Q1

Take the derivative of sum($w * (x - mu) ^2$):

```
w \cdot (x - mu)^{2} = 2(1.57 - mu)^{2} + 2(1.25 - mu)^{2} + (2.8 - mu)^{2} + (0.43 - mu)^{2}\frac{dS}{d_{mu}} = -4(1.57 - mu) - 4(1.25 - mu) - 2(2.8 - mu) - 2(0.43 - mu) = 0mu = 1.48
```

$\mathbf{Q2}$

```
raw_dat = read.table('shhs1.txt',header = 1)
raw_dat$'log(rdi4p + 1)' = log(raw_dat$rdi4p + 1)
fit = lm(log(rdi4p + 1) ~ waist + age_s1 + gender + bmi_s1, data = raw_dat)
summary(fit)
##
## Call:
## lm(formula = log(rdi4p + 1) ~ waist + age_s1 + gender + bmi_s1,
##
      data = raw dat)
##
## Residuals:
      Min
              10 Median
                             3Q
                                   Max
## -3.3200 -0.6681 -0.0510 0.6216 3.2937
##
## Coefficients:
              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -2.281392   0.112558 -20.269   < 2e-16 ***
             0.007058
                        0.001546
                                 4.564 5.12e-06 ***
## waist
## age_s1
              ## gender
              0.517821
                        0.026890 19.257 < 2e-16 ***
              ## bmi s1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9144 on 5411 degrees of freedom
    (388 observations deleted due to missingness)
## Multiple R-squared: 0.2518, Adjusted R-squared: 0.2512
## F-statistic: 455.3 on 4 and 5411 DF, p-value: < 2.2e-16
Q3
newdata = data.frame(waist = 100,age_s1 = 60,bmi_s1 = 30,gender = 1)
rdi4p = exp(predict(fit,newdata))-1
rdi4p
##
```

Q4

Interpretation:

6.638665

```
log(rdi4p+1) = -2.281392 + 0.007058waist + 0.019982age + 0.517821gender + 0.063068bmi
```

Coefficient means increase or decrease of log(rdi4p + 1) given one unit change of predictor holding other predictors at a fixed level.

Q_5

```
library(tidyverse)
# 0 for rdi4p < 7, 1 for 7 <= rdi4p < 15, 2 for 7 <= rdi4p < 15, 3 for 30 <= rdi4p < 15
raw_dat2 = mutate(raw_dat, cutrdi4p = ((7 <= rdi4p)*1 + (15 <= rdi4p)*1 + (30 <= rdi4p)*1))
raw_dat2$cutrdi4p = factor(raw_dat2$cutrdi4p)
# raw_dat3 = model.matrix(~cutrdi4p, data = raw_dat2
fit = glm(HTNDerv_s1 ~ cutrdi4p , data = raw_dat2, family = binomial())
# anova(fit)
summary(fit)
##
## Call:
## glm(formula = HTNDerv_s1 ~ cutrdi4p, family = binomial(), data = raw_dat2)
##
## Deviance Residuals:
##
      Min
                 1Q
                     Median
                                   ЗQ
                                           Max
## -1.3328 -0.9805 -0.9805
                             1.2007
                                        1.3880
##
## Coefficients:
##
              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -0.48267
                          0.03384 -14.262 < 2e-16 ***
## cutrdi4p1
             0.42811
                          0.06917
                                   6.189 6.04e-10 ***
## cutrdi4p2
               0.47044
                          0.08522
                                     5.521 3.38e-08 ***
                          0.11377 7.390 1.47e-13 ***
## cutrdi4p3
               0.84073
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 7921.7 on 5803 degrees of freedom
## Residual deviance: 7824.8 on 5800
                                      degrees of freedom
## AIC: 7832.8
## Number of Fisher Scoring iterations: 4
Q6
#age, gender, bmi, waist and smokstat_s1
fit = glm(HTNDerv_s1 ~ cutrdi4p + age_s1 + gender + bmi_s1 + waist+ smokstat_s1
         data = raw_dat2, family = binomial())
# anova(fit)
summary(fit)
##
## Call:
## glm(formula = HTNDerv_s1 ~ cutrdi4p + age_s1 + gender + bmi_s1 +
```

```
##
       waist + smokstat_s1, family = binomial(), data = raw_dat2)
##
##
  Deviance Residuals:
##
       Min
                 1Q
                      Median
                                   3Q
                                           Max
##
   -1.9029
           -1.0234
                     -0.6827
                               1.1240
                                         2.1408
##
## Coefficients:
##
                Estimate Std. Error z value Pr(>|z|)
## (Intercept) -5.574954
                           0.294145 -18.953 < 2e-16 ***
## cutrdi4p1
                0.149463
                           0.076874
                                      1.944 0.051865
## cutrdi4p2
                0.111258
                           0.095271
                                      1.168 0.242886
## cutrdi4p3
                           0.126855
                                      3.570 0.000356 ***
                0.452920
## age_s1
                0.055657
                           0.002937 18.952 < 2e-16 ***
## gender
                0.012453
                           0.065102
                                     0.191 0.848310
                                      4.647 3.37e-06 ***
## bmi_s1
                           0.009553
                0.044391
## waist
                0.004466
                           0.003620
                                      1.234 0.217298
## smokstat_s1 -0.023995
                           0.031149 -0.770 0.441097
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
   (Dispersion parameter for binomial family taken to be 1)
##
##
       Null deviance: 7380.2 on 5383
                                      degrees of freedom
## Residual deviance: 6837.8 on 5375
                                       degrees of freedom
     (420 observations deleted due to missingness)
## AIC: 6855.8
##
## Number of Fisher Scoring iterations: 4
Interpretation:
```

