RMarkdown Assignment - Week 8 Housing Exercise

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## R Markdown

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When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

## Load the `data/r4ds/heights.csv` to  
#install.packages("readxl")  
library(readxl)  
housing\_df <- read\_excel('C:/Users/Sandeep Raina/Documents/dsc520/data/week-7-housing.xlsx')  
head(housing\_df)

## # A tibble: 6 x 24  
## `Sale Date` `Sale Price` sale\_reason sale\_instrument sale\_warning  
## <dttm> <dbl> <dbl> <dbl> <chr>   
## 1 2006-01-03 00:00:00 698000 1 3 <NA>   
## 2 2006-01-03 00:00:00 649990 1 3 <NA>   
## 3 2006-01-03 00:00:00 572500 1 3 <NA>   
## 4 2006-01-03 00:00:00 420000 1 3 <NA>   
## 5 2006-01-03 00:00:00 369900 1 3 15   
## 6 2006-01-03 00:00:00 184667 1 15 18 51   
## # ... with 19 more variables: sitetype <chr>, addr\_full <chr>, zip5 <dbl>,  
## # ctyname <chr>, postalctyn <chr>, lon <dbl>, lat <dbl>,  
## # building\_grade <dbl>, square\_feet\_total\_living <dbl>, bedrooms <dbl>,  
## # bath\_full\_count <dbl>, bath\_half\_count <dbl>, bath\_3qtr\_count <dbl>,  
## # year\_built <dbl>, year\_renovated <dbl>, current\_zoning <chr>,  
## # sq\_ft\_lot <dbl>, prop\_type <chr>, present\_use <dbl>

#Create two variables; one that will contain the variables Sale Price and Square Foot of Lot (same variables used from previous assignment on simple regression) and one that will contain Sale Price and several additional predictors of your choice. Explain the basis for your additional predictor selections.  
  
  
df\_var1 <- lm(formula = housing\_df$`Sale Price` ~ housing\_df$sq\_ft\_lot, data = housing\_df)  
df\_var1

##   
## Call:  
## lm(formula = housing\_df$`Sale Price` ~ housing\_df$sq\_ft\_lot,   
## data = housing\_df)  
##   
## Coefficients:  
## (Intercept) housing\_df$sq\_ft\_lot   
## 6.418e+05 8.510e-01

df\_var2 <- lm(formula = housing\_df$`Sale Price` ~ housing\_df$sq\_ft\_lot + housing\_df$year\_built + housing\_df$sale\_reason, data = housing\_df)  
df\_var2

##   
## Call:  
## lm(formula = housing\_df$`Sale Price` ~ housing\_df$sq\_ft\_lot +   
## housing\_df$year\_built + housing\_df$sale\_reason, data = housing\_df)  
##   
## Coefficients:  
## (Intercept) housing\_df$sq\_ft\_lot housing\_df$year\_built   
## -1.118e+07 1.115e+00 5.938e+03   
## housing\_df$sale\_reason   
## -1.384e+04

summary(df\_var1)

##   
## Call:  
## lm(formula = housing\_df$`Sale Price` ~ housing\_df$sq\_ft\_lot,   
## data = housing\_df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -2016064 -194842 -63293 91565 3735109   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 6.418e+05 3.800e+03 168.90 <2e-16 \*\*\*  
## housing\_df$sq\_ft\_lot 8.510e-01 6.217e-02 13.69 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 401500 on 12863 degrees of freedom  
## Multiple R-squared: 0.01435, Adjusted R-squared: 0.01428   
## F-statistic: 187.3 on 1 and 12863 DF, p-value: < 2.2e-16

summary(df\_var2)

##   
## Call:  
## lm(formula = housing\_df$`Sale Price` ~ housing\_df$sq\_ft\_lot +   
## housing\_df$year\_built + housing\_df$sale\_reason, data = housing\_df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -2466938 -166668 -51752 72026 3631189   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -1.118e+07 4.003e+05 -27.92 <2e-16 \*\*\*  
## housing\_df$sq\_ft\_lot 1.115e+00 6.028e-02 18.50 <2e-16 \*\*\*  
## housing\_df$year\_built 5.938e+03 2.006e+02 29.59 <2e-16 \*\*\*  
## housing\_df$sale\_reason -1.384e+04 1.280e+03 -10.81 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 385600 on 12861 degrees of freedom  
## Multiple R-squared: 0.09086, Adjusted R-squared: 0.09064   
## F-statistic: 428.4 on 3 and 12861 DF, p-value: < 2.2e-16

#Execute a summary() function on two variables defined in the previous step to compare the model results. What are the R2 and Adjusted R2 statistics? Explain what these results tell you about the overall model. Did the inclusion of the additional predictors help explain any large variations found in Sale Price?  
  
# standardize  
#install.packages("lm.beta")  
library(lm.beta)  
lm.beta <- lm.beta(df\_var2)  
print(lm.beta)

##   
## Call:  
## lm(formula = housing\_df$`Sale Price` ~ housing\_df$sq\_ft\_lot +   
## housing\_df$year\_built + housing\_df$sale\_reason, data = housing\_df)  
##   
## Standardized Coefficients::  
## (Intercept) housing\_df$sq\_ft\_lot housing\_df$year\_built   
## 0.0000000 0.1570390 0.2528464   
## housing\_df$sale\_reason   
## -0.0915819

summary(lm.beta)

##   
## Call:  
## lm(formula = housing\_df$`Sale Price` ~ housing\_df$sq\_ft\_lot +   
## housing\_df$year\_built + housing\_df$sale\_reason, data = housing\_df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -2466938 -166668 -51752 72026 3631189   
##   
## Coefficients:  
## Estimate Standardized Std. Error t value Pr(>|t|)   
## (Intercept) -1.118e+07 0.000e+00 4.003e+05 -27.92 <2e-16 \*\*\*  
## housing\_df$sq\_ft\_lot 1.115e+00 1.570e-01 6.028e-02 18.50 <2e-16 \*\*\*  
## housing\_df$year\_built 5.938e+03 2.529e-01 2.006e+02 29.59 <2e-16 \*\*\*  
## housing\_df$sale\_reason -1.384e+04 -9.158e-02 1.280e+03 -10.81 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 385600 on 12861 degrees of freedom  
## Multiple R-squared: 0.09086, Adjusted R-squared: 0.09064   
## F-statistic: 428.4 on 3 and 12861 DF, p-value: < 2.2e-16

coef(lm.beta)

## (Intercept) housing\_df$sq\_ft\_lot housing\_df$year\_built   
## 0.0000000 0.1570390 0.2528464   
## housing\_df$sale\_reason   
## -0.0915819

#Calculate the confidence intervals for the parameters in your model and explain what the results indicate.  
  
  
confint(df\_var2, level=0.95)

## 2.5 % 97.5 %  
## (Intercept) -1.196086e+07 -1.039160e+07  
## housing\_df$sq\_ft\_lot 9.972488e-01 1.233559e+00  
## housing\_df$year\_built 5.544318e+03 6.330861e+03  
## housing\_df$sale\_reason -1.635320e+04 -1.133365e+04

#Assess the improvement of the new model compared to your original model (simple regression model) by testing whether this change is significant by performing an analysis of variance.  
  
anova(df\_var1)

## Analysis of Variance Table  
##   
## Response: housing\_df$`Sale Price`  
## Df Sum Sq Mean Sq F value Pr(>F)   
## housing\_df$sq\_ft\_lot 1 3.0197e+13 3.0197e+13 187.34 < 2.2e-16 \*\*\*  
## Residuals 12863 2.0734e+15 1.6119e+11   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

anova(df\_var2)

## Analysis of Variance Table  
##   
## Response: housing\_df$`Sale Price`  
## Df Sum Sq Mean Sq F value Pr(>F)   
## housing\_df$sq\_ft\_lot 1 3.0197e+13 3.0197e+13 203.07 < 2.2e-16 \*\*\*  
## housing\_df$year\_built 1 1.4354e+14 1.4354e+14 965.31 < 2.2e-16 \*\*\*  
## housing\_df$sale\_reason 1 1.7382e+13 1.7382e+13 116.89 < 2.2e-16 \*\*\*  
## Residuals 12861 1.9125e+15 1.4870e+11   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

#Perform casewise diagnostics to identify outliers and/or influential cases, storing each function's output in a dataframe assigned to a unique variable name.  
  
#outliers can be detected by very simply min and max values from the summary function  
  
summary(df\_var1)

##   
## Call:  
## lm(formula = housing\_df$`Sale Price` ~ housing\_df$sq\_ft\_lot,   
## data = housing\_df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -2016064 -194842 -63293 91565 3735109   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 6.418e+05 3.800e+03 168.90 <2e-16 \*\*\*  
## housing\_df$sq\_ft\_lot 8.510e-01 6.217e-02 13.69 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
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summary(df\_var2)

##   
## Call:  
## lm(formula = housing\_df$`Sale Price` ~ housing\_df$sq\_ft\_lot +   
## housing\_df$year\_built + housing\_df$sale\_reason, data = housing\_df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -2466938 -166668 -51752 72026 3631189   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -1.118e+07 4.003e+05 -27.92 <2e-16 \*\*\*  
## housing\_df$sq\_ft\_lot 1.115e+00 6.028e-02 18.50 <2e-16 \*\*\*  
## housing\_df$year\_built 5.938e+03 2.006e+02 29.59 <2e-16 \*\*\*  
## housing\_df$sale\_reason -1.384e+04 1.280e+03 -10.81 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 385600 on 12861 degrees of freedom  
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#Calculate the standardized residuals using the appropriate command, specifying those that are +-2, storing the results of large residuals in a variable you create.  
  
predicted\_df1 <- data.frame(Sale = predict(df\_var1))  
predicted\_df2 <- data.frame(Sale = predict(df\_var2))  
  
head(predicted\_df1)

## Sale  
## 1 647467.7  
## 2 646561.4  
## 3 649007.2  
## 4 649990.9  
## 5 648226.0  
## 6 648016.6

## Residuals  
#residuals\_var1 <- housing\_df$`Sale Price` - predicted\_df1$Sale  
residuals\_var1 <- residuals(df\_var1)  
#residuals\_var2 <- housing\_df$`Sale Price` - predicted\_df2$Sale  
residuals\_var1

