810 Team Project

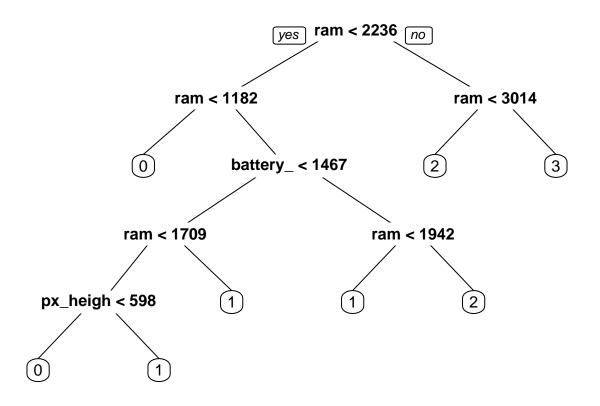
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2/24/2021

```
library(data.table)
library(ggplot2)
library(ggthemes)
library(glmnet)
## Loading required package: Matrix
## Loaded glmnet 4.1
theme_set(theme_bw())
library(MASS)
library(rpart)
library(rpart.plot)
library(randomForest)
## randomForest 4.6-14
## Type rfNews() to see new features/changes/bug fixes.
## Attaching package: 'randomForest'
## The following object is masked from 'package:ggplot2':
##
##
       margin
library(caret)
## Loading required package: lattice
library(e1071)
library(tree)
library(ISLR)
library(party)
## Loading required package: grid
## Loading required package: mvtnorm
```

```
## Loading required package: modeltools
## Loading required package: stats4
## Loading required package: strucchange
## Loading required package: zoo
## Attaching package: 'zoo'
## The following objects are masked from 'package:base':
##
##
      as.Date, as.Date.numeric
## Loading required package: sandwich
library(tidymodels)
## Registered S3 method overwritten by 'cli':
    method
              from
##
    print.tree tree
## -- Attaching packages ------ tidymodels 0.1.2 --
## v broom 0.7.5
                       v recipes 0.1.15
## v dials 0.0.9
                      v rsample 0.0.9
                    v tibble 3.0.6
v tidyr 1.1.2
## v dplyr 1.0.4
## v infer
          0.5.4
## v modeldata 0.1.0
                       v tune
                                  0.1.2
## v parsnip 0.1.5
                        v workflows 0.2.1
## v purrr
             0.3.4
                       v yardstick 0.0.7
## -- Conflicts ----- tidymodels conflicts() --
## x dplyr::between()
                          masks data.table::between()
## x dplyr::combine()
                           masks randomForest::combine()
## x purrr::discard()
                           masks scales::discard()
## x tidyr::expand()
                            masks Matrix::expand()
## x dplyr::filter()
                            masks stats::filter()
## x dplyr::first()
                            masks data.table::first()
## x parsnip::fit()
                            masks party::fit(), modeltools::fit()
## x dplyr::lag()
                            masks stats::lag()
## x dplyr::last()
                            masks data.table::last()
## x purrr::lift()
                            masks caret::lift()
## x randomForest::margin()
                            masks ggplot2::margin()
## x tidyr::pack()
                            masks Matrix::pack()
                            masks dials::parameters(), modeltools::parameters()
## x tune::parameters()
## x rsample::permutations() masks e1071::permutations()
## x yardstick::precision()
                            masks caret::precision()
## x dials::prune()
                            masks rpart::prune()
## x yardstick::recall()
                            masks caret::recall()
```

```
masks MASS::select()
## x dplyr::select()
## x yardstick::sensitivity() masks caret::sensitivity()
## x yardstick::specificity() masks caret::specificity()
## x tidyr::unpack() masks Matrix::unpack()
## x recipes::update() masks stats4::update(), Matrix::update(), stats::update()
library(caTools)
data <- fread("C:/Users/boli0/Downloads/train.csv")</pre>
str(data)
## Classes 'data.table' and 'data.frame': 2000 obs. of 21 variables:
## $ battery_power: int 842 1021 563 615 1821 1859 1821 1954 1445 509 ...
## $ blue
            : int 0 1 1 1 1 0 0 0 1 1 ...
## $ clock_speed : num 2.2 0.5 0.5 2.5 1.2 0.5 1.7 0.5 0.5 0.6 ...
## $ dual_sim : int 0 1 1 0 0 1 0 1 0 1 ...
                : int 1 0 2 0 13 3 4 0 0 2 ...
## $ fc
## $ four_g : int 0 1 0 1 0 1 0 0 1 ...
## $ int_memory : int 7 53 41 10 44 22 10 24 53 9 ...
                : num 0.6 0.7 0.9 0.8 0.6 0.7 0.8 0.8 0.7 0.1 ...
## $ m_dep
## $ mobile_wt : int 188 136 145 131 141 164 139 187 174 93 ...
## $ n_{cores} : int 2 3 5 6 2 1 8 4 7 5 ...
## $ pc
                : int 2 6 6 9 14 7 10 0 14 15 ...
## $ px_height : int 20 905 1263 1216 1208 1004 381 512 386 1137 ...
## $ px_width : int 756 1988 1716 1786 1212 1654 1018 1149 836 1224 ...
## $ ram
                : int 2549 2631 2603 2769 1411 1067 3220 700 1099 513 ...
                : int 9 17 11 16 8 17 13 16 17 19 ...
## $ sc_h
## $ sc_w
               : int 7 3 2 8 2 1 8 3 1 10 ...
## $ talk_time : int 19 7 9 11 15 10 18 5 20 12 ...
## $ three_g : int 0 1 1 1 1 1 1 1 1 ...
## $ touch_screen : int 0 1 1 0 1 0 0 1 0 0 ...
                 : int 1000001100...
## $ wifi
## $ price_range : int 1 2 2 2 1 1 3 0 0 0 ...
## - attr(*, ".internal.selfref")=<externalptr>
data$price_range <- as.factor(data$price_range)</pre>
set.seed(810)
split = sample.split(data$price range, SplitRatio = 0.7)
data_train = subset(data, split == TRUE)
data_test = subset(data, split == FALSE)
y_test <- data_test[,price_range]</pre>
# 1-1. Build single classification decision tree
fit = rpart(price_range ~ .,method = "class", data = data_train,control = rpart.control(minsplit = 1) ,
prp(fit)
```



print(fit)

```
## n= 1400
##
## node), split, n, loss, yval, (yprob)
         * denotes terminal node
##
##
   1) root 1400 1050 0 (0.250000000 0.250000000 0.250000000 0.250000000)
      2) ram< 2235.5 727 377 0 (0.481430536 0.416781293 0.101788171 0.000000000)
##
                           41 0 (0.878338279 0.121661721 0.000000000 0.000000000) *
##
        4) ram< 1182 337
        5) ram>=1182 390 128 1 (0.138461538 0.671794872 0.189743590 0.000000000)
##
                                         68 1 (0.216867470 0.726907631 0.056224900 0.000000000)
##
         10) battery_power< 1466.5 249
                                 53 1 (0.430894309 0.569105691 0.000000000 0.000000000)
           20) ram< 1708.5 123
##
                                     17 0 (0.721311475 0.278688525 0.000000000 0.000000000) *
##
             40) px_height< 598 61
                                      9 1 (0.145161290 0.854838710 0.000000000 0.000000000) *
             41) px_height>=598 62
##
                                 15 1 (0.007936508 0.880952381 0.1111111111 0.000000000) *
##
           21) ram>=1708.5 126
                                         60 1 (0.00000000 0.574468085 0.425531915 0.000000000)
##
         11) battery power>=1466.5 141
##
           22) ram< 1941.5 110
                                 30 1 (0.00000000 0.727272727 0.272727273 0.000000000) *
                                 1 2 (0.00000000 0.032258065 0.967741935 0.000000000) *
##
           23) ram>=1941.5 31
##
      3) ram>=2235.5 673 323 3 (0.000000000 0.069836553 0.410104012 0.520059435)
##
        6) ram< 3013.5 318 98 2 (0.000000000 0.147798742 0.691823899 0.160377358) *
                             56 3 (0.000000000 0.000000000 0.157746479 0.842253521) *
##
        7) ram>=3013.5 355
```

summary(fit)

```
## Call:
## rpart(formula = price_range ~ ., data = data_train, method = "class",
       parms = list(split = "information"), control = rpart.control(minsplit = 1))
     n = 1400
##
##
             CP nsplit rel error
##
                                    xerror
                                                 xstd
                     0 1.0000000 1.0495238 0.01458632
## 1 0.33333333
                     1 0.6666667 0.6676190 0.01781740
## 2 0.19809524
## 3 0.16095238
                     2 0.4685714 0.4771429 0.01708226
                     3 0.3076190 0.3257143 0.01531097
## 4 0.01380952
## 5 0.01285714
                     5 0.2800000 0.3038095 0.01494703
## 6 0.01000000
                     7 0.2542857 0.2752381 0.01442290
## Variable importance
##
             ram battery_power
                                   px_height
                                                  px_width
                                                                     sc_w
##
              78
                             7
                                           5
                                                          2
                                                                        2
##
      int_memory
                     mobile_wt
                                          fc
                                                                 dual_sim
                                                        рс
##
               2
                                           1
                                                          1
##
## Node number 1: 1400 observations,
                                        complexity param=0.3333333
##
     predicted class=0 expected loss=0.75 P(node) =1
##
       class counts:
                      350
                             350
##
      probabilities: 0.250 0.250 0.250 0.250
     left son=2 (727 obs) right son=3 (673 obs)
##
##
     Primary splits:
##
         ram
                       < 2235.5 to the left, improve=650.760600, (0 missing)
##
         battery_power < 1332.5 to the left, improve= 37.065280, (0 missing)
                       < 1630.5 to the left, improve= 25.439830, (0 missing)
##
         px_width
##
                       < 1212 to the left, improve= 18.147350, (0 missing)
         px_height
##
         mobile_wt
                       < 104.5 to the left, improve= 9.566532, (0 missing)
##
     Surrogate splits:
##
         px_height
                       < 280.5 to the right, agree=0.549, adj=0.062, (0 split)
##
         battery_power < 1721.5 to the left, agree=0.534, adj=0.031, (0 split)
##
                                to the left, agree=0.534, adj=0.031, (0 split)
                       < 10.5
         sc_w
##
                       < 13.5
                                to the left, agree=0.528, adj=0.018, (0 split)
         fc
                       < 42.5
##
                                to the left, agree=0.528, adj=0.018, (0 split)
         int_memory
##
## Node number 2: 727 observations,
                                       complexity param=0.1980952
     predicted class=0 expected loss=0.5185695 P(node) =0.5192857
##
                       350
##
                             303
                                    74
       class counts:
     probabilities: 0.481 0.417 0.102 0.000
##
     left son=4 (337 obs) right son=5 (390 obs)
##
##
     Primary splits:
##
                       < 1182
                                to the left, improve=231.36100, (0 missing)
         ram
                                to the left, improve= 47.93258, (0 missing)
##
         battery_power < 1455</pre>
                       < 639.5 to the left, improve= 33.61836, (0 missing)
##
         px_height
##
         px_width
                       < 1144.5 to the left, improve= 29.33494, (0 missing)
##
                       < 186.5 to the left, improve= 4.38501, (0 missing)
         mobile_wt
##
     Surrogate splits:
##
         px_width
                    < 684.5 to the left, agree=0.567, adj=0.065, (0 split)
##
                             to the left, agree=0.557, adj=0.045, (0 split)
                    < 1.5
         рс
##
         mobile_wt < 100.5 to the left, agree=0.556, adj=0.042, (0 split)
##
         px_height < 286.5 to the left, agree=0.554, adj=0.039, (0 split)
                             to the left, agree=0.550, adj=0.030, (0 split)
##
         int memory < 6.5
```

```
##
                                       complexity param=0.1609524
## Node number 3: 673 observations,
##
    predicted class=3 expected loss=0.4799406 P(node) =0.4807143
##
       class counts:
                         0
                             47
                                   276
                                         350
##
      probabilities: 0.000 0.070 0.410 0.520
##
     left son=6 (318 obs) right son=7 (355 obs)
##
     Primary splits:
##
         ram
                       < 3013.5 to the left, improve=180.93670, (0 missing)
##
         battery_power < 1352.5 to the left, improve= 46.75949, (0 missing)
##
         px_width
                       < 1283 to the left, improve= 31.47901, (0 missing)
##
        px_height
                       < 955
                                to the left, improve= 24.86811, (0 missing)
                       < 10.5 to the left, improve= 7.02468, (0 missing)
##
         int_memory
##
     Surrogate splits:
##
         battery_power < 589
                               to the left, agree=0.548, adj=0.044, (0 split)
##
                               to the right, agree=0.544, adj=0.035, (0 split)
         sc_h
                       < 18.5
##
                       < 4.5
                                to the left, agree=0.541, adj=0.028, (0 split)
         int_memory
##
                       < 1074
                               to the left, agree=0.541, adj=0.028, (0 split)
         px_width
##
         dual sim
                       < 0.5
                                to the left, agree=0.536, adj=0.019, (0 split)
##
## Node number 4: 337 observations
##
     predicted class=0 expected loss=0.1216617 P(node) =0.2407143
       class counts: 296
##
                             41
                                     0
##
      probabilities: 0.878 0.122 0.000 0.000
##
## Node number 5: 390 observations,
                                       complexity param=0.01380952
##
     predicted class=1 expected loss=0.3282051 P(node) =0.2785714
##
       class counts:
                       54
                             262
                                    74
      probabilities: 0.138 0.672 0.190 0.000
##
##
     left son=10 (249 obs) right son=11 (141 obs)
##
     Primary splits:
##
         battery_power < 1466.5 to the left, improve=57.255060, (0 missing)
##
                       < 1508.5 to the left, improve=47.743900, (0 missing)
##
                       < 674.5 to the left, improve=31.980610, (0 missing)
        px_height
##
                       < 1113.5 to the left, improve=29.405230, (0 missing)
        px_width
                               to the left, improve= 3.540274, (0 missing)
##
        n cores
                       < 4.5
##
     Surrogate splits:
##
        px height < 1639.5 to the left, agree=0.649, adj=0.028, (0 split)
##
        talk_time < 3.5
                           to the right, agree=0.646, adj=0.021, (0 split)
##
         px_width < 530.5 to the right, agree=0.644, adj=0.014, (0 split)
##
                   < 1203.5 to the right, agree=0.641, adj=0.007, (0 split)
        ram
##
## Node number 6: 318 observations
##
     predicted class=2 expected loss=0.3081761 P(node) =0.2271429
##
                                   220
       class counts:
                         0
                              47
##
      probabilities: 0.000 0.148 0.692 0.160
##
## Node number 7: 355 observations
     predicted class=3 expected loss=0.1577465 P(node) =0.2535714
##
##
       class counts:
                         0
                               0
                                    56
##
      probabilities: 0.000 0.000 0.158 0.842
##
## Node number 10: 249 observations,
                                        complexity param=0.01285714
##
    predicted class=1 expected loss=0.2730924 P(node) =0.1778571
##
      class counts:
                       54 181
                                    14
```

```
##
      probabilities: 0.217 0.727 0.056 0.000
##
     left son=20 (123 obs) right son=21 (126 obs)
##
     Primary splits:
##
         ram
                       < 1708.5 to the left, improve=46.820460, (0 missing)
##
         px_width
                       < 1479.5 to the left, improve=24.350920, (0 missing)
##
                       < 736
                                to the left, improve=20.883800, (0 missing)
         px height
         battery_power < 1027.5 to the left, improve=15.672300, (0 missing)
##
                                to the right, improve= 6.621616, (0 missing)
##
         sc h
                       < 11.5
##
     Surrogate splits:
##
         sc_w
                       < 4.5
                                to the left, agree=0.574, adj=0.138, (0 split)
##
                       < 1779
                                to the right, agree=0.570, adj=0.130, (0 split)
         px_width
                                to the left, agree=0.558, adj=0.106, (0 split)
##
         battery_power < 558
                                to the left, agree=0.554, adj=0.098, (0 split)
##
                       < 0.5
##
                       < 161.5 to the right, agree=0.554, adj=0.098, (0 split)
         mobile_wt
##
## Node number 11: 141 observations,
                                        complexity param=0.01380952
##
     predicted class=1 expected loss=0.4255319 P(node) =0.1007143
##
       class counts:
                         0
                              81
                                    60
                                           0
##
      probabilities: 0.000 0.574 0.426 0.000
##
     left son=22 (110 obs) right son=23 (31 obs)
##
     Primary splits:
##
         ram
                       < 1941.5 to the left, improve=27.291620, (0 missing)
                                to the left, improve=13.931310, (0 missing)
##
                       < 696
         px_height
                                to the left, improve=12.786660, (0 missing)
##
         px width
                       < 1240
##
                                to the left, improve= 2.607385, (0 missing)
         battery_power < 1990</pre>
##
         int memory
                       < 47.5
                                to the left, improve= 2.351360, (0 missing)
##
  Node number 20: 123 observations,
                                        complexity param=0.01285714
##
     predicted class=1 expected loss=0.4308943 P(node) =0.08785714
##
##
       class counts:
                        53
                              70
##
      probabilities: 0.431 0.569 0.000 0.000
##
     left son=40 (61 obs) right son=41 (62 obs)
##
     Primary splits:
##
                                to the left, improve=22.302360, (0 missing)
         px_height
                       < 598
##
         px width
                       < 994.5 to the left, improve=19.697840, (0 missing)
##
         battery_power < 1027.5 to the left, improve=19.114670, (0 missing)
##
         ram
                       < 1515.5 to the left, improve= 5.609121, (0 missing)
##
                       < 3.5
                                to the left, improve= 4.698548, (0 missing)
         рс
##
     Surrogate splits:
##
                               to the left, agree=0.667, adj=0.328, (0 split)
         px_width
                       < 1085
##
                                to the left, agree=0.626, adj=0.246, (0 split)
         battery_power < 919
                                to the right, agree=0.610, adj=0.213, (0 split)
##
         clock speed
                       < 1.65
                                to the right, agree=0.593, adj=0.180, (0 split)
##
         dual sim
                       < 0.5
##
                                to the right, agree=0.585, adj=0.164, (0 split)
         four_g
                       < 0.5
##
## Node number 21: 126 observations
     predicted class=1 expected loss=0.1190476 P(node) =0.09
##
##
       class counts:
                         1
                             111
                                    14
##
      probabilities: 0.008 0.881 0.111 0.000
##
## Node number 22: 110 observations
    predicted class=1 expected loss=0.2727273 P(node) =0.07857143
##
##
       class counts:
                         0
                              80
                                    30
##
      probabilities: 0.000 0.727 0.273 0.000
```

```
##
## Node number 23: 31 observations
    predicted class=2 expected loss=0.03225806 P(node) =0.02214286
##
      class counts: 0 1
                                   30
##
     probabilities: 0.000 0.032 0.968 0.000
##
## Node number 40: 61 observations
    predicted class=0 expected loss=0.2786885 P(node) =0.04357143
##
      class counts: 44 17 0
##
##
     probabilities: 0.721 0.279 0.000 0.000
## Node number 41: 62 observations
## predicted class=1 expected loss=0.1451613 P(node) =0.04428571
##
      class counts:
                        9
                             53
                                    0
##
     probabilities: 0.145 0.855 0.000 0.000
# 1-2. Single classification tree's confusion matrix and accuracy score
# Accuracy score is 0.775.
fit.pred = predict(fit, newdata = data_test, type = "class")
cm <- table(observed = y_test, predicted = fit.pred)</pre>
cm
          predicted
## observed 0 1
         0 139 11
##
                    0
                         0
##
         1 33 99 18
                         0
##
         2 0 24 94 32
         3 0 0 17 133
##
test_accuary <- mean(fit.pred == y_test)</pre>
test_accuary
## [1] 0.775
# 2-1. Build decision tree while cp = 0.01000000
# Accuracy score is 0.775.
fit_cp = rpart(price_range ~ .,method = "class", data = data_train,control = rpart.control(minsplit = 1
fit_cp.pred = predict(fit_cp, newdata = data_test, type = "class")
test_accuary_cp <- mean(fit_cp.pred == y_test)</pre>
test_accuary_cp
## [1] 0.775
# 3-1. Bagging and random forest
set.seed(810)
```

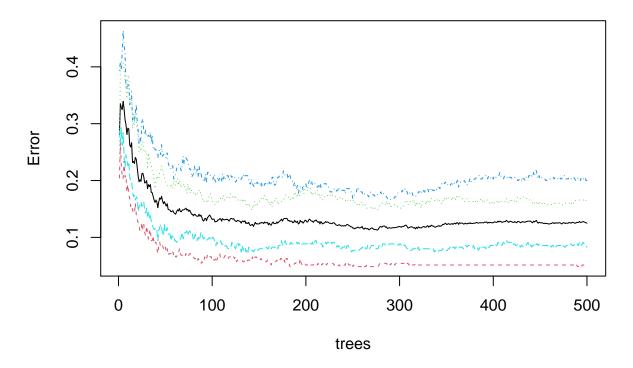
```
bag.data <- randomForest(price_range ~., data = data_train, mytry = 20, importance = TRUE, proximity = '
print(bag.data)
##
## Call:
## randomForest(formula = price_range ~ ., data = data_train, mytry = 20,
                                                                             importance = TRUE, prox
##
                 Type of random forest: classification
                       Number of trees: 500
## No. of variables tried at each split: 4
##
          OOB estimate of error rate: 12.5%
## Confusion matrix:
      0
              2
                  3 class.error
##
         1
                  0 0.05142857
## 0 332 18
              0
## 1 31 292 27
                 0 0.16571429
## 2 0 38 280 32 0.20000000
## 3
      0
         0 29 321 0.08285714
summary(bag.data)
                  Length Class Mode
##
## call
                        6 -none- call
## type
                       1 -none- character
## predicted
                    1400 factor numeric
## err.rate
                   2500 -none- numeric
## confusion
                     20 -none- numeric
## votes
                   5600 matrix numeric
## oob.times
                   1400 -none- numeric
## classes
                        4 -none- character
## importance
                    120 -none- numeric
                     100 -none- numeric
## importanceSD
## localImportance
                        O -none- NULL
## proximity 1960000 -none- numeric
## ntree
                       1 -none- numeric
                        1 -none- numeric
## mtry
## forest
                      14 -none- list
## y
                    1400 factor numeric
                        O -none- NULL
## test
                        0 -none- NULL
## inbag
```

3 terms call

terms

plot(bag.data)

bag.data



```
bag.pred = predict(bag.data, newdata = data_test, type = "class")

test_accuary_bag <- mean(bag.pred == y_test)

test_accuary_bag</pre>
```

[1] 0.8766667

##

##

Confusion matrix:

```
# 3-2. Random Forest using sqrt(p)
set.seed(810)

rFM.data <- randomForest(price_range ~., data = data_train, mytry = sqrt(20), importance = TRUE, proxim
print(rFM.data)

## ## Call:
## randomForest(formula = price_range ~ ., data = data_train, mytry = sqrt(20), importance = TRUE
## Type of random forest: classification</pre>
```

Number of trees: 500

OOB estimate of error rate: 12.5%

 $\mbox{\tt \#\#}$ No. of variables tried at each split: 4

```
## 0 1 2 3 class.error
## 0 332 18 0 0 0.05142857
## 1 31 292 27 0 0.16571429
## 2 0 38 280 32 0.20000000
## 3 0 0 29 321 0.08285714

rFM.pred = predict(rFM.data, newdata = data_test, type = "class")

test_accuary_rFM <- mean(rFM.pred == y_test)

test_accuary_rFM</pre>
```

[1] 0.8766667

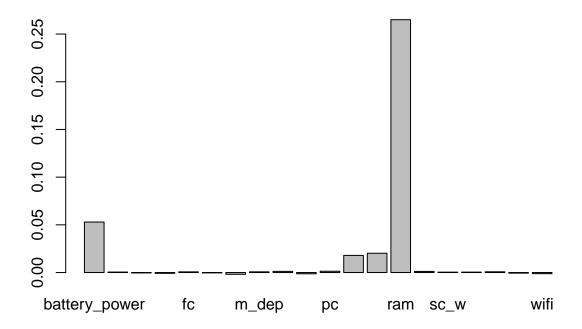
3-3. Random Forest Feature Importance Chart importance(rFM.data)

```
0
## battery_power
                 20.315411783 27.2379966 26.4401697 21.5151653
                 -0.773113710  0.8468215  -0.7073670  1.4176344
## blue
## clock_speed
                  0.533121152 -0.3671219 -0.7728101 0.4665967
## dual_sim
                  0.595019450 -1.5371078 -0.7097531 0.1566308
                  2.071522629 0.7702305 0.2715627 1.3583059
## fc
## four_g
                 0.003579781 -0.7306292 -0.8808096 0.4838791
                 0.973175286 -1.7237171 -0.2883716 2.0023658
## int_memory
## m_dep
                 -0.336016603 0.7072096 2.5705845 0.9633760
## mobile_wt
                 2.920799362 1.0412852 2.8427143 3.3301351
                 0.472187817 -1.4146974 0.8289692 -0.8697330
## n_cores
## pc
                 0.502259046 1.3638927 1.0315031 2.0575466
                 13.119968698 11.7476663 11.5917891 4.8043727
## px_height
                 13.093223962 12.5467641 12.1803913 14.2371085
## px_width
                102.087642597 66.7879289 66.1242760 88.9441201
## ram
## sc h
                 -0.927416275 1.1550124 1.0891801 4.7737409
                 1.803773936 0.4275465 1.0901982 0.2938217
## sc_w
## talk time
                 1.171421641 0.3951997 -1.7808425 -0.9969937
## three_g
                  0.596874983 1.9031053 -0.7952348 -0.7090051
                1.512810378 -1.2257074 -0.6652268 0.4574472
## touch screen
                 -0.399894416 -2.3434997 -0.9525469 0.1612621
## wifi
##
                MeanDecreaseAccuracy MeanDecreaseGini
## battery_power
                          39.7358388
                                           80.225757
## blue
                           0.4227329
                                             7.758244
## clock_speed
                          -0.2034133
                                            30.559829
## dual_sim
                                             7.088138
                          -0.8404799
## fc
                           2.0314417
                                            25.895901
## four_g
                          -0.6001848
                                             6.831351
## int_memory
                           0.3850182
                                            37.835172
                                            26.501218
## m_dep
                          2.0599851
## mobile wt
                          5.0122442
                                            42.575186
## n_cores
                          -0.4607087
                                            23.864487
## pc
                           2.5056751
                                            30.772854
## px_height
                          21.1807316
                                            58.704324
                          24.4945606
                                            61.587355
## px width
## ram
                          97.3703194
                                           497.722544
```

```
## sc_h
                            3.1999096
                                              29.263808
                                              29.691844
## sc_w
                            1.7398295
## talk_time
                           -0.6067494
                                              32.351650
## three_g
                            0.3531520
                                               6.014255
## touch_screen
                           -0.1479079
                                               6.822819
## wifi
                           -2.0292120
                                               7.140585
```

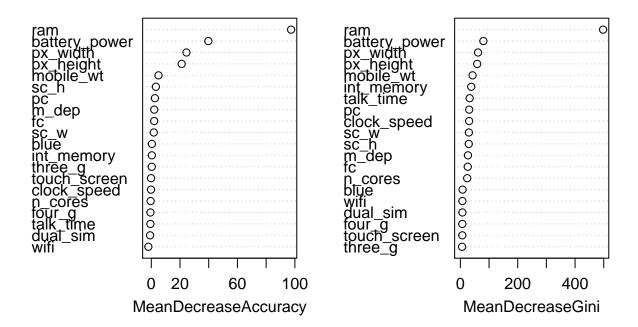
```
# 3-4. Random Forest Feature Importance Barplot
barplot(rFM.data$importance[,2], main = "Feature Importance Barplot")
```

Feature Importance Barplot



```
# 3-5. Random Forest Feature Importance ScatterPlot
varImpPlot(rFM.data, sort = TRUE, n.var = nrow(rFM.data$importance), main = "Feature Importance Scatter"
```

Feature Importance ScatterPlot



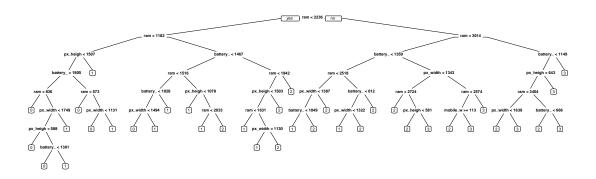
```
# 4-1. Classification trees cross-validation
fit = rpart(price_range ~ .,method = "class", data = data_train,control = rpart.control(minsplit = 1) ,
tr.control = trainControl(method = "cv", number = 3)
cp.grid = expand.grid(.cp = (0:10)*0.01)
tr = train(price_range ~., data = data_train, method = "rpart", trControl = tr.control, tuneGrid = cp.g
tr
## CART
## 1400 samples
##
     20 predictor
      4 classes: '0', '1', '2', '3'
##
##
## No pre-processing
## Resampling: Cross-Validated (3 fold)
## Summary of sample sizes: 935, 932, 933
  Resampling results across tuning parameters:
##
##
          Accuracy
                     Kappa
     0.00 0.8193017 0.7590748
     0.01 0.7957578 0.7276725
##
##
     0.02 0.7521253 0.6695256
##
    0.03 0.7457150 0.6609786
    0.04 0.7457150 0.6609786
```

0.05 0.7457150 0.6609786

##

```
## 0.06 0.7457150 0.6609786
## 0.07 0.7457150 0.6609786
## 0.08 0.7457150 0.6609786
## 0.09 0.7457150 0.6609786
## 0.10 0.7457150 0.6609786
## ## Accuracy was used to select the optimal model using the largest value.
## The final value used for the model was cp = 0.
```

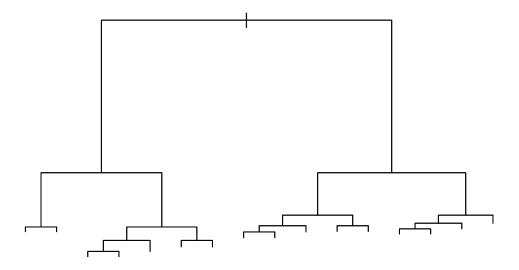
```
# 4-2. Plot best tree
best.tree = tr$finalModel
prp(best.tree)
```



```
# 4-3. Best tree accuracy score is
best.tree.pred = predict(best.tree, newdata = data_test)
test_accuary_cv <- mean(best.tree.pred == y_test)
test_accuary_cv</pre>
```

[1] 0.1408333

```
# 5. Classification tree, textbook method
tree.data = tree(price_range ~., data = data_train)
plot(tree.data)
```



```
tree.pred = predict(tree.data, data_test, type = "class")
table(tree.pred, data_test$price_range)
```

```
## ## tree.pred 0 1 2 3 ## 0 139 33 0 0 ## 1 11 111 41 0 ## 2 0 6 76 11 ## 3 0 0 33 139
```

```
set.seed(810)

cv.data = cv.tree(tree.data)

plot(cv.data$size, cv.data$dev, type = "b")
```



cv.data

```
[1] 16 15 14 13 12 11 10 9 8 7 6
##
##
## $dev
   [1] 1402.683 1470.788 1500.265 1534.336 1555.897 1554.345 1561.259 1556.844
##
    [9] 1559.950 1628.919 1783.879 1782.755 1842.543 2185.217 2535.742 3886.251
##
##
## $k
                                                       48.00002
   [1]
                     40.06300
                                43.23335
##
              -Inf
                                            44.60473
                                                                  48.44745
    [7]
          49.03944
                     52.90116
                                54.58324
                                            68.65486
                                                       90.19778
                                                                  93.64093
## [13]
         114.51011 361.87340 462.72196 1301.52118
##
## $method
## [1] "deviance"
##
## attr(,"class")
## [1] "prune"
                       "tree.sequence"
prune.data = prune.misclass(tree.data, best = 16)
tree.pred = predict(prune.data, data_test, type = "class")
test_accuary_prune <- mean(tree.pred == y_test)</pre>
```

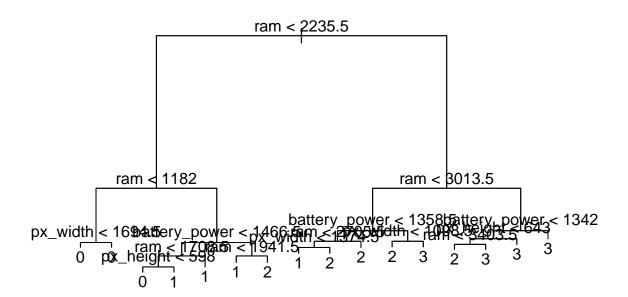
test_accuary_prune

[1] 0.775

```
table(tree.pred, data_test$price_range)
```

```
## ## tree.pred 0 1 2 3 ## 0 139 33 0 0 ## 1 11 111 41 0 ## 2 0 6 76 11 ## 3 0 0 33 139
```

plot(prune.data);text(prune.data, pretty = 0)



6. Boosting and bagging library(adabag)

```
## Loading required package: foreach
```

##

Attaching package: 'foreach'

```
## The following objects are masked from 'package:purrr':
##
##
       accumulate, when
## Loading required package: doParallel
## Loading required package: iterators
## Loading required package: parallel
data.adaboost <- boosting(price_range ~., data = data_train, mfinal = 10, control = rpart.control(maxde</pre>
data.adaboost
## $formula
## price_range ~ .
## $trees
## $trees[[1]]
## n= 1400
## node), split, n, loss, yval, (yprob)
        * denotes terminal node
##
## 1) root 1400 1028 3 (0.24714286 0.24857143 0.23857143 0.26571429)
   2) ram< 2069 663 317 0 (0.52187029 0.41478130 0.06334842 0.000000000) *
    3) ram>=2069 737 365 3 (0.00000000 0.09905020 0.39620081 0.50474898) *
##
## $trees[[2]]
## n= 1400
## node), split, n, loss, yval, (yprob)
         * denotes terminal node
##
##
## 1) root 1400 1016 2 (0.24071429 0.23571429 0.27428571 0.24928571)
     2) ram< 2046 646 309 0 (0.52167183 0.39938080 0.07894737 0.000000000) *
##
    3) ram>=2046 754 405 3 (0.00000000 0.09549072 0.44164456 0.46286472) *
## $trees[[3]]
## n= 1400
##
## node), split, n, loss, yval, (yprob)
##
         * denotes terminal node
##
## 1) root 1400 1012 0 (0.277142857 0.233571429 0.262857143 0.226428571)
    2) ram< 1346 438 80 0 (0.817351598 0.175799087 0.006849315 0.0000000000) *
##
     3) ram>=1346 962 597 2 (0.031185031 0.259875260 0.379417879 0.329521830) *
##
## $trees[[4]]
## n= 1400
##
## node), split, n, loss, yval, (yprob)
        * denotes terminal node
```