 $logit(p) = -5.574954 + 0.149463 * I(mildsleepapnea) + 0.111258 * I(sleepapnea) + 0.452920 * I(severesleepapnea) \\ + 0.055657age + 0.012453gender + 0.044391bmi + 0.004466waist - 0.023995smokstation + 0.004466waist - 0.00466waist - 0.004660waist - 0.004660waist - 0.004660waist - 0.004660waist - 0.004660waist - 0.004660waist - 0.0046$

$$I(mildsleepapnea) = \begin{cases} 1,7 <= rdi4p < 15 \\ 0, otherwise \end{cases}$$

$$I(sleepapnea) = \begin{cases} 1,15 <= rdi4p < 30 \\ 0, otherwise \end{cases}$$

$$I(severesleepapnea) = \begin{cases} 1,30 <= rdi4p \\ 0, otherwise \end{cases}$$

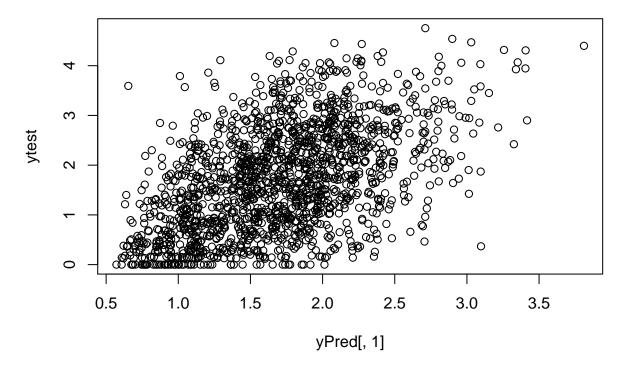
For categorical variable, coefficients are based on the baseline(Intercept:rdi4p < 7). For continuous predictor, the coefficients represent the change of log odds of probability of being hypertension or not given one unit change of predictor holding other predictors at fixed level.

