12	5	7	2	5	5	28
## 1589	NA	8	4	2	0	0	76
## 1590	15	4	3	2	2	2	33
## 1591	13	1	7	2	0	0	37
## 1592	16	3	1	2	0	0	31
## 1593	15	7	6	2	0	0	24
## 1594	14	8	2	2	0	0	66
## 1595	15	6	1	2	2	2	69
## 1596	16	8	1	2	0	0	86
## 1597	12	8	1	2	0	0	63
## 1598	12	1	1	2	0	0	55
## 1599	17	7	4	2	0	0	54
## 1600	18	7	4	1	0	0	47
## 1601	11	7	1	2	4	4	49
## 1602	18	8	1	NA	0	0	59
## 1603	15	1	1	2	0	0	72
## 1604	12	1	1	2	0	0	51
## 1605	16	4	6	2	0	0	34
## 1606	11	6	1	1	7	7	26
## 1607	14	5	1	1	0	0	32
## 1608	18	8	7	2	1	1	43
## 1609	12	7	7	2	0	0	22
## 1610	16	4	2	1	0	0	70

## 1611	17	5	1	2	1	1	34
## 1612	12	7	1	2	0	0	35
## 1613	14	4	3	1	2	2	37
## 1614	12	7	5	2	3	3	18
## 1615	12	8	6	2	7	7	28
## 1616	10	8	6	1	0	0	60
## 1617	NA	4	3	2	2	2	44
## 1618	15	8	6	2	0	0	20
## 1619	13	8	6	1	1	1	51
## 1620	14	1	3	2	0	0	41
## 1621	12	8	1	2	0	0	37
## 1622	NA	5	1	2	0	0	71
## 1623	14	6	1	2	0	0	66
## 1624	14	8	7	1	7	7	36
## 1625	16	5	2	2	0	0	55
## 1626	14	7	6	2	7	7	36
## 1627	15	4	3	2	0	0	21
## 1628	14	7	1	2	0	0	74
## 1629	12	5	5	2	0	0	30
## 1630	14	7	1	2	2	2	32
## 1631	17	4	1	2	4	4	34
## 1632	12	2	2	2	7	7	30
## 1633	16	2	3	1	2	2	33
## 1634	14	6	1	1	1	1	32
## 1635	12	6	1	2	0	0	26
## 1636	16	7	5	2	0	0	30
## 1637	17	3	4	1	0	0	46
## 1638	13	2	1	2	5	5	54
## 1639	14	8	1	2	0	0	69
## 1640	4	6	1	2	0	0	62
## 1641	13	8	1	1	1	1	63
## 1642	12	4	2	2	0	0	46
## 1643	13	5	1	2	0	0	75
## 1644	14	7	1	2	0	0	69
## 1645	16	6	1	2	0	0	75
## 1646	NA	7	1	2	0	0	81
## 1647	12	1	7	1	7	7	36
## 1648	NA	4	1	1	1	1	63
## 1649	15	3	2	2	3	3	32
## 1650	12	1	1	1	0	0	43
## 1651	12	7	7	2	0	0	20
## 1652	16	8	7	2	0	0	25
## 1653	NA	8	1	1	7	7	36
## 1654	12	8	6	2	7	7	22
## 1655	NA	8	1	2	0	0	59
## 1656	NA	2	1	2	0	0	73
## 1657	17	8	3	2	0	0	39
## 1658	13	8	6	2	0	0	39
## 1659	18	7	6	2	0	0	25
## 1660	16	8	1	2	2	2	27
## 1661	15	8	1	2	0	0	65
## 1662	12	1	5	1	2	2	47
## 1663	16	8	6	2	0	0	22
## 1664	13	2	4	2	0	0	22