##

```
## 1) root 1400 1028 2 (0.250000000 0.245000000 0.265714286 0.239285714)
    2) ram< 1302.5 384 62 0 (0.838541667 0.158854167 0.002604167 0.000000000) *
##
     3) ram>=1302.5 1016 645 2 (0.027559055 0.277559055 0.365157480 0.329724409) *
##
## $trees[[5]]
## n= 1400
## node), split, n, loss, yval, (yprob)
##
        * denotes terminal node
##
## 1) root 1400 1030 1 (0.243571429 0.264285714 0.229285714 0.262857143)
    2) ram< 2366 806 452 1 (0.423076923 0.439205955 0.136476427 0.001240695) *
##
    3) ram>=2366 594 227 3 (0.000000000 0.026936027 0.355218855 0.617845118) *
##
## $trees[[6]]
## n= 1400
##
## node), split, n, loss, yval, (yprob)
        * denotes terminal node
##
##
## 1) root 1400 1017 3 (0.24214286 0.23357143 0.25071429 0.27357143)
   2) ram< 2049 643 304 0 (0.52721617 0.40435459 0.06842924 0.00000000) *
     3) ram>=2049 757 374 3 (0.00000000 0.08850727 0.40554822 0.50594452) *
##
## $trees[[7]]
## n= 1400
##
## node), split, n, loss, yval, (yprob)
        * denotes terminal node
##
## 1) root 1400 1023 3 (0.24500000 0.25285714 0.23285714 0.26928571)
    2) ram< 2171.5 694 351 0 (0.49423631 0.43083573 0.07492795 0.000000000) *
     3) ram>=2171.5 706 329 3 (0.00000000 0.07790368 0.38810198 0.53399433) *
##
## $trees[[8]]
## n= 1400
## node), split, n, loss, yval, (yprob)
##
         * denotes terminal node
##
## 1) root 1400 1028 0 (0.265714286 0.241428571 0.239285714 0.253571429)
    2) ram< 1276 389 51 0 (0.868894602 0.125964010 0.005141388 0.000000000) *
    3) ram>=1276 1011 656 3 (0.033630069 0.285855589 0.329376855 0.351137488) *
##
## $trees[[9]]
## n= 1400
## node), split, n, loss, yval, (yprob)
##
        * denotes terminal node
##
## 1) root 1400 1028 0 (0.265714286 0.247142857 0.239285714 0.247857143)
   2) ram< 1264.5 389 50 0 (0.871465296 0.125964010 0.002570694 0.000000000) *
##
    3) ram>=1264.5 1011 664 3 (0.032640950 0.293768546 0.330365974 0.343224530) *
##
```

```
## $trees[[10]]
## n = 1400
##
## node), split, n, loss, yval, (yprob)
##
         * denotes terminal node
##
## 1) root 1400 1026 1 (0.25214286 0.26714286 0.24642857 0.23428571)
     2) ram< 2178.5 732 379 0 (0.48224044 0.44262295 0.07513661 0.000000000) *
##
##
     3) ram>=2178.5 668 340 3 (0.00000000 0.07485030 0.43413174 0.49101796) *
##
##
##
  $weights
    [1] 0.002000003 0.002000003 0.002000003 0.002000003 0.002000003
##
    [7] 0.002000003 0.002000003 0.002000003 0.002000003
##
##
##
  $votes
##
                  [,1]
                               [,2]
                                           [,3]
                                                       [,4]
##
      [1,] 0.000000000 0.000000000 0.004000005 0.016000021
      [2,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
      [3,] 0.000000000 0.000000000 0.004000005 0.016000021
##
      [4,] 0.010000013 0.002000003 0.004000005 0.004000005
      [5,] 0.018000024 0.002000003 0.000000000 0.000000000
##
      [6,] 0.018000024 0.002000003 0.000000000 0.000000000
##
      [7.] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
      [8,] 0.000000000 0.000000000 0.004000005 0.016000021
##
      [9,] 0.010000013 0.002000003 0.004000005 0.004000005
##
     [10,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [11,] 0.018000024 0.002000003 0.000000000 0.000000000
     [12,] 0.018000024 0.002000003 0.000000000 0.000000000
##
##
     [13,] 0.000000000 0.000000000 0.004000005 0.016000021
     [14,] 0.000000000 0.002000003 0.004000005 0.014000019
##
##
     [15,] 0.010000013 0.002000003 0.004000005 0.004000005
##
     [16,] 0.018000024 0.002000003 0.000000000 0.000000000
     [17,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
     [18,] 0.000000000 0.000000000 0.004000005 0.016000021
     [19,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
     [20,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [21,] 0.000000000 0.002000003 0.004000005 0.014000019
     [22,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [23,] 0.018000024 0.002000003 0.000000000 0.000000000
##
     [24,] 0.012000016 0.002000003 0.002000003 0.004000005
##
##
     [25,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [26,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [27,] 0.004000005 0.002000003 0.004000005 0.010000013
##
     [28,] 0.000000000 0.000000000 0.004000005 0.016000021
     [29,] 0.010000013 0.002000003 0.004000005 0.004000005
##
##
     [30,] 0.010000013 0.002000003 0.004000005 0.004000005
     [31,] 0.018000024 0.002000003 0.000000000 0.000000000
##
##
     [32,] 0.018000024 0.002000003 0.000000000 0.000000000
##
     [33,] 0.000000000 0.000000000 0.004000005 0.016000021
     [34,] 0.016000021 0.002000003 0.000000000 0.002000003
##
##
     [35,] 0.000000000 0.000000000 0.004000005 0.016000021
     [36,] 0.006000008 0.002000003 0.004000005 0.008000011
##
##
     [37,] 0.006000008 0.002000003 0.004000005 0.008000011
```

```
##
     [38,] 0.010000013 0.002000003 0.004000005 0.004000005
     [39,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
     [40,] 0.000000000 0.000000000 0.004000005 0.016000021
     [41,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
     [42,] 0.010000013 0.002000003 0.004000005 0.004000005
     [43,] 0.018000024 0.002000003 0.000000000 0.000000000
##
     [44,] 0.018000024 0.002000003 0.000000000 0.000000000
##
##
     [45,] 0.004000005 0.002000003 0.004000005 0.010000013
##
     [46,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [47,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [48,] 0.000000000 0.000000000 0.004000005 0.016000021
     [49,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
     [50,] 0.018000024 0.002000003 0.000000000 0.000000000
     [51,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
     [52,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [53,] 0.018000024 0.002000003 0.000000000 0.000000000
     [54,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
     [55,] 0.018000024 0.002000003 0.000000000 0.000000000
     [56,] 0.010000013 0.002000003 0.004000005 0.004000005
##
##
     [57,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [58,] 0.010000013 0.002000003 0.004000005 0.004000005
##
     [59,] 0.000000000 0.000000000 0.004000005 0.016000021
     [60,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [61,] 0.010000013 0.002000003 0.004000005 0.004000005
##
     [62,] 0.008000011 0.002000003 0.004000005 0.006000008
##
##
     [63,] 0.018000024 0.002000003 0.000000000 0.000000000
##
     [64,] 0.018000024 0.002000003 0.000000000 0.000000000
     [65,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
     [66,] 0.000000000 0.002000003 0.004000005 0.014000019
##
     [67,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [68,] 0.010000013 0.002000003 0.004000005 0.004000005
##
     [69,] 0.010000013 0.002000003 0.004000005 0.004000005
##
     [70,] 0.018000024 0.002000003 0.000000000 0.000000000
     [71,] 0.010000013 0.002000003 0.004000005 0.004000005
##
##
     [72,] 0.010000013 0.002000003 0.004000005 0.004000005
##
     [73,] 0.010000013 0.002000003 0.004000005 0.004000005
##
     [74,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [75,] 0.012000016 0.002000003 0.002000003 0.004000005
##
     [76,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [77,] 0.018000024 0.002000003 0.000000000 0.000000000
     [78,] 0.018000024 0.002000003 0.000000000 0.000000000
##
##
     [79,] 0.010000013 0.002000003 0.004000005 0.004000005
     [80,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
     [81,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [82,] 0.010000013 0.002000003 0.004000005 0.004000005
     [83,] 0.000000000 0.002000003 0.004000005 0.014000019
##
##
     [84,] 0.018000024 0.002000003 0.000000000 0.000000000
     [85,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
     [86,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [87,] 0.000000000 0.000000000 0.004000005 0.016000021
     [88,] 0.010000013 0.002000003 0.004000005 0.004000005
##
##
     [89,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [90,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [91,] 0.000000000 0.000000000 0.004000005 0.016000021
```

```
##
     [92,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [93,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [94,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [95,] 0.010000013 0.002000003 0.004000005 0.004000005
##
     [96,] 0.000000000 0.000000000 0.004000005 0.016000021
     [97,] 0.018000024 0.002000003 0.000000000 0.000000000
##
     [98.] 0.000000000 0.002000003 0.004000005 0.014000019
##
     [99,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
    [100,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [101,] 0.010000013 0.002000003 0.004000005 0.004000005
    [102,] 0.012000016 0.002000003 0.002000003 0.004000005
    [103,] 0.018000024 0.002000003 0.000000000 0.000000000
##
##
    [104,] 0.000000000 0.000000000 0.004000005 0.016000021
    [105,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [106,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
    [107,] 0.000000000 0.002000003 0.004000005 0.014000019
    [108,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [109,] 0.000000000 0.002000003 0.004000005 0.014000019
##
    [110,] 0.010000013 0.002000003 0.004000005 0.004000005
##
##
    [111,] 0.010000013 0.002000003 0.004000005 0.004000005
##
    [112,] 0.018000024 0.002000003 0.000000000 0.000000000
    [113,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [114,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [115.] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
    [116,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [117,] 0.018000024 0.002000003 0.000000000 0.000000000
    [118,] 0.000000000 0.002000003 0.004000005 0.014000019
##
    [119,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [120,] 0.004000005 0.002000003 0.004000005 0.010000013
##
##
    [121,] 0.006000008 0.002000003 0.004000005 0.008000011
##
    [122,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [123,] 0.010000013 0.002000003 0.004000005 0.004000005
##
    [124,] 0.000000000 0.000000000 0.004000005 0.016000021
    [125,] 0.000000000 0.000000000 0.004000005 0.016000021
##
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  [1286,] 0.010000013 0.002000003 0.004000005 0.004000005
## [1287,] 0.000000000 0.000000000 0.004000005 0.016000021
   [1288,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1289,] 0.010000013 0.002000003 0.004000005 0.004000005
  [1290,] 0.010000013 0.002000003 0.004000005 0.004000005
   [1291,] 0.006000008 0.002000003 0.004000005 0.008000011
  [1292,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1293,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1294,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1295,] 0.010000013 0.002000003 0.004000005 0.004000005
   [1296,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1297,] 0.010000013 0.002000003 0.004000005 0.004000005
  [1298,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1299,] 0.018000024 0.002000003 0.000000000 0.000000000
## [1300,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1301,] 0.018000024 0.002000003 0.000000000 0.000000000
## [1302,] 0.000000000 0.000000000 0.004000005 0.016000021
   [1303.] 0.018000024 0.002000003 0.000000000 0.000000000
  [1304,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1305,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1306,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1307,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1308,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1309,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1310,] 0.018000024 0.002000003 0.000000000 0.000000000
   [1311,] 0.000000000 0.000000000 0.004000005 0.016000021
   [1312,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1313,] 0.012000016 0.002000003 0.002000003 0.004000005
   [1314,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1315,] 0.018000024 0.002000003 0.000000000 0.000000000
## [1316,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1317,] 0.010000013 0.002000003 0.004000005 0.004000005
  [1318,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1319,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1320,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1321,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1322,] 0.002000003 0.002000003 0.004000005 0.012000016
## [1323,] 0.018000024 0.002000003 0.000000000 0.000000000
## [1324,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1325,] 0.018000024 0.002000003 0.000000000 0.000000000
   [1326,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1327,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1328,] 0.018000024 0.002000003 0.000000000 0.000000000
## [1329,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1330,] 0.018000024 0.002000003 0.000000000 0.000000000
## [1331,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1332,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1333,] 0.018000024 0.002000003 0.000000000 0.000000000
```

```
## [1334,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1335,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1336,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1337,] 0.010000013 0.002000003 0.004000005 0.004000005
  [1338,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1339,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1340,] 0.000000000 0.002000003 0.004000005 0.014000019
## [1341,] 0.018000024 0.002000003 0.000000000 0.000000000
   [1342,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1343,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1344,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1345,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1346,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1347,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1348,] 0.010000013 0.002000003 0.004000005 0.004000005
  [1349,] 0.010000013 0.002000003 0.004000005 0.004000005
   [1350,] 0.010000013 0.002000003 0.004000005 0.004000005
   [1351,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1352,] 0.010000013 0.002000003 0.004000005 0.004000005
## [1353,] 0.010000013 0.002000003 0.004000005 0.004000005
## [1354,] 0.010000013 0.002000003 0.004000005 0.004000005
## [1355,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1356,] 0.010000013 0.002000003 0.004000005 0.004000005
## [1357.] 0.000000000 0.002000003 0.004000005 0.014000019
## [1358,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1359,] 0.004000005 0.002000003 0.004000005 0.010000013
  [1360,] 0.018000024 0.002000003 0.000000000 0.000000000
   [1361,] 0.010000013 0.002000003 0.004000005 0.004000005
  [1362,] 0.000000000 0.002000003 0.004000005 0.014000019
  [1363,] 0.010000013 0.002000003 0.004000005 0.004000005
  [1364,] 0.000000000 0.000000000 0.004000005 0.016000021
   [1365,] 0.018000024 0.002000003 0.000000000 0.000000000
   [1366,] 0.006000008 0.002000003 0.004000005 0.008000011
  [1367,] 0.010000013 0.002000003 0.004000005 0.004000005
   [1368,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1369,] 0.018000024 0.002000003 0.000000000 0.000000000
## [1370,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1371,] 0.010000013 0.002000003 0.004000005 0.004000005
## [1372,] 0.010000013 0.002000003 0.004000005 0.004000005
  [1373,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1374,] 0.018000024 0.002000003 0.000000000 0.000000000
  [1375,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1376,] 0.010000013 0.002000003 0.004000005 0.004000005
  [1377,] 0.000000000 0.002000003 0.004000005 0.014000019
## [1378,] 0.018000024 0.002000003 0.000000000 0.000000000
## [1379,] 0.000000000 0.000000000 0.004000005 0.016000021
   [1380,] 0.004000005 0.002000003 0.004000005 0.010000013
  [1381,] 0.000000000 0.000000000 0.004000005 0.016000021
  [1382,] 0.018000024 0.002000003 0.000000000 0.000000000
## [1383,] 0.000000000 0.002000003 0.004000005 0.014000019
## [1384,] 0.010000013 0.002000003 0.004000005 0.004000005
## [1385,] 0.010000013 0.002000003 0.004000005 0.004000005
## [1386,] 0.010000013 0.002000003 0.004000005 0.004000005
## [1387,] 0.014000019 0.002000003 0.000000000 0.004000005
```

```
## [1388,] 0.000000000 0.002000003 0.004000005 0.014000019
## [1389,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1390,] 0.000000000 0.002000003 0.004000005 0.014000019
## [1391,] 0.010000013 0.002000003 0.004000005 0.004000005
## [1392,] 0.010000013 0.002000003 0.004000005 0.004000005
## [1393,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1394.] 0.000000000 0.000000000 0.004000005 0.016000021
## [1395,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1396,] 0.018000024 0.002000003 0.000000000 0.000000000
## [1397,] 0.010000013 0.002000003 0.004000005 0.004000005
## [1398,] 0.000000000 0.000000000 0.004000005 0.016000021
## [1399,] 0.018000024 0.002000003 0.000000000 0.000000000
   [1400,] 0.000000000 0.000000000 0.004000005 0.016000021
##
## $prob
##
           [,1] [,2] [,3] [,4]
##
            0.0 0.0 0.2 0.8
      [1,]
##
      [2,]
            0.0
                 0.0
                      0.2
                            0.8
##
      [3,]
            0.0
                      0.2
                 0.0
                            0.8
##
      [4,]
            0.5
                 0.1
                      0.2
                            0.2
##
      [5,]
            0.9
                 0.1
                      0.0
                            0.0
##
      [6,]
            0.9
                 0.1
                      0.0
##
      [7,]
            0.0
                 0.0
                      0.2
                            0.8
##
      [8,]
            0.0
                 0.0
                      0.2
                            0.8
##
                      0.2
                            0.2
      [9,]
            0.5
                 0.1
##
     [10,]
            0.0
                 0.0
                      0.2
                            0.8
##
     [11,]
            0.9
                 0.1
                      0.0
                            0.0
##
     [12,]
            0.9
                 0.1
                      0.0
                            0.0
##
     [13,]
            0.0
                0.0
                      0.2
                            0.8
##
     [14,]
            0.0
                 0.1
                      0.2
                            0.7
     [15,]
##
            0.5
                 0.1
                      0.2
                            0.2
##
     [16,]
            0.9
                 0.1
                      0.0
                            0.0
##
     [17,]
            0.0
                 0.0
                      0.2
                            0.8
##
                 0.0
                      0.2
     [18,]
            0.0
                            0.8
##
     [19,]
            0.0
                 0.0
                      0.2
                            0.8
##
     [20,]
            0.0
                      0.2
                            0.8
                 0.0
##
     [21,]
            0.0
                 0.1
                      0.2
                            0.7
##
     [22,]
            0.0
                 0.0
                      0.2
                            0.8
##
     [23,]
            0.9
                 0.1
                      0.0
                            0.0
##
     [24,]
            0.6 0.1
                      0.1
                            0.2
##
            0.0
                 0.0
                      0.2
     [25,]
##
     [26,]
            0.0
                 0.0
                      0.2
                            0.8
##
     [27,]
            0.2
                 0.1
                      0.2
                            0.5
##
     [28,]
            0.0
                 0.0
                      0.2
                            0.8
##
     [29,]
            0.5
                 0.1
                      0.2
                            0.2
                            0.2
##
     [30,]
            0.5
                 0.1
                      0.2
##
     [31,]
            0.9
                 0.1
                      0.0
                            0.0
##
                            0.0
     [32,]
            0.9
                 0.1
                      0.0
##
     [33,]
            0.0
                 0.0
                      0.2
                            0.8
##
     [34,]
            0.8
                 0.1
                      0.0
                            0.1
##
            0.0
                      0.2
     [35,]
                 0.0
                            0.8
##
     [36,]
            0.3 0.1
                      0.2
                            0.4
##
     [37,]
            0.3
                 0.1
                      0.2
                            0.4
##
     [38,]
            0.5 0.1 0.2 0.2
```

```
[39,] 0.0 0.0 0.2 0.8
##
##
     [40,]
           0.0 0.0 0.2
                         0.8
                         0.8
##
     [41,]
           0.0 0.0 0.2
##
    [42,]
           0.5
               0.1 0.2
                         0.2
##
     [43,]
           0.9
               0.1 0.0
                         0.0
##
    [44,]
           0.9 0.1 0.0
                         0.0
##
     [45,]
           0.2 0.1
                    0.2
                         0.5
##
     [46,]
           0.0
               0.0 0.2
                         0.8
##
     [47,]
           0.0 0.0 0.2
                         0.8
##
     [48,]
           0.0 0.0 0.2
                         0.8
##
     [49,]
           0.0
               0.0 0.2
                         0.8
##
     [50,]
               0.1 0.0
           0.9
                         0.0
##
     [51,]
           0.0 0.0 0.2
                         0.8
##
     [52,]
           0.0 0.0 0.2
                         0.8
##
     [53,]
           0.9
               0.1 0.0
                         0.0
##
     [54,]
           0.0 0.0 0.2
                         0.8
##
     [55,]
           0.9 0.1 0.0 0.0
           0.5 0.1 0.2 0.2
##
     [56,]
##
     [57,]
           0.0 0.0 0.2 0.8
##
     [58,]
           0.5
               0.1 0.2
                         0.2
##
     [59,]
           0.0 0.0 0.2 0.8
##
     [60,]
           0.0 0.0 0.2
                         0.8
##
     [61,]
           0.5 0.1 0.2
                         0.2
##
     [62,]
           0.4
               0.1 0.2 0.3
##
     [63,]
           0.9 0.1 0.0 0.0
##
     [64,]
           0.9 0.1 0.0
                         0.0
##
     [65,]
           0.0
               0.0 0.2
                         0.8
##
     [66,]
           0.0 0.1 0.2
                         0.7
##
     [67,]
           0.0 0.0 0.2
                         0.8
##
     [68,]
           0.5 0.1 0.2
                         0.2
     [69,]
##
           0.5
               0.1 0.2
                         0.2
##
     [70,]
           0.9 0.1 0.0 0.0
##
           0.5 0.1 0.2 0.2
     [71,]
##
     [72,]
           0.5
               0.1 0.2 0.2
     [73,]
##
           0.5
               0.1 0.2
                         0.2
##
     [74,]
           0.0 0.0 0.2 0.8
##
     [75,]
           0.6 0.1 0.1
                         0.2
##
     [76,]
           0.0
               0.0 0.2
                         0.8
     [77,]
##
           0.9
               0.1 0.0 0.0
##
     [78,]
           0.9 0.1 0.0 0.0
##
     [79,]
           0.5 0.1 0.2 0.2
##
     [80,]
           0.0 0.0 0.2
                         0.8
##
     [81,]
           0.0 0.0 0.2
                         0.8
##
     [82,]
           0.5 0.1 0.2
                         0.2
##
     [83,]
           0.0 0.1 0.2
                         0.7
##
     [84,]
           0.9 0.1 0.0
                         0.0
##
     [85,]
           0.0 0.0 0.2
                         0.8
##
     [86,]
           0.0 0.0 0.2
                         0.8
##
     [87,]
           0.0
               0.0 0.2
                         0.8
##
     [88,]
               0.1 0.2
           0.5
                         0.2
##
     [89,]
           0.0 0.0 0.2
                         0.8
##
           0.0 0.0 0.2 0.8
     [90,]
##
     [91,]
           0.0 0.0 0.2
                         0.8
##
     [92,] 0.0 0.0 0.2 0.8
```

```
[93,]
            0.0 0.0 0.2 0.8
##
##
     [94,]
            0.0 0.0 0.2
                            0.8
                            0.2
##
     [95,]
            0.5
                 0.1
                      0.2
##
            0.0
                 0.0
                      0.2
     [96,]
                            0.8
##
     [97,]
            0.9
                 0.1
                      0.0
                            0.0
##
     [98,]
            0.0 0.1
                      0.2
                            0.7
##
     [99,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [100,]
            0.9
                 0.1
                      0.0
                            0.0
##
    [101,]
            0.5
                 0.1
                      0.2
                            0.2
##
            0.6 0.1
                      0.1
                            0.2
    [102,]
##
    [103,]
            0.9
                 0.1
                      0.0
                            0.0
                      0.2
##
    [104,]
            0.0
                 0.0
                            0.8
    [105,]
##
            0.9
                 0.1
                      0.0
                            0.0
##
    [106,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [107,]
            0.0
                 0.1
                      0.2
                            0.7
##
    [108,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [109,]
            0.0 0.1 0.2
                            0.7
                            0.2
##
    [110,]
            0.5
                 0.1
                      0.2
##
    [111,]
            0.5
                 0.1
                      0.2
                            0.2
##
    [112,]
            0.9
                 0.1
                      0.0
                            0.0
##
    [113,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [114,]
            0.9
                 0.1
                      0.0
                            0.0
##
    [115,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [116,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [117,]
            0.9 0.1 0.0
                            0.0
##
    [118,]
            0.0
                 0.1
                      0.2
                            0.7
##
    [119,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [120,]
            0.2
                 0.1
                      0.2
                            0.5
                      0.2
##
    [121,]
            0.3 0.1
                            0.4
            0.0
##
    [122,]
                 0.0
                      0.2
                            0.8
##
    [123,]
            0.5
                 0.1
                      0.2
                            0.2
##
    [124,]
            0.0
                 0.0
                      0.2
                            0.8
                 0.0
                            0.8
##
    [125,]
            0.0
                      0.2
##
    [126,]
            0.1
                 0.1
                      0.2
                            0.6
##
    [127,]
            0.9
                 0.1
                      0.0
                            0.0
##
    [128,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [129,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [130,]
            0.5
                 0.1
                      0.2
                            0.2
                            0.2
##
    [131,]
            0.5
                 0.1
                      0.2
            0.9 0.1 0.0
                           0.0
##
    [132,]
##
    [133,]
            0.0
                 0.1
                      0.2
                            0.7
##
    [134,]
            0.0
                 0.0
                      0.2
                            0.8
    [135,]
            0.0
                 0.0
                      0.2
                            0.8
##
##
                      0.0
                            0.0
    [136,]
            0.9
                 0.1
##
    [137,]
            0.0
                 0.0
                      0.2
                            0.8
    [138,]
                      0.2
##
            0.0
                 0.0
                            0.8
                 0.0 0.2
    [139,]
                            0.8
##
            0.0
##
    [140,]
                 0.1
                      0.2
                            0.7
            0.0
##
    [141,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [142,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [143,]
            0.5
                 0.1
                      0.2
                            0.2
                           0.2
##
    [144,]
            0.7
                 0.1
                      0.0
##
    [145,]
            0.9
                 0.1 0.0
                            0.0
    [146,]
            0.9 0.1 0.0 0.0
##
```

```
[147,]
            0.0 0.0 0.2 0.8
##
    [148,]
            0.0 0.0
                      0.2
                            0.8
##
    [149,]
            0.0
                 0.1
                       0.2
                            0.7
                       0.2
##
    [150,]
            0.0
                 0.0
                            0.8
##
    [151,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [152,]
            0.9
                 0.1
                      0.0
                            0.0
##
    [153,]
            0.9
                 0.1
                       0.0
                            0.0
    [154,]
            0.0
                 0.0
                       0.2
##
                            0.8
##
    [155,]
            0.0
                 0.0
                       0.2
                            0.8
##
                 0.0
                       0.2
                            0.8
    [156,]
            0.0
##
    [157,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [158,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [159,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [160,]
                       0.2
                            0.8
            0.0
                 0.0
##
    [161,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [162,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [163,]
            0.0 0.1
                       0.2
                            0.7
##
    [164,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [165,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [166,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [167,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [168,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [169,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [170,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [171,]
                 0.1 0.2
                            0.2
            0.5
##
    [172,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [173,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [174,]
            0.5
                       0.2
                            0.2
                 0.1
                       0.2
##
    [175,]
            0.5
                 0.1
                            0.2
##
    [176,]
            0.9
                 0.1
                       0.0
                            0.0
    [177,]
##
            0.0
                 0.0
                       0.2
                            0.8
##
    [178,]
            0.0
                 0.0
                       0.2
                            0.8
                            0.0
##
    [179,]
            0.9
                 0.1
                       0.0
##
    [180,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [181,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [182,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [183,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [184,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [185,]
            0.9
                 0.1
                       0.0
                            0.0
                            0.8
##
    [186,]
            0.0 0.0
                      0.2
##
    [187,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [188,]
            0.0
                 0.0
                       0.2
                            0.8
    [189,]
            0.0
                       0.2
                            0.8
##
                 0.0
##
                       0.0
                            0.0
    [190,]
            0.9
                 0.1
##
    [191,]
            0.0
                       0.2
                            0.8
                 0.0
    [192,]
                       0.2
                            0.2
##
            0.5
                 0.1
    [193,]
                       0.2
                            0.8
##
            0.0
                 0.0
##
                 0.0
                       0.2
                            0.8
    [194,]
            0.0
##
    [195,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [196,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [197,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [198,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [199,]
            0.5
                 0.1
                       0.2
                            0.2
            0.0 0.1 0.2 0.7
##
    [200,]
```

```
[201,]
            0.5 0.1 0.2 0.2
##
    [202,]
            0.0 0.0
                       0.2
                            0.8
##
    [203,]
            0.0
                 0.0
                       0.2
                            0.8
    [204,]
                       0.2
##
            0.0
                 0.0
                            0.8
##
    [205,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [206,]
            0.9
                       0.0
                            0.0
                 0.1
##
    [207,]
            0.5
                 0.1
                       0.2
                            0.2
    [208,]
                       0.2
##
            0.0
                 0.0
                            0.8
##
    [209,]
            0.9
                 0.1
                       0.0
                            0.0
##
                       0.2
                            0.2
    [210,]
            0.5
                 0.1
##
    [211,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [212,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [213,]
            0.9
                 0.1
                       0.0
                            0.0
                       0.2
##
    [214,]
            0.0
                 0.0
                            0.8
##
    [215,]
            0.9
                  0.1
                       0.0
                            0.0
##
    [216,]
            0.5
                  0.1
                       0.2
                            0.2
##
    [217,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [218,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [219,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [220,]
            0.9
                 0.1
                       0.0
                            0.0
            0.0
##
    [221,]
                 0.0
                       0.2
                            0.8
##
    [222,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [223,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [224,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [225,]
                       0.2
                            0.2
            0.5 0.1
##
    [226,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [227,]
            0.0
                 0.0
                       0.2
                            0.8
    [228,]
            0.9
                       0.0
##
                 0.1
                            0.0
##
    [229,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [230,]
            0.9
                 0.1
                       0.0
                            0.0
                       0.2
##
    [231,]
            0.0
                 0.0
                            0.8
##
    [232,]
            0.0
                 0.0
                       0.2
                            0.8
                            0.2
##
    [233,]
            0.5
                 0.1
                       0.2
##
    [234,]
            0.2
                 0.1
                       0.2
                            0.5
##
    [235,]
            0.9
                 0.1
                       0.0
                            0.0
                 0.1
##
    [236,]
            0.5
                       0.2
                            0.2
##
    [237,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [238,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [239,]
            0.0
                 0.0
                       0.2
                            0.8
                            0.0
##
    [240,]
            0.9 0.1 0.0
##
    [241,]
            0.2
                 0.1
                       0.2
                            0.5
##
    [242,]
            0.0
                 0.0
                       0.2
                            0.8
    [243,]
            0.9
                       0.0
##
                 0.1
                            0.0
##
    [244,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [245,]
            0.0
                       0.2
                 0.0
                            0.8
    [246,]
##
            0.0
                 0.0
                       0.2
                            0.8
                            0.8
##
    [247,]
            0.0
                 0.0
                       0.2
##
    [248,]
                 0.0
                       0.2
                            0.8
            0.0
##
    [249,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [250,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [251,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [252,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [253,]
            0.0
                 0.1
                       0.2
                            0.7
            0.9 0.1 0.0 0.0
##
    [254,]
```

```
[255,]
            0.0 0.0 0.2 0.8
##
    [256,]
            0.8
                 0.1
                      0.0
                            0.1
##
    [257,]
            0.9
                 0.1
                       0.0
                            0.0
                       0.2
##
    [258,]
            0.0
                 0.0
                            0.8
##
    [259,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [260,]
            0.5
                 0.1 0.2
                            0.2
##
    [261,]
            0.9
                 0.1
                       0.0
                            0.0
    [262,]
                 0.0
                       0.2
##
            0.0
                            0.8
##
    [263,]
            0.0
                 0.0
                       0.2
                            0.8
##
                       0.2
                            0.8
    [264,]
            0.0 0.0
                 0.1
##
    [265,]
            0.0
                       0.2
                            0.7
##
    [266,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [267,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [268,]
                       0.0
                            0.0
            0.9
                 0.1
##
    [269,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [270,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [271,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [272,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [273,]
            0.0
                 0.1
                       0.2
                            0.7
##
    [274,]
            0.0
                 0.0
                       0.2
                            0.8
                      0.2
##
    [275,]
            0.0
                 0.1
                            0.7
##
    [276,]
            0.0
                 0.0
                       0.2
                            0.8
    [277,]
##
            0.0
                 0.0
                       0.2
                            0.8
##
    [278,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [279,]
            0.2 0.1 0.2
                            0.5
##
    [280,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [281,]
            0.0
                 0.0
                      0.2
                            0.8
    [282,]
            0.5
                       0.2
##
                 0.1
                            0.2
##
    [283,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [284,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [285,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [286,]
            0.0
                 0.0
                      0.2
                            0.8
                            0.2
##
    [287,]
            0.5
                 0.1
                       0.2
##
    [288,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [289,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [290,]
            0.5
                 0.1
                      0.2
                            0.2
##
    [291,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [292,]
            0.0
                 0.1
                       0.2
                            0.7
##
    [293,]
            0.9
                 0.1
                       0.0
                            0.0
                            0.8
##
    [294,]
            0.0 0.0
                      0.2
##
    [295,]
            0.9
                 0.1
                       0.0
                            0.0
    [296,]
##
            0.0
                 0.0
                       0.2
                            0.8
    [297,]
            0.0
                       0.2
##
                 0.1
                            0.7
##
    [298,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [299,]
            0.9
                       0.0
                 0.1
                            0.0
                       0.2
##
    [300,]
            0.5
                 0.1
                            0.2
    [301,]
                       0.2
                            0.8
##
            0.0
                 0.0
##
                       0.2
                            0.5
    [302,]
            0.2
                 0.1
##
    [303,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [304,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [305,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [306,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [307,]
            0.5
                 0.1
                       0.2
                            0.2
            0.5 0.1 0.2 0.2
##
    [308,]
```

```
[309,]
            0.0 0.0 0.2 0.8
##
##
    [310,]
            0.7
                 0.1
                       0.0
                            0.2
##
    [311,]
            0.9
                 0.1
                       0.0
                            0.0
                       0.2
##
    [312,]
            0.0
                 0.0
                            0.8
##
    [313,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [314,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [315,]
            0.0
                 0.0
                       0.2
                            0.8
    [316,]
##
            0.9
                 0.1
                       0.0
                            0.0
##
    [317,]
            0.9
                 0.1
                       0.0
                            0.0
##
                       0.2
                            0.8
    [318,]
            0.0
                 0.0
                 0.1
##
    [319,]
            0.5
                       0.2
                            0.2
##
    [320,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [321,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [322,]
                            0.2
            0.6
                 0.1
                       0.1
##
    [323,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [324,]
            0.0
                 0.1
                       0.2
                            0.7
##
    [325,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [326,]
            0.9
                 0.1
                       0.0
                            0.0
                       0.0
##
    [327,]
            0.9
                 0.1
                            0.0
##
    [328,]
            0.0
                 0.0
                       0.2
                            0.8
                       0.0
##
    [329,]
            0.9
                 0.1
                            0.0
##
    [330,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [331,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [332,]
            0.0
                 0.0
                       0.2
                            0.8
##
                      0.2
                            0.8
    [333,]
            0.0
                 0.0
##
    [334,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [335,]
            0.0
                 0.1
                       0.2
                            0.7
##
    [336,]
            0.0
                       0.2
                 0.0
                            0.8
##
    [337,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [338,]
            0.0
                 0.0
                       0.2
                            0.8
                       0.0
##
    [339,]
            0.9
                 0.1
                            0.0
##
    [340,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [341,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [342,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [343,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [344,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [345,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [346,]
            0.2
                 0.1
                       0.2
                            0.5
##
    [347,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [348,]
            0.4 0.1
                      0.2
                            0.3
##
    [349,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [350,]
            0.0
                 0.0
                       0.2
                            0.8
    [351,]
                       0.2
##
            0.5
                 0.1
                            0.2
##
    [352,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [353,]
            0.0
                       0.2
                 0.0
                            0.8
                       0.0
##
    [354,]
            0.9
                 0.1
                            0.0
##
    [355,]
            0.0
                 0.0
                       0.2
                            0.8
##
                            0.0
    [356,]
            0.9
                 0.1
                       0.0
##
    [357,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [358,]
            0.6
                 0.1
                       0.1
                            0.2
##
    [359,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [360,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [361,]
            0.0
                 0.0
                       0.2
                            0.8
            0.0 0.0 0.2 0.8
##
    [362,]
```

```
##
    [363,]
            0.2 0.1 0.2 0.5
##
    [364,]
            0.0
                 0.0
                       0.2
                            0.8
                            0.2
##
    [365,]
            0.5
                 0.1
                       0.2
                       0.2
##
    [366,]
            0.0
                 0.0
                            0.8
##
    [367,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [368,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [369,]
            0.0
                 0.0
                       0.2
                            0.8
                       0.2
                            0.2
##
    [370,]
            0.5
                 0.1
##
    [371,]
            0.0
                 0.0
                       0.2
                            0.8
##
                       0.2
                            0.8
    [372,]
            0.0
                 0.0
##
    [373,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [374,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [375,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [376,]
                       0.2
                            0.7
            0.0
                 0.1
##
    [377,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [378,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [379,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [380,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [381,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [382,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [383,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [384,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [385,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [386,]
            0.5
                 0.1
                       0.2
                            0.2
##
                       0.2
                            0.8
    [387,]
            0.0
                 0.0
##
    [388,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [389,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [390,]
            0.9
                       0.0
                 0.1
                            0.0
##
    [391,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [392,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [393,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [394,]
            0.9
                  0.1
                       0.0
                            0.0
                            0.2
##
    [395,]
            0.5
                 0.1
                       0.2
##
    [396,]
                 0.1
                       0.2
                            0.2
            0.5
##
    [397,]
            0.0
                 0.0
                       0.2
                            0.8
                 0.1
##
    [398,]
            0.9
                       0.0
                            0.0
##
    [399,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [400,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [401,]
            0.0
                 0.0
                       0.2
                            0.8
                            0.8
##
    [402,]
            0.0
                 0.0
                      0.2
##
    [403,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [404,]
            0.9
                 0.1
                       0.0
                            0.0
    [405,]
            0.0
                       0.2
##
                 0.0
                            0.8
##
    [406,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [407,]
            0.9
                       0.0
                 0.1
                            0.0
                       0.0
##
    [408,]
            0.9
                 0.1
                            0.0
    [409,]
##
            0.0
                 0.0
                       0.2
                            0.8
##
    [410,]
                 0.0
                       0.2
                            0.8
            0.0
##
    [411,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [412,]
            0.9
                  0.1
                       0.0
                            0.0
##
    [413,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [414,]
            0.6
                 0.1
                       0.1
                            0.2
##
    [415,]
            0.9
                 0.1
                       0.0
                            0.0
    [416,]
            0.0 0.0 0.2 0.8
##
```

```
[417,]
            0.0 0.0 0.2 0.8
##
    [418,]
            0.9 0.1 0.0
                           0.0
##
    [419,]
            0.0
                 0.0
                      0.2
                           0.8
    [420,]
##
            0.9
                 0.1
                      0.0
                           0.0
##
    [421,]
            0.9
                 0.1
                      0.0
                           0.0
##
    [422,]
            0.9 0.1
                      0.0
                           0.0
##
    [423,]
            0.0
                 0.0
                      0.2
                            0.8
    [424,]
            0.9
                 0.1
                      0.0
##
                           0.0
##
    [425,]
            0.5
                 0.1
                      0.2
                           0.2
##
                      0.0
                           0.0
    [426,]
            0.9
                 0.1
##
    [427,]
            0.0
                 0.0
                      0.2
                           0.8
##
    [428,]
            0.9
                 0.1
                      0.0
                           0.0
##
    [429,]
            0.0
                 0.0
                      0.2
                           0.8
##
    [430,]
                      0.2
            0.0
                 0.1
                           0.7
##
    [431,]
            0.0
                 0.0
                      0.2
                           0.8
##
    [432,]
            0.6
                 0.1
                      0.1
                           0.2
##
    [433,]
            0.0 0.0 0.2
                           0.8
##
    [434,]
            0.0
                 0.0
                      0.2
                           0.8
##
    [435,]
            0.5
                 0.1 0.2
                           0.2
##
    [436,]
            0.0
                 0.0
                      0.2
                           0.8
##
    [437,]
            0.9
                 0.1 0.0
                           0.0
##
    [438,]
            0.5
                 0.1
                      0.2
                            0.2
##
    [439,]
            0.0
                 0.1
                      0.2
                           0.7
##
    [440,]
            0.9
                 0.1
                      0.0
                           0.0
##
    [441,]
                      0.0
                           0.0
            0.9 0.1
##
    [442,]
            0.9
                 0.1
                      0.0
                           0.0
##
    [443,]
            0.5
                 0.1
                      0.2
                           0.2
    [444,]
            0.0
                 0.0
                      0.2
##
                           0.8
##
    [445,]
            0.0
                0.0
                      0.2
                           0.8
##
    [446,]
            0.5
                 0.1
                      0.2
                           0.2
    [447,]
##
            0.0
                 0.0
                      0.2
                           0.8
##
    [448,]
            0.0
                 0.1
                      0.2
                           0.7
                           0.0
##
    [449,]
            0.9
                 0.1
                      0.0
##
    [450,]
            0.5
                 0.1
                      0.2
                           0.2
##
    [451,]
            0.0
                 0.0
                      0.2
                           0.8
##
    [452,]
            0.5
                 0.1 0.2
                           0.2
##
    [453,]
            0.0
                 0.0
                      0.2
                           0.8
##
    [454,]
            0.0
                 0.1
                      0.2
                           0.7
##
    [455,]
            0.0
                 0.0
                      0.2
                           0.8
                           0.0
##
    [456,]
            0.9 0.1 0.0
##
    [457,]
            0.0
                 0.0
                      0.2
                           0.8
##
    [458,]
            0.5
                 0.1 0.2
                           0.2
    [459,]
            0.5
                      0.2
                           0.2
##
                 0.1
##
                           0.0
    [460,]
            0.9
                 0.1
                      0.0
##
    [461,]
            0.9
                           0.0
                 0.1
                      0.0
    [462,]
                      0.2
                           0.2
##
            0.5
                 0.1
    [463,]
                      0.0
                           0.0
##
            0.9
                 0.1
##
    [464,]
                 0.1
                      0.0
                           0.0
            0.9
##
    [465,]
            0.9
                 0.1
                      0.0
                           0.0
##
    [466,]
            0.0
                 0.0
                      0.2
                           0.8
##
    [467,]
            0.0
                 0.0
                      0.2
                           0.8
##
    [468,]
            0.5 0.1
                      0.2
                           0.2
                           0.0
##
    [469,]
            0.9
                 0.1 0.0
    [470,]
           0.5 0.1 0.2 0.2
##
```

```
[471,]
            0.9 0.1 0.0 0.0
##
    [472,]
            0.0 0.0
                       0.2
                            0.8
##
    [473,]
            0.0
                 0.0
                       0.2
                            0.8
    [474,]
                       0.2
##
            0.0
                 0.0
                            0.8
##
    [475,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [476,]
            0.0 0.0
                      0.2
                            0.8
##
    [477,]
            0.2
                 0.1
                       0.2
                            0.5
    [478,]
            0.9
                 0.1
                       0.0
##
                            0.0
##
    [479,]
            0.9
                 0.1
                       0.0
                            0.0
##
            0.0 0.0
                       0.2
                            0.8
    [480,]
##
    [481,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [482,]
            0.7
                 0.1
                       0.0
                            0.2
##
    [483,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [484,]
                       0.2
            0.0
                 0.1
                            0.7
##
    [485,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [486,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [487,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [488,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [489,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [490,]
            0.0
                 0.0
                       0.2
                            0.8
            0.9
                       0.0
##
    [491,]
                 0.1
                            0.0
##
    [492,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [493,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [494,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [495,]
                 0.0
                       0.2
                            0.8
            0.0
    [496,]
##
            0.9
                 0.1
                       0.0
                            0.0
##
    [497,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [498,]
            0.0
                       0.2
                 0.0
                            0.8
##
    [499,]
            0.9
                 0.1
                       0.0
                            0.0
    [500,]
##
            0.0
                 0.0
                       0.2
                            0.8
##
    [501,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [502,]
            0.9
                 0.1
                       0.0
                            0.0
                            0.2
##
    [503,]
            0.5
                 0.1
                       0.2
##
    [504,]
                 0.1
                       0.0
                            0.0
            0.9
##
    [505,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [506,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [507,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [508,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [509,]
            0.0
                 0.0
                       0.2
                            0.8
                            0.8
##
    [510,]
            0.0 0.0 0.2
##
    [511,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [512,]
            0.0
                 0.0
                       0.2
                            0.8
    [513,]
            0.0
                       0.2
##
                 0.1
                            0.7
##
                       0.2
    [514,]
            0.0
                 0.0
                            0.8
##
    [515,]
            0.0
                       0.2
                            0.8
                 0.0
    [516,]
                       0.0
##
            0.9
                 0.1
                            0.0
    [517,]
##
            0.0
                 0.0
                       0.2
                            0.8
##
    [518,]
                 0.0
                       0.2
                            0.8
            0.0
##
    [519,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [520,]
            0.0
                 0.1
                       0.2
                            0.7
##
    [521,]
            0.6
                 0.1
                       0.1
                            0.2
##
    [522,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [523,]
            0.0
                 0.0 0.2
                            0.8
    [524,]
            0.9 0.1 0.0 0.0
##
```

```
[525,]
##
            0.0 0.0 0.2 0.8
##
    [526,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [527,]
            0.9
                 0.1
                       0.0
                            0.0
                       0.0
##
    [528,]
            0.9
                 0.1
                            0.0
##
    [529,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [530,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [531,]
            0.5
                 0.1
                       0.2
                             0.2
    [532,]
                       0.2
##
            0.0
                 0.0
                             0.8
##
    [533,]
            0.2
                 0.1
                       0.2
                            0.5
##
                       0.2
                            0.8
    [534,]
            0.0
                 0.0
                 0.0
##
    [535,]
            0.0
                       0.2
                            0.8
##
    [536,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [537,]
            0.9
                 0.1
                       0.0
                            0.0
                       0.2
##
    [538,]
                            0.2
            0.5
                 0.1
##
    [539,]
            0.0
                 0.0
                       0.2
                             0.8
##
    [540,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [541,]
                 0.1
                       0.0
                            0.0
            0.9
##
    [542,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [543,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [544,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [545,]
            0.1
                 0.1
                       0.2
                            0.6
##
    [546,]
            0.9
                 0.1
                       0.0
                             0.0
    [547,]
##
            0.0
                 0.0
                       0.2
                            0.8
##
    [548,]
            0.0
                 0.0
                       0.2
                            0.8
##
                 0.0
                      0.2
                            0.8
    [549,]
            0.0
##
    [550,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [551,]
            0.0
                 0.0
                       0.2
                            0.8
    [552,]
            0.5
                       0.2
##
                 0.1
                            0.2
##
    [553,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [554,]
            0.0
                 0.0
                       0.2
                             0.8
##
    [555,]
            0.5
                  0.1
                       0.2
                            0.2
            0.9
##
    [556,]
                 0.1
                       0.0
                            0.0
                            0.8
##
    [557,]
            0.0
                 0.0
                       0.2
##
    [558,]
                 0.1
                       0.2
                            0.2
            0.5
##
    [559,]
            0.6
                 0.1
                       0.1
                            0.2
##
    [560,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [561,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [562,]
            0.0
                 0.0
                       0.2
                             0.8
##
    [563,]
            0.0
                 0.0
                       0.2
                            0.8
                            0.2
##
    [564,]
                 0.1
                       0.0
            0.7
##
    [565,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [566,]
            0.5
                 0.1
                       0.2
                            0.2
    [567,]
            0.9
                       0.0
##
                 0.1
                            0.0
##
    [568,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [569,]
            0.0
                       0.2
                 0.0
                             0.8
##
    [570,]
            0.5
                 0.1
                       0.2
                             0.2
    [571,]
                       0.0
##
            0.9
                  0.1
                            0.0
##
                 0.0
                       0.2
                            0.8
    [572,]
            0.0
##
    [573,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [574,]
            0.5
                  0.1
                       0.2
                            0.2
##
    [575,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [576,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [577,]
            0.0
                 0.0
                       0.2
                            0.8
            0.0 0.0 0.2 0.8
##
    [578,]
```

```
[579,]
            0.0 0.0 0.2 0.8
##
##
    [580,]
            0.0 0.0 0.2
                            0.8
##
    [581,]
            0.0
                 0.0
                      0.2
                            0.8
                      0.2
##
    [582,]
            0.0
                 0.0
                            0.8
##
    [583,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [584,]
            0.0 0.0
                      0.2
                            0.8
##
    [585,]
            0.0
                 0.0
                      0.2
                            0.8
    [586,]
                 0.0
                      0.2
##
            0.0
                            0.8
##
    [587,]
            0.0
                 0.0
                      0.2
                            0.8
##
                      0.2
                            0.8
    [588,]
            0.0 0.0
##
    [589,]
            0.0
                 0.1
                      0.2
                            0.7
##
    [590,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [591,]
            0.9
                 0.1
                      0.0
                            0.0
##
    [592,]
            0.9
                 0.1
                      0.0
                            0.0
##
    [593,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [594,]
            0.9
                 0.1
                      0.0
                            0.0
##
    [595,]
            0.9
                 0.1
                      0.0
                            0.0
##
    [596,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [597,]
            0.5
                 0.1
                      0.2
                            0.2
##
    [598,]
            0.9
                 0.1
                      0.0
                            0.0
##
    [599,]
            0.0 0.1
                      0.2
                            0.7
##
    [600,]
            0.5
                 0.1
                      0.2
                            0.2
##
    [601,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [602,]
            0.0
                 0.1
                      0.2
                            0.7
##
                      0.1
                            0.2
    [603,]
            0.6 0.1
##
    [604,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [605,]
            0.2
                 0.1
                      0.2
                            0.5
##
    [606,]
            0.5
                      0.2
                 0.1
                            0.2
##
    [607,]
            0.0
                0.0
                      0.2
                            0.8
##
    [608,]
            0.9
                 0.1
                      0.0
                            0.0
                      0.2
##
    [609,]
            0.0
                 0.0
                            0.8
##
    [610,]
            0.0
                 0.0
                      0.2
                            0.8
                            0.2
##
    [611,]
            0.5
                 0.1
                      0.2
##
    [612,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [613,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [614,]
            0.0
                 0.0
                      0.2
                            0.8
##
    [615,]
            0.0
                 0.1
                      0.2
                            0.7
##
    [616,]
            0.9
                 0.1
                      0.0
                            0.0
##
    [617,]
            0.7
                 0.1
                      0.0
                            0.2
                            0.0
##
    [618,]
            0.9 0.1
                      0.0
##
    [619,]
            0.9
                 0.1
                      0.0
                            0.0
##
    [620,]
            0.0
                 0.0
                      0.2
                            0.8
    [621,]
            0.0
                      0.2
##
                 0.0
                            0.8
##
                      0.2
                            0.8
    [622,]
            0.0
                 0.0
##
    [623,]
            0.0
                      0.2
                            0.8
                 0.0
    [624,]
                      0.2
                            0.2
##
            0.5
                 0.1
    [625,]
                      0.2
                            0.8
##
            0.0
                 0.0
##
    [626,]
                 0.0
                      0.2
                            0.8
            0.0
##
    [627,]
            0.9
                 0.1
                      0.0
                            0.0
##
    [628,]
            0.5
                 0.1
                      0.2
                            0.2
##
    [629,]
            0.5
                 0.1
                      0.2
                            0.2
##
    [630,]
            0.0 0.0
                      0.2
                            0.8
##
    [631,]
            0.0 0.0 0.2
                            0.8
            0.6 0.1 0.1 0.2
##
    [632,]
```

```
[633,]
            0.0 0.0 0.2 0.8
##
##
    [634,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [635,]
            0.9
                 0.1
                       0.0
                            0.0
                       0.2
##
    [636,]
            0.0
                 0.0
                            0.8
##
    [637,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [638,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [639,]
            0.9
                 0.1
                       0.0
                             0.0
    [640,]
                       0.2
##
            0.0
                 0.0
                             0.8
##
    [641,]
            0.9
                  0.1
                       0.0
                            0.0
##
                       0.0
                            0.0
    [642,]
            0.9
                 0.1
##
    [643,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [644,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [645,]
            0.0
                 0.0
                       0.2
                            0.8
                       0.2
##
    [646,]
                            0.8
            0.0
                 0.0
##
    [647,]
            0.9
                  0.1
                       0.0
                             0.0
##
    [648,]
            0.5
                  0.1
                       0.2
                            0.2
##
    [649,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [650,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [651,]
            0.2
                 0.1
                       0.2
                            0.5
##
    [652,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [653,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [654,]
            0.9
                 0.1
                       0.0
                             0.0
##
    [655,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [656,]
            0.0
                 0.0
                       0.2
                            0.8
##
                 0.0
                      0.2
                            0.8
    [657,]
            0.0
##
    [658,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [659,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [660,]
                       0.2
            0.0
                 0.0
                            0.8
##
    [661,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [662,]
            0.0
                  0.0
                       0.2
                             0.8
                       0.0
##
    [663,]
            0.9
                  0.1
                            0.0
##
    [664,]
            0.5
                 0.1
                       0.2
                            0.2
                            0.0
##
    [665,]
            0.9
                  0.1
                       0.0
##
    [666,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [667,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [668,]
            0.1
                 0.1
                       0.2
                            0.6
##
    [669,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [670,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [671,]
            0.8
                 0.1
                       0.0
                            0.1
                            0.2
##
    [672,]
            0.5
                 0.1
                       0.2
##
    [673,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [674,]
            0.0
                 0.0
                       0.2
                            0.8
    [675,]
            0.9
                       0.0
##
                 0.1
                            0.0
##
    [676,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [677,]
            0.0
                       0.2
                             0.8
                 0.0
    [678,]
                       0.2
##
            0.0
                 0.0
                            0.8
                       0.2
                            0.2
##
    [679,]
            0.5
                  0.1
##
    [680,]
                 0.1
                       0.0
                            0.0
            0.9
##
    [681,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [682,]
            0.6
                 0.1
                       0.1
                            0.2
##
    [683,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [684,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [685,]
            0.9
                 0.1
                       0.0
                            0.0
            0.9 0.1 0.0 0.0
##
    [686,]
```

```
0.0 0.0 0.2 0.8
##
    [687,]
##
    [688,]
            0.5
                 0.1
                      0.2
                            0.2
##
    [689,]
            0.9
                 0.1
                       0.0
                            0.0
                       0.2
##
    [690,]
            0.0
                 0.0
                            0.8
##
    [691,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [692,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [693,]
            0.9
                 0.1
                       0.0
                            0.0
                 0.1
                       0.0
##
    [694,]
            0.9
                            0.0
##
    [695,]
            0.0
                 0.0
                       0.2
                            0.8
##
                       0.2
                            0.8
    [696,]
            0.0
                 0.0
                 0.1
##
    [697,]
            0.5
                       0.2
                            0.2
##
    [698,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [699,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [700,]
                       0.2
                            0.2
            0.5
                 0.1
##
    [701,]
            0.9
                  0.1
                       0.0
                            0.0
##
    [702,]
            0.9
                  0.1
                       0.0
                            0.0
##
    [703,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [704,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [705,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [706,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [707,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [708,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [709,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [710,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [711,]
                       0.2
                            0.8
            0.0
                 0.0
##
    [712,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [713,]
            0.9
                 0.1
                       0.0
                            0.0
    [714,]
            0.5
                       0.2
##
                 0.1
                            0.2
##
    [715,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [716,]
            0.5
                  0.1
                       0.2
                            0.2
    [717,]
##
            0.0
                 0.0
                       0.2
                            0.8
##
    [718,]
            0.5
                 0.1
                       0.2
                            0.2
                            0.0
##
    [719,]
            0.9
                 0.1
                       0.0
##
    [720,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [721,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [722,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [723,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [724,]
            0.0
                 0.1
                       0.2
                            0.7
##
    [725,]
            0.0
                 0.0
                       0.2
                            0.8
                            0.0
##
    [726,]
            0.9
                 0.1 0.0
##
    [727,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [728,]
            0.0
                 0.0
                       0.2
                            0.8
    [729,]
                       0.2
##
            0.5
                 0.1
                            0.2
##
                       0.0
                            0.0
    [730,]
            0.9
                 0.1
##
    [731,]
            0.0
                       0.2
                            0.8
                 0.0
    [732,]
                       0.2
                            0.2
##
            0.5
                 0.1
    [733,]
                       0.0
                            0.0
##
            0.9
                  0.1
##
    [734,]
                 0.0
                       0.2
                            0.8
            0.0
##
    [735,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [736,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [737,]
            0.5
                       0.2
                            0.2
                 0.1
##
    [738,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [739,]
            0.5
                 0.1 0.2
                            0.2
            0.9 0.1 0.0 0.0
##
    [740,]
```

```
[741,]
            0.0 0.1 0.2 0.7
##
    [742,]
            0.0
                 0.0
                       0.2
                            0.8
    [743,]
##
            0.5
                 0.1
                       0.2
                            0.2
                       0.2
##
    [744,]
            0.0
                 0.0
                            0.8
##
    [745,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [746,]
            0.0 0.0
                       0.2
                            0.8
##
    [747,]
            0.9
                 0.1
                       0.0
                            0.0
                       0.0
##
    [748,]
            0.9
                 0.1
                            0.0
##
    [749,]
            0.9
                 0.1
                       0.0
                            0.0
##
                       0.0
                            0.0
    [750,]
            0.9
                 0.1
                 0.0
##
    [751,]
            0.0
                       0.2
                            0.8
##
    [752,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [753,]
            0.0
                 0.0
                       0.2
                            0.8
                       0.0
##
    [754,]
            0.9
                 0.1
                            0.0
##
    [755,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [756,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [757,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [758,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [759,]
            0.2
                 0.1
                       0.2
                            0.5
##
    [760,]
            0.0
                 0.0
                       0.2
                            0.8
                       0.2
##
    [761,]
            0.0
                 0.0
                            0.8
##
    [762,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [763,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [764,]
            0.0
                 0.1
                       0.2
                            0.7
                            0.7
##
                       0.2
    [765,]
            0.0 0.1
##
    [766,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [767,]
            0.9
                 0.1
                       0.0
                            0.0
    [768,]
            0.5
                       0.2
##
                 0.1
                            0.2
##
    [769,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [770,]
            0.8
                 0.1
                       0.0
                            0.1
                       0.0
##
    [771,]
            0.9
                  0.1
                            0.0
##
    [772,]
            0.0
                 0.0
                       0.2
                            0.8
                            0.2
##
    [773,]
            0.5
                 0.1
                       0.2
##
    [774,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [775,]
            0.0
                 0.0
                       0.2
                            0.8
            0.0
##
    [776,]
                 0.0
                      0.2
                            0.8
##
    [777,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [778,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [779,]
            0.0
                 0.0
                       0.2
                            0.8
                            0.8
##
    [780,]
            0.0 0.0 0.2
##
    [781,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [782,]
            0.0
                 0.0
                       0.2
                            0.8
    [783,]
            0.0
                       0.2
##
                 0.0
                            0.8
##
                       0.2
    [784,]
            0.0
                 0.0
                            0.8
##
    [785,]
            0.0
                       0.2
                 0.0
                            0.8
    [786,]
                       0.2
##
            0.0
                 0.0
                            0.8
    [787,]
                       0.2
                            0.5
##
            0.2
                 0.1
##
    [788,]
                       0.2
                            0.7
            0.0
                 0.1
##
    [789,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [790,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [791,]
            0.7
                  0.1
                       0.0
                            0.2
##
    [792,]
            0.2 0.1
                       0.2
                            0.5
##
    [793,]
            0.0
                 0.1
                       0.2
                            0.7
            0.9 0.1 0.0 0.0
##
    [794,]
```

```
[795,]
            0.0 0.0 0.2 0.8
##
    [796,]
            0.9
                 0.1
                      0.0
                            0.0
##
    [797,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [798,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [799,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [800,]
            0.2 0.1 0.2
                            0.5
##
    [801,]
            0.0
                 0.1
                       0.2
                            0.7
    [802,]
                       0.2
##
            0.0
                 0.0
                            0.8
##
    [803,]
            0.5
                 0.1
                       0.2
                            0.2
##
                       0.2
                            0.2
    [804,]
            0.5
                 0.1
##
    [805,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [806,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [807,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [808,]
                       0.2
                            0.2
            0.5
                 0.1
##
    [809,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [810,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [811,]
            0.0
                 0.1
                       0.2
                            0.7
##
    [812,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [813,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [814,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [815,]
            0.0
                 0.1
                      0.2
                            0.7
##
    [816,]
            0.5
                 0.1
                       0.2
                            0.2
    [817,]
##
            0.0
                 0.0
                       0.2
                            0.8
##
    [818,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [819,]
                       0.1
                            0.2
            0.6 0.1
##
    [820,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [821,]
            0.9
                 0.1
                       0.0
                            0.0
    [822,]
            0.0
                       0.2
##
                 0.0
                            0.8
##
    [823,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [824,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [825,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [826,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [827,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [828,]