$\mathbf{Q7}$

```
library(tidyverse)
library(keras)

dat = read.table("shhs1.txt", header = TRUE)
```

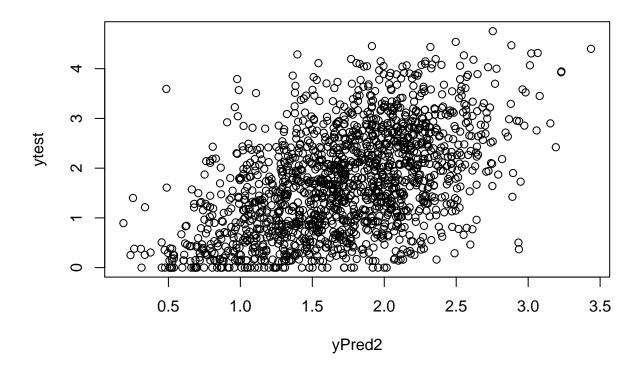
```
analyticDat = dat %>%
  select(rdi4p, waist, COPD15, HTNDerv_s1, gender, age_s1, bmi_s1)%>%
  # select(rdi4p, waist, smokstat_s1, HTNDerv_s1, gender, age_s1, bmi_s1) %>%
na.omit()
y = log(analyticDat$rdi4p + 1)
x = analyticDat %>% select(-rdi4p) %>% as.matrix()
trainIdx = sample(c(TRUE, FALSE), length(y), replace = TRUE, prob = c(.7, .3))
ytrain = y[trainIdx]
xtrain = x[trainIdx, ] %>% scale()
mns = attr(xtrain, "scaled:center")
sds = attr(xtrain, "scaled:scale")
xtest = x[!trainIdx, ] %>% scale(center = mns, scale = sds)
ytest = y[!trainIdx]
model = keras_model_sequential() %>%
layer_dense(units = 4, activation = "relu",
             use_bias = TRUE,
             input_shape = dim(xtrain)[2]) %>%
 layer_dense(units = 2, activation = "relu") %>%
 layer_dense(units = 1)
model %>% compile(
loss = "mse",
optimizer = optimizer_rmsprop(),
metrics = list("mean_absolute_error")
)
history = model %>% fit(
xtrain,
ytrain,
epochs = 20,
validation_split = 0.2,
verbose = 1,
)
## compare with the test data
yPred = model %>% predict(xtest)
## plot
plot(yPred[,1], ytest)
```



```
cor(yPred[,1], ytest)

## [1] 0.5044432

## compare with ordinary regression
fit = lm(ytrain ~ xtrain)
yPred2 = cbind(1, xtest) %*% coef(fit)
plot(yPred2, ytest)
```



cor(yPred2, ytest)

ytrain = y[trainIdx,]

```
## [,1]
## [1,] 0.5060187

Q8

library(tidyverse)
library(keras)

dat = read.table("shhs1.txt", header = TRUE)

analyticDat = dat %>%
    select(rdi4p, waist, COPD15, HTNDerv_s1, gender, age_s1, bmi_s1) %>%
    na.omit()

y = analyticDat$HTNDerv_s1
y = cbind(y, 1 - y)
x = analyticDat %>% select(-HTNDerv_s1) %>% as.matrix()

trainIdx = sample(c(TRUE, FALSE), dim(x)[1], replace = TRUE, prob = c(.7, .3))
```