## 1665	16	8	6	2	3	3	27
## 1666	14	8	1	1	0	0	58
## 1667	16	1	7	2	4	4	32
## 1668	14	4	1	1	1	1	34
## 1669	18	6	5	2	7	7	34
## 1670	16	6	7	2	0	0	45
## 1671	12	1	7	2	1	1	18
## 1672	18	3	1	1	0	0	69
## 1673	15	8	5	2	0	0	23
## 1674	17	8	4	2	0	0	30
## 1675	12	8	1	2	0	0	65
## 1676	12	1	1	2	0	0	65
## 1677	NA	8	1	2	0	0	75
## 1678	12	5	7	2	7	7	21
## 1679	18	5	2	2	0	0	48
## 1680	12	8	3	2	0	0	35
## 1681	14	7	6	2	0	0	52
## 1682	12	4	1	2	0	0	19
## 1683	3	1	1	2	0	0	64
## 1684	NA	8	7	1	0	0	26
## 1685	13	1	1	2	0	0	43
## 1686	NA	7	1	2	1	1	72
## 1687	12	1	2	2	7	7	31
## 1688	12	1	6	2	0	0	58
## 1689	16	8	7	2	0	0	36
## 1690	14	8	1	2	4	4	18
## 1691	13	2	7	2	0	0	22
## 1692	16	1	1	2	7	7	19
## 1693	9	1	1	2	0	0	39
## 1694	12	8	4	2	0	0	28
## 1695	NA	8	4	2	0	0	73
## 1696	12	7	1	1	1	1	30
## 1697	16	2	7	2	3	3	25
## 1698	NA	7	1	2	3	3	60
## 1699	16	8	4	2	3	3	30
## 1700	14	7	7	2	0	0	23
## 1701	14	6	3	2	0	0	37
## 1702	10	5	7	2	7	7	29
## 1703	16	8	2	2	4	4	36
## 1704	14	8	7	2	3	3	27
## 1705	18	8	6	2	0	0	69
## 1706	6	1	2	2	0	0	40
## 1707	NA	1	7	2	0	0	65
## 1708	12	6	1	2	0	0	68
## 1709	NA	8	1	2	2	2	48
## 1710	15	8	1	2	0	0	59
## 1711	12	7	7	2	7	7	20
## 1712	NA	1	1	2	0	0	26
## 1713	16	8	7	2	1	1	43
## 1714	NA	4	2	2	0	0	56
## 1715	10	1	6	1	0	0	36
## 1716	12	8	7	2	0	0	38
## 1717	12	1	1	1	2	2	70
## 1718	13	1	1	2	0	0	40

## 1719	16	3	5	2	0	0	33
## 1720	17	2	1	2	0	0	34
## 1721	11	2	2	1	7	7	31
## 1722	17	4	6	2	0	0	28
## 1723	14	8	7	2	0	0	41
## 1724	13	4	2	2	3	3	22
## 1725	14	1	1	1	1	1	26
## 1726	12	8	7	2	3	3	36
## 1727	13	1	1	2	7	7	18
## 1728	17	2	7	2	1	1	29
## 1729	12	8	7	1	0	0	18
## 1730	13	4	1	2	1	1	27
## 1731	14	8	1	2	0	0	19
## 1732	15	7	6	2	1	1	27
## 1733	16	7	7	2	0	0	22
## 1734	13	5	2	1	2	2	37
## 1735	14	4	1	2	0	0	44
## 1736	12	1	7	2	4	4	33
## 1737	12	8	1	1	0	0	65
## 1738	12	2	1	1	5	5	46
## 1739	14	1	5	2	0	0	24
## 1740	14	6	3	2	0	0	19
## 1741	15	7	1	2	0	0	67
## 1742	12	8	7	2	4	4	19
## 1743	14	8	5	2	0	0	58
## 1744	18	1	4	2	0	0	38
## 1745	16	6	4	2	0	0	51
## 1746	15	4	2	2	0	0	50
## 1747	12	4	2	2	1	1	43
## 1748	NA	5	4	2	7	7	41
## 1749	16	8	7	2	0	0	50
## 1750	NA	8	1	2	2	2	38
## 1751	13	1	6	1	3	3	19
## 1752	12	1	1	2	1	1	76
## 1753	14	7	1	2	2	2	65
## 1754	NA	5	1	1	7	7	32
## 1755	12	8	7	2	0	0	21
## 1756	12	8	1	2	0	0	61
## 1757	NA	1	1	2	4	4	27
## 1758	16	4	5	2	0	0	28
## 1759	17	8	3	2	0	0	43
## 1760	15	8	7	1	0	0	48
## 1761	12	1	5	1	7	7	43
## 1762	13	7	6	2	0	0	36
## 1763	14	3	2	2	7	7	34
## 1764	16	5	3	2	2	2	22
## 1765	17	2	1	2	0	0	37
## 1766	17	2	7	2	0	0	34
## 1767	13	8	7	2	0	0	20
## 1768	15	8	5	2	5	5	29
## 1769	12	7	2	2	1	1	29
## 1770	12	8	1	1	2	2	32
## 1771	14	5	3	2	0	0	48
## 1772	NA	4	2	2	2	2	33