                 0.1
                       0.0
                            0.0
            0.9
##
    [829,]
            0.0
                 0.0
                       0.2
                            0.8
                 0.1
##
    [830,]
            0.9
                      0.0
                            0.0
##
    [831,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [832,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [833,]
            0.2
                 0.1
                       0.2
                            0.5
                            0.8
##
    [834,]
            0.0 0.0
                       0.2
##
    [835,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [836,]
            0.0
                 0.0
                       0.2
                            0.8
    [837,]
            0.9
                       0.0
##
                 0.1
                            0.0
##
    [838,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [839,]
            0.9
                       0.0
                 0.1
                            0.0
                       0.2
##
    [840,]
            0.5
                 0.1
                            0.2
                       0.2
##
    [841,]
            0.0
                 0.1
                            0.7
##
                 0.0
                       0.2
                            0.8
    [842,]
            0.0
##
    [843,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [844,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [845,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [846,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [847,]
            0.5
                 0.1
                       0.2
                            0.2
            0.0 0.0 0.2 0.8
##
    [848,]
```

```
##
    [849,]
            0.5 0.1 0.2 0.2
##
    [850,]
            0.5
                 0.1
                       0.2
                             0.2
##
    [851,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [852,]
            0.9
                  0.1
                       0.0
                             0.0
##
    [853,]
            0.0
                  0.1
                       0.2
                             0.7
##
    [854,]
            0.9
                       0.0
                             0.0
                 0.1
##
    [855,]
            0.0
                  0.0
                       0.2
                             0.8
                  0.1
##
    [856,]
            0.9
                       0.0
                             0.0
##
    [857,]
            0.0
                  0.0
                       0.2
                             0.8
##
                       0.2
                             0.2
    [858,]
            0.5
                  0.1
##
    [859,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [860,]
            0.2
                  0.1
                       0.2
                             0.5
##
    [861,]
            0.5
                  0.1
                       0.2
                             0.2
##
    [862,]
                       0.2
                             0.8
            0.0
                  0.0
##
    [863,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [864,]
            0.9
                  0.1
                       0.0
                             0.0
##
    [865,]
            0.5
                  0.1
                       0.2
                             0.2
##
    [866,]
            0.0
                  0.0
                       0.2
                             0.8
##
            0.0
                  0.0
                       0.2
                             0.8
    [867,]
##
    [868,]
            0.9
                  0.1
                       0.0
                             0.0
##
    [869,]
            0.9
                  0.1
                       0.0
                             0.0
##
    [870,]
            0.9
                  0.1
                       0.0
                             0.0
##
    [871,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [872,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [873,]
                       0.0
                             0.0
            0.9
                 0.1
##
    [874,]
            0.9
                  0.1
                       0.0
                             0.0
##
    [875,]
            0.9
                  0.1
                       0.0
                             0.0
    [876,]
            0.2
                       0.2
##
                  0.1
                             0.5
##
    [877,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [878,]
            0.9
                  0.1
                       0.0
                             0.0
##
    [879,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [880,]
            0.5
                  0.1
                       0.2
                             0.2
##
    [881,]
            0.9
                  0.1
                       0.0
                             0.0
##
    [882,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [883,]
            0.9
                  0.1
                       0.0
                             0.0
##
    [884,]
            0.0
                 0.0
                       0.2
                             0.8
##
    [885,]
            0.0
                  0.1
                       0.2
                             0.7
##
    [886,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [887,]
            0.9
                  0.1
                       0.0
                             0.0
                             0.0
##
    [888,]
            0.9
                 0.1
                       0.0
##
    [889,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [890,]
            0.0
                  0.0
                       0.2
                             0.8
    [891,]
                       0.2
##
            0.5
                  0.1
                             0.2
##
    [892,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [893,]
            0.5
                       0.2
                             0.2
                  0.1
                       0.0
##
    [894,]
            0.9
                  0.1
                             0.0
##
    [895,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [896,]
                       0.0
                             0.0
            0.9
                  0.1
##
    [897,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [898,]
            0.9
                  0.1
                       0.0
                             0.0
    [899,]
##
            0.0
                  0.0
                       0.2
                             0.8
##
    [900,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [901,]
            0.6
                  0.1
                       0.1
                             0.2
            0.9 0.1 0.0 0.0
##
    [902,]
```

```
[903,]
            0.0 0.0 0.2 0.8
##
##
    [904,]
            0.9
                 0.1
                       0.0
                            0.0
    [905,]
##
            0.7
                 0.1
                       0.0
                            0.2
                       0.2
##
    [906,]
            0.0
                 0.0
                            0.8
##
    [907,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [908,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [909,]
            0.5
                 0.1
                       0.2
                            0.2
                       0.0
##
    [910,]
            0.9
                 0.1
                            0.0
##
    [911,]
            0.0
                 0.0
                       0.2
                            0.8
##
                       0.2
                            0.2
    [912,]
            0.5
                 0.1
##
    [913,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [914,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [915,]
            0.7
                 0.1
                       0.0
                            0.2
                       0.2
##
    [916,]
                            0.8
            0.0
                 0.0
##
    [917,]
            0.0
                 0.1
                       0.2
                            0.7
##
    [918,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [919,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [920,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [921,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [922,]
            0.9
                 0.1
                       0.0
                            0.0
    [923,]
##
            0.0
                 0.0
                       0.2
                            0.8
##
    [924,]
            0.2
                 0.1
                       0.2
                            0.5
##
    [925,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [926,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [927,]
                 0.0
                       0.2
                            0.8
            0.0
##
    [928,]
            0.2
                 0.1
                       0.2
                            0.5
##
    [929,]
            0.0
                 0.0
                       0.2
                            0.8
    [930,]
            0.2
                       0.2
##
                 0.1
                            0.5
##
    [931,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [932,]
            0.9
                 0.1
                       0.0
                            0.0
                       0.0
##
    [933,]
            0.9
                 0.1
                            0.0
##
    [934,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [935,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [936,]
                 0.1
                       0.2
                            0.2
            0.5
##
    [937,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [938,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [939,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [940,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [941,]
            0.2
                 0.1
                       0.2
                            0.5
                            0.0
##
    [942,]
            0.9 0.1
                       0.0
##
    [943,]
            0.9
                 0.1
                       0.0
                            0.0
##
    [944,]
            0.5
                 0.1
                       0.2
                            0.2
    [945,]
                       0.1
##
            0.6
                 0.1
                            0.2
##
    [946,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [947,]
            0.0
                       0.2
                 0.0
                            0.8
                       0.2
##
    [948,]
            0.0
                 0.0
                            0.8
                       0.2
                            0.8
##
    [949,]
            0.0
                 0.0
##
                 0.0
                       0.2
                            0.8
    [950,]
            0.0
##
    [951,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [952,]
            0.0
                 0.1
                       0.2
                            0.7
##
    [953,]
            0.5
                 0.1
                       0.2
                            0.2
##
    [954,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [955,]
            0.5
                 0.1
                       0.2
                            0.2
    [956,]
            0.0 0.0 0.2 0.8
##
```

```
0.0 0.0 0.2
##
    [957,]
                            0.8
##
    [958,]
            0.0
                 0.0
                       0.2
                            0.8
##
    [959,]
            0.9
                  0.1
                       0.0
                            0.0
                       0.2
##
    [960,]
            0.0
                  0.0
                            0.8
##
    [961,]
            0.0
                  0.0
                       0.2
                            0.8
##
    [962,]
                       0.0
                            0.2
            0.7
                  0.1
##
    [963,]
            0.0
                  0.0
                       0.2
                             0.8
    [964,]
                       0.2
##
            0.0
                  0.0
                             0.8
##
    [965,]
            0.0
                  0.1
                       0.2
                            0.7
##
                       0.2
                            0.2
    [966,]
            0.5
                  0.1
##
    [967,]
            0.5
                  0.1
                       0.2
                            0.2
##
    [968,]
            0.0
                  0.0
                       0.2
                            0.8
##
    [969,]
            0.5
                  0.1
                       0.2
                            0.2
##
    [970,]
                       0.0
                            0.0
            0.9
                  0.1
##
    [971,]
            0.9
                  0.1
                       0.0
                             0.0
##
    [972,]
            0.9
                  0.1
                       0.0
                            0.0
##
    [973,]
            0.0
                  0.0
                       0.2
                            0.8
##
    [974,]
            0.5
                  0.1
                       0.2
                            0.2
                       0.0
                            0.0
##
    [975,]
            0.9
                  0.1
##
    [976,]
            0.9
                  0.1
                       0.0
                            0.0
    [977,]
##
            0.0
                 0.0
                       0.2
                            0.8
##
    [978,]
            0.9
                  0.1
                       0.0
                             0.0
##
    [979,]
            0.0
                  0.0
                       0.2
                             0.8
##
    [980,]
            0.0
                  0.0
                       0.2
                            0.8
##
    [981,]
                       0.2
                            0.2
            0.5 0.1
##
    [982,]
            0.6
                  0.1
                       0.1
                            0.2
##
    [983,]
            0.9
                  0.1
                       0.0
                            0.0
##
    [984,]
            0.5
                       0.2
                  0.1
                            0.2
                       0.2
##
    [985,]
            0.0
                 0.0
                            0.8
##
    [986,]
            0.9
                  0.1
                       0.0
                             0.0
    [987,]
                       0.0
##
            0.7
                  0.1
                            0.2
##
    [988,]
            0.0
                  0.0
                       0.2
                            0.8
                            0.8
##
    [989,]
            0.0
                  0.0
                       0.2
##
    [990,]
            0.0
                  0.0
                       0.2
                            0.8
##
    [991,]
            0.5
                  0.1
                       0.2
                            0.2
                 0.1
##
    [992,]
            0.2
                       0.2
                            0.5
##
    [993,]
            0.9
                  0.1
                       0.0
                             0.0
##
    [994,]
            0.9
                  0.1
                       0.0
                             0.0
##
    [995,]
            0.9
                  0.1
                       0.0
                            0.0
                            0.8
##
    [996,]
            0.0
                 0.0
                       0.2
##
    [997,]
            0.9
                  0.1
                       0.0
                            0.0
    [998,]
##
            0.9
                  0.1
                       0.0
                            0.0
    [999,]
            0.5
                       0.2
##
                  0.1
                            0.2
## [1000,]
                            0.0
            0.9
                  0.1
                       0.0
## [1001,]
            0.5
                       0.2
                             0.2
                  0.1
## [1002,]
                       0.2
            0.0
                  0.0
                             0.8
## [1003,]
                       0.0
            0.9
                  0.1
                            0.0
## [1004,]
                       0.0
                            0.0
            0.9
                  0.1
                  0.1
## [1005,]
            0.0
                       0.2
                            0.7
## [1006,]
            0.9
                  0.1
                       0.0
                            0.0
## [1007,]
            0.5
                  0.1
                       0.2
                            0.2
                       0.2
## [1008,]
            0.2 0.1
                            0.5
## [1009,]
            0.9
                  0.1
                       0.0
                            0.0
## [1010,]
            0.9 0.1 0.0 0.0
```

```
## [1011,]
           0.0 0.0 0.2 0.8
                0.1
## [1012,]
            0.5
                     0.2
                           0.2
## [1013,]
            0.5
                 0.1
                      0.2
                           0.2
## [1014,]
                 0.1
                      0.2
            0.5
                           0.2
## [1015,]
            0.0
                 0.0
                      0.2
                           0.8
## [1016,]
            0.0 0.0
                      0.2
                           0.8
## [1017,]
            0.9
                 0.1
                      0.0
                           0.0
## [1018,]
            0.5
                 0.1
                      0.2
                           0.2
## [1019,]
            0.9
                 0.1
                      0.0
                           0.0
## [1020,]
            0.0 0.0
                      0.2
                           0.8
## [1021,]
            0.5
                 0.1
                      0.2
                           0.2
## [1022,]
            0.9
                 0.1
                      0.0
                           0.0
## [1023,]
            0.0
                 0.0
                      0.2
                           0.8
## [1024,]
            0.9
                      0.0
                 0.1
                           0.0
## [1025,]
            0.0
                 0.1
                      0.2
                           0.7
## [1026,]
            0.9
                 0.1
                      0.0
                           0.0
## [1027,]
            0.0 0.1
                      0.2
                           0.7
## [1028,]
            0.0
                 0.0
                      0.2
                           0.8
## [1029,]
            0.5
                 0.1
                      0.2
                           0.2
## [1030,]
            0.2
                 0.1
                      0.2
                           0.5
## [1031,]
            0.2 0.1
                      0.2
                           0.5
## [1032,]
            0.5
                 0.1
                      0.2
                           0.2
## [1033,]
            0.0
                 0.0
                      0.2
                           0.8
## [1034,]
            0.0
                 0.0
                      0.2
                           0.8
## [1035,]
            0.0 0.0
                     0.2
                           0.8
## [1036,]
            0.9
                 0.1
                      0.0
                           0.0
## [1037,]
            0.5
                 0.1
                      0.2
                           0.2
## [1038,]
            0.2
                 0.1
                      0.2
                           0.5
## [1039,]
            0.0
                0.0
                      0.2
                           0.8
## [1040,]
            0.6
                 0.1
                      0.1
                           0.2
## [1041,]
            0.5
                 0.1
                      0.2
                           0.2
## [1042,]
            0.9
                 0.1
                      0.0
                           0.0
## [1043,]
            0.0
                 0.1
                      0.2
                           0.7
## [1044,]
            0.0
                 0.0
                      0.2
                           0.8
## [1045,]
            0.0
                 0.0
                      0.2
                           0.8
## [1046,]
            0.5
                 0.1
                     0.2
                           0.2
## [1047,]
            0.0
                 0.0
                      0.2
                           0.8
## [1048,]
            0.0
                 0.0
                      0.2
                           0.8
## [1049,]
            0.2
                 0.1
                      0.2
                           0.5
## [1050,]
            0.0 0.0
                      0.2
                           0.8
## [1051,]
            0.9
                 0.1
                      0.0
                           0.0
## [1052,]
            0.9
                 0.1
                      0.0
                           0.0
## [1053,]
            0.0
                      0.2
                 0.1
                           0.7
## [1054,]
            0.0 0.0
                      0.2
                           0.8
## [1055,]
            0.9
                 0.1
                      0.0
                           0.0
## [1056,]
                      0.2
            0.0
                 0.1
                           0.7
## [1057,]
                      0.0
            0.9
                 0.1
                           0.0
## [1058,]
                      0.1
                           0.2
            0.6 0.1
## [1059,]
            0.9
                 0.1
                      0.0
                           0.0
## [1060,]
            0.9
                 0.1
                      0.0
                           0.0
## [1061,]
            0.0
                0.0
                      0.2
                           0.8
## [1062,]
            0.2 0.1
                      0.2
                           0.5
## [1063,]
            0.5
                 0.1
                      0.2
                           0.2
## [1064,]
           0.0 0.0 0.2 0.8
```

```
## [1065,]
            0.5 0.1 0.2 0.2
## [1066,]
            0.5
                 0.1
                      0.2
                            0.2
## [1067,]
            0.0
                 0.0
                      0.2
                            0.8
## [1068,]
                      0.2
            0.0
                 0.1
                            0.7
## [1069,]
            0.0
                 0.1
                      0.2
                            0.7
## [1070,]
            0.0 0.1
                      0.2
                            0.7
## [1071,]
            0.0
                 0.0
                      0.2
                            0.8
## [1072,]
            0.0
                      0.2
                 0.0
                            0.8
## [1073,]
            0.5
                 0.1
                      0.2
                            0.2
                      0.0
                            0.0
## [1074,]
            0.9
                 0.1
## [1075,]
            0.0
                 0.0
                      0.2
                            0.8
## [1076,]
            0.0
                 0.0
                      0.2
                            0.8
## [1077,]
            0.5
                 0.1
                      0.2
                            0.2
## [1078,]
            0.5
                      0.2
                            0.2
                 0.1
## [1079,]
            0.9
                 0.1
                      0.0
                            0.0
## [1080,]
            0.5
                 0.1
                      0.2
                            0.2
## [1081,]
            0.0
                 0.0
                      0.2
                            0.8
## [1082,]
            0.5
                 0.1
                      0.2
                            0.2
## [1083,]
            0.9
                 0.1
                      0.0
                            0.0
## [1084,]
            0.0
                 0.0
                      0.2
                            0.8
## [1085,]
            0.0
                 0.0
                      0.2
                            0.8
## [1086,]
            0.9
                 0.1
                      0.0
                            0.0
## [1087,]
            0.0
                 0.0
                      0.2
                            0.8
## [1088,]
            0.5
                 0.1
                      0.2
                            0.2
## [1089,]
                 0.0
                      0.2
                            0.8
            0.0
## [1090,]
            0.0
                 0.0
                      0.2
                            0.8
## [1091,]
            0.9
                 0.1
                      0.0
                            0.0
## [1092,]
            0.5
                      0.2
                 0.1
                            0.2
## [1093,]
            0.0
                 0.0
                      0.2
                            0.8
## [1094,]
            0.0
                 0.0
                      0.2
                            0.8
## [1095,]
            0.0
                 0.0
                      0.2
                            0.8
## [1096,]
            0.0
                 0.1
                      0.2
                            0.7
## [1097,]
            0.0
                 0.1
                      0.2
                            0.7
## [1098,]
            0.5
                 0.1
                      0.2
                            0.2
## [1099,]
            0.2
                 0.1
                      0.2
                            0.5
## [1100,]
            0.9
                 0.1
                      0.0
                            0.0
## [1101,]
            0.0
                 0.0
                      0.2
                            0.8
## [1102,]
            0.0
                 0.0
                      0.2
                            0.8
## [1103,]
            0.0
                 0.1
                      0.2
                            0.7
## [1104,]
            0.0 0.1
                      0.2
                            0.7
## [1105,]
            0.0
                 0.1
                      0.2
                            0.7
## [1106,]
            0.0
                 0.0
                      0.2
                            0.8
## [1107,]
            0.9
                      0.0
                 0.1
                            0.0
## [1108,]
            0.9
                 0.1
                      0.0
                            0.0
## [1109,]
            0.0
                 0.0
                      0.2
                            0.8
## [1110,]
                      0.0
            0.9
                 0.1
                            0.0
## [1111,]
            0.0
                 0.0
                      0.2
                            0.8
## [1112,]
                 0.0
                      0.2
                            0.8
            0.0
## [1113,]
            0.9
                 0.1
                      0.0
                            0.0
## [1114,]
            0.0
                 0.0
                      0.2
                            0.8
## [1115,]
            0.9
                 0.1
                      0.0
                            0.0
## [1116,]
            0.3 0.1
                      0.2
                            0.4
## [1117,]
            0.9
                 0.1
                      0.0
                            0.0
## [1118,]
            0.9 0.1 0.0 0.0
```

```
## [1119,] 0.9 0.1 0.0 0.0
## [1120,]
           0.9 0.1
                    0.0
                          0.0
## [1121,]
           0.9
                0.1
                     0.0
                          0.0
## [1122,]
           0.0
                0.0
                     0.2
                          0.8
## [1123,]
           0.5
                0.1
                     0.2
                          0.2
## [1124,]
           0.5 0.1
                    0.2
                          0.2
## [1125,]
           0.0
                0.0
                     0.2
                          0.8
                0.0
## [1126,]
           0.0
                    0.2
                          0.8
## [1127,]
           0.0
                0.1 0.2
                          0.7
## [1128,]
           0.5 0.1
                     0.2
                          0.2
## [1129,]
           0.0
                0.0
                     0.2
                          0.8
## [1130,]
           0.9
                0.1
                     0.0
                          0.0
## [1131,]
           0.0
                0.0
                     0.2
                          0.8
## [1132,]
           0.0
               0.0
                     0.2
                          0.8
## [1133,]
           0.9
                0.1
                     0.0
                          0.0
## [1134,]
           0.0
                0.0
                     0.2
                          0.8
## [1135,]
           0.0 0.0 0.2
                          0.8
## [1136,]
           0.5
                0.1
                     0.2
                          0.2
## [1137,]
           0.0
                0.0
                     0.2
                          0.8
## [1138,]
           0.0
                0.0
                    0.2
                          0.8
## [1139,]
           0.0 0.0 0.2
                          0.8
## [1140,]
           0.0
                0.0
                     0.2
                          0.8
## [1141,]
           0.0
                0.0 0.2
                          0.8
## [1142,]
           0.0
                0.0 0.2
                          0.8
## [1143,]
           0.0 0.0 0.2
                          0.8
## [1144,]
           0.0
                0.0 0.2
                          0.8
## [1145,]
           0.0
                0.0 0.2
                          0.8
## [1146,]
           0.5
                0.1
                     0.2
                          0.2
## [1147,]
           0.0 0.0
                     0.2
                          0.8
## [1148,]
           0.5
                0.1
                     0.2
                          0.2
## [1149,]
           0.9
                0.1
                     0.0
                          0.0
## [1150,]
           0.5
                0.1
                     0.2
                          0.2
## [1151,]
                     0.0
                          0.0
           0.9
                0.1
## [1152,]
           0.0
                0.0
                     0.2
                          0.8
## [1153,]
           0.0
                0.0
                     0.2
                          0.8
## [1154,]
           0.5 0.1 0.2
                          0.2
## [1155,]
           0.9
                0.1
                     0.0
                          0.0
## [1156,]
           0.5
                0.1
                     0.2
                          0.2
## [1157,]
           0.9
                0.1
                     0.0
                          0.0
           0.5 0.1 0.2
                          0.2
## [1158,]
## [1159,]
           0.5 0.1
                     0.2
                          0.2
## [1160,]
           0.0
                0.0 0.2
                          0.8
## [1161,]
           0.0
                0.0 0.2
                          0.8
## [1162,]
           0.0 0.0 0.2
                          0.8
## [1163,]
           0.0
                0.0
                     0.2
                          0.8
## [1164,]
           0.5
                0.1
                     0.2
                          0.2
## [1165,]
           0.0
                0.1
                     0.2
                          0.7
## [1166,]
           0.9 0.1
                     0.0
                          0.0
## [1167,]
           0.5
                0.1
                     0.2
                          0.2
## [1168,]
                     0.2
           0.0
                0.0
                          0.8
## [1169,]
           0.5
                0.1
                     0.2
                          0.2
## [1170,]
                     0.0
           0.9 0.1
                          0.0
## [1171,]
           0.5 0.1 0.2
                          0.2
## [1172,] 0.9 0.1 0.0 0.0
```

```
## [1173,] 0.0 0.0 0.2 0.8
## [1174,]
           0.9 0.1 0.0
                          0.0
## [1175,]
           0.0
                0.1
                     0.2
                          0.7
## [1176,]
                0.0
                     0.2
           0.0
                          0.8
## [1177,]
           0.0
                0.1
                     0.2
                          0.7
## [1178,]
           0.9 0.1 0.0
                          0.0
## [1179,]
           0.5
                0.1
                     0.2
                           0.2
                0.0
## [1180,]
           0.0
                     0.2
                          0.8
## [1181,]
           0.5
                0.1 0.2
                          0.2
           0.5 0.1
                     0.2
                          0.2
## [1182,]
## [1183,]
           0.5
                0.1
                     0.2
                          0.2
## [1184,]
           0.0
                0.0
                     0.2
                          0.8
## [1185,]
           0.5
                0.1
                     0.2
                          0.2
## [1186,]
           0.0
                0.0
                     0.2
                          0.8
## [1187,]
           0.5
                0.1
                     0.2
                          0.2
## [1188,]
           0.5
                0.1
                     0.2
                          0.2
## [1189,]
           0.0 0.0 0.2
                          0.8
## [1190,]
           0.0
                0.0
                     0.2
                          0.8
## [1191,]
           0.5
                0.1 0.2
                          0.2
## [1192,]
           0.0
                0.1
                     0.2
                          0.7
## [1193,]
           0.0 0.0 0.2
                          0.8
## [1194,]
           0.0
                0.0
                     0.2
                          0.8
## [1195,]
           0.0
                0.0 0.2
                          0.8
## [1196,]
           0.9
                0.1 0.0
                          0.0
## [1197,]
           0.0 0.0 0.2
                          0.8
## [1198,]
           0.0
                0.0
                     0.2
                          0.8
## [1199,]
           0.5
                0.1
                     0.2
                          0.2
## [1200,]
           0.0
                0.0
                     0.2
                          0.8
## [1201,]
           0.0 0.0
                     0.2
                          0.8
## [1202,]
           0.5
                0.1
                     0.2
                          0.2
## [1203,]
           0.0
                0.0
                     0.2
                          0.8
## [1204,]
           0.0
                0.0 0.2
                          0.8
## [1205,]
           0.9
                0.1
                     0.0
                          0.0
## [1206,]
           0.0
                0.0
                     0.2
                          0.8
## [1207,]
           0.9
                0.1
                     0.0
                          0.0
## [1208,]
           0.0 0.0
                     0.2
                          0.8
## [1209,]
           0.0
                0.0
                     0.2
                          0.8
## [1210,]
           0.0
                0.0
                     0.2
                          0.8
## [1211,]
           0.0
                0.0
                     0.2
                          0.8
## [1212,]
                          0.8
           0.0 0.0 0.2
## [1213,]
           0.7
                0.1
                     0.0
                          0.2
## [1214,]
           0.0 0.0
                     0.2
                          0.8
## [1215,]
           0.5
                0.1
                     0.2
                          0.2
## [1216,]
                     0.2
           0.0 0.0
                          0.8
## [1217,]
           0.0
                0.0
                     0.2
                          0.8
## [1218,]
                0.0
                     0.2
           0.0
                           0.8
## [1219,]
                     0.0
           0.9
                0.1
                          0.0
## [1220,]
           0.0 0.0
                     0.2
                          0.8
## [1221,]
           0.0
                0.0
                     0.2
                          0.8
## [1222,]
           0.0
                0.0
                     0.2
                          0.8
## [1223,]
           0.9
                0.1
                     0.0
                          0.0
## [1224,]
           0.0 0.0
                     0.2
                          0.8
                          0.8
## [1225,]
           0.0
                0.0 0.2
## [1226,]
           0.0 0.0 0.2 0.8
```

```
## [1227,] 0.5 0.1 0.2 0.2
## [1228,]
           0.5 0.1 0.2
                          0.2
           0.0 0.1
## [1229,]
                     0.2
                          0.7
## [1230,]
           0.3 0.1
                     0.2
                          0.4
## [1231,]
           0.0 0.0
                     0.2
                          0.8
## [1232,]
           0.9 0.1 0.0
                          0.0
## [1233,]
           0.1
                0.1
                     0.2
                          0.6
                0.0
## [1234,]
           0.0
                     0.2
                          0.8
## [1235,]
           0.9
                0.1
                     0.0
                          0.0
           0.0 0.0
                     0.2
                          0.8
## [1236,]
## [1237,]
           0.9
                0.1
                     0.0
                          0.0
## [1238,]
           0.0
                0.0
                     0.2
                          0.8
## [1239,]
           0.5 0.1
                    0.2
                          0.2
## [1240,]
           0.0 0.1
                     0.2
                          0.7
## [1241,]
           0.0
                0.0
                     0.2
                          0.8
## [1242,]
           0.9
                0.1
                     0.0
                          0.0
## [1243,]
           0.0 0.0 0.2
                          0.8
## [1244,]
           0.0 0.0
                     0.2
                          0.8
                     0.0
## [1245,]
           0.9
                0.1
                          0.0
## [1246,]
           0.0
                0.0
                     0.2
                          0.8
## [1247,]
           0.9 0.1 0.0
                          0.0
## [1248,]
           0.9 0.1
                     0.0
                          0.0
## [1249,]
           0.0 0.0
                    0.2
                          0.8
## [1250,]
           0.5 0.1 0.2
                          0.2
## [1251,]
           0.0 0.1 0.2
                          0.7
           0.0
## [1252,]
                0.0
                     0.2
                          0.8
## [1253,]
           0.0
                0.0
                    0.2
                          0.8
## [1254,]
           0.0
                0.0
                     0.2
                          0.8
## [1255,]
           0.9 0.1
                     0.0
                          0.0
## [1256,]
           0.2
                0.1
                     0.2
                          0.5
## [1257,]
           0.5
                0.1
                     0.2
                          0.2
## [1258,]
           0.5
                0.1
                     0.2
                          0.2
## [1259,]
                          0.2
           0.5 0.1
                     0.2
## [1260,]
           0.0
                0.0
                     0.2
                          0.8
## [1261,]
           0.7
                0.1
                     0.0
                          0.2
## [1262,]
           0.0 0.1 0.2
                          0.7
## [1263,]
           0.9 0.1
                     0.0
## [1264,]
           0.0
                0.1
                     0.2
                          0.7
## [1265,]
           0.5
                0.1
                    0.2
                          0.2
## [1266,]
           0.6 0.1 0.1
                          0.2
## [1267,]
           0.5 0.1
                     0.2
                          0.2
## [1268,]
           0.9 0.1
                     0.0
                          0.0
## [1269,]
           0.3 0.1
                     0.2
                          0.4
## [1270,]
                          0.0
           0.9 0.1
                     0.0
## [1271,]
           0.2
                0.1
                     0.2
                          0.5
## [1272,]
                     0.2
           0.0
                0.0
                          0.8
## [1273,]
           0.5
                0.1
                     0.2
                          0.2
## [1274,]
                0.1
                     0.0
                          0.0
           0.9
## [1275,]
           0.9
                0.1
                     0.0
                          0.0
## [1276,]
           0.0
                0.0
                     0.2
                          0.8
## [1277,]
           0.5 0.1
                    0.2
                          0.2
## [1278,]
           0.2 0.1
                    0.2
                          0.5
                          0.8
## [1279,]
           0.0 0.0 0.2
## [1280,] 0.5 0.1 0.2 0.2
```

```
## [1281,]
           0.0 0.0 0.2 0.8
## [1282,]
           0.0 0.0 0.2
                           0.8
## [1283,]
            0.0
                 0.0
                      0.2
                           0.8
## [1284,]
                      0.0
            0.9
                 0.1
                           0.0
## [1285,]
            0.5
                0.1
                      0.2
                           0.2
## [1286,]
            0.5 0.1
                     0.2
                           0.2
## [1287,]
            0.0
                 0.0
                      0.2
                           0.8
## [1288,]
            0.0
                     0.2
                0.0
                           0.8
## [1289,]
            0.5
                 0.1
                      0.2
                           0.2
## [1290,]
                      0.2
                           0.2
            0.5 0.1
## [1291,]
            0.3
                 0.1
                      0.2
                           0.4
## [1292,]
                 0.1
            0.9
                      0.0
                           0.0
## [1293,]
            0.0
                0.0
                      0.2
                           0.8
## [1294,]
            0.0
                      0.2
                0.0
                           0.8
## [1295,]
            0.5
                 0.1
                      0.2
                           0.2
## [1296,]
            0.0
                 0.0
                      0.2
                           0.8
## [1297,]
            0.5
                0.1 0.2
                           0.2
## [1298,]
            0.0
                0.0
                      0.2
                           0.8
                      0.0
## [1299,]
            0.9
                 0.1
                           0.0
## [1300,]
            0.0
                0.0
                      0.2
                           0.8
## [1301,]
            0.9 0.1 0.0
                           0.0
## [1302,]
            0.0
                0.0
                      0.2
                           0.8
## [1303,]
            0.9
                 0.1
                      0.0
                           0.0
## [1304,]
            0.9
                 0.1
                      0.0
                           0.0
## [1305,]
                      0.0
                           0.0
            0.9 0.1
## [1306,]
            0.0
                 0.0
                      0.2
                           0.8
## [1307,]
            0.0
                 0.0
                      0.2
                           0.8
## [1308,]
            0.9
                      0.0
                0.1
                           0.0
## [1309,]
            0.9 0.1
                      0.0
                           0.0
## [1310,]
            0.9
                 0.1
                      0.0
                           0.0
                      0.2
## [1311,]
            0.0
                 0.0
                           0.8
## [1312,]
            0.0 0.0
                      0.2
                           0.8
## [1313,]
            0.6
                0.1
                      0.1
                           0.2
                      0.0
## [1314,]
            0.9
                 0.1
                           0.0
## [1315,]
            0.9
                 0.1
                      0.0
                           0.0
## [1316,]
            0.0 0.0
                      0.2
                           0.8
## [1317,]
            0.5
                 0.1
                      0.2
                           0.2
## [1318,]
            0.0
                 0.0
                      0.2
                           0.8
## [1319,]
            0.9
                 0.1
                      0.0
                           0.0
## [1320,]
            0.0 0.0
                     0.2
                           0.8
## [1321,]
            0.9 0.1
                      0.0
                           0.0
## [1322,]
            0.1
                0.1
                      0.2
                           0.6
## [1323,]
            0.9
                      0.0
                 0.1
                           0.0
## [1324,]
            0.0 0.0
                      0.2
                           0.8
## [1325,]
            0.9
                 0.1
                      0.0
                           0.0
## [1326,]
                      0.0
            0.9
                 0.1
                           0.0
## [1327,]
            0.0
                 0.0
                      0.2
                           0.8
## [1328,]
                      0.0
                           0.0
            0.9
                 0.1
## [1329,]
            0.0
                 0.0
                      0.2
                           0.8
## [1330,]
            0.9
                 0.1
                      0.0
                           0.0
## [1331,]
            0.0 0.0
                      0.2
                           0.8
## [1332,]
            0.0 0.0
                     0.2
                           0.8
## [1333,]
            0.9 0.1 0.0
                           0.0
## [1334,]
           0.9 0.1 0.0 0.0
```

```
## [1335,]
           0.0 0.0 0.2 0.8
## [1336,]
           0.0 0.0 0.2
                          0.8
## [1337,]
           0.5
                0.1
                     0.2
                          0.2
## [1338,]
                     0.2
           0.0
                0.0
                          0.8
## [1339,]
           0.9
                0.1
                     0.0
                          0.0
## [1340,]
           0.0 0.1
                     0.2
                          0.7
## [1341,]
           0.9
                0.1
                     0.0
                           0.0
## [1342,]
           0.9
                0.1
                     0.0
                          0.0
## [1343,]
           0.0
                0.0
                     0.2
                          0.8
## [1344,]
                     0.0
                          0.0
           0.9 0.1
## [1345,]
           0.0
                0.0
                     0.2
                          0.8
## [1346,]
           0.0
                0.0
                     0.2
                          0.8
## [1347,]
           0.0
                0.0
                     0.2
                          0.8
## [1348,]
                     0.2
                          0.2
           0.5
                0.1
## [1349,]
           0.5
                0.1
                     0.2
                          0.2
## [1350,]
           0.5
                0.1
                     0.2
                          0.2
## [1351,]
           0.9
                0.1 0.0
                          0.0
## [1352,]
           0.5 0.1
                     0.2
                          0.2
## [1353,]
           0.5
                0.1
                     0.2
                          0.2
## [1354,]
           0.5
                0.1
                     0.2
                          0.2
## [1355,]
           0.0 0.0 0.2
                          0.8
## [1356,]
           0.5
                0.1
                     0.2
## [1357,]
           0.0
                0.1
                     0.2
                          0.7
## [1358,]
           0.0 0.0
                     0.2
                          0.8
## [1359,]
           0.2 0.1 0.2
                          0.5
## [1360,]
           0.9
                0.1
                     0.0
                          0.0
## [1361,]
           0.5
                0.1
                     0.2
                          0.2
## [1362,]
           0.0
                     0.2
                0.1
                          0.7
## [1363,]
           0.5 0.1
                     0.2
                          0.2
## [1364,]
           0.0
                0.0
                     0.2
                          0.8
                     0.0
## [1365,]
           0.9
                0.1
                          0.0
## [1366,]
           0.3
                0.1
                     0.2
                          0.4
                          0.2
## [1367,]
           0.5
                0.1
                     0.2
## [1368,]
           0.0
                0.0
                     0.2
                          0.8
## [1369,]
           0.9
                0.1
                     0.0
                          0.0
## [1370,]
           0.0 0.0 0.2
                          0.8
## [1371,]
           0.5
                0.1
                     0.2
                          0.2
## [1372,]
           0.5
                0.1
                     0.2
                          0.2
## [1373,]
           0.0
                0.0
                     0.2
                          0.8
                          0.0
## [1374,]
           0.9 0.1 0.0
## [1375,]
           0.0 0.0
                     0.2
                          0.8
## [1376,]
           0.5
                0.1
                     0.2
                          0.2
## [1377,]
           0.0
                     0.2
                0.1
                          0.7
## [1378,]
           0.9 0.1
                     0.0
                          0.0
## [1379,]
           0.0
                0.0
                     0.2
                           0.8
## [1380,]
           0.2
                0.1
                     0.2
                           0.5
## [1381,]
           0.0
                0.0
                     0.2
                          0.8
## [1382,]
                     0.0
                          0.0
           0.9
                0.1
## [1383,]
           0.0
                0.1
                     0.2
                          0.7
## [1384,]
           0.5
                0.1
                     0.2
                          0.2
## [1385,]
           0.5
                0.1
                     0.2
                          0.2
## [1386,]
           0.5 0.1
                     0.2
                          0.2
## [1387,]
           0.7
                0.1 0.0
                          0.2
## [1388,]
           0.0 0.1 0.2 0.7
```

```
## [1389,] 0.0 0.0 0.2 0.8
## [1390.]
 0.0 0.1 0.2
  0.7
 0.5 0.1
## [1391,]
  0.2
## [1392,]
 0.5
 0.1
  0.2
## [1393,]
 0.0 0.0
  0.2
## [1394,]
 0.0 0.0 0.2
## [1395.]
 0.0 0.0
  0.2
## [1396.]
 0.9 0.1 0.0
  0.0
## [1397.]
 0.5 0.1
  0.2
  0.2
[1398,]
 0.0 0.0
  0.8
[1399,]
 0.9 0.1
  0.0
 0.0 0.0
  0.2
##
[1400,]
  0.8
##
$class
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
```

```
##
 ##
 [829] "3" "0" "0" "0" "3" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3"
 [847] "0" "3" "0" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0"
##
 ## [1225] "3" "3" "0" "0" "3" "3" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0"
## [1261] "0" "3" "0" "3" "0" "0" "0" "0" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3"
## [1315] "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0"
##
## $importance
battery_power
      blue
        clock_speed
            dual_sim
                 fc
##
  four_g
         m_{dep}
            mobile_wt
                n_cores
##
     int_memory
##
   0
              0
         px\_width
   рс
     px_height
                 sc_h
              ram
              100
##
     talk_time
         three_g
           touch_screen
                 wifi
   sc_w
   0
          0
                  0
##
## $terms
## price_range ~ battery_power + blue + clock_speed + dual_sim +
 fc + four_g + int_memory + m_dep + mobile_wt + n_cores +
##
 pc + px_height + px_width + ram + sc_h + sc_w + talk_time +
##
 three_g + touch_screen + wifi
```

```
## attr(,"variables")
## list(price_range, battery_power, blue, clock_speed, dual_sim,
       fc, four_g, int_memory, m_dep, mobile_wt, n_cores, pc, px_height,
##
       px_width, ram, sc_h, sc_w, talk_time, three_g, touch_screen,
##
       wifi)
## attr(,"factors")
                   battery_power blue clock_speed dual_sim fc four_g int_memory
                                      0
                                                    0
                                                              0
## price_range
                                0
                                                                 0
                                                                         0
## battery_power
                                1
                                      0
                                                    0
                                                              0
                                                                 0
                                                                         0
                                                                                      0
                                0
                                      1
                                                    0
                                                              0
                                                                 0
                                                                         0
                                                                                      0
## blue
## clock_speed
                                0
                                      0
                                                    1
                                                              0
                                                                 0
                                                                         0
                                                                                      0
                                0
                                      0
                                                    0
                                                                         0
                                                                                      0
## dual_sim
                                                              1
                                                                 0
                                0
                                      0
                                                    0
                                                              0
                                                                         0
                                                                                      0
## fc
                                                                 1
## four_g
                                                              0
                                0
                                      0
                                                    0
                                                                 0
                                                                         1
                                                                                      0
## int_memory
                                0
                                      0
                                                    0
                                                              0
                                                                 0
                                                                         0
                                                                                      1
## m_dep
                                0
                                      0
                                                    0
                                                              0
                                                                 0
                                                                         0
                                                                                      0
                                0
                                      0
                                                    0
                                                              0
                                                                 0
                                                                         0
                                                                                      0
## mobile_wt
                                      0
                                                    0
                                                              0
                                                                         0
                                                                                      0
## n cores
                                 0
                                                                 0
                                0
                                      0
                                                    0
                                                              0
                                                                 0
                                                                         0
                                                                                      0
## pc
                                                    0
                                                              0
                                                                         0
## px_height
                                0
                                      0
                                                                 0
                                                                                      0
## px_width
                                0
                                      0
                                                    0
                                                              0
                                                                 0
                                                                         0
                                                                                      0
## ram
                                0
                                      0
                                                    0
                                                              0
                                                                 0
                                                                         0
                                                                                      0
                                0
                                      0
                                                    0
                                                              0
                                                                         0
                                                                                      0
## sc_h
                                                                 0
## sc w
                                0
                                      0
                                                    0
                                                              0
                                                                 0
                                                                         0
                                                                                      0
                                                    0
                                                              0 0
                                                                         0
                                0
                                      0
                                                                                      0
## talk_time
## three_g
                                0
                                      0
                                                    0
                                                              0
                                                                 0
                                                                         0
                                                                                      0
## touch_screen
                                0
                                      0
                                                    0
                                                              0
                                                                 0
                                                                         0
                                                                                      0
                                      0
                                                    0
                                                              0
                                                                 0
                                                                         0
                                                                                      0
## wifi
##
                   m_dep mobile_wt n_cores pc px_height px_width ram sc_h sc_w
                                   0
                                            0
                                               0
## price_range
                       0
                                                          0
                                                                     0
                                                                         0
                                                                               0
                                                                                     0
                                            0
## battery_power
                       0
                                   0
                                               0
                                                          0
                                                                     0
                                                                         0
                                                                               0
                                                                                     0
## blue
                       0
                                   0
                                            0
                                               0
                                                          0
                                                                     0
                                                                         0
                                                                               0
                                                                                     0
                       0
                                   0
                                            0
                                               0
                                                          0
                                                                     0
                                                                         0
                                                                               0
                                                                                     0
## clock_speed
                       0
                                   0
                                            0
                                               0
                                                          0
                                                                     0
                                                                         0
                                                                               0
                                                                                     0
## dual_sim
                                   0
                                            0
                                                                     0
## fc
                       0
                                               0
                                                          0
                                                                         0
                                                                               0
                                                                                     0
## four_g
                       0
                                   0
                                            0
                                               0
                                                          0
                                                                     0
                                                                         0
                                                                               0
                                                                                     0
## int memory
                       0
                                   0
                                            0
                                               0
                                                          0
                                                                     0
                                                                         0
                                                                               0
                                                                                     0
## m_dep
                       1
                                   0
                                            0
                                               0
                                                          0
                                                                     0
                                                                         0
                                                                               0
                                                                                     0
                                            0
## mobile wt
                       0
                                   1
                                               0
                                                          0
                                                                     0
                                                                         0
                                                                               0
                                                                                     0
                       0
                                   0
                                            1
                                               0
                                                          0
                                                                     0
                                                                         0
                                                                               0
                                                                                     0
## n_cores
                       0
                                   0
                                            0
                                                          0
                                                                     0
                                                                         0
## pc
                                            0
                                                                     0
## px_height
                       0
                                   0
                                               0
                                                          1
                                                                         0
                                                                               0
                                                                                     0
                       0
                                   0
                                            0
                                               0
                                                          0
                                                                     1
                                                                         0
                                                                               0
                                                                                     0
## px_width
                       0
                                   0
                                            0
                                               0
                                                          0
                                                                     0
                                                                         1
                                                                               0
                                                                                     0
## ram
                       0
                                   0
                                            0
                                               0
                                                          0
                                                                     0
                                                                         0
## sc_h
                                            0
                       0
                                   0
                                               0
                                                          0
                                                                     0
                                                                         0
                                                                               0
## sc_w
                                                                                     1
                       0
                                   0
                                            0
                                                          0
                                                                     0
                                                                         0
                                                                               0
                                                                                     0
## talk_time
                       0
                                   0
                                            0
                                                          0
                                                                     0
                                                                         0
                                                                               0
                                                                                     0
## three_g
## touch_screen
                                            0
                       0
                                   0
                                               0
                                                          0
                                                                     0
                                                                         0
                                                                               0
                                                                                    0
                                   0
                                            0
                                                                     0
                                                                         0
                                                                               0
                                                                                     0
## wifi
                       0
                                               0
                                                          0
##
                   talk_time three_g touch_screen wifi
## price_range
                            0
                                     0
                                                    0
                                                         0
## battery_power
                            0
                                     0
                                                    0
                                                         0
                                     0
                                                    0
## blue
                            0
                                                         0
```

```
## clock speed
                         0
                                  0
                                               0
                                                     0
## dual_sim
                         0
                                  0
                                               0
                                                     0
## fc
                         0
                                  0
                                               0
                                                     0
                         0
                                  0
                                               0
                                                     0
## four_g
## int_memory
                         0
                                  0
                                               0
                                                     0
## m dep
                         0
                                  0
                                               0
                                                     0
## mobile wt
                         0
                                  0
                                               0
                                                     0
## n cores
                         0
                                  0
                                               0
                                                     0
## pc
                         0
                                  0
                                               0
                                                     0
                         0
                                  0
                                               0
                                                     0
## px_height
## px_width
                         0
                                  0
                                               0
                                                     0
                         0
                                  0
## ram
                                               0
                                                     0
                         0
                                  0
## sc h
                                               0
                                                     0
                         0
                                  0
                                               0
                                                     0
## sc_w
## talk_time
                         1
                                  0
                                               0
                                                     0
## three_g
                         0
                                  1
                                               0
                                                     0
                         0
                                  0
                                                     0
## touch_screen
                                               1
## wifi
                                  0
                                               0
                                                     1
## attr(,"term.labels")
                                         "clock speed"
                                                          "dual sim"
## [1] "battery_power" "blue"
                         "four_g"
## [5] "fc"
                                         "int_memory"
                                                          "m dep"
## [9] "mobile wt"
                         "n cores"
                                         "pc"
                                                          "px_height"
## [13] "px_width"
                         "ram"
                                         "sc_h"
                                                          "sc_w"
## [17] "talk time"
                         "three g"
                                         "touch screen"
                                                          "wifi"
## attr(,"order")
## attr(,"intercept")
## [1] 1
## attr(,"response")
## [1] 1
## attr(,".Environment")
## <environment: R_GlobalEnv>
## attr(,"predvars")
## list(price_range, battery_power, blue, clock_speed, dual_sim,
##
       fc, four_g, int_memory, m_dep, mobile_wt, n_cores, pc, px_height,
##
       px_width, ram, sc_h, sc_w, talk_time, three_g, touch_screen,
##
       wifi)
## attr(,"dataClasses")
##
     price_range battery_power
                                         blue
                                                clock_speed
                                                                  dual sim
        "factor"
                                                                 "numeric"
##
                      "numeric"
                                    "numeric"
                                                   "numeric"
##
                                   int memory
                                                                 mobile wt
                        four_g
                                                      m dep
##
       "numeric"
                     "numeric"
                                    "numeric"
                                                   "numeric"
                                                                 "numeric"
                                    px_height
                                                   px_width
##
         n cores
                             рс
                                                                       ram
##
                      "numeric"
                                                                 "numeric"
       "numeric"
                                    "numeric"
                                                   "numeric"
##
                                                     three_g
            sc_h
                                    talk_time
                                                              touch_screen
                          SC_W
##
       "numeric"
                     "numeric"
                                    "numeric"
                                                   "numeric"
                                                                 "numeric"
##
            wifi
##
       "numeric"
##
## $call
## boosting(formula = price_range ~ ., data = data_train, mfinal = 10,
       control = rpart.control(maxdepth = 1))
##
##
## attr(,"vardep.summary")
```

```
0
         1
             2
                 3
##
## 350 350 350 350
## attr(,"class")
## [1] "boosting"
data.predboosting <- predict.boosting(data.adaboost, newdata = data_test)</pre>
data.predboosting
## $formula
##
   price_range ~ .
##
  $votes
##
##
                              [,2]
                                          [,3]
##
     [1,] 0.000000000 0.000000000 0.004000005 0.016000021
     [2,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [3,] 0.018000024 0.002000003 0.000000000 0.000000000
##
     [4,] 0.018000024 0.002000003 0.000000000 0.000000000
##
     [5,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
     [6,] 0.010000013 0.002000003 0.004000005 0.004000005
##
     [7,] 0.000000000 0.000000000 0.004000005 0.016000021
##
     [8,] 0.000000000 0.000000000 0.004000005 0.016000021
     [9,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [10,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
    [11,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [12,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [13,] 0.004000005 0.002000003 0.004000005 0.010000013
##
    [14,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [15,] 0.000000000 0.002000003 0.004000005 0.014000019
    [16,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [17,] 0.018000024 0.002000003 0.000000000 0.000000000
    [18,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [19,] 0.006000008 0.002000003 0.004000005 0.008000011
##
    [20,] 0.000000000 0.002000003 0.004000005 0.014000019
    [21,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [22,] 0.010000013 0.002000003 0.004000005 0.004000005
##
    [23,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [24,] 0.000000000 0.000000000 0.004000005 0.016000021
    [25,] 0.010000013 0.002000003 0.004000005 0.004000005
    [26,] 0.018000024 0.002000003 0.000000000 0.000000000
##
##
    [27,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [28,] 0.000000000 0.000000000 0.004000005 0.016000021
    [29,] 0.000000000 0.002000003 0.004000005 0.014000019
##
    [30,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [31,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [32,] 0.018000024 0.002000003 0.000000000 0.000000000
    [33,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [34,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
    [35,] 0.010000013 0.002000003 0.004000005 0.004000005
    [36,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
    [37,] 0.000000000 0.000000000 0.004000005 0.016000021
    [38,] 0.000000000 0.002000003 0.004000005 0.014000019
##
##
    [39,] 0.000000000 0.000000000 0.004000005 0.016000021
    [40,] 0.000000000 0.000000000 0.004000005 0.016000021
    [41,] 0.000000000 0.000000000 0.004000005 0.016000021
```

```
##
    [42,] 0.000000000 0.002000003 0.004000005 0.014000019
##
    [43,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [44,] 0.004000005 0.002000003 0.004000005 0.010000013
    [45,] 0.018000024 0.002000003 0.000000000 0.000000000
##
##
    [46,] 0.018000024 0.002000003 0.000000000 0.000000000
    [47,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [48.] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [49,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [50.] 0.006000008 0.002000003 0.004000005 0.008000011
##
    [51,] 0.010000013 0.002000003 0.004000005 0.004000005
    [52,] 0.010000013 0.002000003 0.004000005 0.004000005
    [53,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
    [54,] 0.000000000 0.002000003 0.004000005 0.014000019
    [55,] 0.010000013 0.002000003 0.004000005 0.004000005
##
    [56,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
    [57,] 0.010000013 0.002000003 0.004000005 0.004000005
    [58,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [59,] 0.010000013 0.002000003 0.004000005 0.004000005
##
    [60,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
    [61,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [62,] 0.004000005 0.002000003 0.004000005 0.010000013
    [63,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [64,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [65.] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [66,] 0.010000013 0.002000003 0.004000005 0.004000005
##
    [67,] 0.018000024 0.002000003 0.000000000 0.000000000
    [68,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [69,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [70,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
    [71,] 0.000000000 0.000000000 0.004000005 0.016000021
##
    [72,] 0.010000013 0.002000003 0.004000005 0.004000005
##
    [73,] 0.000000000 0.002000003 0.004000005 0.014000019
##
    [74,] 0.018000024 0.002000003 0.000000000 0.000000000
    [75,] 0.004000005 0.002000003 0.004000005 0.010000013
##
    [76,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [77,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
    [78,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [79,] 0.018000024 0.002000003 0.000000000 0.000000000
    [80,] 0.010000013 0.002000003 0.004000005 0.004000005
##
    [81,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [82,] 0.018000024 0.002000003 0.000000000 0.000000000
    [83,] 0.000000000 0.002000003 0.004000005 0.014000019
##
    [84.] 0.018000024 0.002000003 0.000000000 0.000000000
##
##
    [85,] 0.000000000 0.000000000 0.004000005 0.016000021
    [86,] 0.010000013 0.002000003 0.004000005 0.004000005
    [87,] 0.000000000 0.002000003 0.004000005 0.014000019
##
##
    [88,] 0.000000000 0.000000000 0.004000005 0.016000021
    [89,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
    [90,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [91,] 0.000000000 0.000000000 0.004000005 0.016000021
    [92,] 0.018000024 0.002000003 0.000000000 0.000000000
##
##
    [93,] 0.018000024 0.002000003 0.000000000 0.000000000
##
    [94,] 0.018000024 0.002000003 0.000000000 0.000000000
    [95,] 0.018000024 0.002000003 0.000000000 0.000000000
```

```
[96,] 0.000000000 0.000000000 0.004000005 0.016000021
    [97,] 0.012000016 0.002000003 0.002000003 0.004000005
##
    [98,] 0.000000000 0.000000000 0.004000005 0.016000021
    [99,] 0.000000000 0.000000000 0.004000005 0.016000021
   [100,] 0.010000013 0.002000003 0.004000005 0.004000005
   [101,] 0.000000000 0.000000000 0.004000005 0.016000021
   [102.] 0.000000000 0.000000000 0.004000005 0.016000021
   [103,] 0.018000024 0.002000003 0.000000000 0.000000000
   [104,] 0.018000024 0.002000003 0.000000000 0.000000000
   [105,] 0.018000024 0.002000003 0.000000000 0.000000000
   [106,] 0.000000000 0.000000000 0.004000005 0.016000021
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   [108,] 0.018000024 0.002000003 0.000000000 0.000000000
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  [433,] 0.000000000 0.000000000 0.004000005 0.016000021
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   [435,] 0.018000024 0.002000003 0.000000000 0.000000000
   [436,] 0.000000000 0.000000000 0.004000005 0.016000021
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  [438,] 0.000000000 0.002000003 0.004000005 0.014000019
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## [441,] 0.010000013 0.002000003 0.004000005 0.004000005
## [442,] 0.010000013 0.002000003 0.004000005 0.004000005
   [443.] 0.000000000 0.000000000 0.004000005 0.016000021
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## [473,] 0.000000000 0.000000000 0.004000005 0.016000021
```