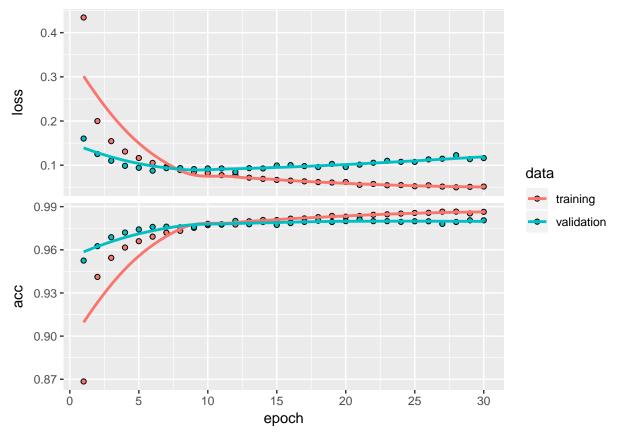
```
xtrain = x[trainIdx, ] %>% scale()
mns = attr(xtrain, "scaled:center")
sds = attr(xtrain, "scaled:scale")
xtest = x[!trainIdx, ] %>% scale(center = mns, scale = sds)
ytest = y[!trainIdx, ]
model = keras_model_sequential() %>%
layer_dense(units = 2^8, activation = "relu",
            use_bias = TRUE,
             input_shape = dim(xtrain)[2]) %>%
 layer dropout(rate = .8) %>%
 layer_dense(units = 2 ^ 4, activation = "relu") %>%
 layer_dropout(rate = .8) %>%
 layer_dense(units = 2, activation = "softmax")
model %>% compile(
loss = "categorical_crossentropy",
optimizer = optimizer_rmsprop(),
metrics = list("accuracy")
)
history = model %>% fit(
xtrain,
ytrain,
epochs = 30,
validation_split = 0.2,
verbose = 1,
## compare with the test data
## predict classes gives the index (counting from 0)
## of the category. So, it gives 1 for the second column (which is HTN=0)
## and 0 for the first column (which is HTN=1). So to get it to agree
## I 1 - the output
yPred = 1 - (model %>% predict_classes(xtest))
## loot at the comaprison
ptab = table(yPred, ytest[,1])
ptab
##
## yPred 0 1
##
       0 727 431
##
       1 171 263
## accuracy
sum(diag(ptab)) / sum(ptab)
```

```
## [1] 0.6218593
## compare with ordinary logistic regression
fit = glm(HTNDerv_s1 ~ ., family = "binomial", data = analyticDat, subset = trainIdx)
yPred2 = (predict(fit, analyticDat[!trainIdx,], type = "response") > 0.5) * 1
ptab2 = table(yPred2, ytest[,1])
sum(diag(ptab2)) / sum(ptab2)
## [1] 0.6369347
Q9
library(keras)
mnist <- dataset_mnist()</pre>
x_train <- mnist$train$x</pre>
y_train <- mnist$train$y</pre>
x_test <- mnist$test$x</pre>
y_test <- mnist$test$y</pre>
# reshape
x_train <- array_reshape(x_train, c(nrow(x_train), 784))</pre>
x_test <- array_reshape(x_test, c(nrow(x_test), 784))</pre>
# rescale
x_train <- x_train / 255</pre>
x test <- x test / 255
y_train <- to_categorical(y_train, 10)</pre>
y_test <- to_categorical(y_test, 10)</pre>
model <- keras_model_sequential()</pre>
model %>%
 layer_dense(units = 256, activation = 'relu', input_shape = c(784)) %>%
 layer_dropout(rate = 0.4) %>%
 layer_dense(units = 128, activation = 'relu') %>%
 layer_dropout(rate = 0.3) %>%
 layer_dense(units = 10, activation = 'softmax')
summary(model)
## Layer (type)
               Output Shape Param #
## -----
## dense_6 (Dense)
                                 (None, 256)
                                                              200960
## dropout_2 (Dropout) (None, 256)
## dense_7 (Dense)
                                                             32896
                               (None, 128)
## dropout_3 (Dropout) (None, 128)
```

1290

(None, 10)

dense_8 (Dense)



```
model %>% evaluate(x_test, y_test)
```

```
## $loss
## [1] 0.106643
##
## $acc
```