## 1773	12	4	2	2	0	0	50
## 1774	14	8	7	2	2	2	39
## 1775	12	1	2	2	7	7	30
## 1776	16	2	7	2	0	0	33
## 1777	10	2	1	1	0	0	39
## 1778	10	7	3	2	0	0	78
## 1779	11	6	7	2	2	2	32
## 1780	NA	1	6	2	0	0	24
## 1781	14	8	1	1	0	0	43
## 1782	16	7	1	1	0	0	59
## 1783	12	7	1	2	0	0	77
## 1784	12	8	7	2	0	0	37
## 1785	9	3	1	2	2	2	51
## 1786	13	2	1	1	3	3	43
## 1787	12	4	5	2	0	0	27
## 1788	16	8	7	2	0	0	26
## 1789	NA	7	5	1	7	7	21
## 1790	12	1	1	1	1	1	45
## 1791	17	8	7	2	0	0	40
## 1792	14	8	1	2	2	2	39
## 1793	17	7	4	2	2	2	39
## 1794	14	7	1	2	0	0	29
## 1795	17	8	1	2	0	0	56
## 1796	NA	8	7	2	1	1	21
## 1797	18	8	7	2	0	0	49
## 1798	16	1	4	2	4	4	39
## 1799	17	7	1	1	2	2	30
## 1800	12	1	1	2	0	0	76
## 1801	16	4	1	1	0	0	37
## 1802	12	1	1	1	4	4	21
## 1803	NA	8	1	2	0	0	67
## 1804	14	8	7	2	0	0	68
## 1805	15	8	6	2	1	1	20
## 1806	NA	2	2	2	1	1	40
## 1807	18	8	1	2	1	1	48
## 1808	18	4	1	2	0	0	71
## 1809	18	8	1	2	1	1	53
## 1810	16	1	6	2	6	6	36
## 1811	12	8	2	2	0	0	29
## 1812	18	6	1	2	0	0	82
## 1813	12	1	1	1	7	7	33
## 1814	12	2	1	2	0	0	50
## 1815	14	6	1	2	2	2	69
## 1816	12	1	6	1	2	2	27

```
fit<-stan_glm(earnk ~ height + male,data=earnings)
```

```
##
## SAMPLING FOR MODEL 'continuous' NOW (CHAIN 1).
## Chain 1:
## Chain 1: Gradient evaluation took 3.9e-05 seconds
## Chain 1: 1000 transitions using 10 leapfrog steps per transition would take 0.39 seconds.
## Chain 1: Adjust your expectations accordingly!
## Chain 1:
## Chain 1:
```

```

## Chain 1: Iteration:    1 / 2000 [ 0%] (Warmup)
## Chain 1: Iteration:   200 / 2000 [ 10%] (Warmup)
## Chain 1: Iteration:   400 / 2000 [ 20%] (Warmup)
## Chain 1: Iteration:   600 / 2000 [ 30%] (Warmup)
## Chain 1: Iteration:   800 / 2000 [ 40%] (Warmup)
## Chain 1: Iteration:  1000 / 2000 [ 50%] (Warmup)
## Chain 1: Iteration: 1001 / 2000 [ 50%] (Sampling)
## Chain 1: Iteration:  1200 / 2000 [ 60%] (Sampling)
## Chain 1: Iteration:  1400 / 2000 [ 70%] (Sampling)
## Chain 1: Iteration:  1600 / 2000 [ 80%] (Sampling)
## Chain 1: Iteration:  1800 / 2000 [ 90%] (Sampling)
## Chain 1: Iteration:  2000 / 2000 [100%] (Sampling)
## Chain 1:
## Chain 1: Elapsed Time: 0.049 seconds (Warm-up)
## Chain 1:                0.184 seconds (Sampling)
## Chain 1:                0.233 seconds (Total)
## Chain 1:
##
## SAMPLING FOR MODEL 'continuous' NOW (CHAIN 2).
## Chain 2:
## Chain 2: Gradient evaluation took 1.3e-05 seconds
## Chain 2: 1000 transitions using 10 leapfrog steps per transition would take 0.13 seconds.
## Chain 2: Adjust your expectations accordingly!
## Chain 2:
## Chain 2:
## Chain 2: Iteration:    1 / 2000 [ 0%] (Warmup)
## Chain 2: Iteration:   200 / 2000 [ 10%] (Warmup)
## Chain 2: Iteration:   400 / 2000 [ 20%] (Warmup)
## Chain 2: Iteration:   600 / 2000 [ 30%] (Warmup)
## Chain 2: Iteration:   800 / 2000 [ 40%] (Warmup)
## Chain 2: Iteration:  1000 / 2000 [ 50%] (Warmup)
## Chain 2: Iteration: 1001 / 2000 [ 50%] (Sampling)
## Chain 2: Iteration:  1200 / 2000 [ 60%] (Sampling)
## Chain 2: Iteration:  1400 / 2000 [ 70%] (Sampling)
## Chain 2: Iteration:  1600 / 2000 [ 80%] (Sampling)
## Chain 2: Iteration:  1800 / 2000 [ 90%] (Sampling)
## Chain 2: Iteration:  2000 / 2000 [100%] (Sampling)
## Chain 2:
## Chain 2: Elapsed Time: 0.047 seconds (Warm-up)
## Chain 2:                0.189 seconds (Sampling)
## Chain 2:                0.236 seconds (Total)
## Chain 2:
## Chain 2:
##
## SAMPLING FOR MODEL 'continuous' NOW (CHAIN 3).
## Chain 3:
## Chain 3: Gradient evaluation took 8e-06 seconds
## Chain 3: 1000 transitions using 10 leapfrog steps per transition would take 0.08 seconds.
## Chain 3: Adjust your expectations accordingly!
## Chain 3:
## Chain 3:
## Chain 3: Iteration:    1 / 2000 [ 0%] (Warmup)
## Chain 3: Iteration:   200 / 2000 [ 10%] (Warmup)
## Chain 3: Iteration:   400 / 2000 [ 20%] (Warmup)
## Chain 3: Iteration:   600 / 2000 [ 30%] (Warmup)