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## [474,] 0.000000000 0.000000000 0.004000005 0.016000021
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  [478,] 0.000000000 0.000000000 0.004000005 0.016000021
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  [480,] 0.000000000 0.002000003 0.004000005 0.014000019
  [481,] 0.018000024 0.002000003 0.000000000 0.000000000
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   [486,] 0.000000000 0.000000000 0.004000005 0.016000021
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  [491,] 0.018000024 0.002000003 0.000000000 0.000000000
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## [493,] 0.010000013 0.002000003 0.004000005 0.004000005
## [494,] 0.010000013 0.002000003 0.004000005 0.004000005
## [495,] 0.000000000 0.000000000 0.004000005 0.016000021
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   [513,] 0.018000024 0.002000003 0.000000000 0.000000000
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   [520,] 0.000000000 0.000000000 0.004000005 0.016000021
   [521,] 0.000000000 0.000000000 0.004000005 0.016000021
  [522,] 0.000000000 0.002000003 0.004000005 0.014000019
  [523,] 0.018000024 0.002000003 0.000000000 0.000000000
## [524,] 0.000000000 0.000000000 0.004000005 0.016000021
## [525,] 0.000000000 0.002000003 0.004000005 0.014000019
## [526,] 0.000000000 0.000000000 0.004000005 0.016000021
## [527,] 0.010000013 0.002000003 0.004000005 0.004000005
```