model %>% predict_classes(x_test)

```
\lceil 1 \rceil 7 2 1 0 4 1 4 9 5 9 0 6 9 0 1 5 9 7 3 4 9 6 6 5 4 0 7 4 0 1 3 1 3 4
##
##
       [35] 7 2 7 1 2 1 1 7 4 2 3 5 1 2 4 4 6 3 5 5 6 0 4 1 9 5 7 8 9 3 7 4 6 4
##
       [69] \ \ 3\ \ 0\ \ 7\ \ 0\ \ 2\ \ 9\ \ 1\ \ 7\ \ 3\ \ 2\ \ 9\ \ 7\ \ 7\ \ 6\ \ 2\ \ 7\ \ 8\ \ 4\ \ 7\ \ 3\ \ 6\ \ 1\ \ 3\ \ 6\ \ 9\ \ 3\ \ 1\ \ 4\ \ 1\ \ 7\ \ 6\ \ 9\ \ 6\ \ 0
##
      [103] 5 4 9 9 2 1 9 4 8 7 3 9 7 4 4 4 9 2 5 4 7 6 7 9 0 5 8 5 6 6 5 7 8 1
##
      [137] 0 1 6 4 6 7 3 1 7 1 8 2 0 2 9 9 5 5 1 5 6 0 3 4 4 6 5 4 6 5 4 5 1 4
##
      [171] 4 7 2 3 2 7 1 8 1 8 1 8 5 0 8 9 2 5 0 1 1 1 0 9 0 3 1 6 4 2 3 6 1 1
##
      [205] 1 3 9 5 2 9 4 5 9 3 9 0 3 6 5 5 7 2 2 7 1 2 8 4 1 7 3 3 8 8 7 9 2 2
##
      [239] 4 1 5 9 8 7 2 3 0 2 4 2 4 1 9 5 7 7 2 8 2 6 8 5 7 7 9 1 8 1 8 0 3 0
      [273] 1 9 9 4 1 8 2 1 2 9 7 5 9 2 6 4 1 5 8 2 9 2 0 4 0 0 2 8 4 7 1 2 4 0
##
      [307] 2 7 4 3 3 0 0 3 1 9 6 5 2 5 9 7 9 3 0 4 2 0 7 1 1 2 1 5 3 3 9 7 8 6
##
##
      [341] 3 6 1 3 8 1 0 5 1 3 1 5 5 6 1 8 5 1 7 8 4 6 2 2 5 0 6 5 6 3 7 2 0 8
##
      [375] 8 5 4 1 1 4 0 3 3 7 6 1 6 2 1 9 2 8 6 1 9 5 2 5 4 4 2 8 3 8 2 4 5 0
##
      [409] 3 1 7 7 5 7 9 7 1 9 2 1 4 2 9 2 0 4 9 1 4 8 1 8 4 5 9 8 8 3 7 6 0 0
##
      [443] 3 0 2 0 6 9 9 3 3 3 2 3 9 1 2 6 8 0 5 6 6 6 3 8 8 2 7 5 8 9 6 1 8 4
##
      [477] 1 2 5 9 1 9 7 5 4 0 8 9 9 1 0 5 2 3 7 0 9 4 0 6 3 9 5 2 1 3 1 3 6 5
##
      [511] 7 4 2 2 6 3 2 6 5 4 8 9 7 1 3 0 3 8 3 1 9 3 4 4 6 4 2 1 8 2 5 4 8 8
##
      [545] 4 0 0 2 3 2 7 7 0 8 7 4 4 7 9 6 9 0 9 8 0 4 6 0 6 3 5 4 8 3 3 9 3 3
##
      [579] 3 7 8 0 2 2 1 7 0 6 5 4 3 8 0 9 6 3 8 0 9 9 6 8 6 8 5 7 8 6 0 2 4 0
##
      [613] 2 2 3 1 9 7 5 1 0 8 4 6 2 6 7 9 3 2 9 8 2 2 9 2 7 3 5 9 1 8 0 2 0 5
      [647] 2 1 3 7 6 7 1 2 5 8 0 3 7 2 4 0 9 1 8 6 7 7 4 3 4 9 1 9 5 1 7 3 9 7