## 1 2 3 4 5   
## 5.053226e+04 3.428566e+03 -7.650719e+04 -2.299909e+05 -2.783260e+05   
## 6 7 8 9 10   
## -4.633496e+05 3.251439e+05 2.070965e+05 -1.814857e+04 -7.257123e+04   
## 11 12 13 14 15   
## -4.863595e+04 -1.172870e+05 -1.820929e+05 -7.141555e+05 8.032325e+04   
## 16 17 18 19 20   
## -1.365086e+05 1.167017e+05 -5.590256e+04 -1.490326e+05 -3.097265e+05   
## 21 22 23 24 25   
## -1.327786e+05 -1.632935e+05 9.309771e+04 -2.721118e+05 -4.726857e+05   
## 26 27 28 29 30   
## 7.354641e+05 7.066688e+04 -9.903510e+04 -1.751930e+05 -1.219405e+05   
## 31 32 33 34 35   
## -2.459900e+05 -3.090583e+05 -7.209837e+04 3.028490e+05 2.238032e+05   
## 36 37 38 39 40   
## 1.034035e+05 -1.205378e+05 4.247452e+04 -3.161125e+04 -1.632549e+05   
## 41 42 43 44 45   
## -3.813355e+05 -1.682889e+05 -1.979230e+05 -1.837272e+05 -2.487427e+05   
## 46 47 48 49 50   
## -3.157232e+05 7.721633e+05 6.862100e+04 -1.093525e+05 -1.650420e+05   
## 51 52 53 54 55   
## -2.028975e+05 1.073071e+05 -5.669944e+03 -5.513241e+04 -1.798024e+05   
## 56 57 58 59 60   
## -2.025155e+05 -2.861026e+05 -1.511488e+05 -2.988953e+05 4.045797e+05   
## 61 62 63 64 65   
## 1.881462e+05 1.942243e+05 1.189959e+05 4.294916e+04 -3.831963e+05   
## 66 67 68 69 70   
## 1.966640e+05 1.111483e+05 -1.181762e+05 -4.663764e+04 -1.037291e+05   
## 71 72 73 74 75   
## -4.967403e+05 1.226677e+06 4.317661e+05 -1.945908e+05 -2.530721e+05   
## 76 77 78 79 80   
## -2.627943e+05 -6.480052e+04 -1.083911e+05 -1.331447e+05 -1.146148e+05   
## 81 82 83 84 85   
## 3.127036e+05 4.444980e+04 1.116775e+04 -2.228125e+04 -5.755868e+03   
## 86 87 88 89 90   
## 2.353985e+03 -9.962935e+04 -2.172648e+05 -2.191485e+05 2.291038e+05   
## 91 92 93 94 95   
## 1.070186e+05 8.199847e+04 4.807381e+03 -9.639634e+04 -2.371563e+05   
## 96 97 98 99 100   
## 1.923053e+04 4.487170e+04 1.705310e+03 -5.075193e+04 -5.560237e+04   
## 101 102 103 104 105   
## -1.231999e+05 -1.565864e+05 -2.419294e+05 -8.855276e+04 -8.911101e+04   
## 106 107 108 109 110   
## -2.546047e+05 -2.445663e+05 8.618625e+05 6.822688e+04 -1.793493e+04   
## 111 112 113 114 115   
## -1.287279e+05 -1.521484e+05 -1.708943e+05 -3.692621e+05 5.561607e+05   
## 116 117 118 119 120   
## 5.561607e+05 4.048657e+04 -1.544957e+05 -2.148453e+05 -2.511959e+05   
## 121 122 123 124 125   
## -2.793523e+05 6.730933e+04 -1.121657e+04 2.761659e+05 1.174344e+05   
## 126 127 128 129 130   
## -1.709062e+05 -2.544220e+05 2.217569e+04 -1.674938e+05 1.530550e+05   
## 131 132 133 134 135   
## -1.771676e+05 -1.518163e+05 -1.627784e+05 -2.237787e+05 -2.807929e+05   
## 136 137 138 139 140   
## 2.079654e+05 2.052635e+05 2.074982e+05 7.414348e+04 -1.232676e+05   
## 141 142 143 144 145   
## -1.238676e+05 -1.251930e+05 -2.003845e+05 -1.736234e+05 -2.650102e+05   
## 146 147 148 149 150   
## -7.954821e+04 -1.018850e+05 -2.054574e+05 -2.172431e+05 -7.700523e+04   
## 151 152 153 154 155   
## -9.445287e+04 -9.951054e+04 -1.018850e+05 -1.142125e+05 -1.618766e+05   
## 156 157 158 159 160   
## -1.834591e+05 -2.651016e+05 -7.091228e+04 -2.639561e+05 -6.144777e+05   
## 161 162 163 164 165   
## -6.999093e+04 2.528439e+05 1.881462e+05 2.493481e+04 -5.292557e+04   
## 166 167 168 169 170   
## -5.988498e+04 -1.090980e+05 -1.436106e+05 -1.577269e+05 -1.702935e+05   
## 171 172 173 174 175   
## -2.781995e+05 -2.818461e+05 -3.390090e+04 -5.265247e+04 -9.554854e+04   
## 176 177 178 179 180   
## -1.595047e+05 -2.326633e+05 -3.055718e+05 4.688323e+04 -5.597604e+04   
## 181 182 183 184 185   
## -6.744230e+04 -9.432354e+04 -1.360253e+05 4.276348e+05 2.928948e+05   
## 186 187 188 189 190   
## -4.330129e+04 -1.183586e+05 -1.681988e+05 -2.199909e+05 -3.301839e+05   
## 191 192 193 194 195   
## 2.090747e+05 5.631385e+04 -1.416908e+04 -1.945855e+05 -2.424226e+05   
## 196 197 198 199 200   
## 7.044810e+05 1.384457e+05 1.143024e+05 -1.202098e+05 -1.441444e+05   
## 201 202 203 204 205   
## -2.992084e+05 8.121258e+04 -8.644020e+04 -1.463534e+05 -3.061392e+05   
## 206 207 208 209 210   
## -1.845637e+05 -3.860662e+05 3.941789e+05 -1.334677e+04 -3.742706e+04   
## 211 212 213 214 215   
## -2.027605e+05 -2.130654e+05 -2.381911e+05 6.378203e+05 -1.782847e+05   
## 216 217 218 219 220   
## -1.680762e+05 8.245843e+04 1.367535e+04 -1.686379e+05 -1.894759e+05   
## 221 222 223 224 225   
## -2.051469e+05 -3.641144e+05 3.428653e+05 1.689098e+04 -1.537143e+05   
## 226 227 228 229 230   
## -1.556073e+05 -1.922333e+05 -2.027045e+05 -3.119961e+05 2.011998e+05   
## 231 232 233 234 235   
## 1.241869e+05 -2.523708e+04 -8.691247e+04 -1.375996e+05 -2.248633e+05   
## 236 237 238 239 240   
## 1.875280e+05 -1.701338e+05 -2.418463e+05 9.390897e+05 2.611587e+05   
## 241 242 243 244 245   
## 2.060100e+05 -8.632153e+04 -1.097500e+05 -1.709486e+05 7.962281e+05   
## 246 247 248 249 250   
## 7.962281e+05 1.192092e+05 1.182269e+05 -4.281682e+04 -8.516113e+04   
## 251 252 253 254 255   
## -1.491186e+05 -2.946633e+05 -3.699220e+05 3.508162e+05 -4.552642e+04   
## 256 257 258 259 260   
## -8.633991e+04 -9.570670e+04 -1.622430e+05 -2.035073e+05 -2.560666e+05   
## 261 262 263 264 265   
## 1.067923e+05 2.372556e+05 6.895799e+04 1.019740e+05 5.416212e+04   
## 266 267 268 269 270   
## 8.193547e+02 -1.084260e+05 -2.109307e+05 -2.950439e+05 -4.031817e+05   
## 271 272 273 274 275   
## 2.406821e+05 -5.160149e+03 -1.928745e+05 -1.218563e+05 -2.123426e+05   
## 276 277 278 279 280   
## -2.230024e+05 -2.380815e+05 -2.613325e+05 -3.339380e+05 1.033011e+05   
## 281 282 283 284 285   
## 5.829386e+04 3.383959e+04 -5.995102e+04 -9.734561e+04 -1.552265e+05   
## 286 287 288 289 290   
## -2.625654e+05 -4.945631e+05 2.076908e+05 1.840977e+05 -1.854188e+04   
## 291 292 293 294 295   
## -2.302813e+04 -7.153676e+04 -2.697443e+05 -3.491633e+05 -4.481844e+05   
## 296 297 298 299 300   
## 1.435062e+05 2.580429e+04 -1.015598e+05 -2.045612e+05 -6.872195e+05   
## 301 302 303 304 305   
## 2.331402e+05 -8.011525e+04 -1.502263e+04 -1.226042e+05 -2.074463e+05   
## 306 307 308 309 310   
## 1.161063e+04 -4.907357e+04 -6.584448e+04 -7.700523e+04 -1.242753e+05   
## 311 312 313 314 315   
## -1.242753e+05 -2.638804e+05 7.504077e+05 1.408753e+05 1.274789e+05   
## 316 317 318 319 320   
## 7.951460e+04 -1.576410e+05 -1.443782e+05 -1.799909e+05 -2.116575e+05   
## 321 322 323 324 325   
## -2.543009e+05 -3.563148e+05 -2.166994e+04 -5.592703e+04 -1.056713e+05   
## 326 327 328 329 330   
## 2.272131e+05 2.342559e+05 2.342559e+05 1.189837e+05 -1.610090e+04   
## 331 332 333 334 335   
## 2.348568e+04 2.568001e+03 -6.742489e+04 -1.373098e+05 -1.381319e+05   
## 336 337 338 339 340   
## -1.598806e+05 -2.103888e+05 -2.986846e+03 -2.407338e+05 -2.471271e+05   
## 341 342 343 344 345   
## -3.888838e+05 -8.201783e+05 -4.316538e+05 -1.041135e+06 -1.041135e+06   
## 346 347 348 349 350   
## 7.830876e+04 -1.275711e+04 -1.375996e+05 -1.848061e+05 -2.241437e+05   
## 351 352 353 354 355   
## -2.669078e+04 -7.501157e+04 3.827712e+05 2.758458e+05 9.263034e+04   
## 356 357 358 359 360   
## -7.104990e+04 -8.779018e+04 -2.636078e+05 -6.357186e+05 3.365578e+04   
## 361 362 363 364 365   
## -9.160442e+04 -1.138591e+05 -1.972511e+05 -2.327813e+05 7.504077e+05   
## 366 367 368 369 370   
## 3.254918e+04 -7.898715e+04 -2.190765e+05 -2.190749e+05 -2.498869e+05   
## 371 372 373 374 375   
## -2.569593e+05 -2.730762e+05 -5.008385e+05 -1.864072e+05 -6.166766e+05   
## 376 377 378 379 380   
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## -1.957509e+05 -3.663059e+05 -3.653775e+05 5.738641e+05 1.141995e+05   
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## 3.426865e+04 -1.080928e+05 -1.536042e+05 2.318626e+05 1.326530e+05   
## 1776 1777 1778 1779 1780   
## 1.234413e+05 -1.693332e+04 -1.878232e+04 -6.208332e+04 -1.151186e+05   
## 1781 1782 1783 1784 1785   
## -2.573317e+05 -2.585002e+04 -2.408922e+04 -1.539634e+05 -2.083388e+05   
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## 1791 1792 1793 1794 1795   
## 3.531356e+05 -2.889064e+04 -1.259343e+05 3.804750e+05 2.952767e+05   
## 1796 1797 1798 1799 1800   
## 1.512602e+05 1.458890e+05 1.180858e+05 9.220994e+04 8.718446e+04   
## 1801 1802 1803 1804 1805   
## -9.438843e+04 -9.851104e+04 -1.249909e+05 -1.600794e+05 -4.401314e+04   
## 1806 1807 1808 1809 1810   
## 5.569078e+05 1.851050e+05 1.367068e+05 1.140678e+05 5.920318e+04   
## 1811 1812 1813 1814 1815   
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## 1816 1817 1818 1819 1820   