```
## [528,] 0.000000000 0.000000000 0.004000005 0.016000021
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   [530,] 0.000000000 0.000000000 0.004000005 0.016000021
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   [535,] 0.010000013 0.002000003 0.004000005 0.004000005
   [536,] 0.000000000 0.000000000 0.004000005 0.016000021
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   [538,] 0.000000000 0.000000000 0.004000005 0.016000021
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   [544,] 0.018000024 0.002000003 0.000000000 0.000000000
   [545,] 0.000000000 0.000000000 0.004000005 0.016000021
   [546,] 0.000000000 0.000000000 0.004000005 0.016000021
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  [549,] 0.018000024 0.002000003 0.000000000 0.000000000
   [550,] 0.000000000 0.000000000 0.004000005 0.016000021
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   [569,] 0.000000000 0.000000000 0.004000005 0.016000021
   [570,] 0.000000000 0.000000000 0.004000005 0.016000021
   [571,] 0.010000013 0.002000003 0.004000005 0.004000005
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   [573,] 0.000000000 0.000000000 0.004000005 0.016000021
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## [578,] 0.000000000 0.000000000 0.004000005 0.016000021
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## [580,] 0.000000000 0.000000000 0.004000005 0.016000021
## [581,] 0.000000000 0.000000000 0.004000005 0.016000021
```

```
## [582,] 0.000000000 0.000000000 0.004000005 0.016000021
  [583,] 0.000000000 0.000000000 0.004000005 0.016000021
## [584,] 0.018000024 0.002000003 0.000000000 0.000000000
## [585,] 0.014000019 0.002000003 0.000000000 0.004000005
## [586,] 0.010000013 0.002000003 0.004000005 0.004000005
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## [588.] 0.000000000 0.000000000 0.004000005 0.016000021
## [589,] 0.000000000 0.000000000 0.004000005 0.016000021
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## [592,] 0.000000000 0.000000000 0.004000005 0.016000021
## [593,] 0.018000024 0.002000003 0.000000000 0.000000000
  [594,] 0.018000024 0.002000003 0.000000000 0.000000000
## [595,] 0.018000024 0.002000003 0.000000000 0.000000000
## [596,] 0.000000000 0.000000000 0.004000005 0.016000021
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   [599,] 0.018000024 0.002000003 0.000000000 0.000000000
   [600,] 0.000000000 0.000000000 0.004000005 0.016000021
##
##
   $prob
##
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##
     [1,]
          0.0
               0.0
                     0.2
                           0.8
##
     [2,]
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                0.0
                      0.2
                           0.8
##
     [3,]
           0.9
                0.1
                      0.0
                           0.0
##
     [4,]
           0.9
                0.1
                      0.0
                           0.0
##
     [5,]
           0.0
                0.0
                      0.2
                           0.8
##
     [6,]
           0.5
                0.1
                      0.2
                           0.2
##
                0.0
     [7,]
           0.0
                      0.2
                           0.8
##
     [8,]
           0.0
                0.0
                      0.2
                           0.8
##
     [9,]
           0.0
                0.0
                      0.2
                           0.8
##
    [10,]
           0.0
                0.0
                      0.2
                           0.8
##
    [11,]
           0.9
                0.1
                      0.0
                           0.0
    [12,]
           0.9
##
                0.1
                      0.0
                           0.0
##
    [13,]
           0.2
                0.1
                           0.5
                      0.2
##
    [14,]
           0.0
                0.0
                      0.2
                           0.8
##
    [15,]
           0.0
                0.1
                      0.2
                           0.7
##
    [16,]
           0.0
                0.0
                      0.2
                           0.8
    [17,]
           0.9
                0.1
                      0.0
##
                           0.0
                0.0
##
    [18,]
           0.0
                      0.2
                           0.8
    [19,]
           0.3
                0.1
                      0.2
                           0.4
    [20,]
           0.0
                      0.2
##
                0.1
                           0.7
##
    [21,]
           0.9
                0.1
                      0.0
                           0.0
##
    [22,]
           0.5
                0.1
                      0.2
                           0.2
##
    [23,]
           0.0
                0.0
                      0.2
                           0.8
##
    [24,]
           0.0
                0.0
                      0.2
                           0.8
##
    [25,]
           0.5
                0.1
                      0.2
                           0.2
##
    [26,]
           0.9
                0.1
                      0.0
                           0.0
##
    [27,]
           0.0
                0.0
                      0.2
                           0.8
##
    [28,]
           0.0
                0.0
                      0.2
                           0.8
##
    [29,]
           0.0
                0.1
                      0.2
                           0.7
##
    [30,]
           0.0
                0.0
                      0.2
                           0.8
##
    [31,]
           0.9
                0.1
                      0.0
                           0.0
##
    [32,]
           0.9 0.1
                     0.0
```

```
0.0 0.0 0.2
    [33,]
                           0.8
##
    [34,]
           0.0 0.0
                      0.2
                           0.8
    [35,]
                           0.2
##
           0.5
                0.1
                      0.2
##
    [36,]
           0.0
                0.0
                      0.2
                           0.8
##
    [37,]
           0.0
                0.0
                      0.2
                           0.8
##
    [38,]
           0.0
                0.1
                      0.2
                           0.7
##
    [39,]
           0.0
                0.0
                      0.2
                           0.8
                      0.2
##
    [40,]
           0.0
                0.0
                           0.8
##
    [41,]
           0.0
                0.0
                      0.2
                           0.8
##
                0.1
                     0.2
                           0.7
    [42,]
           0.0
    [43,]
##
           0.0
                0.0
                      0.2
                           0.8
##
    [44,]
           0.2
                0.1
                      0.2
                           0.5
##
    [45,]
           0.9
                0.1
                      0.0
                           0.0
##
    [46,]
                0.1
                           0.0
           0.9
                      0.0
##
    [47,]
           0.9
                0.1
                      0.0
                           0.0
##
    [48,]
           0.9
                0.1
                      0.0
                           0.0
##
    [49,]
           0.0 0.0
                      0.2
                           0.8
##
    [50,]
           0.3
                0.1
                      0.2
                           0.4
##
    [51,]
           0.5
                0.1
                      0.2
                           0.2
##
    [52,]
           0.5
                0.1
                      0.2
                           0.2
##
    [53,]
           0.0
                0.0
                      0.2
                           0.8
##
    [54,]
           0.0
                0.1
                      0.2
                           0.7
##
    [55,]
           0.5
                0.1
                      0.2
                           0.2
##
    [56,]
           0.0
                0.0
                      0.2
                           0.8
           0.5 0.1
##
                     0.2
                           0.2
    [57,]
##
    [58,]
           0.0
                0.0
                      0.2
                           0.8
##
    [59,]
           0.5
                0.1
                      0.2
                           0.2
##
    [60,]
                0.0
                      0.2
                           0.8
           0.0
##
    [61,]
           0.0
                0.0
                      0.2
                           0.8
##
    [62,]
           0.2
                0.1
                      0.2
                           0.5
##
    [63,]
           0.9
                0.1
                      0.0
                           0.0
##
    [64,]
           0.0 0.0
                      0.2
                           0.8
                           0.0
##
    [65,]
           0.9
                0.1
                      0.0
    [66,]
           0.5
                0.1
                      0.2
                           0.2
##
##
    [67,]
           0.9
                0.1
                      0.0
                           0.0
##
    [68,]
           0.0
                0.0
                      0.2
                           0.8
##
    [69,]
           0.9
                0.1
                      0.0
                           0.0
##
    [70,]
           0.0
                0.0
                      0.2
                           0.8
##
    [71,]
           0.0
                0.0
                      0.2
                           0.8
##
    [72,]
           0.5
               0.1 0.2
                           0.2
##
    [73,]
           0.0
                0.1
                      0.2
                           0.7
##
    [74,]
           0.9
                0.1
                      0.0
                           0.0
    [75,]
           0.2 0.1
                      0.2
                           0.5
##
##
                           0.0
    [76,]
           0.9
                0.1
                      0.0
##
    [77,]
                0.0
           0.0
                      0.2
                           0.8
    [78,]
##
           0.9
                0.1
                      0.0
                           0.0
    [79,]
##
           0.9
                0.1
                      0.0
                           0.0
##
    [80,]
           0.5
                0.1
                      0.2
                           0.2
##
    [81,]
           0.9
                0.1
                      0.0
                           0.0
##
    [82,]
           0.9
                0.1
                      0.0
                           0.0
##
    [83,]
           0.0
                0.1
                      0.2
                           0.7
##
    [84,]
           0.9
                0.1
                      0.0
                           0.0
##
    [85,]
           0.0 0.0
                      0.2
                           0.8
##
    [86,]
           0.5 0.1 0.2
                           0.2
```

```
[87,]
           0.0 0.1 0.2
    [88,]
##
           0.0 0.0
                     0.2
                           0.8
    [89,]
           0.0
                0.0
                     0.2
                           0.8
           0.9
##
    [90,]
                0.1
                     0.0
                           0.0
##
    [91,]
           0.0
                0.0
                     0.2
                           0.8
##
    [92,]
           0.9
                0.1
                     0.0
                           0.0
                           0.0
##
    [93,]
           0.9
                0.1
                     0.0
                     0.0
##
    [94,]
           0.9
                0.1
                           0.0
                     0.0
##
    [95,]
           0.9
                0.1
                           0.0
##
               0.0
    [96,]
           0.0
                     0.2
                           0.8
##
    [97,]
           0.6
                0.1
                     0.1
                           0.2
##
    [98,]
           0.0
                0.0
                     0.2
                           0.8
   [99,]
##
           0.0
                0.0
                     0.2
                           0.8
## [100,]
                     0.2
                           0.2
           0.5
                0.1
## [101,]
           0.0
                0.0
                     0.2
                           0.8
## [102,]
           0.0
               0.0
                     0.2
                           0.8
## [103,]
           0.9 0.1
                     0.0
                           0.0
## [104,]
           0.9
               0.1
                     0.0
                           0.0
## [105,]
           0.9 0.1
                     0.0
                           0.0
## [106,]
           0.0
                0.0
                     0.2
                           0.8
## [107,]
           0.9
                0.1
                     0.0
                           0.0
## [108,]
           0.9
                0.1
                     0.0
                           0.0
## [109,]
           0.0
                0.0
                     0.2
                           0.8
## [110,]
           0.0 0.0
                     0.2
                           0.8
## [111,]
               0.0
                     0.2
                          0.8
           0.0
## [112,]
           0.0
                0.0
                     0.2
                           0.8
## [113,]
           0.0
                0.0
                     0.2
                           0.8
## [114,]
                0.0
                          0.8
           0.0
                     0.2
## [115,]
           0.9
                0.1
                     0.0
                           0.0
## [116,]
           0.0
                0.0
                     0.2
                           0.8
                           0.8
## [117,]
           0.0
                0.0
                     0.2
## [118,]
           0.0
               0.0
                     0.2
                           0.8
                           0.8
## [119,]
           0.0
                0.0
                     0.2
## [120,]
           0.0
                0.0
                     0.2
                           0.8
## [121,]
           0.0
                0.1
                     0.2
                           0.7
## [122,]
                0.0
                     0.2
                          0.8
           0.0
## [123,]
           0.5
                0.1
                     0.2
                           0.2
## [124,]
           0.0
                0.0
                     0.2
                           0.8
## [125,]
           0.9 0.1
                     0.0
                           0.0
## [126,]
           0.0 0.0
                     0.2
                          0.8
## [127,]
           0.9
               0.1
                     0.0
                           0.0
## [128,]
           0.9
                0.1
                     0.0
                           0.0
## [129,]
           0.9
               0.1
                     0.0
                           0.0
## [130,]
           0.5
                0.1
                     0.2
                           0.2
## [131,]
               0.0
           0.0
                     0.2
                           0.8
## [132,]
           0.5
                0.1
                     0.2
                           0.2
## [133,]
           0.0
               0.1
                     0.2
                           0.7
## [134,]
                0.0
                     0.2
                           0.8
           0.0
## [135,]
           0.9
                0.1
                     0.0
                           0.0
## [136,]
           0.0
                0.0
                     0.2
                           0.8
## [137,]
                0.1
                     0.2
                           0.7
           0.0
## [138,]
           0.9
               0.1
                     0.0
                           0.0
## [139,]
           0.0 0.0
                     0.2
                           0.8
## [140,]
          0.5 0.1 0.2
```