```

```

## Chain 3: Iteration: 800 / 2000 [ 40%] (Warmup)
## Chain 3: Iteration: 1000 / 2000 [ 50%] (Warmup)
## Chain 3: Iteration: 1001 / 2000 [ 50%] (Sampling)
## Chain 3: Iteration: 1200 / 2000 [ 60%] (Sampling)
## Chain 3: Iteration: 1400 / 2000 [ 70%] (Sampling)
## Chain 3: Iteration: 1600 / 2000 [ 80%] (Sampling)
## Chain 3: Iteration: 1800 / 2000 [ 90%] (Sampling)
## Chain 3: Iteration: 2000 / 2000 [100%] (Sampling)
## Chain 3:
## Chain 3: Elapsed Time: 0.051 seconds (Warm-up)
## Chain 3: 0.18 seconds (Sampling)
## Chain 3: 0.231 seconds (Total)
## Chain 3:
##
## SAMPLING FOR MODEL 'continuous' NOW (CHAIN 4).
## Chain 4:
## Chain 4: Gradient evaluation took 1.1e-05 seconds
## Chain 4: 1000 transitions using 10 leapfrog steps per transition would take 0.11 seconds.
## Chain 4: Adjust your expectations accordingly!
## Chain 4:
## Chain 4:
## Chain 4: Iteration: 1 / 2000 [ 0%] (Warmup)
## Chain 4: Iteration: 200 / 2000 [ 10%] (Warmup)
## Chain 4: Iteration: 400 / 2000 [ 20%] (Warmup)
## Chain 4: Iteration: 600 / 2000 [ 30%] (Warmup)
## Chain 4: Iteration: 800 / 2000 [ 40%] (Warmup)
## Chain 4: Iteration: 1000 / 2000 [ 50%] (Warmup)
## Chain 4: Iteration: 1001 / 2000 [ 50%] (Sampling)
## Chain 4: Iteration: 1200 / 2000 [ 60%] (Sampling)
## Chain 4: Iteration: 1400 / 2000 [ 70%] (Sampling)
## Chain 4: Iteration: 1600 / 2000 [ 80%] (Sampling)
## Chain 4: Iteration: 1800 / 2000 [ 90%] (Sampling)
## Chain 4: Iteration: 2000 / 2000 [100%] (Sampling)
## Chain 4:
## Chain 4: Elapsed Time: 0.042 seconds (Warm-up)
## Chain 4: 0.183 seconds (Sampling)
## Chain 4: 0.225 seconds (Total)
## Chain 4:

```

```
logmodel<-stan_glm(log(earnk)~ height + male,data=earnings, subset=earn>0)
```

```

##
## SAMPLING FOR MODEL 'continuous' NOW (CHAIN 1).
## Chain 1:
## Chain 1: Gradient evaluation took 1.3e-05 seconds
## Chain 1: 1000 transitions using 10 leapfrog steps per transition would take 0.13 seconds.
## Chain 1: Adjust your expectations accordingly!
## Chain 1:
## Chain 1:
## Chain 1: Iteration: 1 / 2000 [ 0%] (Warmup)
## Chain 1: Iteration: 200 / 2000 [ 10%] (Warmup)
## Chain 1: Iteration: 400 / 2000 [ 20%] (Warmup)
## Chain 1: Iteration: 600 / 2000 [ 30%] (Warmup)
## Chain 1: Iteration: 800 / 2000 [ 40%] (Warmup)
## Chain 1: Iteration: 1000 / 2000 [ 50%] (Warmup)

```



```

## Chain 1: Iteration: 1001 / 2000 [ 50%] (Sampling)
## Chain 1: Iteration: 1200 / 2000 [ 60%] (Sampling)
## Chain 1: Iteration: 1400 / 2000 [ 70%] (Sampling)
## Chain 1: Iteration: 1600 / 2000 [ 80%] (Sampling)
## Chain 1: Iteration: 1800 / 2000 [ 90%] (Sampling)
## Chain 1: Iteration: 2000 / 2000 [100%] (Sampling)
## Chain 1:
## Chain 1: Elapsed Time: 0.033 seconds (Warm-up)
## Chain 1: 0.166 seconds (Sampling)
## Chain 1: 0.199 seconds (Total)
## Chain 1:
##
## SAMPLING FOR MODEL 'continuous' NOW (CHAIN 2).
## Chain 2:
## Chain 2: Gradient evaluation took 8e-06 seconds
## Chain 2: 1000 transitions using 10 leapfrog steps per transition would take 0.08 seconds.
## Chain 2: Adjust your expectations accordingly!
## Chain 2:
## Chain 2:
## Chain 2: Iteration: 1 / 2000 [ 0%] (Warmup)
## Chain 2: Iteration: 200 / 2000 [ 10%] (Warmup)
## Chain 2: Iteration: 400 / 2000 [ 20%] (Warmup)
## Chain 2: Iteration: 600 / 2000 [ 30%] (Warmup)
## Chain 2: Iteration: 800 / 2000 [ 40%] (Warmup)
## Chain 2: Iteration: 1000 / 2000 [ 50%] (Warmup)
## Chain 2: Iteration: 1001 / 2000 [ 50%] (Sampling)
## Chain 2: Iteration: 1200 / 2000 [ 60%] (Sampling)
## Chain 2: Iteration: 1400 / 2000 [ 70%] (Sampling)
## Chain 2: Iteration: 1600 / 2000 [ 80%] (Sampling)
## Chain 2: Iteration: 1800 / 2000 [ 90%] (Sampling)
## Chain 2: Iteration: 2000 / 2000 [100%] (Sampling)
## Chain 2:
## Chain 2: Elapsed Time: 0.037 seconds (Warm-up)
## Chain 2: 0.171 seconds (Sampling)
## Chain 2: 0.208 seconds (Total)
## Chain 2:
##
## SAMPLING FOR MODEL 'continuous' NOW (CHAIN 3).
## Chain 3:
## Chain 3: Gradient evaluation took 8e-06 seconds
## Chain 3: 1000 transitions using 10 leapfrog steps per transition would take 0.08 seconds.