## -1.120999e+05 -1.185416e+05 -1.890658e+05 1.090244e+04 6.781164e+05   
## 1821 1822 1823 1824 1825   
## 3.373791e+05 1.278969e+05 -4.541813e+04 -9.219779e+04 -2.430926e+05   
## 1826 1827 1828 1829 1830   
## 1.636354e+05 -1.185016e+04 -6.884125e+04 -1.072503e+05 -1.423023e+05   
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## 1836 1837 1838 1839 1840   
## -2.152040e+05 -2.770208e+05 -3.426678e+05 -5.021756e+05 -6.054645e+05   
## 1841 1842 1843 1844 1845   
## 4.773825e+05 9.377736e+04 -9.367190e+04 4.515162e+05 -7.367190e+04   
## 1846 1847 1848 1849 1850   
## -3.509325e+05 2.229279e+05 -2.167560e+03 -1.139025e+05 -1.203824e+05   
## 1851 1852 1853 1854 1855   
## 2.627781e+05 9.773474e+03 -2.001391e+04 -1.960330e+05 -1.980762e+05   
## 1856 1857 1858 1859 1860   
## -2.399229e+05 -2.823502e+05 -2.994415e+05 1.084301e+05 4.424410e+04   
## 1861 1862 1863 1864 1865   
## -2.185990e+05 4.660900e+04 2.890276e+04 -3.668300e+05 -1.118557e+05   
## 1866 1867 1868 1869 1870   
## 1.716049e+05 -1.562472e+05 -1.878694e+05 -2.444654e+05 2.169359e+06   
## 1871 1872 1873 1874 1875   
## 8.670514e+04 -3.698081e+04 -8.007612e+04 -1.505526e+05 -1.505526e+05   
## 1876 1877 1878 1879 1880   
## -2.019739e+05 -2.140046e+05 -2.342084e+05 -2.589486e+05 1.751844e+05   
## 1881 1882 1883 1884 1885   
## 1.472817e+05 5.272883e+04 -1.521576e+05 2.123512e+05 -2.194822e+04   
## 1886 1887 1888 1889 1890   
## 3.223419e+05 2.377214e+05 -3.168108e+03 -3.168108e+03 -1.586414e+05   
## 1891 1892 1893 1894 1895   
## -1.786685e+05 1.882559e+05 1.810992e+05 1.364909e+05 -4.890826e+04   
## 1896 1897 1898 1899 1900   
## -9.159592e+04 -2.989697e+05 6.338299e+05 2.046925e+05 1.026710e+05   
## 1901 1902 1903 1904 1905   
## -2.887454e+05 -1.956160e+04 -4.677333e+04 -2.316772e+05 -3.089996e+04   
## 1906 1907 1908 1909 1910   
## -3.089996e+04 -8.377835e+04 -1.127917e+05 -1.229894e+05 -1.462972e+05   
## 1911 1912 1913 1914 1915   
## -3.126972e+05 -3.940020e+05 5.750086e+05 3.679709e+04 2.298314e+05   
## 1916 1917 1918 1919 1920   
## -5.135252e+04 -6.638060e+04 -1.427096e+05 -8.565087e+04 -1.094012e+05   
## 1921 1922 1923 1924 1925   
## -1.839570e+05 -2.529486e+05 1.204686e+04 -5.410513e+04 -6.044413e+04   
## 1926 1927 1928 1929 1930   
## -1.264015e+05 -1.665021e+05 -2.006587e+05 -2.694344e+05 -3.509325e+05   
## 1931 1932 1933 1934 1935   
## -9.419237e+02 -1.425881e+04 -3.990583e+04 -1.206403e+05 -2.213478e+05   
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## 1.631528e+05 5.593614e+04 8.506130e+03 -3.264255e+05 2.510192e+05   
## 1941 1942 1943 1944 1945   
## 1.567419e+05 1.452248e+05 1.092724e+04 -1.182452e+05 -1.994657e+05   
## 1946 1947 1948 1949 1950   
## -2.324454e+05 -3.057441e+05 -1.840563e+05 1.784039e+05 8.461591e+04   
## 1951 1952 1953 1954 1955   
## -2.979946e+04 -6.922504e+04 -2.076669e+05 -2.476802e+05 -3.008941e+05   
## 1956 1957 1958 1959 1960   
## -1.011060e+04 -8.716096e+04 -1.787158e+05 -3.234779e+05 -3.560992e+05   
## 1961 1962 1963 1964 1965   
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## -1.450931e+05 -1.776499e+05 -2.132727e+05 -9.404887e+03 -1.200766e+05   
## 1971 1972 1973 1974 1975   
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## 1976 1977 1978 1979 1980   
## 1.975111e+06 1.976882e+06 1.974406e+06 1.976833e+06 1.978253e+06   
## 1981 1982 1983 1984 1985   
## 1.976055e+06 1.977451e+06 6.024344e+05 3.414670e+05 1.481699e+05   
## 1986 1987 1988 1989 1990   
## 6.428282e+02 -1.931014e+04 -3.630872e+04 -3.192019e+05 -1.553529e+05   
## 1991 1992 1993 1994 1995   
## 8.793535e+04 -8.708916e+04 -3.630872e+04 -4.422819e+04 -8.050892e+04   
## 1996 1997 1998 1999 2000   
## -1.066844e+05 -1.598367e+05 -1.997298e+05 4.933092e+05 4.933092e+05   
## 2001 2002 2003 2004 2005   
## -4.676823e+04 -7.167981e+04 3.812183e+05 3.389654e+05 2.024684e+05   
## 2006 2007 2008 2009 2010   
## 3.544501e+04 1.646985e+05 8.933805e+04 8.075132e+03 -3.287825e+04   
## 2011 2012 2013 2014 2015   
## -1.689697e+05 -2.261074e+05 3.754982e+05 2.623039e+05 3.596769e+04   
## 2016 2017 2018 2019 2020   
## 2.059150e+04 -1.844511e+04 -6.212589e+04 -1.147486e+05 1.050354e+06   
## 2021 2022 2023 2024 2025   
## 7.277239e+05 7.277239e+05 1.372221e+05 1.005026e+05 -2.668287e+04   
## 2026 2027 2028 2029 2030   
## -1.596975e+05 -2.594665e+05 -2.672462e+05 2.523909e+05 2.457224e+05   
## 2031 2032 2033 2034 2035   
## 6.306134e+04 4.485199e+04 -4.145421e+04 -7.301827e+04 -2.546335e+05   
## 2036 2037 2038 2039 2040   
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## 2041 2042 2043 2044 2045   
## -4.310173e+04 -7.700735e+04 -2.360553e+05 -4.676410e+05 5.015170e+05   
## 2046 2047 2048 2049 2050   
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## 2051 2052 2053 2054 2055   
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## 2061 2062 2063 2064 2065   
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## 2066 2067 2068 2069 2070   
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## 2071 2072 2073 2074 2075   
## 9.241396e+04 5.105283e+04 -5.031771e+04 -1.839597e+05 -1.465917e+05   
## 2076 2077 2078 2079 2080   
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## 2081 2082 2083 2084 2085   
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## 2086 2087 2088 2089 2090   
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## 2091 2092 2093 2094 2095   
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## 2096 2097 2098 2099 2100   
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## 2101 2102 2103 2104 2105   
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## 2106 2107 2108 2109 2110   
## -1.379537e+05 -1.359617e+05 -1.757454e+05 8.107042e+04 -2.106212e+04   
## 2111 2112 2113 2114 2115   
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## 2411 2412 2413 2414 2415   
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## -2.526634e+05 6.193051e+05 1.222099e+05 1.324900e+04 -1.264589e+05   
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## 2471 2472 2473 2474 2475   
## -1.136741e+04 -1.056807e+05 -1.055392e+05 -2.253222e+05 3.269417e+05   
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## 5.435794e+04 1.323858e+04 6.769248e+03 -1.572840e+05 -1.194665e+05   
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## -1.354697e+05 -1.415681e+05 -2.007194e+05 -2.148835e+05 -3.424621e+05   
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## 12776 12777 12778 12779 12780   
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## 12781 12782 12783 12784 12785   
## 1.606273e+05 -6.019524e+04 -5.442374e+04 3.116166e+05 3.021136e+05   
## 12786 12787 12788 12789 12790   
## 5.714336e+05 5.162549e+05 2.386641e+05 -6.849321e+04 6.331597e+05   
## 12791 12792 12793 12794 12795   
## 1.636606e+05 9.643490e+04 7.933827e+04 5.140061e+04 -2.474371e+04   
## 12796 12797 12798 12799 12800   
## -1.370099e+05 7.816052e+05 -9.450203e+04 -7.595740e+04 -5.029388e+05   
## 12801 12802 12803 12804 12805   
## 8.506084e+05 7.409309e+05 2.657284e+05 7.262704e+05 1.817910e+05   
## 12806 12807 12808 12809 12810   
## 5.370169e+04 2.062547e+04 1.012756e+06 4.833232e+05 3.546687e+05   
## 12811 12812 12813 12814 12815   
## -2.148951e+05 2.827744e+05 2.532250e+05 9.451582e+02 -1.479571e+05   
## 12816 12817 12818 12819 12820   
## 5.500259e+05 2.476263e+05 2.476263e+05 8.792363e+04 -6.650872e+03   
## 12821 12822 12823 12824 12825   
## 4.573066e+04 3.900907e+04 1.348296e+04 -1.648034e+04 -1.460762e+05   
## 12826 12827 12828 12829 12830   
## 4.779631e+05 2.772293e+05 7.184337e+04 -1.674111e+05 2.416261e+05   
## 12831 12832 12833 12834 12835   
## 2.199835e+05 3.430708e+04 1.289155e+04 8.288942e+05 7.464324e+05   
## 12836 12837 12838 12839 12840   
## -1.269684e+05 3.578973e+05 2.087762e+05 -1.641651e+04 -9.943565e+04   
## 12841 12842 12843 12844 12845   
## 2.531611e+05 3.585809e+04 -4.066317e+05 1.919731e+05 1.055370e+04   
## 12846 12847 12848 12849 12850   
## -5.612491e+04 -1.118616e+05 -1.490553e+05 4.184019e+05 -5.700301e+04   
## 12851 12852 12853 12854 12855   
## -5.700301e+04 1.621248e+05 -8.679720e+04 1.068118e+06 5.980406e+04   
## 12856 12857 12858 12859 12860   
## -4.624575e+05 3.412552e+04 1.635985e+05 1.809641e+05 1.783491e+05   
## 12861 12862 12863 12864 12865   
## 1.524392e+05 7.835301e+04 -2.099093e+04 1.866983e+05 -1.936740e+05