##
##
      [681] 6 9 1 3 3 8 3 3 6 7 2 8 5 8 5 1 1 4 4 3 1 0 7 7 0 7 9 4 4 8 5 5 4 0
##
      [715] 8 2 1 6 8 4 8 0 4 0 6 1 9 3 2 6 7 2 6 9 3 1 4 6 2 5 9 2 0 6 2 1 7 3
      [749] 4 1 0 5 4 3 1 1 7 4 9 9 4 8 4 0 2 4 5 1 1 6 4 7 1 9 4 2 4 1 5 5 3 8
##
##
      [783] 3 1 4 5 6 8 9 4 1 5 3 8 0 3 2 5 1 2 8 3 4 4 0 8 8 3 3 1 7 3 5 9 6 3
      [817] 2 6 1 3 6 0 7 2 1 7 1 4 2 4 2 1 7 9 6 1 1 2 4 8 1 7 7 4 8 0 7 3 1 3
##
##
      [851] \ 1 \ 0 \ 7 \ 7 \ 0 \ 3 \ 5 \ 5 \ 2 \ 7 \ 6 \ 6 \ 9 \ 2 \ 8 \ 3 \ 5 \ 2 \ 2 \ 5 \ 6 \ 0 \ 8 \ 2 \ 9 \ 2 \ 8 \ 5 \ 8 \ 7 \ 4 \ 9 \ 3
##
      [885] \ 0 \ 6 \ 6 \ 3 \ 2 \ 1 \ 3 \ 2 \ 2 \ 9 \ 3 \ 0 \ 0 \ 5 \ 7 \ 8 \ 3 \ 4 \ 4 \ 6 \ 0 \ 2 \ 9 \ 1 \ 4 \ 7 \ 4 \ 7 \ 3 \ 9 \ 8 \ 8 \ 4 \ 7
##
      [919] 1 2 1 2 2 3 7 3 2 3 9 1 7 4 0 3 5 5 8 6 3 2 6 7 6 6 3 2 7 8 1 1 7 5
##
      [953] \ 6 \ 4 \ 9 \ 5 \ 1 \ 3 \ 3 \ 4 \ 7 \ 8 \ 9 \ 1 \ 1 \ 6 \ 9 \ 1 \ 4 \ 4 \ 5 \ 4 \ 0 \ 6 \ 2 \ 2 \ 3 \ 1 \ 5 \ 1 \ 2 \ 0 \ 3 \ 8 \ 1 \ 2
      [987] 6 7 1 6 2 3 9 0 1 2 2 0 8 9 9 0 2 5 1 9 7 8 1 0 4 1 7 9 5 4 2 6 8 1
##
##
     [1021] 3 7 5 4 4 1 8 1 3 8 1 2 5 8 0 6 2 1 1 2 1 5 3 4 6 9 5 0 9 2 2 4 8 2
##
     [1055] 1 7 2 4 9 4 4 0 3 9 2 2 3 3 8 3 5 7 3 5 8 1 2 4 4 6 4 9 5 1 0 6 9 5
      \begin{smallmatrix} [1089] \end{smallmatrix} 9 5 9 7 3 8 0 3 7 1 3 6 7 8 5 9 7 9 6 9 6 3 7 4 6 5 3 5 4 7 8 7 8 0 
##
      \begin{smallmatrix} 1123 \end{smallmatrix} ] \ 7 \ 6 \ 8 \ 8 \ 7 \ 3 \ 3 \ 1 \ 9 \ 5 \ 2 \ 7 \ 3 \ 5 \ 1 \ 1 \ 2 \ 1 \ 4 \ 7 \ 4 \ 7 \ 5 \ 4 \ 5 \ 4 \ 0 \ 8 \ 3 \ 6 \ 9 \ 6 \ 0 \ 2 
##
     [1157] 7 4 4 4 4 6 6 4 7 9 3 4 5 5 8 7 3 7 2 7 0 2 4 1 1 6 8 9 2 8 7 2 0 1
##
##
     [1191] 5 0 9 1 7 0 6 0 8 6 8 1 8 0 3 3 7 2 3 6 2 1 6 1 1 3 7 9 0 8 0 5 4 0
##
     [1225] 2 8 2 2 9 8 4 0 6 5 8 5 1 2 1 3 1 7 4 5 7 2 0 3 8 8 6 2 5 4 1 9 2 1