## Chain 3: Adjust your expectations accordingly!
## Chain 3:
## Chain 3:
## Chain 3: Iteration: 1 / 2000 [ 0%] (Warmup)
## Chain 3: Iteration: 200 / 2000 [ 10%] (Warmup)
## Chain 3: Iteration: 400 / 2000 [ 20%] (Warmup)
## Chain 3: Iteration: 600 / 2000 [ 30%] (Warmup)
## Chain 3: Iteration: 800 / 2000 [ 40%] (Warmup)
## Chain 3: Iteration: 1000 / 2000 [ 50%] (Warmup)
## Chain 3: Iteration: 1001 / 2000 [ 50%] (Sampling)
## Chain 3: Iteration: 1200 / 2000 [ 60%] (Sampling)
## Chain 3: Iteration: 1400 / 2000 [ 70%] (Sampling)
## Chain 3: Iteration: 1600 / 2000 [ 80%] (Sampling)

```

```

## Chain 3: Iteration: 1800 / 2000 [ 90%] (Sampling)
## Chain 3: Iteration: 2000 / 2000 [100%] (Sampling)
## Chain 3:
## Chain 3: Elapsed Time: 0.035 seconds (Warm-up)
## Chain 3: 0.171 seconds (Sampling)
## Chain 3: 0.206 seconds (Total)
## Chain 3:
##
## SAMPLING FOR MODEL 'continuous' NOW (CHAIN 4).
## Chain 4:
## Chain 4: Gradient evaluation took 8e-06 seconds
## Chain 4: 1000 transitions using 10 leapfrog steps per transition would take 0.08 seconds.
## Chain 4: Adjust your expectations accordingly!
## Chain 4:
## Chain 4:
## Chain 4: Iteration: 1 / 2000 [ 0%] (Warmup)
## Chain 4: Iteration: 200 / 2000 [ 10%] (Warmup)
## Chain 4: Iteration: 400 / 2000 [ 20%] (Warmup)
## Chain 4: Iteration: 600 / 2000 [ 30%] (Warmup)
## Chain 4: Iteration: 800 / 2000 [ 40%] (Warmup)
## Chain 4: Iteration: 1000 / 2000 [ 50%] (Warmup)
## Chain 4: Iteration: 1001 / 2000 [ 50%] (Sampling)
## Chain 4: Iteration: 1200 / 2000 [ 60%] (Sampling)
## Chain 4: Iteration: 1400 / 2000 [ 70%] (Sampling)
## Chain 4: Iteration: 1600 / 2000 [ 80%] (Sampling)
## Chain 4: Iteration: 1800 / 2000 [ 90%] (Sampling)
## Chain 4: Iteration: 2000 / 2000 [100%] (Sampling)
## Chain 4:
## Chain 4: Elapsed Time: 0.037 seconds (Warm-up)
## Chain 4: 0.168 seconds (Sampling)
## Chain 4: 0.205 seconds (Total)
## Chain 4:

```

```
loo1<-loo(fit)
```

```
## Warning: Found 1 observation(s) with a pareto_k > 0.7. We recommend calling 'loo' again with argument
```

```
loo2<-loo(logmodel)
```

(b)

Compare models from other exercises in this chapter. # This model fits better than others. The simple one's P-value is bigger than 0.05. The log one's P-value is less than 0.05, which is fitter than the simple one.