residuals\_var2 <- residuals(df\_var2)  
  
residuals\_var2

## 1 2 3 4 5   
## -1.231898e+04 -7.695384e+04 -4.483531e+04 -8.581052e+04 -2.048482e+05   
## 6 7 8 9 10   
## -5.382466e+05 2.976232e+05 2.269596e+05 5.790710e+04 1.557084e+03   
## 11 12 13 14 15   
## -2.277078e+04 -1.909589e+05 -8.012870e+04 -8.964951e+05 7.129252e+04   
## 16 17 18 19 20   
## -2.103001e+05 4.171721e+04 -1.301271e+05 -2.861553e+04 -2.290003e+05   
## 21 22 23 24 25   
## -2.070616e+05 -2.254691e+05 1.176559e+05 -2.331367e+05 -5.873189e+05   
## 26 27 28 29 30   
## 6.994832e+05 -9.765765e+03 -6.205573e+04 -2.492127e+05 -1.961722e+05   
## 31 32 33 34 35   
## -3.202262e+05 -2.283807e+05 -1.520107e+05 2.282366e+05 1.801599e+05   
## 36 37 38 39 40   
## 2.298751e+04 -1.951984e+05 -3.844015e+04 -1.025080e+03 -1.254117e+05   
## 41 42 43 44 45   
## -2.256977e+05 -4.733007e+04 -1.422882e+05 -2.579595e+05 -1.750807e+05   
## 46 47 48 49 50   
## -3.602853e+04 7.726808e+05 2.550847e+04 -7.840937e+04 -5.056539e+04   
## 51 52 53 54 55   
## -3.431627e+04 3.266612e+04 -8.011740e+04 -1.291177e+05 -2.358879e+05   
## 56 57 58 59 60   
## -2.767934e+05 -1.116475e+05 -2.073419e+05 -2.478223e+05 3.293557e+05   
## 61 62 63 64 65   
## 1.917996e+05 2.137362e+05 3.856324e+04 -2.539942e+04 -2.929184e+05   
## 66 67 68 69 70   
## 1.201174e+05 1.904375e+05 -1.923748e+05 -1.209508e+05 -1.774275e+05   
## 71 72 73 74 75   
## -3.787796e+05 1.232981e+06 3.508220e+05 -2.747117e+05 -3.154897e+05   
## 76 77 78 79 80   
## -1.772917e+05 -1.446203e+05 -1.889054e+05 5.239825e+03 -1.943986e+05   
## 81 82 83 84 85   
## 2.794875e+05 -3.602885e+04 -6.928419e+04 -9.663590e+04 3.212115e+04   
## 86 87 88 89 90   
## -7.245889e+04 4.497412e+04 -1.509795e+05 -6.876868e+04 1.533277e+05   
## 91 92 93 94 95   
## 1.041074e+05 1.725819e+05 4.798611e+04 -1.648523e+05 -1.455334e+05   
## 96 97 98 99 100   
## -6.118730e+04 8.903665e+04 1.094643e+05 -1.308673e+05 -1.297492e+05   
## 101 102 103 104 105   
## -2.030580e+05 -2.365447e+05 -2.921945e+05 -1.695539e+05 -1.702856e+05   
## 106 107 108 109 110   
## -3.049242e+05 -2.071305e+05 1.333851e+06 -6.268176e+03 -9.225997e+04   
## 111 112 113 114 115   
## -2.088274e+05 -6.739277e+04 -2.213814e+05 -3.361158e+05 7.204063e+05   
## 116 117 118 119 120   
## 4.532148e+05 -3.990826e+04 -2.344659e+05 -2.949192e+05 -1.014523e+05   
## 121 122 123 124 125   
## -1.305894e+05 7.794523e+04 -8.555113e+04 2.592101e+05 1.521080e+05   
## 126 127 128 129 130   
## -1.497966e+04 -3.163269e+05 6.609028e+04 -1.312102e+05 7.850651e+04   
## 131 132 133 134 135   
## -2.483525e+05 -4.976619e+04 8.092886e+04 -7.766807e+04 -1.949947e+05   
## 136 137 138 139 140   
## 1.214984e+05 1.179570e+05 1.208861e+05 -6.327499e+03 -3.230073e+04   
## 141 142 143 144 145   
## -3.871408e+04 -1.992127e+05 -1.056573e+05 -2.308048e+04 2.608453e+04   
## 146 147 148 149 150   
## -7.771685e+04 -1.639337e+05 -2.731555e+05 -1.256472e+05 2.498619e+04   
## 151 152 153 154 155   
## -1.682279e+05 -1.739694e+05 -1.639337e+05 -1.588610e+05 -2.354871e+05   
## 156 157 158 159 160   
## -8.036592e+04 -1.150179e+05 -1.453574e+05 -2.534989e+05 -5.325808e+05   
## 161 162 163 164 165   
## 7.418948e+04 1.782299e+05 1.917996e+05 -5.539657e+04 -1.277942e+05   
## 166 167 168 169 170   
## -1.219337e+05 -1.828746e+05 -9.994036e+04 -2.318923e+05 -2.324691e+05   
## 171 172 173 174 175   
## -2.050243e+05 -4.113712e+05 -6.719877e+04 -6.069049e+04 -1.756007e+05   
## 176 177 178 179 180   
## -2.343146e+05 -8.844321e+04 -4.130574e+05 -2.751663e+04 -5.104961e+04   
## 181 182 183 184 185   
## -1.520353e+05 -5.519061e+04 -2.164683e+05 4.342363e+05 2.123434e+05   
## 186 187 188 189 190   
## -1.234320e+05 -3.980324e+03 -2.482256e+05 -1.114361e+05 -1.018638e+05   
## 191 192 193 194 195   
## 1.329973e+05 -2.472562e+04 -8.825430e+04 -2.744230e+05 -3.170676e+05   
## 196 197 198 199 200   
## 6.447891e+05 7.463545e+04 5.794035e+04 -1.298533e+05 -2.184597e+05   
## 201 202 203 204 205   
## -2.482328e+05 6.091663e+03 -5.580088e+04 -2.207025e+05 -7.136070e+03   
## 206 207 208 209 210   
## -2.588945e+05 -3.356677e+05 5.009223e+05 -8.772178e+04 -1.174570e+05   
## 211 212 213 214 215   
## 3.427619e+05 -1.225017e+05 -1.825153e+05 6.653994e+05 -1.378969e+05   
## 216 217 218 219 220   
## 6.387082e+03 7.712191e+03 -6.663037e+04 -5.966257e+04 -5.105748e+04   
## 221 222 223 224 225   
## -1.219288e+05 -5.080497e+05 2.677608e+05 -3.350787e+04 -6.913451e+04   
## 226 227 228 229 230   
## -2.355481e+05 -2.493713e+04 5.961745e+03 -1.675066e+05 1.907514e+05   
## 231 232 233 234 235   
## 4.375424e+04 -9.925487e+04 -5.020571e+04 -4.611454e+04 -8.658080e+04   
## 236 237 238 239 240   
## 1.112778e+05 -2.444147e+05 -3.217871e+05 8.638035e+05 2.897751e+05   
## 241 242 243 244 245   
## 1.248762e+05 -5.464499e+04 -1.603477e+05 -7.957186e+04 9.154834e+05   
## 246 247 248 249 250   
## 1.236113e+06 3.887178e+04 3.779424e+04 -1.229679e+05 -6.347086e+03   
## 251 252 253 254 255   
## -1.091542e+04 -2.080481e+05 -4.603933e+05 3.331023e+05 -1.255717e+05   
## 256 257 258 259 260   
## -4.295838e+04 -4.643941e+04 -2.365733e+05 -2.834481e+05 -2.315655e+04   
## 261 262 263 264 265   
## -1.609100e+05 2.478468e+05 9.827390e+03 3.894932e+04 -2.004235e+04   
## 266 267 268 269 270   
## 7.310244e+04 -5.876072e+04 -7.344597e+04 -1.575943e+05 -3.237527e+05   
## 271 272 273 274 275   
## 1.656916e+05 -7.963564e+04 -3.174271e+04 1.898010e+05 -2.922279e+05   
## 276 277 278 279 280   
## -1.782110e+05 -3.187442e+05 -3.416012e+05 -1.652140e+05 2.269238e+04   
## 281 282 283 284 285   
## 4.138090e+04 -4.640267e+04 -7.491742e+04 -3.175078e+04 -1.041883e+05   
## 286 287 288 289 290   
## -1.004401e+05 -6.258645e+05 1.267685e+05 1.089411e+05 -9.450309e+04   
## 291 292 293 294 295   
## -1.038352e+05 -1.222235e+05 -1.842417e+05 -2.625481e+05 -6.101966e+05   
## 296 297 298 299 300   
## 1.204139e+05 -9.726044e+03 -2.938883e+04 -1.018104e+05 -8.542519e+05   
## 301 302 303 304 305   
## 2.212562e+05 -1.378363e+05 -8.897379e+04 -6.721211e+04 -5.715907e+04   
## 306 307 308 309 310   
## -9.963833e+03 -1.293457e+05 3.057001e+04 2.498619e+04 -9.579378e+04   
## 311 312 313 314 315   
## -9.579378e+04 -1.906060e+05 7.563173e+05 6.658176e+04 1.171173e+05   
## 316 317 318 319 320   
## 4.785807e+03 2.023512e+04 -1.068840e+05 -1.070616e+05 -1.261280e+05   
## 321 322 323 324 325   
## -1.274081e+05 -3.231850e+05 5.616024e+04 1.176505e+05 -1.858747e+05   
## 326 327 328 329 330   
## 1.280839e+05 1.313774e+05 1.373150e+05 4.941861e+04 -9.404738e+04   
## 331 332 333 334 335   
## -5.709212e+04 -7.808490e+04 -1.416719e+05 -5.353649e+04 -8.853065e+04   
## 336 337 338 339 340   
## -2.106742e+05 -1.928515e+05 -8.302604e+04 -3.206755e+05 -1.023147e+05   
## 341 342 343 344 345   
## -4.942914e+05 -1.081513e+06 -2.489929e+04 -1.254267e+06 -1.254267e+06   
## 346 347 348 349 350   
## 1.148077e+05 5.748260e+04 -4.611454e+04 -1.245926e+05 -2.981480e+05   
## 351 352 353 354 355   
## -1.011758e+05 -1.548969e+05 3.014951e+05 2.006109e+05 1.199991e+04   
## 356 357 358 359 360   
## -1.515841e+05 1.140395e+05 -2.211454e+05 -7.827098e+05 -4.071844e+04   
## 361 362 363 364 365   
## -3.698917e+04 -1.941339e+05 -5.907362e+04 -1.013431e+05 7.563173e+05   
## 366 367 368 369 370   
## -1.952802e+04 -4.746440e+04 -2.693095e+05 -2.987733e+05 -1.115962e+05   
## 371 372 373 374 375   
## -3.314966e+05 -9.861292e+04 -6.394059e+05 -3.579717e+04 -5.193623e+05   
## 376 377 378 379 380   
## 6.346980e+05 2.688701e+05 -9.348035e+04 -1.524867e+05 4.100846e+04   
## 381 382 383 384 385   
## -2.542608e+05 -1.532332e+05 -2.760238e+05 -2.914898e+05 1.744648e+06   
## 386 387 388 389 390   
## 4.445924e+05 -1.003951e+05 -2.362451e+05 -1.995719e+05 -3.347687e+04   
## 391 392 393 394 395   
## -8.401794e+04 -1.535007e+04 -1.553177e+05 -2.688584e+05 -2.731556e+05   
## 396 397 398 399 400   
## 1.252571e+06 7.879763e+04 -2.986277e+04 -6.159591e+04 7.523493e+04   
## 401 402 403 404 405   
## -1.377886e+05 -2.413888e+04 -2.603295e+04 -9.564708e+04 -1.470359e+05   
## 406 407 408 409 410   
## -1.700376e+05 7.756961e+04 -7.361740e+04 -5.537922e+04 -1.150458e+05   
## 411 412 413 414 415   
## -9.263073e+04 -2.748353e+05 -2.737001e+05 -1.155426e+05 -5.346555e+05   
## 416 417 418 419 420   
## 4.224590e+05 4.596625e+05 2.961490e+05 2.311424e+04 1.693788e+03   
## 421 422 423 424 425   
## -1.370325e+05 -2.393566e+04 -3.855079e+04 -5.786917e+03 8.531164e+04   
## 426 427 428 429 430   
## -1.432719e+05 -2.000792e+05 -2.891514e+05 1.822922e+04 3.748079e+05   
## 431 432 433 434 435   
## 9.317099e+04 1.308400e+05 -6.398329e+04 -1.217347e+05 -5.869126e+04   
## 436 437 438 439 440   
## -2.461158e+05 -9.634021e+04 -7.709193e+04 -1.788521e+05 -4.383661e+04   
## 441 442 443 444 445   
## -8.535420e+04 -1.968048e+05 -1.526906e+05 3.339865e+05 9.374115e+04   
## 446 447 448 449 450   
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## 451 452 453 454 455   