```
## [141,]
           0.9 0.1 0.0
                          0.0
## [142,]
           0.0 0.0
                     0.2
                          0.8
## [143,]
           0.0
               0.0
                     0.2
                          0.8
## [144,]
           0.9
                0.1
                     0.0
                          0.0
## [145,]
           0.0
               0.0
                     0.2
                          0.8
## [146,]
           0.0
               0.0
                     0.2
                          0.8
## [147,]
           0.0
                     0.2
                0.1
                          0.7
## [148,]
                     0.0
           0.9
               0.1
                          0.0
           0.0 0.1
## [149,]
                     0.2
                          0.7
           0.0 0.0
## [150,]
                     0.2
                          0.8
## [151,]
           0.9
               0.1
                     0.0
                          0.0
## [152,]
           0.5
                0.1
                     0.2
                          0.2
## [153,]
           0.0
               0.0
                     0.2
                          0.8
## [154,]
                     0.0
           0.9
               0.1
                          0.0
## [155,]
           0.9
               0.1
                     0.0
                          0.0
## [156,]
           0.5
               0.1
                     0.2
                          0.2
## [157,]
           0.0 0.0
                     0.2
                          0.8
## [158,]
           0.0
               0.0
                     0.2
                          0.8
## [159,]
           0.0
               0.0
                     0.2
                          0.8
## [160,]
           0.0
               0.0
                     0.2
                          0.8
## [161,]
           0.0
               0.1
                     0.2
                          0.7
## [162,]
           0.5
               0.1
                     0.2
                          0.2
## [163,]
           0.0
               0.0
                     0.2
                          0.8
## [164,]
           0.5 0.1
                     0.2
                          0.2
## [165,]
                          0.2
           0.7 0.1
                     0.0
## [166,]
           0.0
               0.1
                     0.2
                          0.7
## [167,]
           0.0
               0.0
                     0.2
                          0.8
## [168,]
           0.9
               0.1
                     0.0
                          0.0
## [169,]
           0.9
               0.1
                     0.0
                          0.0
## [170,]
           0.0
               0.0
                     0.2
                          0.8
## [171,]
           0.0
               0.0
                     0.2
                          0.8
## [172,]
           0.9 0.1
                     0.0
                          0.0
                          0.0
## [173,]
           0.9
               0.1
                     0.0
## [174,]
           0.9
               0.1
                     0.0
                          0.0
## [175,]
           0.9
                0.1
                     0.0
                          0.0
## [176,]
           0.0
               0.0
                     0.2
                          0.8
## [177,]
           0.0
               0.0
                     0.2
                          0.8
## [178,]
           0.0
               0.0
                     0.2
                          0.8
## [179,]
           0.0 0.0
                     0.2
                          0.8
## [180,]
           0.2 0.1
                     0.2
                          0.5
## [181,]
           0.9 0.1
                     0.0
                          0.0
## [182,]
           0.5
               0.1
                     0.2
                          0.2
## [183,]
               0.0
           0.0
                     0.2
                          0.8
               0.0
## [184,]
           0.0
                     0.2
                          0.8
## [185,]
               0.0
                     0.2
           0.0
                          0.8
## [186,]
           0.0
               0.0
                     0.2
                          0.8
## [187,]
           0.0 0.0
                     0.2
                          0.8
## [188,]
                          0.2
           0.6
               0.1
                     0.1
## [189,]
           0.9
                0.1
                     0.0
                          0.0
## [190,]
           0.0
               0.0
                     0.2
                          0.8
## [191,]
           0.2 0.1
                     0.2
                          0.5
## [192,]
           0.5
               0.1
                     0.2
                          0.2
## [193,]
           0.0 0.0
                     0.2
                          0.8
## [194,]
          0.5 0.1 0.2 0.2
```

```
## [195,]
           0.5 0.1 0.2
                          0.2
## [196,]
           0.9 0.1
                     0.0
                          0.0
## [197,]
           0.0
               0.0
                     0.2
                          0.8
## [198,]
           0.9
               0.1
                     0.0
                          0.0
## [199,]
           0.9
               0.1
                     0.0
                          0.0
## [200,]
               0.0
                     0.2
                          0.8
           0.0
## [201,]
               0.0
                     0.2
           0.0
                          0.8
## [202,]
           0.9
               0.1
                     0.0
                          0.0
                     0.2
## [203,]
           0.0 0.0
                          0.8
## [204,]
           0.0 0.1
                     0.2
                          0.7
## [205,]
           0.0 0.0
                     0.2
                          0.8
## [206,]
           0.5
                     0.2
                          0.2
                0.1
## [207,]
           0.0
               0.1
                     0.2
                          0.7
## [208,]
           0.5
                0.1
                     0.2
                          0.2
## [209,]
           0.0
               0.0
                     0.2
                          0.8
## [210,]
           0.9
               0.1
                     0.0
                          0.0
## [211,]
           0.5 0.1
                          0.2
                     0.2
## [212,]
           0.9 0.1
                     0.0
                          0.0
## [213,]
           0.0 0.0
                     0.2
                          0.8
## [214,]
           0.2 0.1
                     0.2
                          0.5
## [215,]
           0.0
               0.1
                     0.2
                          0.7
## [216,]
           0.9
               0.1
                     0.0
                          0.0
## [217,]
           0.0
               0.0
                     0.2
                          0.8
## [218,]
           0.0 0.0
                     0.2
                          0.8
## [219,]
                     0.2
                          0.8
           0.0
               0.0
## [220,]
           0.9
                0.1
                     0.0
                          0.0
## [221,]
           0.0
                0.0
                     0.2
                          0.8
## [222,]
           0.0
                0.0
                     0.2
                          0.8
## [223,]
           0.5
               0.1
                     0.2
                          0.2
## [224,]
           0.9
                0.1
                     0.0
                          0.0
## [225,]
           0.0
               0.0
                     0.2
                          0.8
## [226,]
           0.5
               0.1
                     0.2
                          0.2
## [227,]
           0.0
               0.0
                     0.2
                          0.8
## [228,]
           0.5
                     0.2
                          0.2
                0.1
## [229,]
           0.5
                0.1
                     0.2
                          0.2
## [230,]
           0.0
               0.0
                     0.2
                          0.8
## [231,]
           0.5
               0.1
                     0.2
                          0.2
## [232,]
           0.0
               0.0
                     0.2
                          0.8
## [233,]
           0.0 0.0
                     0.2
                          0.8
## [234,]
           0.9 0.1
                     0.0
                          0.0
## [235,]
           0.0 0.0
                     0.2
                          0.8
## [236,]
           0.0
               0.0
                     0.2
                          0.8
## [237,]
           0.0
               0.1
                     0.2
                          0.7
## [238,]
           0.9
               0.1
                     0.0
                          0.0
## [239,]
           0.5
               0.1
                     0.2
                          0.2
## [240,]
           0.2
                0.1
                     0.2
                          0.5
## [241,]
           0.0 0.0
                     0.2
                          0.8
## [242,]
               0.0
                     0.2
                          0.8
           0.0
## [243,]
           0.0
                0.0
                     0.2
                          0.8
## [244,]
           0.9
                0.1
                     0.0
                          0.0
## [245,]
               0.1
                     0.2
                          0.2
           0.5
## [246,]
           0.0
               0.0
                     0.2
                          0.8
## [247,]
           0.9 0.1
                     0.0
                          0.0
## [248,]
          0.9 0.1 0.0 0.0
```

```
## [249,]
           0.9 0.1 0.0
## [250,]
           0.5 0.1
                     0.2
                          0.2
## [251,]
           0.2
               0.1
                     0.2
                          0.5
## [252,]
           0.9
                0.1
                     0.0
                          0.0
## [253,]
           0.0
               0.0
                     0.2
                          0.8
## [254,]
               0.0
                     0.2
                          0.8
           0.0
## [255,]
                     0.2
           0.5
                0.1
                          0.2
## [256,]
           0.0
               0.0
                     0.2
                          0.8
## [257,]
           0.5
               0.1
                     0.2
                          0.2
## [258,]
           0.9
               0.1
                     0.0
                          0.0
## [259,]
           0.0
               0.0
                     0.2
                          0.8
## [260,]
           0.9
                     0.0
                          0.0
                0.1
## [261,]
           0.0
                0.0
                     0.2
                          0.8
## [262,]
           0.0
                0.0
                     0.2
                          0.8
## [263,]
           0.5
                     0.2
                          0.2
                0.1
## [264,]
           0.5
                0.1
                     0.2
                           0.2
## [265,]
           0.0 0.0
                          0.8
                     0.2
## [266,]
           0.9
               0.1
                     0.0
                          0.0
## [267,]
           0.0
               0.0
                     0.2
                          0.8
## [268,]
           0.0
               0.1
                     0.2
                          0.7
## [269,]
           0.3
               0.1
                     0.2
                          0.4
## [270,]
           0.5
                0.1
                     0.2
                          0.2
## [271,]
           0.9
                     0.0
                0.1
                          0.0
                     0.0
## [272,]
           0.9
               0.1
                          0.0
## [273,]
           0.9 0.1
                     0.0
                          0.0
## [274,]
           0.5
               0.1
                     0.2
                          0.2
## [275,]
           0.9
                0.1
                     0.0
                          0.0
## [276,]
           0.0
               0.0
                     0.2
                          0.8
## [277,]
           0.0
               0.0
                     0.2
                          0.8
## [278,]
           0.5
                0.1
                     0.2
                          0.2
## [279,]
           0.0
               0.0
                     0.2
                           0.8
## [280,]
           0.9
               0.1
                     0.0
                          0.0
## [281,]
           0.9
               0.1
                     0.0
                          0.0
## [282,]
           0.2
                     0.2
               0.1
                          0.5
## [283,]
           0.0
                0.0
                     0.2
                          0.8
## [284,]
               0.0
                     0.2
                          0.8
           0.0
## [285,]
           0.9
                0.1
                     0.0
                          0.0
## [286,]
           0.0
                0.0
                     0.2
                          0.8
## [287,]
           0.0 0.0
                     0.2
                          0.8
## [288,]
           0.9 0.1
                     0.0
                          0.0
           0.5
                          0.2
## [289,]
               0.1
                     0.2
## [290,]
           0.0
               0.0
                     0.2
                          0.8
## [291,]
           0.9
                0.1
                     0.0
                          0.0
## [292,]
           0.0
               0.0
                     0.2
                          0.8
## [293,]
           0.5
                0.1
                     0.2
                          0.2
## [294,]
           0.0
                0.0
                     0.2
                           0.8
## [295,]
           0.9
               0.1
                     0.0
                          0.0
## [296,]
                          0.0
           0.9
               0.1
                     0.0
## [297,]
           0.0
                0.0
                     0.2
                          0.8
## [298,]
           0.0
                0.0
                     0.2
                          0.8
## [299,]
                     0.0
                          0.0
           0.9
               0.1
## [300,]
           0.9
               0.1
                     0.0
                          0.0
## [301,]
           0.0 0.0
                     0.2
                          0.8
## [302,]
          0.0 0.0 0.2
```

```
## [303,]
           0.0 0.0 0.2
                           0.8
           0.5
## [304,]
               0.1
                     0.2
                           0.2
## [305,]
           0.0
                0.0
                      0.2
                           0.8
## [306,]
           0.9
                0.1
                      0.0
                           0.0
## [307,]
           0.5
                0.1
                      0.2
                           0.2
## [308,]
                0.1
                      0.2
                           0.2
           0.5
## [309,]
                0.0
                      0.2
           0.0
                           0.8
## [310,]
           0.9
                0.1
                      0.0
                           0.0
## [311,]
           0.2 0.1
                      0.2
                           0.5
## [312,]
           0.5
                0.1
                      0.2
                           0.2
## [313,]
           0.0
                0.0
                      0.2
                           0.8
## [314,]
           0.3
                      0.2
                0.1
                           0.4
## [315,]
           0.5
                0.1
                      0.2
                           0.2
## [316,]
           0.0
                0.0
                      0.2
                           0.8
## [317,]
                0.0
                      0.2
                           0.8
           0.0
## [318,]
           0.1
                0.1
                      0.2
                           0.6
## [319,]
               0.0
                           0.8
           0.0
                      0.2
## [320,]
           0.9
                0.1
                      0.0
                           0.0
## [321,]
           0.9
                0.1
                      0.0
                           0.0
## [322,]
           0.5
                0.1
                      0.2
                           0.2
## [323,]
           0.0
                0.0
                      0.2
                           0.8
## [324,]
           0.5
                0.1
                      0.2
                           0.2
## [325,]
           0.9
                      0.0
                0.1
                           0.0
                      0.2
## [326,]
           0.5
                0.1
                           0.2
## [327,]
           0.0
                0.0
                      0.2
                           0.8
## [328,]
           0.5
                0.1
                      0.2
                           0.2
## [329,]
           0.0
                0.0
                      0.2
                           0.8
## [330,]
           0.5
                0.1
                      0.2
                           0.2
## [331,]
           0.9
                0.1
                      0.0
                           0.0
## [332,]
           0.5
                0.1
                      0.2
                           0.2
## [333,]
           0.9
                0.1
                      0.0
                           0.0
## [334,]
           0.0
               0.0
                      0.2
                           0.8
## [335,]
           0.0
                0.0
                      0.2
                           0.8
## [336,]
           0.0
                0.1
                      0.2
                           0.7
## [337,]
           0.0
                0.0
                      0.2
                           0.8
## [338,]
                0.0
                      0.2
                           0.8
           0.0
## [339,]
           0.5
                0.1
                      0.2
                           0.2
## [340,]
           0.0
                0.0
                      0.2
                           0.8
## [341,]
           0.0
                0.0
                      0.2
                           0.8
## [342,]
                0.0
                     0.2
                           0.8
           0.0
           0.0
## [343,]
                0.0
                           0.8
                      0.2
## [344,]
           0.9
                0.1
                      0.0
                           0.0
## [345,]
           0.0
                0.0
                      0.2
                           0.8
## [346,]
           0.9
                0.1
                      0.0
                           0.0
## [347,]
                0.0
           0.0
                      0.2
                           0.8
## [348,]
           0.0
                0.1
                      0.2
                           0.7
## [349,]
           0.5
                0.1
                      0.2
                           0.2
## [350,]
                0.0
                           0.8
           0.0
                      0.2
## [351,]
           0.0
                0.0
                      0.2
                           0.8
## [352,]
           0.0
                0.0
                      0.2
                           0.8
## [353,]
                0.0
                      0.2
                           0.8
           0.0
## [354,]
           0.0
                0.0
                      0.2
                           0.8
## [355,]
           0.0 0.0
                      0.2
                           0.8
## [356,]
           0.5 0.1 0.2 0.2
```

```
## [357,]
           0.0 0.0 0.2
                           0.8
## [358,]
           0.9 0.1
                     0.0
                           0.0
## [359,]
           0.0
                0.0
                     0.2
                           0.8
## [360,]
           0.0
                0.0
                     0.2
                           0.8
## [361,]
           0.0
                0.0
                     0.2
                           0.8
## [362,]
                0.1
                     0.0
                           0.0
           0.9
## [363,]
                0.0
                     0.2
           0.0
                           0.8
## [364,]
           0.0
                0.0
                     0.2
                           0.8
## [365,]
           0.5
               0.1
                     0.2
                           0.2
## [366,]
           0.9
               0.1
                     0.0
                           0.0
## [367,]
           0.0
                0.0
                     0.2
                          0.8
## [368,]
           0.0
                0.0
                     0.2
                           0.8
## [369,]
           0.3
                0.1
                     0.2
                           0.4
## [370,]
           0.9
                0.1
                     0.0
                           0.0
## [371,]
           0.0
                0.0
                     0.2
                           0.8
## [372,]
           0.5
                0.1
                     0.2
                           0.2
## [373,]
               0.0
                     0.2
                           0.8
           0.0
## [374,]
           0.0
                0.0
                     0.2
                           0.8
## [375,]
           0.9
                     0.0
                0.1
                           0.0
## [376,]
           0.0
                0.0
                     0.2
                           0.8
## [377,]
           0.0
                0.0
                     0.2
                           0.8
## [378,]
           0.9
                0.1
                     0.0
                           0.0
## [379,]
           0.5
                0.1
                     0.2
                           0.2
## [380,]
           0.9
               0.1
                     0.0
                           0.0
## [381,]
           0.9 0.1
                     0.0
                          0.0
## [382,]
           0.0
                0.0
                     0.2
                          0.8
## [383,]
           0.8
                0.1
                     0.0
                           0.1
## [384,]
           0.0
                0.0
                     0.2
                           0.8
## [385,]
           0.0
               0.0
                     0.2
                           0.8
## [386,]
           0.0
                0.0
                     0.2
                           0.8
## [387,]
           0.5
                0.1
                     0.2
                           0.2
## [388,]
           0.6 0.1
                     0.1
                           0.2
## [389,]
           0.0
                0.1
                     0.2
                           0.7
## [390,]
           0.2
                     0.2
                           0.5
                0.1
## [391,]
           0.9
                0.1
                     0.0
                           0.0
## [392,]
               0.1
                     0.0
                           0.0
           0.9
## [393,]
           0.0
                0.0
                     0.2
                           0.8
## [394,]
           0.0
                0.0
                     0.2
                           0.8
## [395,]
           0.9
               0.1
                     0.0
                           0.0
## [396,]
           0.0 0.0
                     0.2
                          0.8
## [397,]
           0.0
                0.0
                     0.2
                           0.8
## [398,]
           0.9
                0.1
                     0.0
                           0.0
## [399,]
           0.5
                0.1
                     0.2
                           0.2
## [400,]
           0.9
                0.1
                     0.0
                           0.0
## [401,]
           0.9
                0.1
                     0.0
                           0.0
## [402,]
           0.0
                0.0
                     0.2
                           0.8
## [403,]
           0.6
               0.1
                     0.1
                           0.2
## [404,]
                0.0
                           0.8
           0.0
                     0.2
## [405,]
           0.0
                0.0
                     0.2
                           0.8
## [406,]
           0.9
                0.1
                     0.0
                           0.0
## [407,]
                0.0
                     0.2
                           0.8
           0.0
## [408,]
           0.0
                0.1
                     0.2
                           0.7
## [409,]
           0.9 0.1
                     0.0
                           0.0
## [410,]
          0.0 0.0 0.2 0.8
```

```
## [411,]
           0.7 0.1 0.0
## [412,]
           0.0 0.0
                     0.2
                          0.8
## [413,]
           0.0 0.0
                     0.2
                          0.8
## [414,]
           0.6 0.1
                     0.1
                          0.2
## [415,]
           0.9
               0.1
                     0.0
                          0.0
## [416,]
                     0.2
                          0.2
           0.5
               0.1
## [417,]
                     0.2
                          0.2
           0.5
               0.1
## [418,]
           0.9
               0.1
                     0.0
                          0.0
## [419,]
           0.9
               0.1
                     0.0
                          0.0
## [420,]
           0.9 0.1
                     0.0
                          0.0
## [421,]
           0.9 0.1
                     0.0
                          0.0
## [422,]
           0.0
               0.0
                     0.2
                          0.8
## [423,]
           0.0
               0.1
                     0.2
                          0.7
## [424,]
           0.9
                0.1
                     0.0
                          0.0
## [425,]
           0.7
                0.1
                     0.0
                          0.2
## [426,]
           0.9
               0.1
                     0.0
                          0.0
## [427,]
           0.9 0.1
                     0.0
                          0.0
## [428,]
           0.9 0.1
                     0.0
                          0.0
## [429,]
           0.0 0.0
                     0.2
                          0.8
## [430,]
           0.0 0.0
                     0.2
                          0.8
## [431,]
           0.9 0.1
                     0.0
                          0.0
## [432,]
           0.9
               0.1
                     0.0
                          0.0
## [433,]
           0.0
               0.0
                     0.2
                          0.8
               0.1
## [434,]
           0.5
                     0.2
                          0.2
## [435,]
           0.9 0.1
                     0.0
                          0.0
## [436,]
           0.0 0.0
                     0.2
                          0.8
## [437,]
           0.9
               0.1
                     0.0
                          0.0
## [438,]
           0.0 0.1
                     0.2
                          0.7
## [439,]
           0.9
               0.1
                     0.0
                          0.0
## [440,]
           0.0
               0.0
                     0.2
                          0.8
## [441,]
           0.5
               0.1
                     0.2
                          0.2
## [442,]
           0.5
               0.1
                     0.2
                          0.2
## [443,]
           0.0
               0.0
                     0.2
                          0.8
## [444,]
           0.0
               0.0
                     0.2
                          0.8
## [445,]
           0.0
               0.0
                     0.2
                          0.8
## [446,]
           0.0 0.0
                     0.2
                          0.8
## [447,]
           0.0
               0.1
                     0.2
                          0.7
## [448,]
           0.9
               0.1
                     0.0
                          0.0
## [449,]
           0.0 0.0
                     0.2
                          0.8
## [450,]
           0.0 0.0
                    0.2
                          0.8
           0.0
## [451,]
               0.0
                     0.2
                          0.8
## [452,]
           0.0
               0.0
                     0.2
                          0.8
## [453,]
           0.0
               0.0
                     0.2
                          0.8
## [454,]
           0.9
               0.1
                     0.0
                          0.0
## [455,]
           0.6
               0.1
                     0.1
                          0.2
## [456,]
           0.9
               0.1
                     0.0
                          0.0
## [457,]
           0.9 0.1
                     0.0
                          0.0
## [458,]
                          0.7
           0.0 0.1
                     0.2
## [459,]
           0.6
               0.1
                     0.1
                          0.2
## [460,]
           0.0
               0.1
                     0.2
                          0.7
## [461,]
           0.9 0.1
                     0.0
                          0.0
## [462,]
           0.0 0.0
                     0.2
                          0.8
## [463,]
           0.5 0.1
                     0.2
                          0.2
## [464,]
          0.0 0.0 0.2 0.8
```

```
## [465,]
           0.5 0.1 0.2
                           0.2
## [466,]
           0.5 0.1
                     0.2
                           0.2
## [467,]
           0.0
               0.1
                     0.2
                           0.7
## [468,]
           0.5
                0.1
                     0.2
                           0.2
## [469,]
           0.0
                0.0
                     0.2
                           0.8
## [470,]
                     0.2
                           0.2
           0.5
                0.1
## [471,]
                     0.0
           0.9
                0.1
                           0.0
## [472,]
           0.5
                0.1
                     0.2
                           0.2
## [473,]
           0.0
               0.0
                     0.2
                           0.8
               0.0
## [474,]
           0.0
                     0.2
                           0.8
## [475,]
           0.0
                0.0
                     0.2
                           0.8
## [476,]
           0.9
                     0.0
                           0.0
                0.1
## [477,]
           0.0
                0.0
                     0.2
                          0.8
## [478,]
           0.0
                0.0
                     0.2
                           0.8
## [479,]
           0.0
                0.0
                     0.2
                           0.8
## [480,]
           0.0
                0.1
                     0.2
                           0.7
## [481,]
           0.9 0.1
                     0.0
                           0.0
## [482,]
           0.0
               0.0
                     0.2
                           0.8
## [483,]
           0.5
                0.1
                     0.2
                          0.2
## [484,]
           0.0
                0.0
                     0.2
                           0.8
## [485,]
           0.9
                0.1
                     0.0
                           0.0
## [486,]
           0.0
                0.0
                     0.2
                           0.8
## [487,]
           0.5
                     0.2
                           0.2
                0.1
## [488,]
           0.9
               0.1
                     0.0
                           0.0
## [489,]
           0.5 0.1
                     0.2
                          0.2
## [490,]
           0.0
                0.0
                     0.2
                           0.8
## [491,]
           0.9
                0.1
                     0.0
                           0.0
## [492,]
           0.5
                0.1
                     0.2
                           0.2
## [493,]
           0.5
                0.1
                     0.2
                           0.2
## [494,]
           0.5
                0.1
                     0.2
                           0.2
## [495,]
           0.0
                0.0
                     0.2
                           0.8
## [496,]
           0.0
               0.0
                     0.2
                           0.8
## [497,]
           0.5
                0.1
                     0.2
                           0.2
## [498,]
           0.0
                0.0
                     0.2
                           0.8
## [499,]
           0.9
                0.1
                     0.0
                           0.0
## [500,]
                0.1
                           0.0
           0.9
                     0.0
## [501,]
           0.9
                0.1
                     0.0
                           0.0
## [502,]
           0.0
                0.0
                     0.2
                           0.8
## [503,]
           0.9 0.1
                     0.0
                           0.0
## [504,]
           0.0 0.1
                     0.2
                          0.7
           0.9
                          0.0
## [505,]
               0.1
                     0.0
## [506,]
           0.9
                0.1
                     0.0
                           0.0
## [507,]
           0.5
                0.1
                     0.2
                           0.2
## [508,]
           0.5
                0.1
                     0.2
                           0.2
## [509,]
           0.6
                0.1
                     0.1
                           0.2
## [510,]
           0.9
                0.1
                     0.0
                           0.0
## [511,]
           0.9
               0.1
                     0.0
                           0.0
## [512,]
                           0.0
           0.9
                0.1
                     0.0
## [513,]
           0.9
                0.1
                     0.0
                           0.0
## [514,]
           0.0
                0.0
                     0.2
                           0.8
## [515,]
                     0.2
                          0.2
           0.5
                0.1
## [516,]
           0.5
               0.1
                     0.2
                           0.2
## [517,]
           0.9 0.1
                     0.0
                           0.0
## [518,] 0.0 0.0 0.2 0.8
```

```
## [519,]
           0.9 0.1 0.0
## [520,]
           0.0 0.0
                     0.2
                           0.8
## [521,]
           0.0
               0.0
                     0.2
                           0.8
## [522,]
           0.0
                0.1
                     0.2
                           0.7
## [523,]
           0.9
                0.1
                     0.0
                           0.0
## [524,]
               0.0
                     0.2
                           0.8
           0.0
## [525,]
                     0.2
           0.0
                0.1
                           0.7
## [526,]
           0.0
                0.0
                     0.2
                           0.8
## [527,]
           0.5
               0.1
                     0.2
                           0.2
## [528,]
           0.0
               0.0
                     0.2
                           0.8
## [529,]
           0.9
                0.1
                     0.0
                           0.0
## [530,]
           0.0
                0.0
                     0.2
                           0.8
## [531,]
           0.2
               0.1
                     0.2
                           0.5
## [532,]
           0.0
                0.0
                     0.2
                           0.8
## [533,]
           0.9
                0.1
                     0.0
                           0.0
## [534,]
           0.0
                0.0
                     0.2
                           0.8
## [535,]
               0.1
                           0.2
           0.5
                     0.2
## [536,]
           0.0
                0.0
                     0.2
                           0.8
## [537,]
           0.9
                0.1
                     0.0
                           0.0
## [538,]
           0.0
                0.0
                     0.2
                           0.8
## [539,]
           0.0
                0.0
                     0.2
                           0.8
## [540,]
           0.9
                0.1
                     0.0
                           0.0
## [541,]
           0.0
                     0.2
                           0.8
                0.0
               0.1
## [542,]
           0.5
                     0.2
                           0.2
## [543,]
           0.9 0.1
                     0.0
                           0.0
## [544,]
           0.9
                0.1
                     0.0
                           0.0
## [545,]
           0.0
                0.0
                     0.2
                           0.8
## [546,]
           0.0
                0.0
                     0.2
                           0.8
## [547,]
           0.0
                0.0
                     0.2
                           0.8
## [548,]
           0.9
                0.1
                     0.0
                           0.0
## [549,]
           0.9
                0.1
                     0.0
                           0.0
## [550,]
           0.0 0.0
                     0.2
                           0.8
## [551,]
           0.9
                0.1
                     0.0
                           0.0
## [552,]
           0.0
                0.0
                     0.2
                          0.8
## [553,]
           0.9
                0.1
                     0.0
                           0.0
                     0.2
## [554,]
               0.0
                          0.8
           0.0
## [555,]
           0.9
                0.1
                     0.0
                           0.0
## [556,]
           0.0
                0.0
                     0.2
                           0.8
## [557,]
           0.5
                0.1
                     0.2
                           0.2
## [558,]
               0.0
                     0.2
                          0.8
           0.0
           0.0
## [559,]
                0.0
                          0.8
                     0.2
## [560,]
           0.0
                0.1
                     0.2
                           0.7
## [561,]
           0.0
                0.0
                     0.2
                           0.8
## [562,]
           0.5
                0.1
                     0.2
                           0.2
## [563,]
           0.5
                0.1
                     0.2
                           0.2
## [564,]
           0.5
                0.1
                     0.2
                           0.2
## [565,]
           0.9
                0.1
                     0.0
                           0.0
## [566,]
                0.0
                           0.8
           0.0
                     0.2
## [567,]
           0.5
                0.1
                     0.2
                           0.2
## [568,]
           0.9
                0.1
                     0.0
                           0.0
## [569,]
                0.0
                     0.2
                          0.8
           0.0
## [570,]
           0.0
                0.0
                     0.2
                           0.8
## [571,]
           0.5 0.1
                     0.2
                           0.2
## [572,]
          0.0 0.1 0.2 0.7
```

```
## [573,] 0.0 0.0 0.2 0.8
[574.] 0.9 0.1 0.0
        0.0
[575,]
   0.0 0.0 0.2 0.8
## [576,]
   0.5 0.1
      0.2 0.2
## [577,]
   0.6 0.1
      0.1
        0.2
## [578,]
   0.0 0.0 0.2 0.8
## [579.]
   0.5 0.1 0.2 0.2
## [580,]
   0.0 0.0 0.2 0.8
Γ581.l
   0.0 0.0 0.2 0.8
[582,]
   0.0 0.0 0.2 0.8
## [583,]
   0.0 0.0
      0.2 0.8
## [584,]
   0.9 0.1
      0.0 0.0
## [585.]
   0.7
     0.1
      0.0 0.2
## [586,]
   0.5 0.1
      0.2 0.2
## [587,]
   0.9 0.1
      0.0 0.0
## [588,]
   0.0 0.0
      0.2 0.8
## [589,]
   0.0 0.0 0.2 0.8
[590,]
   0.0 0.0 0.2 0.8
## [591,]
   0.5 0.1 0.2 0.2
## [592,]
   0.0 0.0
      0.2 0.8
## [593.]
   0.9 0.1 0.0 0.0
## [594,]
   0.9 0.1
      0.0 0.0
## [595,]
   0.9 0.1 0.0 0.0
[596.]
   0.0 0.0 0.2 0.8
   0.5 0.1 0.2 0.2
## [597,]
[598.]
   0.9 0.1 0.0
[599,]
   0.9 0.1 0.0 0.0
 [600,]
   0.0 0.0
      0.2
        0.8
##
## $class
 ##
 [217] "3" "3" "3" "0" "3" "3" "0" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0"
 [361] "3" "0" "3" "3" "0" "0" "3" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0"
```

```
[451] "3" "3" "3" "0" "0" "0" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0"
## [541] "3" "0" "0" "0" "3" "3" "3" "0" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3"
[595] "0" "3" "0" "0" "0" "3"
## $confusion
       Observed Class
## Predicted Class 0
       0 150 115 21
##
       3 0 35 129 150
##
## $error
## [1] 0.5
data.boostcv <- boosting.cv(price_range ~., v = 10, data = data_train, mfinal = 10, control = rpart.con
## i: 1 Sun Feb 28 23:14:45 2021
## i: 2 Sun Feb 28 23:14:48 2021
## i: 3 Sun Feb 28 23:14:50 2021
  4 Sun Feb 28 23:14:52 2021
## i: 5 Sun Feb 28 23:14:55 2021
  6 Sun Feb 28 23:14:57 2021
  7 Sun Feb 28 23:14:59 2021
## i: 8 Sun Feb 28 23:15:02 2021
## i: 9 Sun Feb 28 23:15:04 2021
## i: 10 Sun Feb 28 23:15:06 2021
data.boostcv
## $class
  [55] "0" "0" "3" "0" "3" "3" "1" "1" "0" "0" "3" "3" "3" "0" "0" "0" "0" "1"
##
  [73] "0" "3" "0" "3" "0" "0" "0" "3" "3" "1" "3" "0" "3" "3" "3" "3" "3" "3"
  [181] "0" "3" "0" "0" "0" "3" "0" "3" "0" "3" "1" "3" "3" "0" "3" "0" "3" "0"
##
```

##

##

##

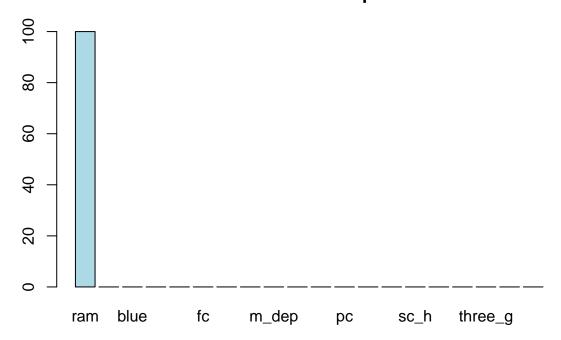
##

```
##
 ##
 ##
 [451] "3" "1" "3" "2" "3" "0" "3" "0" "0" "0" "0" "1" "0" "0" "0" "0" "3" "3" "0"
 ##
 ##
 ##
##
 [595] "0" "3" "0" "0" "3" "0" "3" "1" "0" "3" "0" "0" "3" "0" "3" "0" "3"
 ##
 [667] "0" "0" "0" "0" "0" "1" "3" "3" "0" "3" "3" "3" "0" "0" "0" "1" "0" "3"
##
 ##
 [721] "0" "1" "3" "3" "3" "0" "0" "3" "0" "0" "3" "1" "0" "3" "3" "3" "3" "0" "3"
 ##
 [829] "3" "0" "0" "0" "0" "3" "0" "3" "0" "3" "0" "1" "3" "0" "3" "0" "3"
 [847] "0" "3" "0" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "2" "0" "3" "2" "0"
##
 ##
 [883] "0" "3" "3" "3" "0" "0" "3" "3" "1" "3" "0" "0" "3" "0" "3" "0" "3" "3"
 [901] "0" "0" "3" "0" "0" "3" "0" "3" "0" "3" "1" "0" "3" "1" "0" "3" "3" "3"
 [919] "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "2" "3" "0" "0" "3" "3" "0"
 [937] "0" "0" "0" "3" "1" "0" "0" "0" "0" "0" "3" "3" "3" "3" "0" "1" "0" "3"
##
 [973] "3" "0" "0" "0" "3" "0" "3" "3" "0" "1" "0" "0" "3" "0" "0" "3" "3" "3"
 ##
##
 [1081] "3" "1" "0" "3" "3" "0" "3" "0" "3" "3" "0" "1" "3" "3" "3" "3" "3" "3" "0"
[1171] "0" "0" "3" "0" "0" "3" "0" "0" "3" "0" "1" "0" "3" "0" "3" "0" "3" "0" "3"
## [1189] "3" "3" "0" "1" "3" "3" "0" "3" "3" "0" "3" "3" "1" "3" "3" "0" "3"
## [1225] "3" "3" "0" "0" "3" "2" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "2" "3" "0"
## [1243] "3" "3" "0" "3" "0" "0" "3" "0" "1" "3" "3" "3" "3" "0" "0" "0" "0" "3"
## [1261] "0" "1" "0" "3" "0" "0" "0" "0" "0" "0" "1" "3" "0" "0" "0" "3" "0" "0"
```

```
## [1315] "0" "3" "0" "3" "0" "3" "0" "1" "0" "3" "0" "0" "3" "0" "3" "0" "3" "0" "3" "0"
## [1351] "0" "1" "0" "0" "3" "0" "0" "3" "0" "0" "0" "1" "0" "3" "0" "0" "0" "3"
 [1369] "0" "3" "0" "1" "3" "0" "3" "0" "0" "0" "3" "2" "3" "0" "3" "0" "0" "0"
 [1387] "0" "3" "3" "2" "0" "1" "3" "3" "3" "0" "0" "3" "0" "3"
##
## $confusion
           Observed Class
##
## Predicted Class
             0
           0 345 259
##
##
               35
                  15
##
                9
             0 47 269 349
##
## $error
## [1] 0.4742857
```

barplot(data.adaboost\$imp[order(data.adaboost\$imp, decreasing = TRUE)], ylim = c(0, 100), main = "Varia"

Variables Relative Importance



```
data.bagging <- bagging(price_range ~., data = data_train, mfinal = 10, control = rpart.control(maxdept)
data.bagging</pre>
```

\$formula

```
## price_range ~ .
##
## $trees
## $trees[[1]]
## n= 1400
##
## node), split, n, loss, yval, (yprob)
##
        * denotes terminal node
##
## 1) root 1400 1043 0 (0.25500000 0.24785714 0.25285714 0.24428571)
     2) ram< 2370 797 440 0 (0.44792974 0.42283563 0.12923463 0.00000000) *
    3) ram>=2370 603 261 3 (0.00000000 0.01658375 0.41625207 0.56716418) *
##
##
## $trees[[2]]
## n= 1400
##
## node), split, n, loss, yval, (yprob)
        * denotes terminal node
##
## 1) root 1400 1028 3 (0.239285714 0.240000000 0.255000000 0.265714286)
##
   2) ram< 2711.5 905 570 0 (0.370165746 0.370165746 0.248618785 0.011049724) *
    3) ram>=2711.5 495 133 3 (0.000000000 0.002020202 0.266666667 0.731313131) *
##
## $trees[[3]]
## n= 1400
## node), split, n, loss, yval, (yprob)
        * denotes terminal node
##
##
## 1) root 1400 1039 0 (0.257857143 0.238571429 0.255714286 0.247857143)
     2) ram< 1455 452 103 0 (0.772123894 0.219026549 0.008849558 0.0000000000) *
##
##
     3) ram>=1455 948 594 2 (0.012658228 0.247890295 0.373417722 0.366033755) *
##
## $trees[[4]]
## n= 1400
##
## node), split, n, loss, yval, (yprob)
##
        * denotes terminal node
##
## 1) root 1400 1024 1 (0.2485714 0.2685714 0.2500000 0.2328571)
    2) ram< 2052.5 698 350 0 (0.4985673 0.4283668 0.0730659 0.0000000) *
    3) ram>=2052.5 702 376 3 (0.0000000 0.1096866 0.4259259 0.4643875) *
##
## $trees[[5]]
## n= 1400
##
## node), split, n, loss, yval, (yprob)
        * denotes terminal node
## 1) root 1400 1005 2 (0.23857143 0.24071429 0.28214286 0.23857143)
    2) ram< 2050.5 625 291 0 (0.53440000 0.41920000 0.04640000 0.00000000) *
    3) ram>=2050.5 775 409 2 (0.00000000 0.09677419 0.47225806 0.43096774) *
##
##
## $trees[[6]]
```