12.8

Log-log transformations: Suppose that, for a certain population of animals, we can predict log weight from log height as follows:

- An animal that is 50 centimeters tall is predicted to weigh 10 kg.
- Every increase of 1% in height corresponds to a predicted increase of 2% in weight.
- The weights of approximately 95% of the animals fall within a factor of 1.1 of predicted values.

(a)

Give the equation of the regression line and the residual standard deviation of the regression. $\log(\text{weight}) = -2.398 + 2\log(\text{height})$ #The residual standard deviation is approximately 0.048.

(b)

Suppose the standard deviation of log weights is 20% in this population. What, then, is the R^2 of the regression model described here?

#The R^2 of the regression model is approximately 0.94, indicating that the model explains about 94% of the variation in log weight.

12.9

Linear and logarithmic transformations: For a study of congressional elections, you would like a measure of the relative amount of money raised by each of the two major-party candidates in each district. Suppose that you know the amount of money raised by each candidate; label these dollar values D_i and R_i . You would like to combine these into a single variable that can be included as an input variable into a model predicting vote share for the Democrats. Discuss the advantages and disadvantages of the following measures:

(a)

The simple difference, $D_i - R_i$ # It directly shows the absolute difference in fundraising between the Democratic and Republican candidates, which can be a straightforward measure of who raised more money.

(b)

The ratio, D_i/R_i #The ratio directly measures how much more the Democratic candidate raised compared to the Republican, making it easy to interpret.

(c)

The difference on the logarithmic scale, $\log D_i - \log R_i$

It gives a symmetric measure of relative differences, making it easier to interpret whether Democrats or Republicans raised more money.

(d)

The relative proportion, $D_i/(D_i + R_i)$. #It is easy to interpret as the proportion of total money raised by the Democrat, ranging between 0 and 1.

12.11

Elasticity: An economist runs a regression examining the relations between the average price of cigarettes, P , and the quantity purchased, Q , across a large sample of counties in the United States, assuming the functional form, $\log Q = \alpha + \beta \log P$. Suppose the estimate for β is 0.3. Interpret this coefficient. #The coefficient represents the price elasticity of demand for cigarettes. Specifically, it means that a 1% increase in the price of cigarettes is associated with a 0.3% increase in the quantity purchased.

12.13

Building regression models: Return to the teaching evaluations data from Exercise 10.6. Fit regression models predicting evaluations given many of the inputs in the dataset. Consider interactions, combinations of predictors, and transformations, as appropriate. Consider several models, discuss in detail the final model that you choose, and also explain why you chose it rather than the others you had considered.

```

beauty_data <- read.csv("beauty.csv")
model1 <- lm(eval ~ beauty, data = beauty_data)
summary(model1)

##
## Call:
## lm(formula = eval ~ beauty, data = beauty_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.80015 -0.36304  0.07254  0.40207  1.10373
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  4.01002     0.02551 157.205 < 2e-16 ***
## beauty       0.13300     0.03218   4.133 4.25e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.5455 on 461 degrees of freedom
## Multiple R-squared:  0.03574,    Adjusted R-squared:  0.03364
## F-statistic: 17.08 on 1 and 461 DF,  p-value: 4.247e-05

model2 <- lm(eval ~ beauty + age + female + minority + lower + nonenglish + course_id, data = beauty_data)
summary(model2)

##
## Call:
## lm(formula = eval ~ beauty + age + female + minority + lower +
##      nonenglish + course_id, data = beauty_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.84894 -0.35238  0.04637  0.39393  1.05082
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  4.1936052  0.1464372  28.638 < 2e-16 ***
## beauty       0.1409025  0.0333132   4.230 2.83e-05 ***
## age         -0.0021740  0.0028013  -0.776 0.438096
## female      -0.1974499  0.0528073  -3.739 0.000208 ***
## minority    -0.0688714  0.0785761  -0.876 0.381225
## lower        0.0988180  0.0542490   1.822 0.069178 .
## nonenglish  -0.2748373  0.1106958  -2.483 0.013394 *
## course_id   -0.0003901  0.0029850  -0.131 0.896089
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.5317 on 455 degrees of freedom
## Multiple R-squared:  0.09578,    Adjusted R-squared:  0.08187
## F-statistic: 6.885 on 7 and 455 DF,  p-value: 8.511e-08

model3 <- lm(eval ~ beauty * female + age + minority + lower + nonenglish + course_id, data = beauty_data)
summary(model3)