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## 456 457 458 459 460   
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## 461 462 463 464 465   
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## 466 467 468 469 470   
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## 471 472 473 474 475   
## -2.990613e+04 -6.869800e+04 -3.233093e+05 -3.188283e+05 1.057156e+06   
## 476 477 478 479 480   
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## 481 482 483 484 485   
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## 486 487 488 489 490   
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## 491 492 493 494 495   
## -2.662523e+05 1.108883e+03 -2.023844e+04 -9.391846e+04 -1.261906e+05   
## 496 497 498 499 500   
## 4.317316e+04 -2.211820e+05 -2.982633e+05 -3.311854e+05 -1.534546e+05   
## 501 502 503 504 505   
## 1.973314e+04 -5.308713e+04 -1.041317e+05 -5.418086e+04 -1.131463e+05   
## 506 507 508 509 510   
## -6.990015e+04 -8.500110e+04 -7.845344e+05 9.491079e+04 9.429821e+04   
## 511 512 513 514 515   
## 4.021295e+04 -2.810002e+04 1.678315e+05 6.567315e+04 -4.500021e+04   
## 516 517 518 519 520   
## -1.839398e+05 -3.180989e+05 -2.361850e+05 7.900996e+05 3.611230e+04   
## 521 522 523 524 525   
## 4.480098e+04 -5.997651e+02 1.458408e+04 -1.544511e+04 -7.817337e+04   
## 526 527 528 529 530   
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## 531 532 533 534 535   
## 1.696059e+05 -1.724691e+05 -3.552117e+04 -1.037846e+05 1.243864e+05   
## 536 537 538 539 540   
## -6.549464e+03 -2.492698e+05 -6.222919e+04 -1.294834e+05 -2.740884e+05   
## 541 542 543 544 545   
## -1.259947e+05 -1.519728e+05 5.112697e+04 4.675198e+04 2.163467e+04   
## 546 547 548 549 550   
## -5.701058e+04 -2.283680e+04 -7.511215e+04 2.945050e+05 1.312582e+05   
## 551 552 553 554 555   
## 1.919567e+04 -1.383127e+05 -2.158368e+05 -1.293158e+05 -1.896835e+05   
## 556 557 558 559 560   
## -1.337367e+05 2.507065e+03 -3.518669e+05 -3.924914e+05 -2.580944e+05   
## 561 562 563 564 565   
## 1.037406e+05 9.523761e+03 9.614553e+04 3.779623e+04 7.437856e+04   
## 566 567 568 569 570   
## -5.043383e+04 -2.541697e+05 -1.014372e+05 3.306236e+05 3.295046e+04   
## 571 572 573 574 575   
## -1.609331e+05 -5.384163e+04 -1.020179e+05 -2.255148e+05 -1.696377e+05   
## 576 577 578 579 580   
## -6.493429e+05 -1.374642e+05 1.684264e+05 9.553104e+04 -4.492812e+03   
## 581 582 583 584 585   
## 1.065449e+04 -1.213256e+05 -1.213256e+05 -1.296799e+05 -3.738462e+04   
## 586 587 588 589 590   
## 4.542885e+04 -1.231734e+05 -7.634961e+04 -1.599096e+05 -3.167043e+05   
## 591 592 593 594 595   
## -4.169239e+05 1.253854e+05 8.533912e+04 -2.463615e+05 4.776406e+05   
## 596 597 598 599 600   
## 1.183230e+05 -8.419233e+04 -3.669826e+04 8.946367e+03 -1.172726e+05   
## 601 602 603 604 605   
## 9.245481e+05 2.423025e+05 1.531041e+05 4.315557e+04 3.813140e+04   
## 606 607 608 609 610   
## -5.949915e+04 -6.783642e+03 5.521591e+04 -2.869126e+04 -2.546514e+05   
## 611 612 613 614 615   
## -6.206321e+04 1.108196e+06 -1.372792e+04 -1.550763e+05 -1.767546e+04   
## 616 617 618 619 620   
## 8.942788e+03 -9.286508e+04 -2.653175e+05 -6.554218e+04 -1.006288e+05   
## 621 622 623 624 625   
## -7.926426e+04 -7.942153e+04 -8.641056e+04 -8.745499e+04 8.715161e+04   
## 626 627 628 629 630   
## 4.666601e+04 -3.406550e+05 -3.603606e+05 3.280204e+04 3.857540e+05   
## 631 632 633 634 635   
## 9.836142e+04 1.054142e+05 -2.749336e+04 2.927085e+04 -1.340897e+05   
## 636 637 638 639 640   
## -3.135579e+05 5.482937e+05 3.064725e+05 -7.870499e+04 -1.078749e+05   
## 641 642 643 644 645   
## -1.642310e+05 -3.216079e+04 2.576832e+02 -8.707136e+04 1.693964e+04   
## 646 647 648 649 650   
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## 1346 1347 1348 1349 1350   
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## 1866 1867 1868 1869 1870   
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## 2021 2022 2023 2024 2025   
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## 2026 2027 2028 2029 2030   
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## 2046 2047 2048 2049 2050   
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## 2056 2057 2058 2059 2060   
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## 2061 2062 2063 2064 2065   
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## 2066 2067 2068 2069 2070   
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## 2076 2077 2078 2079 2080   
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## 2081 2082 2083 2084 2085   
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## 1.345020e+05 1.371336e+05 1.384108e+05 -6.431540e+04 -1.033926e+05   
## 2091 2092 2093 2094 2095   
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## 12311 12312 12313 12314 12315   
## -5.066676e+04 4.029438e+04 1.787216e+05 -7.147616e+04 1.830831e+05   
## 12316 12317 12318 12319 12320   
## 8.574953e+04 2.838760e+05 1.493235e+05 2.447765e+04 -4.482728e+04   
## 12321 12322 12323 12324 12325   
## -3.064407e+05 2.243137e+05 -3.829054e+04 1.956913e+04 -6.261665e+04   
## 12326 12327 12328 12329 12330   
## -3.481602e+04 1.682068e+05 2.113347e+05 5.685836e+04 1.681493e+05   
## 12331 12332 12333 12334 12335   
## -5.265492e+04 -6.738051e+04 3.546308e+04 1.638591e+04 -2.238231e+05   
## 12336 12337 12338 12339 12340   
## 4.100111e+05 2.107281e+05 1.145573e+05 3.486126e+04 1.797843e+05   
## 12341 12342 12343 12344 12345   
## -2.339578e+04 4.075039e+04 3.229383e+04 -3.417376e+05 8.268652e+04   
## 12346 12347 12348 12349 12350   
## 3.286878e+05 2.073694e+04 -1.506742e+05 8.121814e+04 -8.948257e+04   
## 12351 12352 12353 12354 12355   
## 5.188501e+05 3.699392e+05 1.573021e+05 7.909230e+04 -1.708547e+05   
## 12356 12357 12358 12359 12360   
## -1.383734e+05 -2.072683e+05 -1.662547e+05 3.820111e+05 3.999000e+05   
## 12361 12362 12363 12364 12365   
## 2.623028e+05 3.143088e+05 2.546052e+05 9.863617e+04 4.368880e+04   
## 12366 12367 12368 12369 12370   
## 1.075511e+05 5.013601e+04 3.287803e+04 -1.034029e+05 8.207350e+05   
## 12371 12372 12373 12374 12375   
## 6.077161e+05 1.748238e+05 1.215495e+05 1.579270e+05 1.166714e+05   
## 12376 12377 12378 12379 12380   
## 7.246018e+04 -4.022809e+04 8.075117e+04 1.432995e+05 -1.537934e+05   
## 12381 12382 12383 12384 12385   
## -1.473460e+05 -4.724324e+05 3.826056e+05 3.247464e+05 3.331551e+04   
## 12386 12387 12388 12389 12390   
## 4.552796e+04 3.013850e+05 1.640882e+05 1.970510e+05 3.279906e+05   
## 12391 12392 12393 12394 12395   
## 5.701375e+04 6.317024e+05 3.332026e+05 1.917981e+05 4.341602e+05   
## 12396 12397 12398 12399 12400   
## 1.097997e+05 -6.101517e+04 3.580859e+05 -3.391024e+05 2.680225e+05   
## 12401 12402 12403 12404 12405   
## 2.778445e+05 1.142796e+05 4.227690e+05 2.798916e+05 2.702531e+05   
## 12406 12407 12408 12409 12410   
## 2.514356e+05 9.000458e+04 1.717776e+05 4.547862e+04 2.448330e+05   
## 12411 12412 12413 12414 12415   
## 1.851210e+05 1.845132e+05 1.197779e+03 -3.323756e+05 7.547016e+05   
## 12416 12417 12418 12419 12420   
## 4.129711e+05 -1.652295e+04 -3.274175e+04 7.076979e+05 3.324864e+05   
## 12421 12422 12423 12424 12425   
## 2.211521e+05 2.316751e+05 5.249454e+04 2.279274e+04 2.026168e+04   
## 12426 12427 12428 12429 12430   
## 2.093572e+04 1.525412e+05 7.076979e+05 4.284030e+05 8.235711e+04   
## 12431 12432 12433 12434 12435   
## -1.883311e+05 5.425308e+03 3.682615e+05 3.073011e+05 2.650112e+05   
## 12436 12437 12438 12439 12440   
## 1.122136e+05 -1.442909e+05 9.145802e+05 2.881451e+05 5.802512e+04   
## 12441 12442 12443 12444 12445   
## -3.918749e+04 1.547615e+05 1.124540e+05 9.987936e+04 3.494450e+05   
## 12446 12447 12448 12449 12450   
## 2.768171e+05 9.279479e+03 -6.865638e+04 -3.379421e+05 1.572405e+05   
## 12451 12452 12453 12454 12455   
## 9.909561e+04 2.105774e+05 1.726701e+05 1.175084e+05 -2.328173e+05   
## 12456 12457 12458 12459 12460   
## -2.487024e+05 2.426320e+05 8.431623e+04 1.835640e+05 5.120470e+04   
## 12461 12462 12463 12464 12465   
## 1.982097e+05 1.661560e+05 8.717637e+04 -4.168367e+05 7.271478e+05   
## 12466 12467 12468 12469 12470   
## 1.794367e+05 -8.503519e+04 1.520009e+05 4.940718e+04 1.192826e+05   
## 12471 12472 12473 12474 12475   
## 2.285694e+04 1.897627e+06 3.993735e+05 1.753568e+05 7.353100e+04   
## 12476 12477 12478 12479 12480   
## -7.706608e+04 9.095199e+05 5.641236e+05 3.620419e+05 1.602133e+05   
## 12481 12482 12483 12484 12485   
## 3.038727e+04 1.201820e+05 5.986378e+04 3.253815e+05 5.774904e+04   
## 12486 12487 12488 12489 12490   
## 1.221349e+05 1.965153e+06 3.592524e+05 2.868527e+05 1.849687e+05   
## 12491 12492 12493 12494 12495   
## -4.519001e+05 8.265015e+04 4.535979e+05 1.231649e+05 -2.800599e+05   
## 12496 12497 12498 12499 12500   
## 1.725089e+05 2.173674e+05 2.173674e+05 -1.188944e+05 4.495386e+04   
## 12501 12502 12503 12504 12505   
## 2.743291e+04 1.218005e+04 -1.530152e+05 1.799509e+05 3.869428e+04   
## 12506 12507 12508 12509 12510   
## 4.001214e+04 1.287924e+05 -1.301620e+05 -4.750993e+05 1.491920e+04   
## 12511 12512 12513 12514 12515   
## -7.846912e+04 -7.054148e+05 6.187642e+05 2.640497e+05 2.378461e+05   
## 12516 12517 12518 12519 12520   
## 1.577283e+05 1.643392e+05 4.888260e+04 4.766432e+04 1.224843e+05   
## 12521 12522 12523 12524 12525   
## -2.494001e+05 1.217271e+05 1.267764e+05 -1.378971e+04 1.359964e+05   
## 12526 12527 12528 12529 12530   
## 3.453904e+05 4.369594e+04 8.819242e+05 -1.400977e+05 2.679152e+05   
## 12531 12532 12533 12534 12535   
## 8.507603e+04 1.124540e+05 2.581791e+05 -1.613308e+05 9.595594e+03   
## 12536 12537 12538 12539 12540   
## -2.785330e+05 -2.785330e+05 4.422386e+05 -5.661057e+03 1.401364e+05   
## 12541 12542 12543 12544 12545   
## -1.134086e+05 2.285187e+05 9.842519e+05 1.637776e+05 -4.634325e+03   
## 12546 12547 12548 12549 12550   
## -2.798438e+05 3.796045e+05 1.689779e+05 -2.071701e+05 1.692124e+04   
## 12551 12552 12553 12554 12555   
## -1.096679e+05 -1.632952e+05 3.038681e+05 2.502196e+05 1.373401e+05   
## 12556 12557 12558 12559 12560   
## 2.351271e+05 -4.812767e+03 6.971539e+04 -3.934235e+04 5.769714e+04   
## 12561 12562 12563 12564 12565   
## -1.616933e+05 -1.069055e+04 1.522878e+05 1.170981e+05 1.523476e+04   
## 12566 12567 12568 12569 12570   
## -2.145782e+05 2.990893e+05 1.734962e+05 2.252616e+05 8.449569e+04   
## 12571 12572 12573 12574 12575   
## 5.835292e+04 4.143163e+04 5.966135e+05 2.311538e+05 2.407064e+05   
## 12576 12577 12578 12579 12580   
## 1.589839e+05 1.731097e+06 3.005349e+05 3.349598e+05 1.879764e+05   
## 12581 12582 12583 12584 12585   
## 1.706988e+05 3.386374e+06 2.116332e+05 1.688395e+05 4.297793e+05   
## 12586 12587 12588 12589 12590   
## 8.124935e+04 -1.675493e+05 1.147024e+05 1.521081e+05 5.253978e+04   
## 12591 12592 12593 12594 12595   
## 2.508701e+04 -3.500679e+04 -3.314042e+05 6.291270e+05 8.552809e+04   
## 12596 12597 12598 12599 12600   
## 7.331165e+04 1.223118e+05 4.637870e+03 6.818641e+05 3.235444e+05   
## 12601 12602 12603 12604 12605   
## 8.161303e+04 9.143671e+04 -9.820798e+04 5.513866e+04 -2.451262e+05   
## 12606 12607 12608 12609 12610   
## 3.684550e+05 3.088618e+05 2.521231e+05 1.725147e+05 2.442113e+05   
## 12611 12612 12613 12614 12615   
## 6.238446e+04 -2.478546e+04 4.432243e+04 1.290121e+05 1.860762e+04   
## 12616 12617 12618 12619 12620   
## 3.721337e+05 1.461158e+05 1.409021e+05 1.006088e+05 5.914178e+05   
## 12621 12622 12623 12624 12625   
## 3.246961e+02 1.407222e+05 1.212512e+05 1.542641e+04 6.321093e+05   
## 12626 12627 12628 12629 12630   
## 2.421124e+05 1.149259e+05 1.746866e+05 4.705366e+05 1.828623e+05   
## 12631 12632 12633 12634 12635   
## 1.402179e+05 6.114834e+05 1.304022e+05 2.093239e+05 2.353426e+04   
## 12636 12637 12638 12639 12640   
## -7.758785e+03 4.199264e+04 2.513536e+04 -1.064597e+05 1.882631e+03   
## 12641 12642 12643 12644 12645   
## -1.804181e+04 -7.366956e+04 3.025104e+06 3.935732e+05 2.715445e+05   
## 12646 12647 12648 12649 12650   
## 7.529626e+04 1.014282e+05 8.659823e+04 2.557444e+05 2.710101e+05   
## 12651 12652 12653 12654 12655   
## 9.239781e+04 1.348638e+05 -8.625211e+04 -3.782734e+04 5.615075e+05   
## 12656 12657 12658 12659 12660   
## 5.101549e+05 1.421641e+05 -1.570980e+04 1.219873e+05 -1.367757e+04   
## 12661 12662 12663 12664 12665   
## 6.610852e+05 4.745825e+05 2.019396e+05 -1.706481e+05 -1.258253e+05   
## 12666 12667 12668 12669 12670   
## 2.619823e+04 6.300849e+04 -1.256406e+05 -1.672170e+05 2.003819e+05   
## 12671 12672 12673 12674 12675   
## 2.417619e+05 1.995380e+05 6.938505e+05 1.577001e+05 -2.925964e+04   
## 12676 12677 12678 12679 12680   
## -1.333258e+05 2.468067e+04 2.621756e+05 3.023301e+05 2.168559e+05   
## 12681 12682 12683 12684 12685   
## -2.163308e+05 4.045989e+05 1.408097e+05 -1.283436e+05 -1.532144e+05   
## 12686 12687 12688 12689 12690   
## -5.940472e+05 7.607105e+05 4.250111e+05 3.650106e+05 4.189827e+05   
## 12691 12692 12693 12694 12695   
## 2.152255e+05 -1.146605e+05 -9.254813e+04 3.791783e+05 2.762512e+05   
## 12696 12697 12698 12699 12700   
## 1.065896e+05 5.803241e+04 -3.036435e+05 3.442654e+05 3.581195e+05   
## 12701 12702 12703 12704 12705   
## 2.144204e+05 3.379381e+04 -7.349318e+04 -1.734897e+05 4.530835e+04   
## 12706 12707 12708 12709 12710   
## 8.095176e+05 4.108418e+05 2.355671e+05 8.709717e+04 2.520144e+05   
## 12711 12712 12713 12714 12715   
## -5.645777e+04 1.529877e+05 1.988199e+05 3.429550e+05 2.355646e+05   
## 12716 12717 12718 12719 12720   
## 2.741744e+05 1.416993e+05 8.925189e+04 -1.448352e+04 -2.011541e+05   
## 12721 12722 12723 12724 12725   
## 4.105632e+05 1.977608e+05 2.253088e+04 -8.875178e+03 1.264906e+05   
## 12726 12727 12728 12729 12730   
## 1.281229e+05 -2.084638e+05 7.027729e+05 1.968476e+05 5.874050e+04   
## 12731 12732 12733 12734 12735   
## 2.324991e+05 1.445669e+05 1.020022e+05 -6.179845e+04 6.664189e+05   
## 12736 12737 12738 12739 12740   
## 3.325044e+05 2.428872e+05 2.377305e+04 -1.604911e+04 4.928225e+05   
## 12741 12742 12743 12744 12745   
## 1.479185e+05 1.217242e+05 3.490243e+04 -3.493583e+05 2.289839e+05   
## 12746 12747 12748 12749 12750   
## -4.643612e+05 3.329190e+05 -7.359442e+04 -2.760236e+05 6.158558e+05   
## 12751 12752 12753 12754 12755   
## 3.570190e+05 2.274338e+05 1.497935e+05 1.374043e+05 -1.719562e+05   
## 12756 12757 12758 12759 12760   
## 7.169639e+04 -2.987957e+05 4.002116e+05 1.021797e+06 3.289472e+05   
## 12761 12762 12763 12764 12765   
## 4.177069e+05 5.961236e+04 -9.620110e+04 2.014617e+06 2.659530e+05   
## 12766 12767 12768 12769 12770   
## 1.280032e+04 5.259866e+05 1.003871e+05 -1.280483e+04 -3.932535e+05   
## 12771 12772 12773 12774 12775   
## 9.204319e+04 1.706735e+05 2.192767e+05 1.409351e+05 5.801129e+04   
## 12776 12777 12778 12779 12780   
## 8.275954e+04 8.468411e+02 -1.694001e+05 4.386688e+05 1.392297e+05   
## 12781 12782 12783 12784 12785   
## 1.784803e+05 2.018437e+05 -1.163292e+05 2.366057e+05 2.510074e+05   
## 12786 12787 12788 12789 12790   
## 4.429276e+05 4.114437e+05 1.524142e+05 3.549427e+05 4.933178e+05   
## 12791 12792 12793 12794 12795   
## 7.178270e+04 2.335672e+05 2.225335e+05 4.101464e+04 -1.342493e+05   
## 12796 12797 12798 12799 12800   
## -7.162184e+03 6.411626e+05 -2.580483e+04 -1.436555e+05 -1.529410e+04   
## 12801 12802 12803 12804 12805   
## 7.099738e+05 6.004090e+05 3.023236e+05 5.858416e+05 1.721478e+05   
## 12806 12807 12808 12809 12810   
## 3.300051e+04 1.116880e+05 9.540812e+05 4.842011e+05 4.037419e+05   
## 12811 12812 12813 12814 12815   
## -7.708853e+04 3.906349e+05 1.727762e+05 1.038533e+05 -9.082297e+03   
## 12816 12817 12818 12819 12820   
## 1.510418e+05 3.376280e+05 3.376280e+05 9.675578e+04 -7.487518e+04   
## 12821 12822 12823 12824 12825   
## 5.301752e+04 1.535015e+05 -1.258253e+05 1.397339e+05 1.651190e+04   
## 12826 12827 12828 12829 12830   
## 3.380726e+05 1.964712e+05 1.734770e+05 -2.482129e+05 2.191584e+05   
## 12831 12832 12833 12834 12835   
## 1.266524e+05 1.007700e+05 1.870341e+05 7.468233e+05 5.734294e+05   
## 12836 12837 12838 12839 12840   
## -7.616672e+04 2.476588e+05 1.048074e+05 1.873183e+05 -1.290506e+04   
## 12841 12842 12843 12844 12845   
## 1.964429e+05 4.750037e+04 -4.051650e+05 1.292588e+05 1.014650e+05   
## 12846 12847 12848 12849 12850   
## -9.128414e+03 -2.156871e+05 -9.209442e+04 3.880628e+05 1.468754e+05   
## 12851 12852 12853 12854 12855   
## 1.350003e+05 2.450668e+05 -2.219682e+04 9.733776e+05 2.036101e+05   
## 12856 12857 12858 12859 12860   
## -6.011386e+05 3.303986e+04 2.639474e+05 1.523191e+05 5.668652e+04   
## 12861 12862 12863 12864 12865   
## 1.017667e+05 1.445536e+05 1.291271e+05 2.007766e+05 -7.676610e+03