##
     [1259] 5 8 7 0 2 4 4 3 6 8 8 2 4 0 5 0 4 4 7 9 3 4 1 5 9 7 3 5 8 8 0 5 3 3
##
     [1293] 6 6 0 1 6 0 3 7 4 4 1 2 9 1 4 6 9 9 3 9 8 4 4 3 1 3 1 3 8 7 9 4 8 8
##
     [1327] 7 9 8 1 4 5 6 0 5 2 2 2 1 5 5 2 4 9 6 2 7 7 2 2 1 1 2 8 3 7 2 4 1 7
##
     [1361] 1 7 6 7 8 2 7 3 1 7 5 8 2 6 2 2 5 6 5 0 9 2 4 3 3 9 7 6 6 8 0 4 1 3
     [1395] 8 3 9 1 8 0 6 7 2 1 0 5 5 2 0 2 2 0 2 4 9 8 0 9 9 4 6 5 4 9 1 8 3 4
##
##
     [1429] 9 9 1 2 2 1 1 9 6 4 0 9 4 8 3 8 6 0 2 5 1 9 6 2 9 4 0 9 6 0 6 2 5 4
     [1463] 2 3 8 4 5 5 0 3 8 5 3 5 8 6 5 7 6 3 3 9 6 1 1 2 9 0 4 3 3 6 9 5 7 3
##
##
     [1497] \ 7 \ 7 \ 8 \ 7 \ 9 \ 8 \ 3 \ 0 \ 7 \ 2 \ 7 \ 9 \ 4 \ 5 \ 4 \ 9 \ 3 \ 2 \ 1 \ 4 \ 0 \ 2 \ 3 \ 7 \ 5 \ 9 \ 8 \ 8 \ 5 \ 0 \ 1 \ 1 \ 4
      \begin{smallmatrix} 1531 \end{smallmatrix} ] \ 7 \ 3 \ 9 \ 0 \ 0 \ 0 \ 6 \ 6 \ 2 \ 3 \ 7 \ 8 \ 4 \ 7 \ 7 \ 9 \ 2 \ 4 \ 1 \ 6 \ 5 \ 2 \ 4 \ 3 \ 8 \ 1 \ 8 \ 4 \ 0 \ 9 \ 8 \ 4 \ 8 \ 7 
##
     [1565] 7 0 7 8 8 6 0 4 8 8 2 4 7 6 6 6 4 7 1 8 8 2 3 6 3 0 0 3 7 6 9 7 9 9
##
     [1599] 5 4 3 3 6 1 2 3 7 3 3 2 0 3 3 8 4 3 6 3 5 0 2 0 9 0 7 4 6 9 3 5 1 9
##
     [1633] 6 1 4 5 4 5 0 5 9 5 2 1 2 9 1 9 9 4 0 8 4 5 2 9 2 1 2 1 7 3 6 8 8 4
##
##
      \begin{smallmatrix} 1667 \end{smallmatrix} ] \ 9 \ 1 \ 9 \ 8 \ 5 \ 7 \ 5 \ 1 \ 1 \ 8 \ 6 \ 5 \ 2 \ 4 \ 4 \ 7 \ 2 \ 3 \ 5 \ 6 \ 8 \ 8 \ 6 \ 2 \ 3 \ 1 \ 0 \ 5 \ 8 \ 9 \ 2 \ 9 \ 6 \ 7 
     [1701] \ 0\ 4\ 8\ 7\ 1\ 7\ 4\ 1\ 0\ 3\ 7\ 2\ 0\ 0\ 9\ 1\ 7\ 0\ 7\ 8\ 4\ 7\ 2\ 0\ 4\ 6\ 0\ 3\ 1\ 1\ 3\ 3\ 9\ 6
```

```
[1735] 7 4 1 5 3 0 8 7 3 9 6 9 3 5 0 2 7 2 5 1 2 5 8 0 8 8 1 5 0 3 0 3 1 4
    [1769] 0 3 7 2 7 1 8 0 7 0 4 3 1 9 8 7 7 1 4 9 9 3 8 1 7 9 0 2 0 3 3 7 6 9
##
    [1803] 2 3 3 7 7 0 0 7 5 2 9 2 7 4 4 2 6 6 1 9 6 8 2 9 0 8 3 1 1 6 3 5 1 1