```

```
##
## Call:
## lm(formula = eval ~ beauty * female + age + minority + lower +
##      nonenglish + course_id, data = beauty_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.82313 -0.34837  0.05002  0.40620  1.07926
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   4.176433   0.146566  28.495 < 2e-16 ***
## beauty        0.192002   0.045913   4.182 3.47e-05 ***
## female       -0.204601   0.052900  -3.868 0.000126 ***
## age          -0.001605   0.002818  -0.569 0.569340
## minority     -0.038752   0.080627  -0.481 0.631012
## lower         0.093214   0.054265   1.718 0.086520 .
## nonenglish   -0.294409   0.111164  -2.648 0.008369 **
## course_id    -0.000925   0.002998  -0.309 0.757823
## beauty:female -0.105887   0.065599  -1.614 0.107186
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.5307 on 454 degrees of freedom
## Multiple R-squared:  0.1009, Adjusted R-squared:  0.0851
## F-statistic: 6.371 on 8 and 454 DF,  p-value: 7.505e-08
model4 <- lm(eval ~ beauty * minority + age + female + lower + nonenglish + course_id, data = beauty_data)
summary(model4)

##
## Call:
## lm(formula = eval ~ beauty * minority + age + female + lower +
##      nonenglish + course_id, data = beauty_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.82635 -0.33698  0.04823  0.39519  1.07522
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   4.154e+00  1.479e-01  28.095 < 2e-16 ***
## beauty        1.623e-01  3.541e-02   4.584 5.91e-06 ***
## minority     -8.307e-02  7.881e-02  -1.054 0.29246
## age          -1.583e-03  2.815e-03  -0.562 0.57407
## female       -1.758e-01  5.412e-02  -3.248 0.00125 **
## lower         1.065e-01  5.430e-02   1.961 0.05044 .
## nonenglish   -2.560e-01  1.110e-01  -2.307 0.02150 *
## course_id    -7.105e-05  2.984e-03  -0.024 0.98101
## beauty:minority -1.723e-01  9.827e-02  -1.753 0.08021 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.5305 on 454 degrees of freedom
## Multiple R-squared:  0.1019, Adjusted R-squared:  0.08604
```

```
## F-statistic: 6.436 on 8 and 454 DF,  p-value: 6.103e-08
```

```
#Model 2 (beauty + demographic variables): If the interactions are not significant and the adjusted R-s
```

12.14

Prediction from a fitted regression: Consider one of the fitted models for mesquite leaves, for example `fit_4`, in Section 12.6. Suppose you wish to use this model to make inferences about the average mesquite yield in a new set of trees whose predictors are in data frame called `new_trees`. Give R code to obtain an estimate and standard error for this population average. You do not need to make the prediction; just give the code.

```
# Assuming model3 has already been fit using lm or another regression method  
# and new_trees is a data frame containing the predictor variables  
  
# Use the predict function to get both the predicted value and the standard error  
#predictions <- predict(model, newdata = new_trees, se.fit = TRUE)  
  
# Extract the estimated population average (mean predicted value) and standard error  
#estimated_average <- mean(predictions$fit) # Population average of the predictions  
#standard_error <- sqrt(mean(predictions$se.fit^2)) # Standard error for the population average  
  
# Display the results  
#estimated_average  
#standard_error
```

```
install.packages("latex")
```