```
## n= 1400
##
## node), split, n, loss, yval, (yprob)
       * denotes terminal node
## 1) root 1400 1034 2 (0.24785714 0.25428571 0.26142857 0.23642857)
   2) ram< 2164.5 712 365 0 (0.48735955 0.42837079 0.08426966 0.00000000) *
    3) ram>=2164.5 688 357 3 (0.00000000 0.07412791 0.44476744 0.48110465) *
##
## $trees[[7]]
## n= 1400
## node), split, n, loss, yval, (yprob)
##
        * denotes terminal node
##
## 1) root 1400 1030 2 (0.2585714 0.2421429 0.2642857 0.2350000)
##
    2) ram< 1894.5 626 264 0 (0.5782748 0.3817891 0.0399361 0.00000000) *
##
     3) ram>=1894.5 774 429 2 (0.0000000 0.1291990 0.4457364 0.4250646) *
##
## $trees[[8]]
## n= 1400
## node), split, n, loss, yval, (yprob)
        * denotes terminal node
##
## 1) root 1400 1031 2 (0.24571429 0.25000000 0.26357143 0.24071429)
   2) ram< 1305.5 377 60 0 (0.84084881 0.15384615 0.00530504 0.00000000) *
    3) ram>=1305.5 1023 656 2 (0.02639296 0.28543500 0.35874878 0.32942326) *
##
## $trees[[9]]
## n= 1400
##
## node), split, n, loss, yval, (yprob)
        * denotes terminal node
## 1) root 1400 1035 3 (0.252142857 0.244285714 0.242857143 0.260714286)
   2) ram< 2310.5 752 399 0 (0.469414894 0.416223404 0.113031915 0.001329787) *
##
    3) ram>=2310.5 648 284 3 (0.000000000 0.044753086 0.393518519 0.561728395) *
## $trees[[10]]
## n= 1400
## node), split, n, loss, yval, (yprob)
##
        * denotes terminal node
## 1) root 1400 1033 1 (0.25071429 0.26214286 0.23428571 0.25285714)
    2) ram< 2360 790 439 0 (0.44430380 0.43291139 0.12278481 0.00000000) *
##
     3) ram>=2360 610 256 3 (0.00000000 0.04098361 0.37868852 0.58032787) *
##
##
##
## $votes
          [,1] [,2] [,3] [,4]
##
##
   [1.]
           1 0
                     4
           1
                     4
##
     [2,]
                0
```

##	[3,]	0	0	4	6
##	[4,]	9	0	1	0
##	[5,]	10	0	0	0
##	[6,]	10	0	0	0
##	[7,]	0	0	4	6
##	[8,]	0	0	4	6
##	[9,]	8	0	2	0
##	[10,]	1	0	4	5
##	[11,]	10	0	0	0
##	[12,]	10	0	0	0
##	[13,]	0	0	4	6
##	[14,]	3	0	4	3
##	[15,]	9	0	1	0
##	[16,]	10	0	0	0
##	[17,]	1	0	4	5
##	[18,]	0	0	4	6
##	[19,]	0	0	4	6
##	[20,]	0	0	4	6
##	[21,]	4	0	4	2
##	[22,]	0	0	4	6
## ##	[23,] [24,]	10 9	0	0	0
##	[25,]	0	0	4	6
##	[26,]	0	0	4	6
##	[27,]	5	0	4	1
##	[28,]	1	0	4	5
##	[29,]	8	0	2	0
##	[30,]	8	0	2	0
##	[31,]	10	0	0	0
##	[32,]	10	0	0	0
##	[33,]	0	0	4	6
##	[34,]	10	0	0	0
##	[35,]	0	0	4	6
##	[36,]	5	0	4	1
##	[37,]	5	0	4	1
##	[38,]	9	0	1	0
##	[39,]	0	0	4	6
##	[40,]	1	0	4	5
##	[41,]	0	0	4	6
##	[42,]	8	0	2	0
##	[43,]	10	0	0	0
##	[44,]	10	0	0	0
##	[45,]	5	0	4	1
##	[46,]	0	0	4	6
##	[47,]	0	0	4	6
##	[48,]	0	0	4	6
##	[49,]	0	0	4	6
##	[50,]	10	0	0	0
##	[51,]	0	0	4 4	6
##	[52,] [53,]	0 10	0	0	6
## ##	[53,] [54,]	0	0	4	0 6
##	[54,]	10	0	0	0
##	[56,]	8	0	2	0
##	[30,]	0	U	2	U

##	[57,]	0	0	4	6
##	[58,]	8	0	2	0
##	[59,]	0	0	4	6
##	[60,]	1	0	4	5
##	[61,]	7	0	3	0
##	[62,]	7	0	3	0
##	[63,]	10	0	0	0
##	[64,]	10	0	0	0
##	[65,]	0	0	4	6
##	[66,] [67,]	3	0	4 4	3
## ##	[68,]	0 7	0	3	6 0
##	[69,]	9	0	3 1	0
##	[70,]	10	0	0	0
##	[71,]	8	0	2	0
##	[72,]	9	0	1	0
##	[73,]	8	0	2	0
##	[74,]	1	0	4	5
##	[75,]	9	0	1	0
##	[76,]	1	0	4	5
##	[77,]	10	0	0	0
##	[78,]	10	0	0	0
##	[79,]	8	0	2	0
##	[80,]	1	0	4	5
##	[81,]	0	0	4	6
##	[82,]	7	0	3	0
##	[83,]	4	0	4	2
##	[84,]	10	0	0	0
##	[85,]	0	0	4	6
##	[86,]	0	0	4	6
##	[87,]	0	0	4	6
##	[88,]	7	0	3	0
##	[89,]	1	0	4	5
##	[90,]	0	0	4	6
##	[91,]	0	0	4	6
##	[92,]	0	0	4 4	6
## ##	[93,]	0	0	4	6 6
##	[94,] [95,]	8	0	2	0
##	[96,]	0	0	4	6
##	[97,]	10	0	0	0
##	[98,]	4	0	4	2
##	[99,]	0	0	4	6
##	[100,]	10	0	0	0
##	[101,]	9	0	1	0
##	[102,]	9	0	1	0
##	[103,]	10	0	0	0
##	[104,]	0	0	4	6
##	[105,]	10	0	0	0
##	[106,]	0	0	4	6
##	[107,]	4	0	4	2
##	[108,]	0	0	4	6
##	[109,]	3	0	4	3
##	[110,]	9	0	1	0

##	[111,]	9	0	1	0
##	[112,]	10	0	0	0
##	[113,]	0	0	4	6
##	[114,]	10	0	0	0
##		0			
	[115,]		0	4	6
##	[116,]	0	0	4	6
##	[117,]	10	0	0	0
##	[118,]	3	0	4	3
##	[119,]	0	0	4	6
##	[120,]	5	0	4	1
##	[121,]	7	0	3	0
##	[122,]	1	0	4	5
##	[123,]	8	0	2	0
##	[124,]	0	0	4	6
##	[125,]	0	0	4	6
##	[126,]	4	0	4	2
##	[127,]	10	0	0	0
##	[128,]	1	0	4	5
##	[129,]	0	0	4	6
##	[130,]	8	0	2	0
##	[131,]	8	0	2	0
##	[132,]	10	0	0	0
##	[133,]	3	0	4	3
##	[134,]	0	0	4	6
##	[135,]	0	0	4	6
##	[136,]	10	0	0	0
##	[137,]	0	0	4	6
##	[138,]	0	0	4	6
##	[139,]	1	0	4	5
##	[140,]	4	0	4	2
##	[141,]	0	0	4	6
##	[142,]	0	0	4	6
##	[143,]	8	0	2	0
##	[144,]	10	0	0	0
##	[145,]	10	0	0	0
##	[146,]	10	0	0	0
##	[147,]	1	0	4	5
##	[148,]	1	0	4	5
##	[149,]	4	0	4	
	[150,]	0		4	2
##			0	4	6
##	[151,]	0	0		6
##	[152,]	10	0	0	0
##	[153,]	10	0	0	0
##	[154,]	0	0	4	6
##	[155,]	0	0	4	6
##	[156,]	0	0	4	6
##	[157,]	1	0	4	5
##	[158,]	1	0	4	5
##	[159,]	0	0	4	6
##	[160,]	0	0	4	6
##	[161,]	0	0	4	6
##	[162,]	10	0	0	0
##	[163,]	4	0	4	2
##	[164,]	0	0	4	6

##	[165,]	10	0	0	0
##	[166,]	8	0	2	0
##	[167,]	0	0	4	6
##	[168,]	10	0	0	0
##	[169,]	0	0	4	6
##	[170,]	0	0	4	6
##	[171,]	8	0	2	0
##	[172,]	0	0	4 4	6
## ##	[173,] [174,]	8	0	2	6 0
##	[174,]	8	0	2	0
##	[176,]	10	0	0	0
##	[177,]	0	0	4	6
##	[178,]	1	0	4	5
##	[179,]	10	0	0	0
##	[180,]	10	0	0	0
##	[181,]	8	0	2	0
##	[182,]	0	0	4	6
##	[183,]	10	0	0	0
##	[184,]	7	0	3	0
##	[185,]	10	0	0	0
##	[186,]	0	0	4	6
##	[187,]	10	0	0	0
##	[188,]	1	0	4	5
##	[189,]	1	0	4	5
##	[190,]	10	0	0	0
##	[191,]	0	0	4	6
##	[192,]	8	0	2	0
##	[193,]	1 0	0	4 4	5
## ##	[194,] [195,]	8	0	2	6 0
##	[195,]	10	0	0	0
##	[197,]	0	0	4	6
##	[198,]	10	0	0	0
##	[199,]	7	0	3	0
##	[200,]	3	0	4	3
##	[201,]	8	0	2	0
##	[202,]	0	0	4	6
##	[203,]	0	0	4	6
##	[204,]	0	0	4	6
##	[205,]	10	0	0	0
##	[206,]	10	0	0	0
##	[207,]	8	0	2	0
##	[208,]	0	0	4	6
##	[209,]	10	0	0	0
##	[210,]	8	0	2	0
##	[211,]	0	0	4	6
##	[212,]	10	0	0	0
##	[213,]	10	0	0	0
##	[214,]	0	0	4	6
## ##	[215,] [216,]	10 8	0	0 2	0
##	[217,]	0	0	4	6
##	[217,]	8	0	2	0
	L-10,1	9	•	_	0

[219.]	0	0	4	6
				0
				6
				6
				0
				0
				0
				0
				6
				0
				0
				0
				6
				6
				0
				1
				0
				0
				0
				6
				6
				0
				1
				6
				0
				0
				6
				6
				6
				6
		0	4	5
	1	0	4	5
		0	4	5
		0	4	6
		0	4	2
	10	0	0	0
	0	0	4	6
	10	0	0	0
	10	0	0	0
	0	0	4	6
[259,]	0	0	4	6
[260,]	8	0	2	0
[261,]	10	0	0	0
[262,]	0	0	4	6
[263,]	1	0	4	5
[264,]	0	0	4	6
[265,]	4	0	4	2
[266,]	0	0	4	6
[267,]	1	0	4	5
[268,]	10	0	0	0
[269,]	1	0	4	5
[270,]	10	0	0	0
[271,]	10	0	0	0
[272,]	0	0	4	6
	[260,] [261,] [262,] [263,] [264,] [265,] [266,] [267,] [268,] [269,] [270,]	[220,] 10 [221,] 0 [222,] 0 [223,] 10 [224,] 10 [225,] 8 [226,] 10 [227,] 0 [228,] 10 [229,] 10 [230,] 10 [231,] 0 [231,] 0 [233,] 8 [234,] 5 [235,] 10 [236,] 8 [237,] 10 [238,] 0 [240,] 10 [241,] 5 [242,] 0 [241,] 5 [242,] 0 [243,] 10 [244,] 10 [244,] 10 [245,] 0 [247,] 0 [248,] 0 [247,] 0 [248,] 0 [247,] 0 [248,] 0 [247,] 0 [248,] 1 [250,] 1 [251,] 1 [252,] 0 [253,] 4 [254,] 10 [255,] 0 [253,] 4 [254,] 10 [255,] 0 [256,] 10 [257,] 10 [258,] 0 [260,] 8 [261,] 10 [262,] 0 [263,] 1 [264,] 0 [265,] 4 [266,] 0 [267,] 1 [268,] 10 [267,] 1 [268,] 10 [267,] 1 [268,] 10 [267,] 1 [268,] 10 [267,] 1 [268,] 10 [267,] 1 [268,] 10 [267,] 10 [267,] 10 [271,] 10	[220,] 10 0 [221,] 0 0 [222,] 0 0 [223,] 10 0 [224,] 10 0 [225,] 8 0 [226,] 10 0 [227,] 0 0 [228,] 10 0 [229,] 10 0 [230,] 10 0 [231,] 0 0 [231,] 0 0 [232,] 0 0 [233,] 8 0 [234,] 5 0 [235,] 10 0 [236,] 8 0 [237,] 10 0 [238,] 0 0 [238,] 0 0 [239,] 0 0 [241,] 5 0 [242,] 0 0 [241,] 5 0 [242,] 0 0 [243,] 10 0 [244,] 10 0 [244,] 10 0 [244,] 10 0 [245,] 0 0 [247,] 0 0 [248,] 0 0 [247,] 0 0 [248,] 0 0 [251,] 1 0 [252,] 0 0 [253,] 4 0 [253,] 4 0 [254,] 10 0 [255,] 1 0 [255,] 1 0 [256,] 1 0 [257,] 10 0 [257,] 10 0 [258,] 0 0 [257,] 10 0 [258,] 0 0 [257,] 10 0 [258,] 0 0 [257,] 10 0 [257,] 10 0 [258,] 0 0 [260,] 8 0 [261,] 10 0 [262,] 0 0 [263,] 1 0 [263,] 1 0 [264,] 0 0 [267,] 1 0 [268,] 1 0 [268,] 1 0 [268,] 1 0 [269,] 1 0 [271,] 10 0	[220,] 10 0 0 4 [221,] 0 0 4 [222,] 0 0 4 [223,] 10 0 0 [224,] 10 0 0 [225,] 8 0 2 [226,] 10 0 0 [227,] 0 4 [228,] 10 0 0 [229,] 10 0 0 [230,] 10 0 0 [231,] 0 0 4 [232,] 0 0 4 [233,] 8 0 2 [234,] 5 0 4 [235,] 10 0 0 [236,] 8 0 2 [237,] 10 0 0 [238,] 0 0 4 [239,] 0 0 4 [240,] 10 0 0 [241,] 5 0 4 [242,] 0 0 4 [242,] 0 0 4 [243,] 10 0 0 [244,] 10 0 0 [245,] 0 0 4 [247,] 0 0 4 [247,] 0 0 4 [248,] 0 0 4 [250,] 1 0 4 [250,] 1 0 4 [251,] 1 0 4 [252,] 0 0 4 [253,] 4 0 4 [255,] 1 0 0 0 [257,] 1 0 0 0 [258,] 0 0 4 [257,] 1 0 0 0 [258,] 0 0 4 [259,] 0 0 4 [260,] 8 0 2 [261,] 10 0 0 [262,] 0 0 4 [263,] 1 0 0 0 [262,] 0 0 4 [263,] 1 0 0 0 [262,] 0 0 4 [263,] 1 0 0 0 [267,] 1 0 0 0 [267,] 1 0 0 0 [267,] 1 0 0 0 [268,] 0 0 4 [268,] 1 0 0 0 [269,] 1 0 4 [268,] 1 0 0 0 [267,] 1 0 0 0 [277,] 10 0 0 0 [277,] 10 0 0 0 [277,] 10 0 0 0 [277,] 10 0 0 0 [277,] 10 0 0 0 [277,] 10 0 0 0 [277,] 10 0 0 0 [277,] 10 0 0 0 [277,] 10 0 0 0 [277,] 10 0 0 0 [277,] 10 0 0 0 [277,] 10 0 0 0 [277,] 10 0 0 0 [277,] 10 0 0 0

##	[273,]	3	0	4	3
##	[274,]	0	0	4	6
##	[275,]	2	0	4	4
##	[276,]	0	0	4	6
##	[277,]	0	0	4	6
##	[278,]	0	0	4	6
##	[279,]	5	0	4	1
##	[280,]	0	0	4	6
##	[281,]	0	0	4	6
##	[282,]	9	0	1	0
##	[283,]	8	0	2	0
##	[284,]	1	0	4	5
##	[285,]	0	0	4	6
## ##	[286,]	0	0	4	6
##	[287,] [288,]	8 1	0	2 4	0 5
##	[289,]	0	0	4	6
##	[290,]	7	0	3	0
##	[291,]	0	0	4	6
##	[292,]	4	0	4	2
##	[293,]	10	0	0	0
##	[294,]	0	0	4	6
##	[295,]	10	0	0	0
##	[296,]	1	0	4	5
##	[297,]	3	0	4	3
##	[298,]	8	0	2	0
##	[299,]	10	0	0	0
##	[300,]	8	0	2	0
##	[301,]	1	0	4	5
##	[302,]	5	0	4	1
##	[303,]	10	0	0	0
##	[304,]	0	0	4	6
##	[305,]	0	0	4	6
##	[306,]	10	0	0	0
##	[307,] [308,]	8 8	0	2 2	0
##	[309,]	0	0	4	6
##	[310,]	10	0	0	0
##	[311,]	10	0	0	0
##	[312,]	0	0	4	6
##	[313,]	10	0	0	0
##	[314,]	10	0	0	0
##	[315,]	0	0	4	6
##	[316,]	10	0	0	0
##	[317,]	10	0	0	0
##	[318,]	1	0	4	5
##	[319,]	7	0	3	0
##	[320,]	0	0	4	6
##	[321,]	7	0	3	0
##	[322,]	9	0	1	0
##	[323,]	1	0	4	5
##	[324,]	3	0	4	3
##	[325,]	8	0	2	0
##	[326,]	10	0	0	0

##	[327,]	10	0	0	0
##	[328,]	0	0	4	6
##	[329,]	10	0	0	0
##	[330,]	10	0	0	0
##	[331,]	8	0	2	0
##	[332,]	0	0	4	6
##	[333,]	0	0	4	6
##	[334,]	8	0	2	0
##	[335,]	3	0	4	3
##	[336,]	0	0	4	6
##	[337,]	0	0	4	6
##	[338,]	0	0	4	6
##	[339,] [340,]	10 0	0	0 4	0 6
##	[341,]	10	0	0	0
## ##	[341,]	0	0	4	6
##	[343,]	8	0	2	0
##	[344,]	10	0	0	0
##	[344,]	0	0	4	6
##	[346,]	5	0	4	1
##	[347,]	10	0	0	0
##	[348,]	7	0	3	0
##	[349,]	10	0	0	0
##	[350,]	0	0	4	6
##	[351,]	7	0	3	0
##	[352,]	1	0	4	5
##	[353,]	0	0	4	6
##	[354,]	10	0	0	0
##	[355,]	0	0	4	6
##	[356,]	10	0	0	0
##	[357,]	10	0	0	0
##	[358,]	9	0	1	0
##	[359,]	1	0	4	5
##	[360,]	7	0	3	0
##	[361,]	0	0	4	6
##	[362,]	0	0	4	6
##	[363,]	5	0	4	1
##	[364,]	0	0	4	6
##	[365,]	8	0	2	0
##	[366,]	0	0	4	6
##	[367,]	0	0	4	6
##	[368,]	0	0	4	6
##	[369,]	0	0	4	6
##	[370,]	9	0	1	0
##	[371,]	0	0	4	6
##	[372,]	0	0	4	6
##	[373,]	0	0	4	6
##	[374,]	1	0	4	5
##	[375,]	0	0	4	6
##	[376,]	3	0	4	3
##	[377,]	1	0	4	5
##	[378,]	0	0	4	6
##	[379,]	0	0	4	6
##	[380,]	10	0	0	0

##	[381,]	0	0	4	6
##	[382,]	8	0	2	0
##	[383,]	10	0	0	0
##	[384,]	0	0	4	6
##	[385,]	8	0	2	0
##	[386,]	8	0	2	0
##	[387,]	0	0	4	6
##	[388,]	10	0	0	0
##	[389,]	9	0	1	0
## ##	[390,] [391,]	10 10	0	0 0	0
##	[391,]	1	0	4	5
##	[393,]	0	0	4	6
##	[394,]	10	0	0	0
##	[395,]	8	0	2	0
##	[396,]	7	0	3	0
##	[397,]	0	0	4	6
##	[398,]	10	0	0	0
##	[399,]	10	0	0	0
##	[400,]	0	0	4	6
##	[401,]	0	0	4	6
##	[402,]	0	0	4	6
##	[403,]	0	0	4	6
##	[404,]	10	0	0	0
##	[405,]	0	0	4	6
##	[406,]	0	0	4	6
##	[407,]	10	0	0	0
##	[408,]	10	0	0	0
##	[409,]	0	0	4	6
##	[410,]	0	0	4	6
##	[411,]	0	0	4	6
##	[412,]	10	0	0	0
##	[413,]	0	0	4	6
##	[414,]	9	0	1	0
##	[415,]	10	0	0	0
##	[416,]	0	0	4	6
##	[417,]	0	0	4	6
##	[418,]	10	0	0	0
##	[419,]	0	0	4	6
## ##	[420,] [421,]	10 10	0	0 0	0
##	[421,]	10	0	0	0
##	[423,]	0	0	4	6
##	[424,]	10	0	0	0
##	[425,]	8	0	2	0
##	[426,]	10	0	0	0
##	[427,]	1	0	4	5
##	[428,]	10	0	0	0
##	[429,]	0	0	4	6
##	[430,]	4	0	4	2
##	[431,]	0	0	4	6
##	[432,]	10	0	0	0
##	[433,]	0	0	4	6
##	[434,]	0	0	4	6

##	[435,]	8	0	2	0
##	[436,]	0	0	4	6
##	[437,]	10	0	0	0
##	[438,]	9	0	1	0
##	[439,]	3	0	4	3
##	[440,]	10	0	0	0
##	[441,]	10	0	0	0
##	[442,]	10	0	0	0
##	[443,]	8	0	2 4	0
## ##	[444,]	0 0	0	4	6 6
##	[445,] [446,]	9	0	1	0
##	[447,]	0	0	4	6
##	[448,]	4	0	4	2
##	[449,]	10	0	0	0
##	[450,]	7	0	3	0
##	[451,]	0	0	4	6
##	[452,]	7	0	3	0
##	[453,]	0	0	4	6
##	[454,]	4	0	4	2
##	[455,]	1	0	4	5
##	[456,]	10	0	0	0
##	[457,]	0	0	4	6
##	[458,]	8	0	2	0
##	[459,]	8	0	2	0
##	[460,]	10	0	0	0
##	[461,]	10	0	0	0
##	[462,]	8	0	2	0
##	[463,]	10	0	0	0
##	[464,]	10	0	0	0
##	[465,]	10	0	0	0
##	[466,]	0	0	4	6
##	[467,]	0	0	4	6
##	[468,]	8	0	2	0
##	[469,]	10	0	0	0
##	[470,]	9	0	1	0
##	[471,]	10	0	0	0
##	[472,]	0	0	4	6
## ##	[473,] [474,]	0 1	0	4 4	6 5
##	[474,]	0	0	4	6
##	[476,]	1	0	4	5
##	[477,]	5	0	4	1
##	[478,]	10	0	0	0
##	[479,]	10	0	0	0
##	[480,]	0	0	4	6
##	[481,]	1	0	4	5
##	[482,]	10	0	0	0
##	[483,]	0	0	4	6
##	[484,]	4	0	4	2
##	[485,]	10	0	0	0
##	[486,]	0	0	4	6
##	[487,]	10	0	0	0
##	[488,]	0	0	4	6

##	[489,]	0	0	4	6
##	[490,]	0	0	4	6
##	[491,]	10	0	0	0
##	[492,]	0	0	4	6
##	[493,]	10	0	0	0
##	[494,]	9	0	1	0
##	[495,]	0	0	4	6
##	[496,]	10	0	0	0
##	[497,]	1	0	4	5
##	[498,]	0	0	4	6
##	[499,]	10	0	0	0
##	[500,]	0	0	4	6
##	[501,]	0 10	0	4 0	6 0
##	[502,]	7	0	3	0
## ##	[503,]	10	0	0	0
##	[504,] [505,]	7	0	3	0
##	[506,]	10	0	0	0
##	[507,]	10	0	0	0
##	[508,]	0	0	4	6
##	[500,]	1	0	4	5
##	[510,]	0	0	4	6
##	[511,]	0	0	4	6
##	[512,]	1	0	4	5
##	[513,]	4	0	4	2
##	[514,]	0	0	4	6
##	[515,]	0	0	4	6
##	[516,]	10	0	0	0
##	[517,]	0	0	4	6
##	[518,]	0	0	4	6
##	[519,]	10	0	0	0
##	[520,]	4	0	4	2
##	[521,]	10	0	0	0
##	[522,]	10	0	0	0
##	[523,]	0	0	4	6
##	[524,]	10	0	0	0
##	[525,]	0	0	4	6
##	[526,]	10	0	0	0
##	[527,]	10	0	0	0
##	[528,]	10	0	0	0
##	[529,]	0	0	4	6
##	[530,]	9	0	1	0
##	[531,]	7	0	3	0
##	[532,]	0	0	4	6
##	[533,]	5	0	4	1
##	[534,]	0	0	4	6
##	[535,]	1	0	4	5
##	[536,]	10	0	0	0
##	[537,]	10	0	0	0
##	[538,]	8	0	2	0
## ##	[539,] [540,]	0 1	0	4 4	6 5
##	[540,]	10	0	0	0
##	[541,]	0	0	4	6
##	[342,]	U	U	4	Ö

##	[543,]	1	0	4	5
##	[544,]	10	0	0	0
##	[545,]	4	0	4	2
##	[546,]	10	0	0	0
##	[547,]	0	0	4	6
##	[548,]	0	0	4	6
##	[549,]	1 0	0	4 4	5
##	[550,] [551,]	0	0	4	6 6
##	[552,]	8	0	2	0
##	[553,]	10	0	0	0
##	[554,]	0	0	4	6
##	[555,]	8	0	2	0
##	[556,]	10	0	0	0
##	[557,]	0	0	4	6
##	[558,]	7	0	3	0
##	[559,]	9	0	1	0
##	[560,]	0	0	4	6
##	[561,]	0	0	4	6
##	[562,]	0	0	4	6
##	[563,]	0	0	4	6
##	[564,]	10	0	0	0
##	[565,]	10	0	0	0
##	[566,]	8	0	2	0
##	[567,]	10	0	0	0
##	[568,]	0	0	4	6
##	[569,]	0	0	4	6
##	[570,]	9	0	1	0
##	[571,]	10 0	0	0 4	0 6
##	[572,] [573,]	0	0	4	6
##	[574,]	9	0	1	0
##	[575,]	1	0	4	5
##	[576,]	0	0	4	6
##	[577,]	1	0	4	5
##	[578,]	0	0	4	6
##	[579,]	0	0	4	6
##	[580,]	1	0	4	5
##	[581,]	0	0	4	6
##	[582,]	0	0	4	6
##	[583,]	0	0	4	6
##	[584,]	0	0	4	6
##	[585,]	0	0	4	6
##	[586,]	0	0	4	6
##	[587,]	1	0	4	5
##	[588,]	0	0	4	6
##	[589,]	4	0	4	2
##	[590,]	0	0	4	6
## ##	[591,] [592,]	10 10	0	0	0
##	[592,] [593,]	0	0	4	6
##	[593,] [594,]	10	0	0	0
##	[595,]	10	0	0	0
##	[596,]	0	0	4	6
π	[000,]	V	J	-	J

##	[597,]	7	0	3	0
##	[598,]	10	0	0	0
##	[599,]	3	0	4	3
##	[600,]	9	0	1	0
##	[601,]	0	0	4	6
##	[602,]	3 9	0	4 1	3
## ##	[603,] [604,]	0	0	4	6
##	[604,]	5	0	4	1
##	[606,]	8	0	2	0
##	[607,]	0	0	4	6
##	[608,]	10	0	0	0
##	[609,]	1	0	4	5
##	[610,]	0	0	4	6
##	[611,]	7	0	3	0
##	[612,]	0	0	4	6
##	[613,]	0	0	4	6
##	[614,]	0	0	4	6
##	[615,]	3	0	4	3
##	[616,]	10	0	0	0
## ##	[617,] [618,]	10 10	0	0	0
##	[619,]	10	0	0	0
##	[620,]	1	0	4	5
##	[621,]	0	0	4	6
##	[622,]	1	0	4	5
##	[623,]	0	0	4	6
##	[624,]	9	0	1	0
##	[625,]	0	0	4	6
##	[626,]	0	0	4	6
##	[627,]	10	0	0	0
##	[628,]	8	0	2	0
##	[629,]	7	0	3	0
##	[630,]	0	0	4	6
## ##	[631,]	0 9	0 0	4 1	6 0
##	[632,] [633,]	0	0	4	6
##	[634,]	7	0	3	0
##	[635,]	10	0	0	0
##	[636,]	0	0	4	6
##	[637,]	8	0	2	0
##	[638,]	0	0	4	6
##	[639,]	10	0	0	0
##	[640,]	0	0	4	6
##	[641,]	10	0	0	0
##	[642,]	10	0	0	0
##	[643,]	8	0	2	0
##	[644,]	10	0	0	0
##	[645,]	0	0	4	6
##	[646,]	0	0	4	6
## ##	[647,] [648,]	10 9	0	0 1	0
##	[649,]	0	0	4	6
##	[650,]	1	0	4	5
	, _	_	-	-	_

##	[651,]	5	0	4	1
##	[652,]	7	0	3	0
##	[653,]	0	0	4	6
##	[654,]	10	0	0	0
##	[655,]	0	0	4	6
##	[656,]	1	0	4	5
##	[657,]	0	0	4	6
##	[658,]	0	0	4	6
## ##	[659,]	0 0	0	4 4	6 6
##	[660,] [661,]	1	0	4	5
##	[662,]	0	0	4	6
##	[663,]	10	0	0	0
##	[664,]	8	0	2	0
##	[665,]	10	0	0	0
##	[666,]	0	0	4	6
##	[667,]	10	0	0	0
##	[668,]	4	0	4	2
##	[669,]	8	0	2	0
##	[670,]	9	0	1	0
##	[671,]	10	0	0	0
##	[672,]	8	0	2	0
##	[673,]	0	0	4	6
##	[674,]	0	0	4	6
##	[675,]	10	0	0	0
##	[676,]	0	0	4	6
##	[677,]	1	0	4	5
##	[678,]	0	0	4	6
##	[679,]	8	0	2	0
##	[680,]	10	0	0	0
##	[681,]	8	0	2	0
##	[682,]	9	0	1	0
##	[683,]	10	0	0	0
##	[684,]	0	0	4	6
##	[685,]	10	0	0	0
## ##	[686,] [687,]	10 0	0	4	0 6
		_	_		_
## ##	[688,] [689,]	9 10	0	1 0	0
##	[690,]	0	0	4	6
##	[691,]	0	0	4	6
##	[692,]	10	0	0	0
##	[693,]	10	0	0	0
##	[694,]	10	0	0	0
##	[695,]	0	0	4	6
##	[696,]	0	0	4	6
##	[697,]	7	0	3	0
##	[698,]	8	0	2	0
##	[699,]	8	0	2	0
##	[700,]	9	0	1	0
##	[701,]	10	0	0	0
##	[702,]	10	0	0	0
##	[703,]	0	0	4	6
##	[704,]	0	0	4	6

##	[705,]	0	0	4	6
##	[706,]	0	0	4	6
##	[707,]	8	0	2	0
##	[708,]	10	0	0	0
##	[709,]	10	0	0	0
##	[710,]	1	0	4	5
##	[711,]	1	0	4	5
##	[712,]	10	0	0	0
##	[713,]	10	0	0	0
##	[714,]	8	0	2	0
##	[715,]	10	0	0	0
##	[716,]	9	0	1	0
##	[717,]	0	0	4	6
##	[718,]	8	0	2	0
##	[719,]	10	0	0	0
##	[720,]	10	0	0	0
##	[721,]	10	0	0	0
##	[722,]	8	0	2	0
##	[723,]	1	0	4 4	5
## ##	[724,] [725,]	4 0	0	4	2 6
##	[726,]	10	0	0	0
##	[727,]	10	0	0	0
##	[728,]	0	0	4	6
##	[729,]	9	0	1	0
##	[730,]	10	0	0	0
##	[731,]	1	0	4	5
##	[732,]	7	0	3	0
##	[733,]	10	0	0	0
##	[734,]	0	0	4	6
##	[735,]	0	0	4	6
##	[736,]	0	0	4	6
##	[737,]	8	0	2	0
##	[738,]	1	0	4	5
##	[739,]	9	0	1	0
##	[740,]	10	0	0	0
##	[741,]	4	0	4	2
##	[742,]	1	0	4	5
##	[743,]	9	0	1	0
##	[744,]	0	0	4	6
##	[745,]	10	0	0	0
##	[746,]	0	0	4	6
##	[747,]	10	0	0	0
##	[748,]	10	0	0	0
##	[749,]	10	0	0	0
##	[750,]	10	0	0	0
##	[751,]	0	0	4	6
##	[752,]	10	0	0	0
##	[753,]	1	0	4	5
##	[754,] [755,]	10 10	0	0	0
## ##	[756,]	0	0	0 4	0 6
##	[757,]	8	0	2	0
##	[758,]	8	0	2	0
##	[100,]	0	U	2	U

```
[759,]
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##
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##
     [760,]
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                       0
                                   5
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##
     [761,]
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##
     [762,]
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                                   0
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##
     [763,]
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                             0
##
     [764,]
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                                    2
##
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##
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##
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                                    0
##
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                             2
                                   0
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##
     [769,]
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                                    0
##
     [770,]
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##
     [771,]
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                       0
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##
     [772,]
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##
     [773,]
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##
     [774,]
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                             0
                                    0
##
     [775,]
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##
     [776,]
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                             4
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##
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## [1081,] 0 0 4						0
						0
## [1082,] 9 0 1						6
	##	[1082,]	9	0	1	0

##	[1083,]	10	0	0	0
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##	[1086,]	10	0	0	0
##	[1087,]	0	0	4	6
##	[1088,]	8	0	2	0
##	[1089,]	1	0	4	5
##	[1090,] [1091,]	1	0	4	5
## ##	[1091,]	10 8	0	0 2	0
##	[1092,]	0	0	4	6
##	[1093,]	1	0	4	5
##	[1095,]	1	0	4	5
##	[1096,]	4	0	4	2
##	[1097,]	3	0	4	3
##	[1098,]	9	0	1	0
##	[1099,]	5	0	4	1
##	[1100,]	10	0	0	0
##	[1101,]	0	0	4	6
##	[1102,]	0	0	4	6
##	[1103,]	4	0	4	2
##	[1104,]	4	0	4	2
##	[1105,]	3	0	4	3
##	[1106,]	1	0	4	5
##	[1107,]	10	0	0	0
##	[1108,]	10	0	0	0
##	[1109,]	0	0	4	6
##	[1110,]	10	0	0	0
##	[1111,]	0	0	4	6
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## ##	[1113,] [1114,]	10 0	0	0 4	0
##	[1114,]	10	0	0	6 0
##	[1116,]	6	0	4	0
##	[1117,]	10	0	0	0
##	[1118,]	10	0	0	0
##	[1119,]	10	0	0	0
##	[1120,]	10	0	0	0
##	[1121,]	10	0	0	0
##	[1122,]	0	0	4	6
##	[1123,]	8	0	2	0
##	[1124,]	8	0	2	0
##	[1125,]	0	0	4	6
##	[1126,]	0	0	4	6
##	[1127,]	3	0	4	3
##	[1128,]	8	0	2	0
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##	[1145,]	1	0	4	5
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##	[1147,]	0	0	4	6
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##	[1149,]	10	0	0	0
##	[1150,]	8	0	2	0
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##	[1152,]	0	0	4	6
##	[1153,]	0	0	4	6
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##	[1155,]	10	0	0	0
##	[1156,]	8	0	2	0
##	[1157,]	10	0	0	0
##	[1158,]	8	0	2	0
##	[1159,]	8	0	2	0
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##	[1167,]	8	0	2	0
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##	[1169,]	9 10	0	1 0	0
## ##	[1170,]		0	2	0
##	[1171,]	8 10	0	0	0
##	[1172,] [1173,]	0	0	4	6
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##	[1178,]	10	0	0	0
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##	[1182,]	8	0	2	0
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##	[1186,]	0	0	4	6
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##	[1189,]	0	0	4	6
##	[1190,]	0	0	4	6

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##	[1193,]	0	0	4	6
##	[1194,]	0	0	4	6
##	[1195,]	0	0	4	6
##	[1196,]	10	0	0	0
##	[1197,]	0	0	4	6
##	[1198,] [1199,]	0	0	4	6
## ##	[1200,]	8 0	0	2 4	0 6
##	[1200,]	1	0	4	5
##	[1202,]	8	0	2	0
##	[1203,]	0	0	4	6
##	[1204,]	Ö	0	4	6
##	[1205,]	10	0	0	0
##	[1206,]	0	0	4	6
##	[1207,]	10	0	0	0
##	[1208,]	0	0	4	6
##	[1209,]	0	0	4	6
##	[1210,]	0	0	4	6
##	[1211,]	1	0	4	5
##	[1212,]	1	0	4	5
##	[1213,]	10	0	0	0
##	[1214,]	1	0	4	5
##	[1215,]	7	0	3	0
##	[1216,]	1	0	4	5
##	[1217,]	0	0	4	6
##	[1218,]	0	0	4 0	6 0
## ##	[1219,] [1220,]	10 0	0	4	6
##	[1221,]	0	0	4	6
##	[1222,]	0	0	4	6
##	[1223,]	10	0	0	0
##	[1224,]	0	0	4	6
##	[1225,]	1	0	4	5
##	[1226,]	0	0	4	6
##	[1227,]	8	0	2	0
##	[1228,]	9	0	1	0
##	[1229,]	3	0	4	3
##	[1230,]	7	0	3	0
##	[1231,]	0	0	4	6
##	[1232,]	10	0	0	0
##	[1233,]	4	0	4	2
##	[1234,]	0	0	4	6
##	[1235,]	10	0	0	0
##	[1236,]	0	0	4	6
##	[1237,]	10	0	0	0
##	[1238,] [1239,]	0 9	0	4 1	6
## ##	[1239,]	9 4	0	4	0 2
##	[1240,]	0	0	4	6
##	[1241,]	10	0	0	0
##	[1243,]	0	0	4	6
##	[1244,]	0	0	4	6
	, _	-	-	_	_

##	[1245,]	10	0	0	0
##	[1246,]	0	0	4	6
##	[1247,]	10	0	0	0
##	[1248,]	10	0	0	0
##	[1249,]	0	0	4	6
##	[1250,]	8 4	0	2 4	0 2
## ##	[1251,] [1252,]	0	0	4	6
##	[1252,]	0	0	4	6
##	[1254,]	1	0	4	5
##	[1255,]	10	0	0	0
##	[1256,]	5	0	4	1
##	[1257,]	8	0	2	0
##	[1258,]	8	0	2	0
##	[1259,]	7	0	3	0
##	[1260,]	0	0	4	6
##	[1261,]	10	0	0	0
##	[1262,]	4	0	4	2
##	[1263,]	10	0	0	0
##	[1264,]	3	0	4	3
##	[1265,]	7	0	3	0
##	[1266,]	9	0	1	0
##	[1267,]	8	0	2	0
##	[1268,]	10	0	0	0
##	[1269,]	5 10	0	4	1
## ##	[1270,] [1271,]	10 5	0	4	0 1
##	[1271,]	0	0	4	6
##	[1273,]	8	0	2	0
##	[1274,]	10	0	0	0
##	[1275,]	10	0	0	0
##	[1276,]	0	0	4	6
##	[1277,]	7	0	3	0
##	[1278,]	5	0	4	1
##	[1279,]	1	0	4	5
##	[1280,]	7	0	3	0
##	[1281,]	1	0	4	5
##	[1282,]	0	0	4	6
##	[1283,]	0	0	4	6
##	[1284,]	10	0	0	0
##	[1285,]	9	0	1	0
##	[1286,]	8	0	2	0
##	[1287,]	0	0	4	6
##	[1288,]	1	0	4	5
## ##	[1289,] [1290,]	8	0	2	0
##	[1291,]	8 6	0	2 4	0
##	[1292,]	10	0	0	0
##	[1292,]	10	0	4	5
##	[1294,]	0	0	4	6
##	[1295,]	8	0	2	0
##	[1296,]	0	0	4	6
##	[1297,]	8	0	2	0
##	[1298,]	0	0	4	6