##
    [1837] 1 3 1 2 3 0 2 0 1 3 5 5 7 4 8 9 6 9 6 8 3 6 6 8 5 1 4 2 4 4 5 1 1 9
##
##
    [1871] 0 2 4 9 5 7 1 8 3 5 6 9 8 7 1 1 6 7 6 3 2 2 0 8 9 2 5 1 0 8 1 4 5 7
    [1905] 9 6 9 0 6 1 5 5 8 3 8 2 6 5 0 7 4 6 1 3 4 7 3 2 3 4 2 5 2 7 1 7 2 6
##
##
    [1939] 4 1 5 7 8 6 0 1 8 2 5 7 7 6 3 3 5 8 4 2 4 0 8 8 3 4 9 2 7 5 8 6 5 6
##
    [1973] 0 8 6 7 3 6 4 9 4 6 6 3 2 4 1 0 1 4 6 2 9 1 1 0 6 3 9 5 6 5 6 5 3 4
##
    [2007] 6 4 3 9 1 3 4 1 9 1 7 1 1 9 3 5 4 0 9 3 6 1 7 5 5 3 3 0 1 5 7 5 8 6
##
     \begin{smallmatrix} 2041 \end{smallmatrix} ] \ 5 \ 1 \ 0 \ 8 \ 2 \ 3 \ 4 \ 6 \ 7 \ 9 \ 8 \ 1 \ 8 \ 9 \ 9 \ 2 \ 8 \ 6 \ 2 \ 7 \ 0 \ 0 \ 6 \ 7 \ 5 \ 8 \ 6 \ 0 \ 9 \ 3 \ 7 \ 1 \ 3 \ 5 
##
    [2075] 4 3 3 5 5 6 3 0 2 3 4 2 3 0 9 9 4 7 2 1 4 7 0 6 2 8 5 2 8 5 7 3 0 8
     \begin{smallmatrix} 2109 \end{smallmatrix} \begin{smallmatrix} 2 & 7 & 2 & 8 & 2 & 5 & 5 & 7 & 6 & 4 & 0 & 8 & 4 & 8 & 2 & 7 & 4 & 5 & 2 & 0 & 3 & 9 & 4 & 6 & 7 & 2 & 5 & 1 & 1 & 1 & 2 & 3 & 6 & 7 \\ \end{smallmatrix} 
##
##
    [2143] 8 7 6 4 8 9 4 8 6 3 8 3 1 0 6 2 2 5 6 9 5 8 1 4 1 7 8 4 6 1 8 4 3 1
##
    [2177] 2 8 0 8 5 9 2 4 2 0 2 7 0 9 0 2 5 7 6 7 9 4 2 6 2 4 4 8 0 4 4 5 8 0
    [2211] 6 8 9 8 5 6 9 0 4 8 7 1 3 4 5 8 0 9 1 3 3 6 9 8 7 1 0 5 7 1 7 5 2 7
##
##
    [2245] 9 1 8 5 2 4 9 4 7 2 2 3 4 9 1 9 2 1 7 9 4 4 1 6 7 2 7 8 8 1 9 7 1 1
    [2279] 7 5 3 3 5 1 3 7 6 1 3 8 7 5 9 0 0 0 2 8 8 2 3 7 1 3 0 3 4 4 3 8 9 2
##
    [2313] 3 9 7 1 1 7 0 4 9 6 5 9 1 7 0 2 0 2 4 6 7 0 7 1 4 6 4 5 4 9 9 1 7 9
##
    [2347] 5 3 3 8 2 3 6 2 2 1 1 1 1 1 6 9 8 4 3 7 1 6 4 5 0 4 7 4 2 4 0 7 0 1
##
##
    [2381] 9 8 8 6 0 0 4 1 6 8 2 2 3 8 4 8 2 2 1 7 5 4 4 0 4 3 4 7 3 1 0 1 2 5
##
    [2415] 9 2 1 0 1 8 9 1 4 8 3 8 9 3 6 2 8 3 2 2 1 0 4 2 9 2 4 3 7 9 1 5 2 4
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