#Use the appropriate function to show the sum of large residuals.  
  
residuals\_var1\_sq\_sum <- sum(residuals\_var1^2)  
  
residuals\_var2\_sq\_sum <- sum(residuals\_var2^2)  
  
#Which specific variables have large residuals (only cases that evaluate as TRUE)?  
  
residuals\_var1\_sq\_sum

## [1] 2.073377e+15

residuals\_var2\_sq\_sum

## [1] 1.912451e+15

#Investigate further by calculating the leverage, cooks distance, and covariance rations. Comment on all cases that are problematics.  
  
hats\_1 <- as.data.frame(hatvalues(df\_var1))  
hats\_2 <- as.data.frame(hatvalues(df\_var2))  
  
max(hats\_1)

## [1] 0.06217234

max(hats\_2)

## [1] 0.06346936

#Perform the necessary calculations to assess the assumption of independence and state if the condition is met or not.  
library(MASS)  
tbl = table(housing\_df$`Sale Price`, housing\_df$sq\_ft\_lot)   
tbl

##   
## 785 829 835 921 952 975 977 982 1088 1090 1091 1122 1129 1131 1132  
## 698 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
##   
## 1142 1159 1222 1240 1305 1312 1319 1320 1321 1326 1337 1343 1369 1421  
## 698 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
##   
## 1435 1496 1504 1505 1538 1552 1570 1578 1589 1717 1763 1770 1845 1858  
## 698 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
##   
## 1895 1920 1921 1983 1990 2041 2044 2123 2141 2167 2178 2191 2216 2240  
## 698 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
##   
## 2241 2242 2243 2244 2245 2250 2253 2270 2276 2296 2300 2301 2326 2330  
## 698 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 2355 2359 2370 2373 2374 2390 2408 2413 2415 2417 2430 2436 2437 2440  
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## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 2450 2456 2460 2474 2478 2479 2482 2483 2490 2505 2507 2510 2516 2520  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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##   
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##   
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 4274 4275 4276 4279 4283 4285 4286 4290 4293 4295 4298 4299 4301 4305  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 4307 4310 4313 4314 4315 4319 4320 4321 4322 4325 4327 4328 4330 4332  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 4467 4468 4469 4470 4472 4473 4479 4480 4481 4483 4485 4486 4487 4489  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
##   
## 4492 4495 4496 4497 4498 4499 4500 4501 4502 4503 4504 4505 4506 4512  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 4547 4548 4549 4550 4552 4553 4555 4556 4558 4560 4564 4565 4566 4567  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 1 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 4568 4569 4571 4572 4575 4578 4580 4581 4584 4586 4587 4589 4590 4592  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 4593 4594 4595 4596 4597 4598 4600 4601 4602 4607 4610 4614 4615 4616  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
##   
## 4617 4618 4619 4620 4622 4623 4624 4627 4628 4629 4630 4635 4637 4639  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 4660 4661 4662 4664 4665 4666 4667 4669 4670 4671 4672 4674 4675 4676  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 4677 4678 4679 4680 4681 4682 4685 4686 4687 4690 4692 4694 4695 4696  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
##   
## 4697 4698 4700 4702 4706 4708 4710 4711 4712 4713 4714 4715 4716 4718  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 4766 4767 4769 4770 4771 4773 4775 4779 4780 4781 4784 4785 4786 4791  
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## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 4792 4795 4796 4797 4800 4806 4807 4810 4812 4814 4815 4816 4818 4819  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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##   
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 6886 6888 6891 6898 6900 6903 6904 6905 6908 6911 6913 6916 6921 6923  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 6927 6930 6931 6932 6940 6943 6945 6949 6951 6952 6955 6960 6962 6964  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 7506 7507 7508 7509 7510 7511 7512 7513 7514 7515 7516 7519 7520 7521  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 7597 7598 7599 7600 7605 7607 7609 7611 7612 7613 7614 7615 7616 7617  
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## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 7639 7640 7641 7642 7647 7650 7652 7654 7659 7662 7665 7666 7668 7669  
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## 873 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 7670 7672 7673 7675 7677 7679 7683 7687 7689 7691 7694 7695 7697 7698  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 8997 8998 9000 9001 9002 9003 9004 9005 9006 9007 9008 9009 9010 9012  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 9709 9712 9714 9717 9720 9722 9726 9727 9728 9730 9735 9736 9744 9746  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 9777 9779 9780 9781 9782 9783 9785 9786 9787 9788 9790 9794 9798 9800  
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## 998 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 9894 9897 9898 9900 9901 9908 9909 9910 9911 9916 9918 9925 9932 9933  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 9985 9987 9988 9989 9990 9991 10000 10002 10004 10010 10016 10018  
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## 4059 0 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
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## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 10240 10245 10247 10249 10255 10260 10262 10266 10267 10268 10269  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 10275 10283 10284 10285 10286 10287 10290 10292 10295 10296 10300  
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## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 10304 10307 10309 10311 10314 10315 10316 10318 10320 10321 10325  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 10563 10578 10580 10600 10603 10604 10605 10607 10610 10616 10618  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 10620 10624 10625 10635 10640 10646 10666 10680 10696 10700 10703  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 10707 10709 10710 10720 10725 10728 10730 10735 10737 10741 10742  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 10744 10751 10760 10761 10780 10787 10795 10798 10799 10800 10801  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 10804 10806 10812 10820 10827 10836 10858 10860 10861 10864 10866  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 10871 10875 10878 10880 10881 10887 10890 10898 10900 10905 10909  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 10913 10920 10922 10926 10936 10938 10939 10947 10950 10956 10958  
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## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 2031 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 10959 10960 10972 10974 10982 10985 10990 10999 11000 11004 11005  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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##   
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 13467 13475 13485 13487 13489 13492 13500 13511 13519 13530 13543  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 13546 13551 13563 13565 13569 13572 13592 13600 13634 13650 13653  
## 698 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 13659 13667 13679 13680 13683 13684 13695 13727 13729 13730 13750  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 13752 13760 13768 13781 13800 13841 13843 13858 13863 13872 13874  
## 698 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 13879 13882 13899 13947 13950 13958 13960 13982 13987 14000 14023  
## 698 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 14041 14043 14062 14065 14100 14105 14125 14134 14140 14171 14176  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 14196 14212 14230 14235 14240 14246 14250 14275 14282 14288 14370  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0  
##   
## 14374 14380 14388 14391 14400 14404 14424 14432 14444 14450 14466  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 14475 14481 14504 14512 14560 14573 14633 14646 14656 14680 14701  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0  
##   
## 14707 14708 14710 14725 14764 14772 14798 14800 14810 14820 14822  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0  
##   
## 14824 14860 14880 14912 14925 14928 14940 14947 14955 15000 15010  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 15011 15016 15021 15025 15031 15056 15082 15091 15095 15118 15120  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0  
##   
## 15133 15143 15161 15165 15167 15170 15180 15188 15200 15245 15246  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0  
##   
## 15253 15266 15297 15300 15323 15336 15353 15354 15368 15400 15415  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0  
##   
## 15426 15454 15476 15479 15500 15600 15671 15681 15705 15762 15783  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0  
##   
## 15826 15857 15858 15923 15930 15990 16000 16003 16060 16094 16100  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0  
##   
## 16105 16117 16147 16190 16250 16252 16264 16284 16305 16361 16385  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0  
##   
## 16408 16411 16416 16418 16440 16451 16465 16485 16500 16510 16547  
## 698 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 16552 16557 16593 16600 16650 16660 16697 16703 16720 16740 16800  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 16821 16828 16830 16848 16864 16866 16899 16900 16902 16930 17000  
## 698 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 17062 17112 17147 17200 17220 17246 17251 17280 17291 17328 17335  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 17359 17400 17417 17485 17500 17577 17578 17600 17674 17685 17715  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 2031 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 17877 17925 17934 17935 17967 17986 17995 18000 18009 18045 18102  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 18150 18155 18188 18233 18269 18295 18297 18360 18390 18435 18485  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 1 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 18741 18792 18810 18995 19110 19163 19173 19194 19200 19290 19440  
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## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0  
##   
## 19930 19954 20000 20012 20119 20211 20241 20301 20485 20500 20510  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 20520 20558 20654 20707 20712 20794 20830 21010 21016 21043 21173  
## 698 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 21230 21260 21270 21303 21310 21314 21335 21344 21387 21483 21500  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 21526 21546 21577 21587 21740 21779 21780 21781 21783 21798 21807  
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##   
## 21819 21850 21894 21942 22029 22061 22062 22081 22087 22114 22196  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 22545 22551 22594 22650 22651 22663 22753 22782 22789 22795 22813  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 23380 23435 23477 23488 23522 23540 23618 23650 23708 23715 23787  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 23791 23880 23886 23891 23923 23929 23971 24000 24050 24101 24176  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 24191 24230 24544 24602 24604 24629 24703 24707 24728 24740 24750  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 24754 24792 24895 24904 24979 25023 25038 25039 25071 25105 25165  
## 698 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 25200 25209 25234 25272 25323 25336 25341 25377 25411 25426 25443  
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## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 25460 25500 25575 25675 25703 25777 25900 26071 26100 26133 26138  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 26151 26214 26220 26225 26236 26304 26333 26334 26355 26359 26385  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 26418 26597 26625 26629 26673 26775 26838 26880 26884 26886 26897  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 27007 27066 27081 27138 27195 27227 27269 27300 27361 27379 27386  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 27440 27441 27444 27538 27540 27590 27661 27699 27729 27790 27878  
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## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 27969 27972 28000 28001 28003 28008 28009 28010 28042 28050 28052  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 28072 28087 28091 28115 28121 28135 28183 28211 28215 28247 28251  
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## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 30649 30687 30756 30779 30872 30894 30963 30970 30973 31033 31105  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
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## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 31186 31256 31342 31468 31500 31510 31517 31520 31540 31549 31590  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 31600 31613 31631 31642 31705 31757 31796 31839 31944 32015 32035  
## 698 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 32057 32069 32077 32090 32144 32272 32300 32353 32379 32408 32417  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 32430 32445 32457 32485 32538 32565 32567 32578 32647 32663 32698  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 33171 33206 33303 33305 33541 33552 33590 33716 33743 33881 33899  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 33920 33928 33971 34062 34144 34175 34200 34290 34301 34353 34412  
## 698 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 2031 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
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## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 34423 34449 34479 34500 34528 34613 34671 34677 34754 34765 34780  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 34805 34848 34850 34908 34923 34958 34965 34999 35000 35001 35002  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 35004 35005 35006 35010 35011 35014 35015 35016 35019 35024 35025  
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## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 35028 35033 35034 35035 35042 35048 35049 35050 35053 35055 35061  
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## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 35062 35070 35071 35074 35077 35079 35081 35083 35094 35096 35100  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0  
##   
## 35107 35109 35111 35112 35116 35118 35150 35154 35160 35166 35169  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0  
##   
## 35171 35175 35185 35186 35200 35205 35208 35212 35219 35235 35239  
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## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0  
##   
## 35263 35280 35283 35284 35298 35302 35326 35340 35348 35356 35360  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0 0 0  
##   
## 35363 35366 35370 35371 35373 35377 35393 35425 35430 35447 35457  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 35465 35492 35498 35504 35520 35532 35557 35566 35575 35588 35605  
## 698 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 35610 35616 35617 35631 35634 35636 35640 35642 35673 35690 35709  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 35719 35750 35780 35808 35818 35821 35832 35835 35837 35851 35880  
## 698 0 0 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 698 0 0 0 0 0 0 0 0 0 0 0  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 36046 36048 36054 36062 36096 36100 36110 36112 36120 36158 36162  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 36167 36172 36183 36192 36276 36284 36290 36291 36301 36311 36313  
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## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 873 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2031 0 0 0 0 0 0 0 0 0 0 0  
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## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
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## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
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## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 40962 40980 40993 41048 41061 41100 41129 41147 41217 41250 41313  
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## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0 0  
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## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 41317 41327 41350 41369 41382 41458 41479 41552 41583 41616 41688  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
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## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 47883 47916 47970 48096 48144 48351 48388 48439 48509 48576 48787  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 873 0 0 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 873 0 0 0 0 0 0 0 0 0 0 0  
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## 1000 0 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
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## 5000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 71874 72288 72431 72745 72882 73386 73616 73773 73884 74052 74122  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 91114 91158 91476 91804 91911 92347 92461 92472 92500 92782 92924  
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## 4000 0 0 0 0 0 0 0 0 0 0 0  
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## 5000 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 93654 93909 94089 94889 95013 95551 95832 95924 95989 96574 96703  
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0 0  
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##   
## 99316 99752 99797 100188 100611 100623 101276 101358 101494 101847  
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## 998 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0  
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##   
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## 5150 0 0 0 0 0 0 0 0 0 0  
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##   
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## 2500 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0  
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##   
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##   
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0  
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##   
## 142876 144489 144683 145490 145926 146779 147232 148104 149846 150282  
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 4000 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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##   
## 163785 164221 165963 167270 167838 172062 172497 173804 175111 175546  
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## 2031 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0  
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##   
## 175982 176418 178160 179031 179739 180774 182516 183387 183823 185130  
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## 998 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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##   
## 186525 188614 190357 190792 191228 192099 192535 192970 193842 195148  
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## 1500 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0  
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##   
## 196020 199504 199561 199940 200376 202387 203425 204296 204732 204917  
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## 1000 0 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0  
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##   
## 206474 207345 207781 208217 208652 209088 209523 209589 209959 210394  
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## 998 0 0 0 0 0 0 0 1 0 0  
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## 1070 0 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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##   
## 210830 211266 211701 212137 212572 213008 214315 215186 215404 216057  
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## 998 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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##   
## 216493 216892 216928 217800 217882 218097 218235 218236 218439 218538  
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## 998 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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##   
## 222156 222591 223027 223462 223463 223898 224334 224442 224769 225640  
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## 998 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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##   
## 225641 226076 226097 226512 227383 227818 228690 229996 231303 231304  
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## 998 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 1 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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##   
## 235224 236384 236966 238708 239204 240451 240855 242629 243176 244807  
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## 998 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0  
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##   
## 246114 250470 253277 256132 260488 261795 265709 265716 266152 277286  
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## 998 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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## 7000 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
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## 4059 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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##   
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
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## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0 0  
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##   
## 387684 389426 421225 425145 427746 427759 432175 433422 435600 436507  
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## 998 0 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0 0  
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## 1500 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0 0  
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##   
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## 998 0 0 0 0 0 0 0 0 0 0  
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## 2500 0 0 0 0 0 0 0 0 0 0  
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## 5896 0 0 0 0 0 0 0 0 0 0  
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##   
## 604612 626392 657816 669952 703929 788436 845499 871202 963702  
## 698 0 0 0 0 0 0 0 0 0  
## 873 0 0 0 0 0 0 0 0 0  
## 998 0 0 0 0 0 0 0 0 0  
## 1000 0 0 0 0 0 0 0 0 0  
## 1070 0 0 0 0 0 0 0 0 0  
## 1500 0 0 0 0 0 0 0 0 0  
## 2031 0 0 0 0 0 0 0 0 0  
## 2500 0 0 0 0 0 0 0 0 0  
## 4000 0 0 0 0 0 0 0 0 0  
## 4059 0 0 0 0 0 0 0 0 0  
## 5000 0 0 0 0 0 0 0 0 0  
## 5150 0 0 0 0 0 0 0 0 0  
## 5896 0 0 0 0 0 0 0 0 0  
## 6000 0 0 0 0 0 0 0 0 0  
## 7000 0 0 0 0 0 0 0 0 0  
## 7276 0 0 0 0 0 0 0 0 0  
##   
## 1008414 1127205 1166246 1327090 1631322  
## 698 0 2 0 0 0  
## 873 0 0 0 0 0  
## 998 0 0 0 0 0  
## 1000 0 0 0 0 0  
## 1070 0 0 0 0 0  
## 1500 0 0 0 0 0  
## 2031 0 0 0 0 0  
## 2500 0 0 0 0 0  
## 4000 0 0 0 0 0  
## 4059 0 0 0 0 0  
## 5000 0 0 0 0 0  
## 5150 0 0 0 0 0  
## 5896 0 0 0 0 0  
## 6000 0 0 0 0 0  
## 7000 0 0 0 0 0  
## 7276 0 0 0 0 0  
## [ reached getOption("max.print") -- omitted 4003 rows ]

chisq.test(tbl)

## Warning in chisq.test(tbl): Chi-squared approximation may be incorrect

##   
## Pearson's Chi-squared test  
##   
## data: tbl  
## X-squared = 24845528, df = 24256666, p-value < 2.2e-16

#Perform the necessary calculations to assess the assumption of no multicollinearity and state if the condition is met or not.  
#install.packages("olsrr")  
library(olsrr)

##   
## Attaching package: 'olsrr'

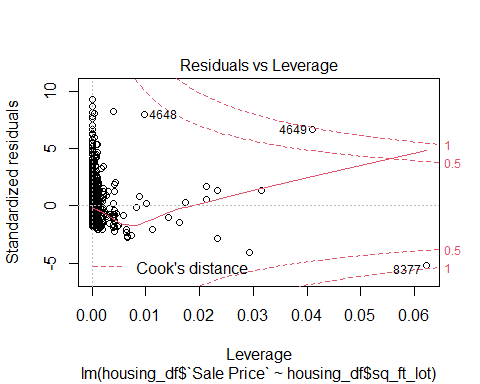
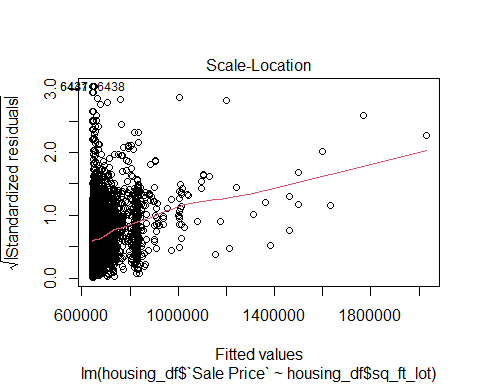
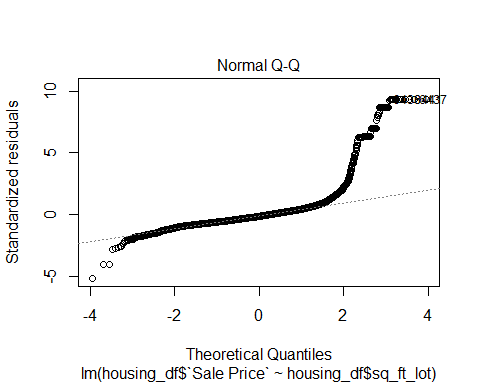
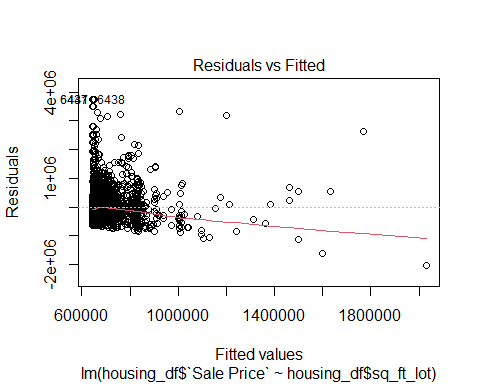
## The following object is masked from 'package:MASS':  
##   
## cement

## The following object is masked from 'package:datasets':  
##   
## rivers

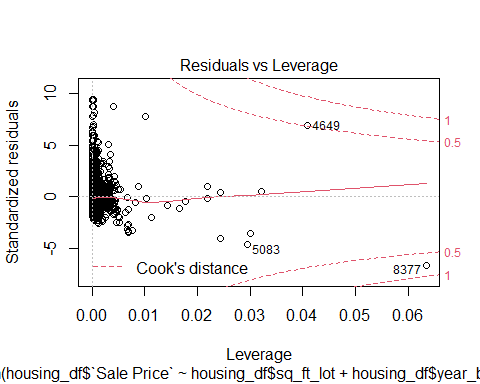
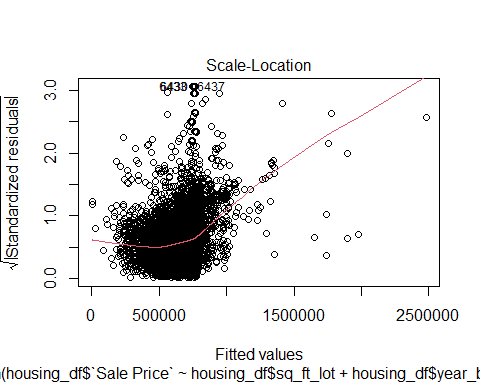
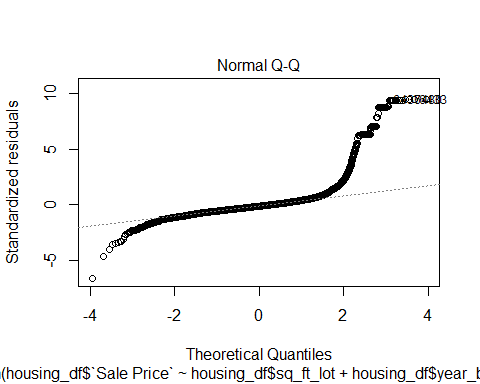
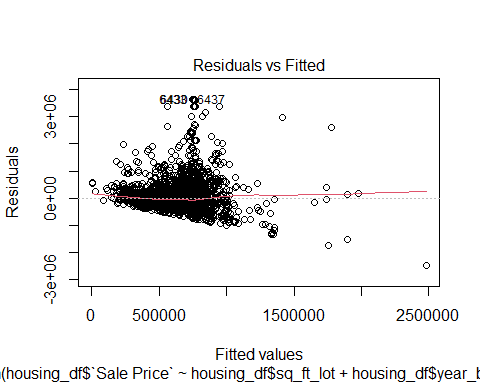
ols\_coll\_diag(df\_var2)

## Tolerance and Variance Inflation Factor  
## ---------------------------------------  
## Variables Tolerance VIF  
## 1 housing\_df$sq\_ft\_lot 0.9814773 1.018872  
## 2 housing\_df$year\_built 0.9684077 1.032623  
## 3 housing\_df$sale\_reason 0.9852206 1.015001  
##   
##   
## Eigenvalue and Condition Index  
## ------------------------------  
## Eigenvalue Condition Index intercept housing\_df$sq\_ft\_lot  
## 1 2.562541e+00 1.000000 9.959061e-06 0.03698584  
## 2 8.167305e-01 1.771316 1.334115e-06 0.86809996  
## 3 6.206920e-01 2.031877 1.517727e-05 0.07711215  
## 4 3.610618e-05 266.406425 9.999735e-01 0.01780205  
## housing\_df$year\_built housing\_df$sale\_reason  
## 1 9.969814e-06 0.05224050  
## 2 1.354613e-06 0.12379561  
## 3 1.534715e-05 0.80975981  
## 4 9.999733e-01 0.01420408

#Visually check the assumptions related to the residuals using the plot() and hist() functions. Summarize what each graph is informing you of and if any anomalies are present.  
  
plot(df\_var1)



plot(df\_var2)



Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.

## References

install.packages(“knitr”)