	F 3		_	_	_
##	[1299,]	10	0	0	0
##	[1300,]	0	0	4	6
##	[1301,]	10	0	0	0
##	[1302,]	0	0	4	6
##	[1303,]	10	0	0	0
##	[1304,]	10	0	0	0
##	[1305,]	10	0	0	0
##	[1306,]	0	0	4	6
		0	0		
##	[1307,]			4	6
##	[1308,]	10	0	0	0
##	[1309,]	10	0	0	0
##	[1310,]	10	0	0	0
##	[1311,]	0	0	4	6
##	[1312,]	0	0	4	6
##	[1313,]	9	0	1	0
##	[1314,]	10	0	0	0
##	[1315,]	10	0	0	0
##	[1316,]	1	0	4	5
##	[1317,]	9	0	1	0
##	[1318,]	1	0	4	5
##	[1319,]	10	0	0	0
##	[1320,]	0	0	4	6
##	[1321,]	10	0	0	0
##	[1322,]	4	0	4	2
##	[1323,]	10	0	0	0
##	[1324,]	0	0	4	6
##	[1325,]	10	0	0	0
##	[1326,]	10	0	0	0
##	[1327,]	2	0	4	4
##	[1328,]	10	0	0	0
##	[1329,]	0	0	4	6
##	[1330,]	10	0	0	0
##	[1331,]	0	0	4	6
##		0	0	4	6
	[1332,]	10			
##	[1333,]		0	0	0
##	[1334,]	10	0	0	0
##	[1335,]	0	0	4	6
##	[1336,]	0	0	4	6
##	[1337,]	7	0	3	0
##	[1338,]	1	0	4	5
##	[1339,]	10	0	0	0
##	[1340,]	4	0	4	2
##	[1341,]	10	0	0	0
##	[1342,]	10	0	0	0
##	[1343,]	0	0	4	6
##	[1344,]	10	0	0	0
##	[1345,]	0	0	4	6
##	[1346,]	1	0	4	5
##	[1347,]	1	0	4	5
##	[1348,]	8	0	2	0
##	[1349,]	7	0	3	0
##	[1350,]	8	0	2	0
##	[1351,]	10	0	0	0
##	[1352,]	8	0	2	0
π	[1002,]	J	U	_	J

```
## [1353,]
                            2
                                  0
                8
                      0
                                  0
## [1354,]
                7
                      0
                            3
                                  5
## [1355,]
## [1356,]
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                8
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                            2
                                  2
## [1357,]
                4
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## [1358,]
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                            4
                                  5
## [1359,]
                5
                      0
                            4
                                  1
## [1360,]
                                  0
               10
                      0
                            0
## [1361,]
                8
                      0
                            2
                                  0
                3
                      0
                            4
                                  3
## [1362,]
## [1363,]
                7
                      0
                            3
                                  0
                                  6
## [1364,]
                0
                      0
                            4
## [1365,]
                            0
                                  0
               10
                      0
## [1366,]
                      0
                            4
                                  0
## [1367,]
                8
                      0
                            2
                                  0
## [1368,]
                0
                      0
                            4
                                  6
## [1369,]
               10
                      0
                            0
                                  0
                                  5
## [1370,]
                1
                            4
## [1371,]
                9
                                  0
                      0
                            1
                            2
## [1372,]
                8
                      0
                                  0
## [1373,]
                1
                      0
                            4
                                  5
## [1374,]
               10
                      0
                            0
                                  0
## [1375,]
                      0
                                  5
                1
                            4
                7
## [1376,]
                      0
                            3
                                  0
                                  2
## [1377,]
                4
                      0
                            4
## [1378,]
               10
                      0
                            0
                                  0
## [1379,]
                0
                      0
                            4
                                  6
## [1380,]
                5
                      0
                            4
                                  1
                0
                                  6
## [1381,]
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                            4
## [1382,]
               10
                            0
                                  0
                      0
## [1383,]
                3
                      0
                            4
                                  3
## [1384,]
                8
                      0
                            2
                                  0
## [1385,]
                8
                            2
                                  0
                7
## [1386,]
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                            3
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## [1387,]
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                                  0
                                  3
## [1388,]
                3
                      0
                            4
## [1389,]
                            4
                                  6
## [1390,]
                4
                      0
                            4
                                  2
## [1391,]
                8
                      0
                            2
                                  0
## [1392,]
                                  0
                9
                      0
                            1
## [1393,]
                1
                      0
                            4
                                  5
## [1394,]
                0
                      0
                            4
                                  6
## [1395,]
                0
                      0
                            4
                                  6
## [1396,]
               10
                      0
                            0
                                  0
## [1397,]
                7
                      0
                            3
                                  0
## [1398,]
                                  6
                0
                      0
                            4
## [1399,]
               10
                      0
                            0
                                  0
##
   [1400,]
                                  6
##
## $prob
             [,1] [,2] [,3] [,4]
##
##
       [1,]
                         0.4 0.5
             0.1
              0.1
                         0.4
##
       [2,]
                      0
                               0.5
##
       [3,]
             0.0
                         0.4 0.6
```

```
[4,]
             0.9
                        0.1 0.0
##
                     0
##
       [5,]
             1.0
                     0
                        0.0
                             0.0
##
       [6,]
             1.0
                        0.0
                              0.0
##
      [7,]
             0.0
                        0.4
                     0
                              0.6
      [8,]
##
             0.0
                     0
                        0.4
                              0.6
                        0.2
##
      [9,]
             0.8
                     0
                              0.0
##
     [10,]
             0.1
                     0
                        0.4
                              0.5
     [11,]
##
             1.0
                        0.0
                              0.0
                     0
##
     [12,]
             1.0
                     0
                        0.0
                              0.0
##
     [13,]
             0.0
                     0
                        0.4
                              0.6
##
     [14,]
             0.3
                     0
                        0.4
                              0.3
     [15,]
                        0.1
##
             0.9
                     0
                              0.0
##
     [16,]
                        0.0
                              0.0
             1.0
                     0
##
     [17,]
             0.1
                        0.4
                              0.5
                     0
##
     [18,]
             0.0
                     0
                        0.4
                              0.6
##
     [19,]
             0.0
                     0
                        0.4
                              0.6
##
     [20,]
             0.0
                     0
                        0.4
                              0.6
     [21,]
##
             0.4
                     0
                        0.4
                             0.2
##
     [22,]
             0.0
                        0.4
                             0.6
                     0
     [23,]
##
             1.0
                     0
                        0.0
                             0.0
##
     [24,]
             0.9
                     0
                        0.1
                              0.0
##
     [25,]
             0.0
                     0
                        0.4
                              0.6
##
     [26,]
             0.0
                        0.4
                     0
                              0.6
##
     [27,]
             0.5
                     0
                        0.4
                              0.1
     [28,]
##
             0.1
                        0.4
                             0.5
                     0
##
     [29,]
             0.8
                     0
                        0.2
                              0.0
##
     [30,]
             0.8
                     0
                        0.2
                              0.0
##
     [31,]
             1.0
                     0
                        0.0
                              0.0
##
     [32,]
             1.0
                        0.0
                     0
                              0.0
##
     [33,]
             0.0
                        0.4
                     0
                              0.6
     [34,]
##
             1.0
                     0
                        0.0
                              0.0
##
     [35,]
             0.0
                     0
                        0.4
                             0.6
##
     [36,]
             0.5
                     0
                        0.4
                              0.1
##
     [37,]
             0.5
                        0.4
                              0.1
                     0
     [38,]
##
             0.9
                     0
                        0.1
                              0.0
##
     [39,]
             0.0
                     0
                        0.4
                              0.6
##
     [40,]
             0.1
                     0
                        0.4
                              0.5
##
     [41,]
             0.0
                     0
                        0.4
                              0.6
     [42,]
##
             0.8
                     0
                        0.2
                              0.0
##
     [43,]
                        0.0 0.0
             1.0
                     0
##
     [44,]
             1.0
                     0
                        0.0
                             0.0
             0.5
##
     [45,]
                     0
                        0.4
                             0.1
##
     [46,]
             0.0
                     0
                        0.4
                              0.6
##
     [47,]
             0.0
                     0
                        0.4
                              0.6
##
     [48,]
             0.0
                     0
                        0.4
                              0.6
##
     [49,]
             0.0
                        0.4
                              0.6
                     0
##
     [50,]
             1.0
                        0.0
                              0.0
                     0
##
     [51,]
             0.0
                        0.4
                              0.6
                     0
##
     [52,]
             0.0
                     0
                        0.4
                              0.6
##
     [53,]
                        0.0
             1.0
                     0
                              0.0
##
     [54,]
             0.0
                     0
                        0.4
                              0.6
##
     [55,]
             1.0
                        0.0
                             0.0
                     0
##
     [56,]
             0.8
                     0
                        0.2
                              0.0
##
     [57,]
             0.0
                        0.4 0.6
                     0
```

```
[58,]
                        0.2 0.0
##
             0.8
                     0
##
     [59,]
             0.0
                     0
                        0.4
                              0.6
     [60,]
                              0.5
##
             0.1
                        0.4
##
     [61,]
                        0.3
             0.7
                     0
                              0.0
##
     [62,]
             0.7
                     0
                        0.3
                              0.0
##
     [63,]
             1.0
                        0.0
                              0.0
                     0
##
      [64,]
             1.0
                     0
                        0.0
                              0.0
##
     [65,]
             0.0
                        0.4
                              0.6
                     0
##
      [66,]
             0.3
                     0
                        0.4
                              0.3
##
      [67,]
                        0.4
                              0.6
             0.0
                     0
##
      [68,]
             0.7
                     0
                        0.3
                              0.0
     [69,]
                        0.1
##
             0.9
                              0.0
                     0
##
     [70,]
                        0.0
             1.0
                     0
                              0.0
##
     [71,]
             0.8
                        0.2
                              0.0
                     0
##
     [72,]
             0.9
                     0
                        0.1
                              0.0
##
     [73,]
             0.8
                     0
                        0.2
                              0.0
##
     [74,]
             0.1
                     0
                        0.4
                              0.5
##
      [75,]
             0.9
                     0
                        0.1
                              0.0
##
     [76,]
             0.1
                        0.4
                              0.5
                     0
     [77,]
##
             1.0
                     0
                        0.0
                              0.0
##
     [78,]
             1.0
                     0
                        0.0
                              0.0
##
     [79,]
             0.8
                     0
                        0.2
                              0.0
##
     [80,]
                        0.4
             0.1
                     0
                              0.5
##
     [81,]
             0.0
                     0
                        0.4
                              0.6
##
     [82,]
                        0.3
                              0.0
             0.7
                     0
##
      [83,]
             0.4
                     0
                        0.4
                              0.2
##
     [84,]
             1.0
                     0
                        0.0
                              0.0
##
      [85,]
             0.0
                     0
                        0.4
                              0.6
##
                        0.4
      [86,]
             0.0
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                              0.6
##
      [87,]
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                     0
                              0.6
##
      [88,]
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                     0
                        0.3
                              0.0
##
      [89,]
             0.1
                     0
                        0.4
                              0.5
##
                              0.6
      [90,]
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##
     [91,]
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                        0.4
                              0.6
                     0
      [92,]
##
             0.0
                     0
                        0.4
                              0.6
##
     [93,]
             0.0
                     0
                        0.4
                              0.6
##
     [94,]
             0.0
                     0
                        0.4
                              0.6
##
     [95,]
             0.8
                     0
                        0.2
                              0.0
##
     [96,]
             0.0
                     0
                        0.4
                              0.6
##
                        0.0 0.0
     [97,]
             1.0
                     0
##
     [98,]
             0.4
                     0
                        0.4
                              0.2
##
     [99,]
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                     0
                        0.4
                              0.6
##
    [100,]
             1.0
                        0.0
                              0.0
                     0
##
    [101,]
                        0.1
                              0.0
             0.9
                     0
##
    [102,]
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                     0
                        0.1
                              0.0
    [103,]
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##
             1.0
                     0
                              0.0
##
    [104,]
                        0.4
                              0.6
             0.0
                     0
##
    [105,]
             1.0
                        0.0
                              0.0
                     0
##
    [106,]
             0.0
                     0
                        0.4
                              0.6
    [107,]
                        0.4
                              0.2
##
             0.4
                     0
##
    [108,]
             0.0
                     0
                        0.4
                              0.6
##
    [109,]
                        0.4
                              0.3
             0.3
##
    [110,]
             0.9
                     0
                        0.1
                              0.0
##
    [111,]
                        0.1 0.0
             0.9
```

```
[112,]
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##
             1.0
                     0
##
    [113,]
             0.0
                        0.4
                              0.6
                     0
##
    [114,]
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                         0.0
                              0.0
    [115,]
                        0.4
##
             0.0
                              0.6
                     0
##
    [116,]
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                     0
                        0.4
                              0.6
##
    [117,]
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                              0.0
                     0
##
    [118,]
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                         0.4
                              0.3
    [119,]
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                              0.6
##
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##
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                        0.4
                              0.1
##
                        0.3
                              0.0
    [121,]
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##
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                              0.5
##
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                     0
##
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                        0.4
                              0.6
##
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                              0.6
##
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                        0.4
                              0.2
##
    [127,]
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                        0.0
                              0.0
##
    [128,]
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                        0.4
                              0.5
             0.1
##
    [129,]
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                     0
                         0.4
                              0.6
##
    [130,]
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                              0.0
             0.8
                     0
##
    [131,]
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                     0
                        0.2
                              0.0
##
    [132,]
             1.0
                     0
                        0.0
                              0.0
##
    [133,]
             0.3
                     0
                         0.4
                              0.3
##
    [134,]
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                        0.4
                              0.6
                     0
##
    [135,]
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                        0.4
                              0.6
##
    [136,]
                        0.0
                              0.0
             1.0
                     0
##
    [137,]
             0.0
                     0
                        0.4
                              0.6
##
    [138,]
             0.0
                     0
                        0.4
                              0.6
##
    [139,]
                        0.4
                              0.5
             0.1
                     0
##
    [140,]
             0.4
                     0
                        0.4
                              0.2
##
    [141,]
             0.0
                     0
                        0.4
                              0.6
##
    [142,]
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                     0
                        0.4
                              0.6
##
    [143,]
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                     0
                        0.2
                              0.0
##
    [144,]
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                         0.0
                              0.0
##
    [145,]
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                              0.0
             1.0
                     0
##
    [146,]
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                     0
                         0.0
                              0.0
##
    [147,]
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                        0.4
                              0.5
                     0
##
    [148,]
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                     0
                         0.4
                              0.5
##
    [149,]
             0.4
                     0
                        0.4
                              0.2
##
    [150,]
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                     0
                        0.4
                              0.6
                              0.6
##
    [151,]
             0.0
                     0
                        0.4
##
    [152,]
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                        0.0
                              0.0
                     0
##
    [153,]
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                     0
                        0.0
                              0.0
##
    [154,]
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                              0.6
             0.0
                     0
##
                        0.4
    [155,]
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                     0
                              0.6
##
    [156,]
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                        0.4
                              0.6
             0.0
    [157,]
                        0.4
##
             0.1
                     0
                              0.5
                        0.4
                              0.5
##
    [158,]
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                     0
##
    [159,]
                        0.4
                              0.6
             0.0
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##
    [160,]
             0.0
                     0
                        0.4
                              0.6
##
    [161,]
             0.0
                     0
                        0.4
                              0.6
##
    [162,]
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                     0
                        0.0
                              0.0
##
    [163,]
             0.4
                        0.4
                              0.2
##
    [164,]
             0.0
                     0
                        0.4
                              0.6
                        0.0 0.0
##
    [165,]
             1.0
```

```
0.2
                              0.0
##
    [166,]
             0.8
                     0
             0.0
##
    [167,]
                        0.4
                              0.6
                     0
##
    [168,]
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                         0.0
                              0.0
    [169,]
                        0.4
##
             0.0
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##
    [170,]
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                     0
                        0.4
                              0.6
##
    [171,]
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                        0.2
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                     0
##
    [172,]
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                     0
                        0.4
                              0.6
    [173,]
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                              0.6
##
             0.0
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##
    [174,]
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                        0.2
                              0.0
##
                        0.2
                              0.0
    [175,]
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                     0
##
    [176,]
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                     0
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                              0.0
##
    [177,]
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                        0.4
                              0.6
                     0
##
    [178,]
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                     0
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                              0.5
##
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    [179,]
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                              0.0
##
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                     0
                        0.0
                              0.0
##
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                     0
                        0.2
                              0.0
##
    [182,]
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                        0.4
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             0.0
##
    [183,]
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                     0
                         0.0
                              0.0
##
    [184,]
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                        0.3
                              0.0
                     0
##
    [185,]
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                     0
                        0.0
                              0.0
##
    [186,]
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                     0
                        0.4
                              0.6
##
    [187,]
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                     0
                         0.0
                              0.0
##
    [188,]
             0.1
                        0.4
                              0.5
                     0
##
    [189,]
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                     0
                        0.4
                              0.5
##
    [190,]
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                        0.0
                              0.0
                     0
##
    [191,]
             0.0
                     0
                        0.4
                              0.6
##
    [192,]
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                     0
                        0.2
                              0.0
##
    [193,]
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                              0.5
             0.1
                     0
##
    [194,]
             0.0
                     0
                        0.4
                              0.6
    [195,]
##
             0.8
                     0
                        0.2
                              0.0
##
    [196,]
             1.0
                     0
                        0.0
                              0.0
##
    [197,]
             0.0
                     0
                        0.4
                              0.6
##
    [198,]
             1.0
                         0.0
                              0.0
##
    [199,]
             0.7
                        0.3
                              0.0
                     0
##
    [200,]
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                     0
                        0.4
                              0.3
##
    [201,]
             0.8
                        0.2
                              0.0
                     0
##
    [202,]
             0.0
                     0
                         0.4
                              0.6
##
    [203,]
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                     0
                        0.4
                              0.6
##
    [204,]
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                     0
                        0.4
                              0.6
                              0.0
##
    [205,]
             1.0
                     0
                        0.0
##
    [206,]
             1.0
                        0.0
                              0.0
                     0
##
    [207,]
             0.8
                     0
                        0.2
                              0.0
##
    [208,]
                        0.4
                              0.6
             0.0
                     0
##
    [209,]
                        0.0
                              0.0
             1.0
                     0
##
    [210,]
             0.8
                     0
                        0.2
                              0.0
    [211,]
                        0.4
##
             0.0
                     0
                              0.6
    [212,]
##
             1.0
                     0
                        0.0
                              0.0
##
    [213,]
                              0.0
             1.0
                        0.0
##
    [214,]
             0.0
                     0
                        0.4
                              0.6
##
    [215,]
             1.0
                     0
                        0.0
                              0.0
##
    [216,]
             0.8
                        0.2
                              0.0
                     0
##
    [217,]
             0.0
                        0.4
                              0.6
##
    [218,]
             0.8
                     0
                        0.2
                              0.0
                        0.4 0.6
##
    [219,]
             0.0
```

```
[220,]
                         0.0 0.0
##
             1.0
                     0
##
    [221,]
             0.0
                         0.4
                              0.6
                     0
##
    [222,]
             0.0
                         0.4
                              0.6
    [223,]
                         0.0
##
             1.0
                              0.0
                     0
##
    [224,]
             1.0
                     0
                         0.0
                              0.0
##
    [225,]
             0.8
                         0.2
                              0.0
                     0
##
    [226,]
             1.0
                     0
                         0.0
                              0.0
    [227,]
                         0.4
##
             0.0
                     0
                              0.6
##
    [228,]
             1.0
                     0
                         0.0
                              0.0
##
                         0.0
                              0.0
    [229,]
             1.0
                     0
##
    [230,]
             1.0
                     0
                         0.0
                              0.0
##
    [231,]
             0.0
                         0.4
                              0.6
                     0
##
    [232,]
             0.0
                     0
                         0.4
                              0.6
##
    [233,]
                         0.2
                              0.0
             0.8
                     0
##
    [234,]
             0.5
                     0
                         0.4
                              0.1
##
    [235,]
             1.0
                     0
                         0.0
                              0.0
##
    [236,]
                     0
                         0.2
                              0.0
             0.8
##
    [237,]
             1.0
                     0
                         0.0
                              0.0
                         0.4
##
    [238,]
                              0.6
             0.0
                     0
##
    [239,]
             0.0
                     0
                         0.4
                              0.6
##
    [240,]
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                     0
                         0.0
                              0.0
##
    [241,]
             0.5
                     0
                         0.4
                              0.1
##
    [242,]
             0.0
                         0.4
                              0.6
                     0
##
    [243,]
             1.0
                     0
                         0.0
                              0.0
##
    [244,]
                         0.0
                              0.0
             1.0
                     0
##
    [245,]
             0.0
                     0
                         0.4
                              0.6
##
    [246,]
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                     0
                         0.4
                              0.6
##
    [247,]
                         0.4
                              0.6
             0.0
                     0
##
    [248,]
             0.0
                     0
                         0.4
                              0.6
##
    [249,]
             0.1
                     0
                         0.4
                              0.5
##
    [250,]
             0.1
                     0
                         0.4
                              0.5
##
    [251,]
             0.1
                     0
                         0.4
                              0.5
##
    [252,]
             0.0
                         0.4
                              0.6
##
    [253,]
                         0.4
                              0.2
             0.4
                     0
##
    [254,]
             1.0
                     0
                         0.0
                              0.0
##
    [255,]
             0.0
                         0.4
                              0.6
                     0
##
    [256,]
             1.0
                     0
                         0.0
                              0.0
##
    [257,]
             1.0
                     0
                         0.0
                              0.0
##
    [258,]
             0.0
                     0
                         0.4
                              0.6
                              0.6
##
    [259,]
             0.0
                     0
                         0.4
##
    [260,]
             0.8
                         0.2
                              0.0
                     0
##
    [261,]
             1.0
                     0
                         0.0
                              0.0
    [262,]
                         0.4
                              0.6
##
             0.0
                     0
##
                         0.4
                              0.5
    [263,]
             0.1
                     0
##
    [264,]
                     0
                         0.4
                              0.6
             0.0
                         0.4
                              0.2
##
    [265,]
             0.4
                     0
    [266,]
                         0.4
                              0.6
##
             0.0
                     0
##
    [267,]
                         0.4
                              0.5
             0.1
                     0
##
    [268,]
             1.0
                     0
                         0.0
                              0.0
##
    [269,]
             0.1
                     0
                         0.4
                              0.5
##
    [270,]
             1.0
                         0.0
                              0.0
                     0
##
    [271,]
             1.0
                         0.0
                              0.0
##
    [272,]
             0.0
                     0
                         0.4
                              0.6
    [273,]
                         0.4 0.3
##
             0.3
```

```
##
    [274,]
             0.0
                     0
                        0.4 0.6
##
    [275,]
             0.2
                        0.4
                              0.4
                     0
##
    [276,]
             0.0
                         0.4
                              0.6
    [277,]
                        0.4
##
             0.0
                              0.6
                     0
##
    [278,]
             0.0
                     0
                        0.4
                              0.6
##
    [279,]
             0.5
                        0.4
                              0.1
                     0
##
    [280,]
             0.0
                     0
                        0.4
                              0.6
    [281,]
                        0.4
                              0.6
##
             0.0
                     0
##
    [282,]
             0.9
                     0
                        0.1
                              0.0
##
                        0.2
                              0.0
    [283,]
             0.8
                     0
##
    [284,]
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                     0
                        0.4
                              0.5
##
    [285,]
             0.0
                        0.4
                              0.6
                     0
##
    [286,]
             0.0
                     0
                        0.4
                              0.6
##
    [287,]
                        0.2
             0.8
                     0
                              0.0
##
    [288,]
             0.1
                     0
                        0.4
                              0.5
##
    [289,]
             0.0
                     0
                        0.4
                              0.6
##
    [290,]
             0.7
                     0
                        0.3
                              0.0
##
    [291,]
             0.0
                     0
                        0.4
                              0.6
##
    [292,]
                        0.4
                              0.2
             0.4
                     0
##
    [293,]
             1.0
                     0
                        0.0
                              0.0
##
    [294,]
             0.0
                     0
                        0.4
                              0.6
##
    [295,]
             1.0
                     0
                        0.0
                              0.0
##
    [296,]
             0.1
                        0.4
                              0.5
                     0
##
    [297,]
             0.3
                     0
                        0.4
                              0.3
##
    [298,]
                        0.2
                              0.0
             0.8
                     0
##
    [299,]
             1.0
                     0
                        0.0
                              0.0
##
    [300,]
             0.8
                     0
                        0.2
                              0.0
##
    [301,]
                        0.4
                              0.5
             0.1
                     0
##
    [302,]
             0.5
                     0
                        0.4
                              0.1
##
    [303,]
             1.0
                     0
                        0.0
                              0.0
##
    [304,]
             0.0
                     0
                        0.4
                              0.6
##
    [305,]
             0.0
                     0
                        0.4
                              0.6
##
    [306,]
             1.0
                        0.0
                              0.0
##
    [307,]
                        0.2
                              0.0
             0.8
                     0
##
    [308,]
             0.8
                     0
                        0.2
                              0.0
##
    [309,]
             0.0
                        0.4
                              0.6
                     0
##
    [310,]
             1.0
                         0.0
                              0.0
##
    [311,]
             1.0
                     0
                        0.0
                              0.0
##
    [312,]
             0.0
                     0
                        0.4
                              0.6
                              0.0
##
    [313,]
             1.0
                     0
                        0.0
##
    [314,]
             1.0
                        0.0
                              0.0
                     0
##
    [315,]
             0.0
                        0.4
                              0.6
                     0
    [316,]
                        0.0
                              0.0
##
             1.0
                     0
##
                        0.0
    [317,]
             1.0
                     0
                              0.0
##
    [318,]
                     0
                        0.4
                              0.5
             0.1
                        0.3
##
    [319,]
             0.7
                     0
                              0.0
    [320,]
##
             0.0
                     0
                        0.4
                              0.6
##
    [321,]
                        0.3
                              0.0
             0.7
                     0
##
    [322,]
             0.9
                     0
                        0.1
                              0.0
##
    [323,]
             0.1
                     0
                        0.4
                              0.5
##
    [324,]
                        0.4
                              0.3
             0.3
                     0
                        0.2
##
    [325,]
             0.8
                              0.0
             1.0
##
    [326,]
                     0
                        0.0
                              0.0
                        0.0 0.0
##
    [327,]
             1.0
```

```
##
    [328,]
             0.0
                     0
                         0.4 0.6
##
    [329,]
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                     0
                         0.0
                              0.0
##
    [330,]
             1.0
                         0.0
                              0.0
    [331,]
                         0.2
##
             0.8
                              0.0
                     0
##
    [332,]
             0.0
                     0
                         0.4
                              0.6
##
    [333,]
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                         0.4
                              0.6
                     0
##
    [334,]
             0.8
                     0
                         0.2
                              0.0
    [335,]
                         0.4
                              0.3
##
             0.3
                     0
##
    [336,]
             0.0
                     0
                         0.4
                              0.6
##
                         0.4
                              0.6
    [337,]
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                     0
##
    [338,]
             0.0
                     0
                         0.4
                              0.6
##
    [339,]
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                         0.0
                              0.0
                     0
##
    [340,]
             0.0
                     0
                         0.4
                              0.6
##
    [341,]
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             1.0
                     0
                              0.0
##
    [342,]
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                     0
                         0.4
                              0.6
##
    [343,]
             0.8
                     0
                         0.2
                              0.0
##
    [344,]
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                         0.0
                              0.0
             1.0
##
    [345,]
             0.0
                     0
                         0.4
                              0.6
                         0.4
##
    [346,]
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                     0
                              0.1
##
    [347,]
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                     0
                         0.0
                              0.0
##
    [348,]
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                     0
                         0.3
                              0.0
##
    [349,]
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                     0
                         0.0
                              0.0
##
    [350,]
             0.0
                         0.4
                              0.6
                     0
##
    [351,]
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                     0
                         0.3
                              0.0
##
                         0.4
                              0.5
    [352,]
             0.1
                     0
##
    [353,]
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                     0
                         0.4
                              0.6
##
    [354,]
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                     0
                         0.0
                              0.0
##
    [355,]
                         0.4
                              0.6
             0.0
                     0
##
    [356,]
             1.0
                     0
                         0.0
                              0.0
##
    [357,]
             1.0
                     0
                         0.0
                              0.0
##
    [358,]
             0.9
                     0
                         0.1
                              0.0
##
    [359,]
             0.1
                     0
                         0.4
                              0.5
##
    [360,]
             0.7
                         0.3
                              0.0
##
    [361,]
                         0.4
                              0.6
             0.0
                     0
##
    [362,]
             0.0
                     0
                         0.4
                              0.6
##
    [363,]
             0.5
                     0
                         0.4
                              0.1
##
    [364,]
             0.0
                         0.4
                              0.6
##
    [365,]
             0.8
                     0
                         0.2
                              0.0
##
    [366,]
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                     0
                         0.4
                              0.6
                              0.6
##
    [367,]
             0.0
                     0
                         0.4
##
    [368,]
             0.0
                         0.4
                              0.6
                     0
##
    [369,]
             0.0
                     0
                         0.4
                              0.6
    [370,]
                         0.1
##
             0.9
                     0
                              0.0
##
                         0.4
    [371,]
             0.0
                     0
                              0.6
##
    [372,]
             0.0
                     0
                         0.4
                              0.6
##
    [373,]
             0.0
                     0
                         0.4
                              0.6
    [374,]
                              0.5
##
             0.1
                     0
                         0.4
##
    [375,]
                         0.4
                              0.6
             0.0
                     0
##
    [376,]
             0.3
                     0
                         0.4
                              0.3
##
    [377,]
             0.1
                     0
                         0.4
                              0.5
##
    [378,]
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                     0
                         0.4
                              0.6
##
    [379,]
             0.0
                         0.4
                              0.6
##
    [380,]
             1.0
                     0
                         0.0
                              0.0
    [381,]
                         0.4 0.6
##
             0.0
```

```
[382,]
                        0.2 0.0
##
             0.8
                     0
##
    [383,]
             1.0
                        0.0
                              0.0
                     0
##
    [384,]
             0.0
                        0.4
                              0.6
    [385,]
                        0.2
##
             0.8
                              0.0
                     0
##
    [386,]
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                     0
                        0.2
                              0.0
##
    [387,]
             0.0
                        0.4
                              0.6
                     0
##
    [388,]
             1.0
                     0
                        0.0
                              0.0
    [389,]
                        0.1
##
             0.9
                     0
                              0.0
##
    [390,]
             1.0
                     0
                        0.0
                              0.0
##
                        0.0
                              0.0
    [391,]
             1.0
                     0
##
    [392,]
             0.1
                     0
                        0.4
                              0.5
##
    [393,]
             0.0
                        0.4
                              0.6
                     0
##
    [394,]
             1.0
                     0
                        0.0
                              0.0
##
    [395,]
                        0.2
             0.8
                     0
                              0.0
##
    [396,]
             0.7
                     0
                        0.3
                              0.0
##
    [397,]
             0.0
                     0
                        0.4
                              0.6
##
    [398,]
             1.0
                     0
                        0.0
                              0.0
##
    [399,]
             1.0
                     0
                         0.0
                              0.0
                        0.4
##
    [400,]
             0.0
                              0.6
                     0
##
    [401,]
             0.0
                     0
                        0.4
                              0.6
##
    [402,]
             0.0
                     0
                        0.4
                              0.6
##
    [403,]
             0.0
                     0
                         0.4
                              0.6
##
    [404,]
             1.0
                        0.0
                              0.0
                     0
##
    [405,]
             0.0
                     0
                        0.4
                              0.6
##
    [406,]
                        0.4
                              0.6
             0.0
                     0
##
    [407,]
             1.0
                     0
                        0.0
                              0.0
##
    [408,]
             1.0
                     0
                        0.0
                              0.0
##
    [409,]
                        0.4
                              0.6
             0.0
                     0
##
    [410,]
             0.0
                     0
                        0.4
                              0.6
##
    [411,]
             0.0
                     0
                        0.4
                              0.6
##
    [412,]
             1.0
                     0
                        0.0
                              0.0
##
    [413,]
             0.0
                     0
                        0.4
                              0.6
##
    [414,]
             0.9
                         0.1
                              0.0
##
    [415,]
                        0.0
                              0.0
             1.0
                     0
##
    [416,]
             0.0
                     0
                         0.4
                              0.6
##
    [417,]
             0.0
                        0.4
                              0.6
                     0
##
    [418,]
             1.0
                         0.0
                              0.0
##
    [419,]
             0.0
                     0
                        0.4
                              0.6
##
    [420,]
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                     0
                        0.0
                              0.0
                              0.0
##
    [421,]
             1.0
                     0
                        0.0
##
    [422,]
             1.0
                        0.0
                              0.0
                     0
##
    [423,]
             0.0
                     0
                        0.4
                              0.6
    [424,]
                        0.0
                              0.0
##
             1.0
                     0
##
                        0.2
                              0.0
    [425,]
             0.8
                     0
##
    [426,]
             1.0
                     0
                        0.0
                              0.0
    [427,]
##
             0.1
                     0
                        0.4
                              0.5
    [428,]
                              0.0
##
             1.0
                     0
                        0.0
##
    [429,]
                              0.6
             0.0
                     0
                        0.4
##
    [430,]
             0.4
                     0
                        0.4
                              0.2
##
    [431,]
             0.0
                     0
                        0.4
                              0.6
##
    [432,]
             1.0
                        0.0
                              0.0
                     0
##
    [433,]
             0.0
                        0.4
                              0.6
##
    [434,]
             0.0
                     0
                        0.4
                              0.6
    [435,]
                        0.2 0.0
##
             0.8
```

```
##
    [436,]
             0.0
                     0
                        0.4
                              0.6
##
    [437,]
             1.0
                        0.0
                              0.0
                     0
##
    [438,]
             0.9
                         0.1
                              0.0
    [439,]
                        0.4
##
             0.3
                              0.3
                     0
##
    [440,]
             1.0
                     0
                        0.0
                              0.0
##
    [441,]
             1.0
                        0.0
                              0.0
                     0
##
    [442,]
             1.0
                     0
                        0.0
                              0.0
    [443,]
                        0.2
                              0.0
##
             0.8
                     0
##
    [444,]
             0.0
                     0
                        0.4
                              0.6
##
                        0.4
                              0.6
    [445,]
             0.0
                     0
##
    [446,]
             0.9
                     0
                        0.1
                              0.0
##
    [447,]
             0.0
                        0.4
                              0.6
                     0
##
    [448,]
             0.4
                     0
                        0.4
                              0.2
##
    [449,]
             1.0
                        0.0
                              0.0
                     0
##
    [450,]
             0.7
                     0
                        0.3
                              0.0
##
    [451,]
             0.0
                     0
                        0.4
                              0.6
##
    [452,]
             0.7
                     0
                        0.3
                              0.0
##
    [453,]
             0.0
                     0
                         0.4
                              0.6
                        0.4
##
    [454,]
             0.4
                              0.2
                     0
##
    [455,]
             0.1
                     0
                        0.4
                              0.5
##
    [456,]
             1.0
                     0
                        0.0
                              0.0
##
    [457,]
             0.0
                     0
                         0.4
                              0.6
##
    [458,]
             0.8
                        0.2
                              0.0
                     0
##
    [459,]
             0.8
                     0
                        0.2
                              0.0
##
    [460,]
                              0.0
             1.0
                     0
                        0.0
##
    [461,]
             1.0
                     0
                        0.0
                              0.0
##
    [462,]
             0.8
                     0
                        0.2
                              0.0
##
    [463,]
                        0.0
                              0.0
             1.0
                     0
##
    [464,]
             1.0
                     0
                        0.0
                              0.0
    [465,]
##
             1.0
                     0
                        0.0
                              0.0
##
    [466,]
             0.0
                     0
                        0.4
                              0.6
##
    [467,]
             0.0
                     0
                        0.4
                              0.6
##
    [468,]
             0.8
                         0.2
                              0.0
##
    [469,]
                        0.0
                              0.0
             1.0
                     0
##
    [470,]
             0.9
                     0
                         0.1
                              0.0
##
    [471,]
             1.0
                        0.0
                              0.0
                     0
##
    [472,]
             0.0
                     0
                         0.4
                              0.6
##
    [473,]
             0.0
                     0
                        0.4
                              0.6
##
    [474,]
             0.1
                     0
                        0.4
                              0.5
                              0.6
##
    [475,]
             0.0
                     0
                        0.4
##
    [476,]
             0.1
                         0.4
                              0.5
                     0
##
    [477,]
             0.5
                     0
                        0.4
                              0.1
    [478,]
                        0.0
                              0.0
##
             1.0
                     0
##
                        0.0
    [479,]
             1.0
                     0
                              0.0
##
    [480,]
             0.0
                     0
                        0.4
                              0.6
##
    [481,]
             0.1
                     0
                        0.4
                              0.5
    [482,]
                              0.0
##
             1.0
                     0
                        0.0
##
    [483,]
                              0.6
             0.0
                     0
                        0.4
##
    [484,]
             0.4
                     0
                        0.4
                              0.2
##
    [485,]
             1.0
                     0
                        0.0
                              0.0
##
    [486,]
             0.0
                        0.4
                              0.6
                     0
                        0.0
##
    [487,]
             1.0
                              0.0
##
    [488,]
             0.0
                     0
                        0.4
                              0.6
    [489,]
                        0.4 0.6
##
             0.0
```

```
0.4
                              0.6
##
    [490,]
             0.0
                     0
##
    [491,]
             1.0
                         0.0
                              0.0
                     0
##
    [492,]
             0.0
                         0.4
                              0.6
    [493,]
                         0.0
##
             1.0
                              0.0
                     0
##
    [494,]
             0.9
                     0
                         0.1
                              0.0
##
    [495,]
             0.0
                         0.4
                              0.6
                     0
##
    [496,]
             1.0
                     0
                         0.0
                              0.0
    [497,]
                         0.4
                              0.5
##
             0.1
                     0
##
    [498,]
             0.0
                     0
                         0.4
                              0.6
##
                         0.0
                              0.0
    [499,]
             1.0
                     0
##
    [500,]
             0.0
                     0
                         0.4
                              0.6
##
    [501,]
             0.0
                         0.4
                              0.6
                     0
##
    [502,]
             1.0
                     0
                         0.0
                              0.0
##
    [503,]
                         0.3
             0.7
                     0
                              0.0
##
    [504,]
             1.0
                     0
                         0.0
                              0.0
##
    [505,]
             0.7
                     0
                         0.3
                              0.0
##
    [506,]
             1.0
                     0
                         0.0
                              0.0
##
    [507,]
             1.0
                     0
                         0.0
                              0.0
                         0.4
##
    [508,]
             0.0
                              0.6
                     0
##
    [509,]
             0.1
                     0
                         0.4
                              0.5
##
    [510,]
             0.0
                     0
                         0.4
                              0.6
##
    [511,]
             0.0
                     0
                         0.4
                              0.6
##
    [512,]
             0.1
                         0.4
                              0.5
                     0
##
    [513,]
             0.4
                     0
                         0.4
                              0.2
##
    [514,]
                         0.4
                              0.6
             0.0
                     0
    [515,]
##
             0.0
                     0
                         0.4
                              0.6
##
    [516,]
             1.0
                     0
                         0.0
                              0.0
##
    [517,]
                         0.4
                              0.6
             0.0
                     0
##
    [518,]
             0.0
                     0
                         0.4
                              0.6
##
    [519,]
             1.0
                     0
                         0.0
                              0.0
##
    [520,]
             0.4
                     0
                         0.4
                              0.2
##
    [521,]
             1.0
                     0
                         0.0
                              0.0
##
    [522,]
             1.0
                         0.0
                              0.0
                         0.4
##
    [523,]
                              0.6
             0.0
                     0
##
    [524,]
             1.0
                     0
                         0.0
                              0.0
##
    [525,]
             0.0
                         0.4
                              0.6
                     0
##
    [526,]
             1.0
                     0
                         0.0
                              0.0
##
    [527,]
             1.0
                     0
                         0.0
                              0.0
##
    [528,]
             1.0
                     0
                         0.0
                              0.0
                              0.6
##
    [529,]
             0.0
                     0
                         0.4
##
    [530,]
             0.9
                         0.1
                              0.0
                     0
##
    [531,]
             0.7
                     0
                         0.3
                              0.0
##
    [532,]
                         0.4
                              0.6
             0.0
                     0
##
                         0.4
    [533,]
             0.5
                     0
                              0.1
##
    [534,]
                     0
                         0.4
                              0.6
             0.0
##
    [535,]
             0.1
                     0
                         0.4
                              0.5
    [536,]
##
             1.0
                     0
                         0.0
                              0.0
##
                         0.0
                              0.0
    [537,]
             1.0
                     0
##
    [538,]
             0.8
                     0
                         0.2
                              0.0
##
    [539,]
             0.0
                     0
                         0.4
                              0.6
##
    [540,]
                     0
                         0.4
                              0.5
             0.1
                         0.0
##
    [541,]
             1.0
                              0.0
##
    [542,]
             0.0
                     0
                         0.4
                              0.6
                         0.4 0.5
##
    [543,]
             0.1
```

```
[544,]
                         0.0 0.0
##
             1.0
                     0
##
    [545,]
             0.4
                     0
                         0.4
                              0.2
##
    [546,]
             1.0
                         0.0
                              0.0
    [547,]
                         0.4
##
             0.0
                              0.6
                     0
##
    [548,]
             0.0
                     0
                         0.4
                              0.6
##
    [549,]
             0.1
                     0
                         0.4
                              0.5
##
    [550,]
             0.0
                     0
                         0.4
                              0.6
    [551,]
                         0.4
                              0.6
##
             0.0
                     0
##
    [552,]
             0.8
                     0
                         0.2
                              0.0
##
                         0.0
                              0.0
    [553,]
             1.0
                     0
    [554,]
##
             0.0
                     0
                         0.4
                              0.6
##
    [555,]
             0.8
                         0.2
                              0.0
                     0
##
    [556,]
             1.0
                     0
                         0.0
                              0.0
##
    [557,]
             0.0
                     0
                         0.4
                              0.6
##
    [558,]
             0.7
                     0
                         0.3
                              0.0
##
    [559,]
             0.9
                     0
                         0.1
                              0.0
##
    [560,]
             0.0
                     0
                         0.4
                              0.6
##
    [561,]
             0.0
                     0
                         0.4
                              0.6
                         0.4
##
    [562,]
                              0.6
             0.0
                     0
##
    [563,]
             0.0
                     0
                         0.4
                              0.6
##
    [564,]
             1.0
                     0
                         0.0
                              0.0
##
    [565,]
             1.0
                     0
                         0.0
                              0.0
##
    [566,]
             0.8
                         0.2
                              0.0
                     0
##
    [567,]
             1.0
                     0
                         0.0
                              0.0
##
                              0.6
    [568,]
             0.0
                     0
                         0.4
    [569,]
##
             0.0
                     0
                         0.4
                              0.6
##
    [570,]
             0.9
                     0
                         0.1
                              0.0
##
    [571,]
                         0.0
                              0.0
             1.0
                     0
##
    [572,]
             0.0
                     0
                         0.4
                              0.6
##
    [573,]
             0.0
                     0
                         0.4
                              0.6
##
    [574,]
             0.9
                     0
                         0.1
                              0.0
##
    [575,]
             0.1
                     0
                         0.4
                              0.5
##
    [576,]
             0.0
                         0.4
                              0.6
##
    [577,]
                         0.4
                              0.5
             0.1
                     0
##
    [578,]
             0.0
                     0
                         0.4
                              0.6
##
    [579,]
             0.0
                     0
                         0.4
                              0.6
##
    [580,]
             0.1
                         0.4
                              0.5
##
    [581,]
             0.0
                     0
                         0.4
                              0.6
##
    [582,]
             0.0
                     0
                         0.4
                              0.6
                              0.6
##
    [583,]
             0.0
                     0
                         0.4
##
    [584,]
             0.0
                         0.4
                              0.6
                     0
##
    [585,]
             0.0
                     0
                         0.4
                              0.6
##
    [586,]
                         0.4
                              0.6
             0.0
                     0
##
                         0.4
                              0.5
    [587,]
             0.1
                     0
##
    [588,]
             0.0
                     0
                         0.4
                              0.6
                         0.4
                              0.2
##
    [589,]
             0.4
                     0
    [590,]
                              0.6
##
             0.0
                     0
                         0.4
##
    [591,]
                         0.0
                              0.0
             1.0
                     0
##
    [592,]
             1.0
                     0
                         0.0
                              0.0
##
    [593,]
             0.0
                     0
                         0.4
                              0.6
##
    [594,]
             1.0
                         0.0
                              0.0
                     0
##
    [595,]
             1.0
                         0.0
                              0.0
##
    [596,]
             0.0
                     0
                         0.4
                              0.6
    [597,]
                         0.3 0.0
##
             0.7
```

```
[598,]
                        0.0 0.0
##
             1.0
                     0
##
    [599,]
             0.3
                     0
                        0.4
                              0.3
##
    [600,]
             0.9
                         0.1
                              0.0
    [601,]
                        0.4
##
             0.0
                     0
                              0.6
##
    [602,]
             0.3
                     0
                        0.4
                              0.3
##
    [603,]
             0.9
                        0.1
                              0.0
                     0
##
    [604,]
             0.0
                     0
                        0.4
                              0.6
    [605,]
                        0.4
                              0.1
##
             0.5
                     0
##
    [606,]
             0.8
                     0
                        0.2
                              0.0
##
                        0.4
                              0.6
    [607,]
             0.0
                     0
##
    [608,]
             1.0
                     0
                        0.0
                              0.0
##
    [609,]
             0.1
                        0.4
                              0.5
                     0
##
    [610,]
             0.0
                     0
                        0.4
                              0.6
##
    [611,]
                        0.3
                              0.0
             0.7
                     0
##
    [612,]
             0.0
                     0
                        0.4
                              0.6
##
    [613,]
             0.0
                     0
                        0.4
                              0.6
##
    [614,]
             0.0
                     0
                        0.4
                              0.6
##
    [615,]
             0.3
                     0
                         0.4
                              0.3
##
    [616,]
             1.0
                        0.0
                              0.0
                     0
##
    [617,]
             1.0
                     0
                        0.0
                              0.0
##
    [618,]
             1.0
                     0
                        0.0
                              0.0
##
    [619,]
             1.0
                     0
                         0.0
                              0.0
##
    [620,]
             0.1
                        0.4
                              0.5
                     0
##
    [621,]
             0.0
                     0
                        0.4
                              0.6
##
    [622,]
                        0.4
                              0.5
             0.1
                     0
##
    [623,]
             0.0
                     0
                        0.4
                              0.6
##
    [624,]
             0.9
                     0
                        0.1
                              0.0
##
    [625,]
             0.0
                        0.4
                              0.6
                     0
                        0.4
##
    [626,]
             0.0
                     0
                              0.6
    [627,]
##
             1.0
                     0
                        0.0
                              0.0
##
    [628,]
             0.8
                     0
                        0.2
                              0.0
##
    [629,]
             0.7
                     0
                        0.3
                              0.0
##
    [630,]
             0.0
                         0.4
                              0.6
##
    [631,]
                        0.4
                              0.6
             0.0
                     0
##
    [632,]
             0.9
                     0
                         0.1
                              0.0
##
    [633,]
             0.0
                        0.4
                              0.6
                     0
##
    [634,]
             0.7
                         0.3
                              0.0
##
    [635,]
             1.0
                     0
                        0.0
                              0.0
##
    [636,]
             0.0
                     0
                        0.4
                              0.6
                              0.0
##
    [637,]
             0.8
                     0
                        0.2
##
    [638,]
             0.0
                        0.4
                              0.6
                     0
##
    [639,]
             1.0
                     0
                        0.0
                              0.0
##
    [640,]
                        0.4
                              0.6
             0.0
                     0
##
                        0.0
                              0.0
    [641,]
             1.0
                     0
##
    [642,]
             1.0
                     0
                        0.0
                              0.0
    [643,]
                        0.2
##
             0.8
                     0
                              0.0
    [644,]
                              0.0
##
             1.0
                     0
                        0.0
##
    [645,]
                              0.6
             0.0
                     0
                        0.4
##
    [646,]
             0.0
                     0
                        0.4
                              0.6
    [647,]
##
             1.0
                     0
                        0.0
                              0.0
##
    [648,]
             0.9
                     0
                        0.1
                              0.0
                        0.4
##
    [649,]
             0.0
                              0.6
             0.1
##
    [650,]
                     0
                        0.4
                              0.5
    [651,]
                        0.4 0.1
##
             0.5
```

```
[652,]
                         0.3 0.0
##
             0.7
                     0
##
    [653,]
             0.0
                         0.4
                              0.6
                     0
##
    [654,]
             1.0
                         0.0
                              0.0
    [655,]
                         0.4
##
             0.0
                              0.6
                     0
##
    [656,]
             0.1
                     0
                         0.4
                              0.5
##
    [657,]
             0.0
                         0.4
                              0.6
                     0
##
    [658,]
             0.0
                     0
                         0.4
                               0.6
    [659,]
                         0.4
                              0.6
##
             0.0
                     0
##
    [660,]
             0.0
                     0
                         0.4
                              0.6
##
                         0.4
                              0.5
    [661,]
             0.1
                     0
##
    [662,]
             0.0
                     0
                         0.4
                              0.6
##
    [663,]
             1.0
                         0.0
                              0.0
                     0
##
    [664,]
             0.8
                     0
                         0.2
                              0.0
##
    [665,]
                         0.0
                              0.0
             1.0
                     0
##
    [666,]
             0.0
                     0
                         0.4
                               0.6
##
    [667,]
             1.0
                     0
                         0.0
                              0.0
##
    [668,]
             0.4
                     0
                         0.4
                              0.2
##
    [669,]
             0.8
                     0
                         0.2
                              0.0
##
    [670,]
             0.9
                         0.1
                              0.0
                     0
##
    [671,]
             1.0
                     0
                         0.0
                              0.0
##
    [672,]
             0.8
                     0
                         0.2
                              0.0
##
    [673,]
             0.0
                     0
                         0.4
                               0.6
    [674,]
##
             0.0
                         0.4
                              0.6
                     0
##
    [675,]
             1.0
                     0
                         0.0
                              0.0
##
    [676,]
                         0.4
                              0.6
             0.0
                     0
##
    [677,]
             0.1
                     0
                         0.4
                              0.5
##
    [678,]
             0.0
                     0
                         0.4
                              0.6
##
    [679,]
             0.8
                         0.2
                              0.0
                     0
##
    [680,]
             1.0
                     0
                         0.0
                              0.0
##
    [681,]
             0.8
                     0
                         0.2
                              0.0
##
    [682,]
             0.9
                     0
                         0.1
                               0.0
##
    [683,]
             1.0
                     0
                         0.0
                              0.0
##
    [684,]
             0.0
                         0.4
                              0.6
##
    [685,]
                         0.0
                              0.0
             1.0
                     0
##
    [686,]
             1.0
                     0
                         0.0
                              0.0
##
    [687,]
             0.0
                         0.4
                              0.6
                     0
##
    [688,]
             0.9
                     0
                         0.1
                               0.0
##
    [689,]
             1.0
                     0
                         0.0
                              0.0
##
    [690,]
             0.0
                     0
                         0.4
                              0.6
                              0.6
##
    [691,]
             0.0
                     0
                         0.4
##
    [692,]
             1.0
                         0.0
                              0.0
                     0
##
    [693,]
             1.0
                     0
                         0.0
                              0.0
##
    [694,]
                         0.0
                              0.0
             1.0
                     0
##
    [695,]
                         0.4
             0.0
                     0
                              0.6
##
    [696,]
             0.0
                     0
                         0.4
                               0.6
    [697,]
                         0.3
##
             0.7
                     0
                              0.0
    [698,]
                         0.2
                              0.0
##
             0.8
                     0
##
    [699,]
             0.8
                         0.2
                              0.0
                     0
##
    [700,]
             0.9
                     0
                         0.1
                              0.0
##
    [701,]
             1.0
                     0
                         0.0
                              0.0
##
    [702,]
             1.0
                         0.0
                              0.0
                     0
##
    [703,]
             0.0
                         0.4
                              0.6
##
    [704,]
             0.0
                     0
                         0.4
                               0.6
##
    [705,]
                         0.4 0.6
             0.0
```

```
[706,]
                        0.4 0.6
##
             0.0
                     0
##
    [707,]
             0.8
                        0.2
                              0.0
                     0
##
    [708,]
             1.0
                         0.0
                              0.0
    [709,]
                        0.0
##
             1.0
                              0.0
                     0
##
    [710,]
             0.1
                     0
                        0.4
                              0.5
##
    [711,]
             0.1
                        0.4
                              0.5
                     0
##
    [712,]
             1.0
                     0
                        0.0
                              0.0
    [713,]
                        0.0
                              0.0
##
             1.0
                     0
##
    [714,]
             0.8
                     0
                        0.2
                              0.0
##
                        0.0
                              0.0
    [715,]
             1.0
                     0
##
    [716,]
             0.9
                     0
                        0.1
                              0.0
##
    [717,]
             0.0
                        0.4
                              0.6
                     0
    [718,]
##
             0.8
                     0
                        0.2
                              0.0
##
    [719,]
                        0.0
             1.0
                     0
                              0.0
##
    [720,]
             1.0
                     0
                        0.0
                              0.0
##
    [721,]
             1.0
                     0
                        0.0
                              0.0
##
    [722,]
             0.8
                     0
                        0.2
                              0.0
##
    [723,]
             0.1
                     0
                        0.4
                              0.5
##
    [724,]
             0.4
                        0.4
                              0.2
                     0
##
    [725,]
             0.0
                     0
                        0.4
                              0.6
##
    [726,]
             1.0
                     0
                        0.0
                              0.0
##
    [727,]
             1.0
                     0
                         0.0
                              0.0
##
    [728,]
             0.0
                        0.4
                              0.6
                     0
##
    [729,]
             0.9
                     0
                        0.1
                              0.0
##
    [730,]
             1.0
                        0.0
                              0.0
                     0
##
    [731,]
             0.1
                     0
                        0.4
                              0.5
##
    [732,]
             0.7
                     0
                        0.3
                              0.0
##
    [733,]
                        0.0
                              0.0
             1.0
                     0
##
    [734,]
             0.0
                     0
                        0.4
                              0.6
    [735,]
##
             0.0
                     0
                        0.4
                              0.6
##
    [736,]
             0.0
                     0
                        0.4
                              0.6
##
    [737,]
             0.8
                     0
                        0.2
                              0.0
##
    [738,]
             0.1
                        0.4
                              0.5
##
    [739,]
                        0.1
                              0.0
             0.9
                     0
##
    [740,]
             1.0
                     0
                        0.0
                              0.0
##
    [741,]
             0.4
                     0
                        0.4
                              0.2
##
    [742,]
             0.1
                        0.4
                              0.5
##
    [743,]
             0.9
                     0
                        0.1
                              0.0
##
    [744,]
             0.0
                     0
                        0.4
                              0.6
                              0.0
##
    [745,]
             1.0
                     0
                        0.0
##
    [746,]
             0.0
                        0.4
                              0.6
                     0
##
    [747,]
             1.0
                     0
                        0.0
                              0.0
##
    [748,]
                        0.0
                              0.0
             1.0
                     0
##
                        0.0
    [749,]
             1.0
                     0
                              0.0
##
    [750,]
             1.0
                        0.0
                              0.0
                     0
    [751,]
                        0.4
##
             0.0
                     0
                              0.6
##
    [752,]
             1.0
                     0
                        0.0
                              0.0
##
                              0.5
    [753,]
             0.1
                     0
                        0.4
##
    [754,]
             1.0
                     0
                        0.0
                              0.0
##
    [755,]
             1.0
                     0
                        0.0
                              0.0
##
    [756,]
             0.0
                        0.4
                              0.6
                     0
                        0.2
##
    [757,]
             0.8
                              0.0
##
    [758,]
             0.8
                     0
                        0.2
                              0.0
    [759,]
                        0.4 0.2
##
             0.4
```

```
[760,]
                        0.4 0.5
##
             0.1
                     0
##
    [761,]
             0.1
                     0
                        0.4
                              0.5
##
    [762,]
             0.8
                        0.2
                              0.0
                        0.0
##
    [763,]
             1.0
                     0
                              0.0
##
    [764,]
             0.4
                     0
                        0.4
                              0.2
##
    [765,]
             0.4
                        0.4
                              0.2
                     0
##
    [766,]
             1.0
                     0
                        0.0
                              0.0
    [767,]
                        0.0
                              0.0
##
             1.0
                     0
##
    [768,]
             0.8
                     0
                        0.2
                              0.0
##
                        0.4
                              0.5
    [769,]
             0.1
                     0
##
    [770,]
             1.0
                     0
                        0.0
                              0.0
##
    [771,]
             1.0
                        0.0
                              0.0
                     0
    [772,]
##
             0.0
                     0
                        0.4
                              0.6
##
    [773,]
                        0.2
                              0.0
             0.8
                     0
##
    [774,]
             1.0
                     0
                        0.0
                              0.0
##
    [775,]
             0.0
                     0
                        0.4
                              0.6
##
    [776,]
                     0
                        0.4
                              0.6
             0.0
##
    [777,]
             0.0
                     0
                        0.4
                              0.6
##
    [778,]
                        0.4
                              0.6
             0.0
                     0
##
    [779,]
             0.0
                     0
                        0.4
                              0.6
##
    [780,]
             0.0
                     0
                        0.4
                              0.6
##
    [781,]
             1.0
                     0
                        0.0
                              0.0
                        0.4
##
    [782,]
             0.1
                              0.5
                     0
##
    [783,]
             0.1
                     0
                        0.4
                              0.5
##
    [784,]
                        0.4
                              0.6
             0.0
                     0
    [785,]
##
             0.0
                     0
                        0.4
                              0.6
##
    [786,]
             0.1
                     0
                        0.4
                              0.5
##
    [787,]
             0.5
                        0.4
                              0.1
                     0
                        0.4
##
    [788,]
             0.4
                     0
                              0.2
    [789,]
##
             1.0
                     0
                        0.0
                              0.0
##
    [790,]
             0.1
                     0
                        0.4
                              0.5
##
    [791,]
             1.0
                     0
                        0.0
                              0.0
##
    [792,]
             0.5
                        0.4
                              0.1
##
    [793,]
                        0.4
                              0.2
             0.4
                     0
##
    [794,]
             1.0
                     0
                        0.0
                              0.0
##
    [795,]
             0.0
                        0.4
                              0.6
                     0
##
    [796,]
             1.0
                     0
                        0.0
                              0.0
##
    [797,]
             0.0
                     0
                        0.4
                              0.6
##
    [798,]
             0.1
                     0
                        0.4
                              0.5
                              0.6
##
    [799,]
             0.0
                     0
                        0.4
##
    [800,]
             0.5
                        0.4
                              0.1
                     0
##
    [801,]
             0.3
                     0
                        0.4
                              0.3
##
    [802,]
                        0.4
                              0.5
             0.1
                     0
##
                        0.2
                              0.0
    [803,]
             0.8
                     0
##
    [804,]
                     0
                        0.1
                              0.0
             0.9
                        0.3
##
    [805,]
             0.7
                     0
                              0.0
    [806,]
                        0.2
                              0.0
##
             0.8
                     0
##
    [807,]
                        0.4
                              0.6
             0.0
                     0
##
    [808,]
             0.9
                     0
                        0.1
                              0.0
##
    [809,]
             0.0
                     0
                        0.4
                              0.6
##
    [810,]
             1.0
                     0
                        0.0
                              0.0
##
    [811,]
             0.4
                        0.4
                              0.2
##
    [812,]
             1.0
                     0
                        0.0
                              0.0
    [813,]
                        0.4 0.5
##
             0.1
```

```
[814,]
                        0.4 0.6
##
             0.0
                     0
##
    [815,]
             0.2
                     0
                        0.4
                              0.4
##
    [816,]
             0.8
                        0.2
                              0.0
    [817,]
                        0.4
##
             0.0
                              0.6
                     0
##
    [818,]
             1.0
                     0
                        0.0
                              0.0
##
    [819,]
             0.9
                        0.1
                              0.0
                     0
##
    [820,]
             0.0
                     0
                        0.4
                              0.6
    [821,]
                        0.0
                              0.0
##
             1.0
                     0
##
    [822,]
             0.0
                     0
                        0.4
                              0.6
##
                        0.4
                              0.5
    [823,]
             0.1
                     0
##
    [824,]
             0.0
                     0
                        0.4
                              0.6
##
    [825,]
             0.0
                        0.4
                              0.6
                     0
    [826,]
##
             0.0
                     0
                        0.4
                              0.6
##
    [827,]
                        0.4
             0.0
                     0
                              0.6
##
    [828,]
             1.0
                     0
                        0.0
                              0.0
##
    [829,]
             0.0
                     0
                        0.4
                              0.6
##
    [830,]
                     0
                        0.0
                              0.0
             1.0
##
    [831,]
             1.0
                     0
                        0.0
                              0.0
##
    [832,]
                        0.0
                              0.0
             1.0
                     0
##
    [833,]
             0.5
                     0
                        0.4
                              0.1
##
    [834,]
             0.0
                     0
                        0.4
                              0.6
##
    [835,]
             1.0
                     0
                        0.0
                              0.0
##
    [836,]
             0.0
                        0.4
                              0.6
                     0
##
    [837,]
             1.0
                     0
                        0.0
                              0.0
##
    [838,]
                              0.6
             0.0
                     0
                        0.4
##
    [839,]
             1.0
                     0
                        0.0
                              0.0
##
    [840,]
             0.9
                     0
                        0.1
                              0.0
##
    [841,]
                        0.4
                              0.2
             0.4
                     0
##
    [842,]
             0.1
                     0
                        0.4
                              0.5
##
    [843,]
             0.8
                     0
                        0.2
                              0.0
##
    [844,]
             0.0
                     0
                        0.4
                              0.6
##
    [845,]
             1.0
                     0
                        0.0
                              0.0
##
    [846,]
             0.1
                     0
                        0.4
                              0.5
##
    [847,]
                        0.2
                              0.0
             0.8
                     0
##
    [848,]
             0.1
                     0
                        0.4
                              0.5
##
    [849,]
             0.7
                        0.3
                              0.0
                     0
##
    [850,]
             0.8
                     0
                        0.2
                              0.0
##
    [851,]
             0.0
                     0
                        0.4
                              0.6
##
    [852,]
             1.0
                     0
                        0.0
                              0.0
##
    [853,]
                     0
                        0.4
                              0.3
             0.3
##
    [854,]
             1.0
                        0.0
                              0.0
                     0
##
    [855,]
             0.0
                     0
                        0.4
                              0.6
##
    [856,]
                        0.0
                              0.0
             1.0
                     0
##
    [857,]
             0.0
                     0
                        0.4
                              0.6
##
    [858,]
                     0
                        0.2
                              0.0
             0.8
                        0.4
##
    [859,]
             0.0
                     0
                              0.6
    [860,]
                        0.4
##
             0.5
                     0
                              0.1
##
    [861,]
                        0.2
                              0.0
             0.8
                     0
##
    [862,]
             0.0
                     0
                        0.4
                              0.6
##
    [863,]
             0.1
                     0
                        0.4
                              0.5
##
    [864,]
             1.0
                        0.0
                              0.0
                     0
##
    [865,]
             0.7
                        0.3
                              0.0
##
    [866,]
             0.1
                     0
                        0.4
                              0.5
    [867,]
                        0.4 0.6
##
             0.0
```

```
0.0 0.0
##
    [868,]
             1.0
                     0
##
    [869,]
             1.0
                         0.0
                              0.0
                     0
##
    [870,]
             1.0
                         0.0
                              0.0
                         0.4
##
    [871,]
             0.1
                              0.5
                     0
##
    [872,]
             0.0
                     0
                         0.4
                              0.6
##
    [873,]
             1.0
                         0.0
                              0.0
                     0
##
    [874,]
             1.0
                     0
                         0.0
                              0.0
    [875,]
                         0.0
##
             1.0
                     0
                              0.0
##
    [876,]
             0.5
                     0
                         0.4
                              0.1
##
                         0.4
                              0.6
    [877,]
             0.0
                     0
##
    [878,]
             1.0
                     0
                         0.0
                              0.0
##
    [879,]
             0.1
                         0.4
                              0.5
                     0
    [880,]
##
             0.8
                     0
                         0.2
                              0.0
##
    [881,]
                         0.0
                              0.0
             1.0
                     0
##
    [882,]
             0.1
                     0
                         0.4
                              0.5
##
    [883,]
             1.0
                     0
                         0.0
                              0.0
##
    [884,]
                     0
                         0.4
                              0.5
             0.1
##
    [885,]
             0.4
                     0
                         0.4
                              0.2
                         0.4
##
    [886,]
                              0.6
             0.0
                     0
##
    [887,]
             1.0
                     0
                         0.0
                              0.0
                              0.0
##
    [888,]
             1.0
                     0
                         0.0
##
    [889,]
             0.0
                     0
                         0.4
                              0.6
##
    [890,]
             0.0
                         0.4
                              0.6
                     0
##
    [891,]
             0.7
                     0
                         0.3
                              0.0
##
    [892,]
                         0.4
                              0.6
             0.0
                     0
##
    [893,]
             0.8
                     0
                         0.2
                              0.0
##
    [894,]
             1.0
                     0
                         0.0
                              0.0
##
    [895,]
                         0.4
                              0.6
             0.0
                     0
                         0.0
##
    [896,]
             1.0
                     0
                              0.0
##
    [897,]
             0.0
                     0
                         0.4
                              0.6
##
    [898,]
             1.0
                     0
                         0.0
                              0.0
##
    [899,]
             0.1
                     0
                         0.4
                              0.5
##
    [900,]
             0.0
                         0.4
                              0.6
##
    [901,]
                         0.1
                              0.0
             0.9
                     0
##
    [902,]
             1.0
                     0
                         0.0
                              0.0
##
    [903,]
             0.1
                     0
                         0.4
                              0.5
##
    [904,]
             1.0
                     0
                         0.0
                              0.0
##
    [905,]
             1.0
                     0
                         0.0
                              0.0
##
    [906,]
             0.0
                     0
                         0.4
                              0.6
                              0.0
##
    [907,]
             0.7
                     0
                         0.3
##
    [908,]
             0.1
                         0.4
                              0.5
                     0
##
    [909,]
             0.7
                     0
                         0.3
                              0.0
##
    [910,]
                         0.0
                              0.0
             1.0
                     0
##
    [911,]
             0.0
                     0
                         0.4
                              0.6
##
    [912,]
             0.7
                     0
                         0.3
                              0.0
    [913,]
                         0.0
##
             1.0
                     0
                              0.0
    [914,]
                              0.6
##
             0.0
                     0
                         0.4
##
    [915,]
                         0.0
                              0.0
             1.0
                     0
##
    [916,]
             0.1
                     0
                         0.4
                              0.5
    [917,]
##
             0.2
                     0
                         0.4
                              0.4
##
    [918,]
             0.0
                     0
                         0.4
                              0.6
##
    [919,]
             0.1
                         0.4
                              0.5
##
    [920,]
             1.0
                     0
                         0.0
                              0.0
    [921,]
                         0.4 0.6
##
             0.0
```

```
[922,]
                        0.0 0.0
##
             1.0
                     0
##
    [923,]
             0.0
                        0.4
                              0.6
                     0
##
    [924,]
             0.5
                        0.4
                              0.1
    [925,]
                        0.1
##
             0.9
                              0.0
                     0
##
    [926,]
             0.8
                     0
                        0.2
                              0.0
##
    [927,]
             0.0
                        0.4
                              0.6
                     0
##
    [928,]
             0.5
                     0
                        0.4
                              0.1
    [929,]
                        0.4
                              0.6
##
             0.0
                     0
##
    [930,]
             0.5
                     0
                        0.4
                              0.1
##
                        0.4
                              0.6
    [931,]
             0.0
                     0
##
    [932,]
             1.0
                     0
                        0.0
                              0.0
##
    [933,]
             1.0
                        0.0
                              0.0
                     0
##
    [934,]
             0.0
                     0
                        0.4
                              0.6
##
    [935,]
                        0.4
             0.0
                     0
                              0.6
##
    [936,]
             0.8
                     0
                        0.2
                              0.0
##
    [937,]
             0.8
                     0
                        0.2
                              0.0
##
    [938,]
                     0
                        0.2
                              0.0
             0.8
##
    [939,]
             0.8
                     0
                        0.2
                              0.0
                        0.4
##
    [940,]
                              0.6
             0.0
                     0
##
    [941,]
             0.5
                     0
                        0.4
                              0.1
##
    [942,]
             1.0
                     0
                        0.0
                              0.0
##
    [943,]
             1.0
                     0
                        0.0
                              0.0
##
    [944,]
             0.7
                        0.3
                              0.0
                     0
##
    [945,]
             0.9
                     0
                        0.1
                              0.0
##
    [946,]
                        0.2
                              0.0
             0.8
                     0
    [947,]
##
             0.0
                     0
                        0.4
                              0.6
##
    [948,]
             0.1
                     0
                        0.4
                              0.5
##
    [949,]
             0.0
                        0.4
                              0.6
                     0
##
    [950,]
             0.0
                     0
                        0.4
                              0.6
##
    [951,]
             0.8
                     0
                        0.2
                              0.0
##
    [952,]
             0.4
                     0
                        0.4
                              0.2
##
    [953,]
             0.9
                     0
                        0.1
                              0.0
##
    [954,]
             0.1
                        0.4
                              0.5
##
    [955,]
                        0.2
                              0.0
             0.8
                     0
##
    [956,]
             0.0
                     0
                        0.4
                              0.6
##
    [957,]
             0.0
                        0.4
                              0.6
                     0
##
    [958,]
             0.0
                     0
                        0.4
                              0.6
##
    [959,]
             1.0
                     0
                        0.0
                              0.0
##
    [960,]
             0.0
                     0
                        0.4
                              0.6
                              0.6
##
    [961,]
             0.0
                     0
                        0.4
##
    [962,]
             1.0
                        0.0
                              0.0
                     0
##
    [963,]
             0.0
                     0
                        0.4
                              0.6
    [964,]
                        0.4
                              0.6
##
             0.0
                     0
##
                        0.4
                              0.3
    [965,]
             0.3
                     0
##
    [966,]
             0.8
                     0
                        0.2
                              0.0
    [967,]
                        0.1
##
             0.9
                     0
                              0.0
    [968,]
                        0.4
##
             0.1
                     0
                              0.5
##
    [969,]
                        0.2
                              0.0
             0.8
                     0
##
    [970,]
             1.0
                     0
                        0.0
                              0.0
##
    [971,]
             1.0
                     0
                        0.0
                              0.0
##
    [972,]
             1.0
                        0.0
                              0.0
                     0
##
    [973,]
             0.0
                        0.4
                              0.6
             0.8
##
    [974,]
                     0
                        0.2
                              0.0
    [975,]
                        0.0 0.0
##
             1.0
```

```
[976,]
                        0.0 0.0
##
             1.0
                     0
             0.1
##
    [977,]
                        0.4
                              0.5
                     0
    [978,]
##
             1.0
                        0.0
                              0.0
    [979,]
                        0.4
##
             0.1
                              0.5
                     0
##
    [980,]
             0.0
                     0
                        0.4
                              0.6
##
    [981,]
             0.8
                        0.2
                              0.0
                     0
##
    [982,]
             0.9
                     0
                        0.1
                              0.0
    [983,]
                        0.0
                              0.0
##
             1.0
                     0
##
    [984,]
             0.8
                     0
                        0.2
                              0.0
##
                        0.4
                              0.5
    [985,]
             0.1
                     0
##
    [986,]
             1.0
                     0
                        0.0
                              0.0
##
    [987,]
             1.0
                        0.0
                              0.0
                     0
    [988,]
##
             0.0
                     0
                        0.4
                              0.6
##
    [989,]
                        0.4
                              0.5
             0.1
                     0
##
    [990,]
             0.0
                     0
                        0.4
                              0.6
##
    [991,]
             0.8
                     0
                        0.2
                              0.0
##
    [992,]
             0.4
                     0
                        0.4
                              0.2
##
    [993,]
             1.0
                        0.0
                              0.0
##
    [994,]
             1.0
                        0.0
                              0.0
                     0
##
    [995,]
             1.0
                     0
                        0.0
                              0.0
##
    [996,]
             0.0
                     0
                        0.4
                              0.6
##
    [997,]
             1.0
                     0
                        0.0
                              0.0
##
    [998,]
             1.0
                     0
                        0.0
                              0.0
##
    [999,]
             0.9
                     0
                        0.1
                              0.0
## [1000,]
             1.0
                        0.0
                              0.0
                     0
## [1001,]
             0.8
                     0
                        0.2
                              0.0
## [1002,]
             0.0
                     0
                        0.4
                              0.6
## [1003,]
                        0.0
                              0.0
             1.0
                     0
## [1004,]
             1.0
                     0
                        0.0
                              0.0
## [1005,]
             0.4
                     0
                        0.4
                              0.2
## [1006,]
             1.0
                     0
                        0.0
                              0.0
## [1007,]
             0.8
                     0
                        0.2
                              0.0
## [1008,]
             0.5
                        0.4
                              0.1
## [1009,]
                        0.0
                              0.0
             1.0
                     0
## [1010,]
             1.0
                     0
                        0.0
                              0.0
## [1011,]
             0.0
                     0
                        0.4
                              0.6
## [1012,]
             0.8
                        0.2
                              0.0
## [1013,]
             0.9
                     0
                        0.1
                              0.0
## [1014,]
             0.9
                     0
                        0.1
                              0.0
                              0.6
## [1015,]
             0.0
                     0
                        0.4
## [1016,]
             0.0
                        0.4
                              0.6
                     0
## [1017,]
             1.0
                     0
                        0.0
                              0.0
## [1018,]
             0.9
                        0.1
                              0.0
                     0
## [1019,]
             1.0
                        0.0
                              0.0
                     0
## [1020,]
             0.0
                     0
                        0.4
                              0.6
## [1021,]
                        0.2
             0.8
                     0
                              0.0
## [1022,]
                              0.0
             1.0
                     0
                        0.0
## [1023,]
                              0.5
             0.1
                        0.4
## [1024,]
             1.0
                     0
                        0.0
                              0.0
## [1025,]
             0.4
                     0
                        0.4
                              0.2
## [1026,]
             1.0
                     0
                        0.0
                              0.0
## [1027,]
             0.3
                        0.4
                              0.3
             0.1
## [1028,]
                     0
                        0.4
                              0.5
## [1029,]
                        0.2 0.0
             0.8
```

```
## [1030,]
                              0.1
             0.5
                     0
                        0.4
## [1031,]
             0.5
                        0.4
                              0.1
                     0
## [1032,]
             0.8
                        0.2
                              0.0
## [1033,]
                        0.4
             0.0
                     0
                              0.6
## [1034,]
             0.0
                     0
                        0.4
                              0.6
## [1035,]
             0.0
                        0.4
                              0.6
                     0
## [1036,]
             1.0
                     0
                        0.0
                              0.0
## [1037,]
                        0.2
                              0.0
             0.8
                     0
## [1038,]
             0.5
                     0
                        0.4
                              0.1
## [1039,]
                        0.4
                              0.6
             0.0
                     0
## [1040,]
             0.9
                     0
                        0.1
                              0.0
## [1041,]
             0.9
                     0
                        0.1
                              0.0
## [1042,]
             1.0
                     0
                        0.0
                              0.0
## [1043,]
                        0.4
                              0.2
             0.4
## [1044,]
             0.0
                     0
                        0.4
                              0.6
## [1045,]
             0.0
                     0
                        0.4
                              0.6
## [1046,]
                     0
                        0.2
                              0.0
             0.8
## [1047,]
             0.0
                        0.4
                              0.6
## [1048,]
                        0.4
                              0.6
             0.0
                     0
## [1049,]
             0.5
                     0
                        0.4
                              0.1
## [1050,]
             0.1
                     0
                        0.4
                              0.5
## [1051,]
             1.0
                     0
                        0.0
                              0.0
                        0.0
## [1052,]
             1.0
                     0
                              0.0
## [1053,]
             0.4
                     0
                        0.4
                              0.2
## [1054,]
                        0.4
                              0.6
             0.0
                     0
## [1055,]
             1.0
                     0
                        0.0
                              0.0
## [1056,]
             0.4
                     0
                        0.4
                              0.2
## [1057,]
                        0.0
                              0.0
             1.0
                     0
## [1058,]
             1.0
                     0
                        0.0
                              0.0
## [1059,]
             1.0
                     0
                        0.0
                              0.0
## [1060,]
             1.0
                     0
                        0.0
                              0.0
## [1061,]
             0.0
                     0
                        0.4
                              0.6
## [1062,]
             0.5
                        0.4
                              0.1
## [1063,]
             0.7
                        0.3
                              0.0
                     0
## [1064,]
             0.1
                     0
                        0.4
                              0.5
## [1065,]
             0.8
                     0
                        0.2
                              0.0
## [1066,]
             0.9
                        0.1
                              0.0
## [1067,]
             0.0
                     0
                        0.4
                              0.6
## [1068,]
             0.4
                     0
                        0.4
                              0.2
## [1069,]
                              0.2
             0.4
                     0
                        0.4
## [1070,]
             0.4
                     0
                        0.4
                              0.2
## [1071,]
             0.0
                     0
                        0.4
                              0.6
## [1072,]
                        0.4
                              0.4
             0.2
                     0
## [1073,]
                        0.3
                              0.0
             0.7
                     0
## [1074,]
             1.0
                     0
                        0.0
                              0.0
## [1075,]
                        0.4
             0.0
                     0
                              0.6
## [1076,]
                              0.6
             0.0
                     0
                        0.4
## [1077,]
             0.9
                        0.1
                              0.0
## [1078,]
             0.7
                     0
                        0.3
                              0.0
## [1079,]
             1.0
                     0
                        0.0
                              0.0
## [1080,]
             0.9
                     0
                        0.1
                              0.0
## [1081,]
                        0.4
             0.0
                              0.6
## [1082,]
             0.9
                     0
                        0.1
                              0.0
## [1083,]
                        0.0 0.0
             1.0
```

```
## [1084,]
                        0.4
                             0.6
             0.0
             0.0
## [1085,]
                        0.4
                              0.6
                     0
## [1086,]
             1.0
                        0.0
                              0.0
## [1087,]
                        0.4
             0.0
                     0
                              0.6
## [1088,]
             0.8
                     0
                        0.2
                              0.0
## [1089,]
             0.1
                     0
                        0.4
                              0.5
## [1090,]
             0.1
                     0
                        0.4
                              0.5
## [1091,]
                        0.0
                              0.0
             1.0
                     0
## [1092,]
             0.8
                     0
                        0.2
                              0.0
## [1093,]
                        0.4
                              0.6
             0.0
                     0
## [1094,]
             0.1
                     0
                        0.4
                              0.5
## [1095,]
                        0.4
             0.1
                     0
                              0.5
## [1096,]
                        0.4
             0.4
                     0
                              0.2
## [1097,]
             0.3
                        0.4
                              0.3
## [1098,]
             0.9
                     0
                        0.1
                              0.0
## [1099,]
             0.5
                     0
                        0.4
                              0.1
## [1100,]
             1.0
                     0
                        0.0
                              0.0
## [1101,]
             0.0
                        0.4
                              0.6
## [1102,]
             0.0
                        0.4
                              0.6
                     0
## [1103,]
             0.4
                     0
                        0.4
                              0.2
## [1104,]
             0.4
                     0
                        0.4
                              0.2
## [1105,]
             0.3
                     0
                        0.4
                              0.3
## [1106,]
                        0.4
             0.1
                     0
                              0.5
## [1107,]
             1.0
                     0
                        0.0
                              0.0
## [1108,]
             1.0
                        0.0
                              0.0
                     0
## [1109,]
             0.0
                     0
                        0.4
                              0.6
## [1110,]
             1.0
                     0
                        0.0
                              0.0
## [1111,]
                        0.4
                              0.6
             0.0
                     0
## [1112,]
                        0.4
             0.0
                     0
                              0.6
## [1113,]
                        0.0
             1.0
                     0
                              0.0
## [1114,]
             0.0
                     0
                        0.4
                              0.6
## [1115,]
             1.0
                     0
                        0.0
                              0.0
## [1116,]
             0.6
                        0.4
                              0.0
## [1117,]
                        0.0
                              0.0
             1.0
                     0
## [1118,]
             1.0
                     0
                        0.0
                              0.0
## [1119,]
             1.0
                        0.0
                              0.0
                     0
## [1120,]
             1.0
                        0.0
                              0.0
## [1121,]
             1.0
                     0
                        0.0
                              0.0
## [1122,]
             0.0
                     0
                        0.4
                              0.6
## [1123,]
                              0.0
             0.8
                     0
                        0.2
## [1124,]
             0.8
                     0
                        0.2
                              0.0
## [1125,]
             0.0
                     0
                        0.4
                              0.6
## [1126,]
                        0.4
                              0.6
             0.0
                     0
## [1127,]
                        0.4
             0.3
                     0
                              0.3
## [1128,]
             0.8
                     0
                        0.2
                              0.0
## [1129,]
                        0.4
             0.0
                     0
                              0.6
## [1130,]
                              0.0
             1.0
                     0
                        0.0
## [1131,]
             0.0
                              0.6
                        0.4
## [1132,]
             0.0
                     0
                        0.4
                              0.6
## [1133,]
                        0.0
             1.0
                     0
                              0.0
## [1134,]
             0.0
                     0
                        0.4
                              0.6
## [1135,]
                        0.4
             0.1
                              0.5
## [1136,]
             0.9
                     0
                        0.1
                              0.0
## [1137,]
                        0.4 0.6
             0.0
```

```
## [1138,]
                        0.4 0.6
             0.0
             0.1
## [1139,]
                        0.4
                             0.5
                     0
## [1140,]
             0.0
                        0.4
                              0.6
## [1141,]
                        0.4
             0.1
                     0
                             0.5
## [1142,]
             0.0
                     0
                        0.4
                             0.6
## [1143,]
             0.0
                     0
                        0.4
                             0.6
## [1144,]
             0.0
                     0
                        0.4
                              0.6
## [1145,]
                        0.4
                             0.5
             0.1
                     0
## [1146,]
             0.8
                     0
                        0.2
                             0.0
## [1147,]
                        0.4
                             0.6
             0.0
                     0
## [1148,]
             0.7
                     0
                        0.3
                             0.0
## [1149,]
                        0.0
             1.0
                     0
                             0.0
## [1150,]
                        0.2
             0.8
                     0
                             0.0
## [1151,]
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                        0.0
                              0.0
## [1152,]
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                        0.4
                              0.6
## [1153,]
             0.0
                     0
                        0.4
                              0.6
## [1154,]
             0.8
                     0
                        0.2
                             0.0
## [1155,]
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                        0.0
                             0.0
## [1156,]
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                        0.2
                             0.0
                     0
## [1157,]
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                     0
                        0.0
                             0.0
## [1158,]
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                     0
                        0.2
                             0.0
## [1159,]
             0.8
                     0
                        0.2
                              0.0
## [1160,]
                        0.4
             0.1
                     0
                              0.5
## [1161,]
             0.0
                     0
                        0.4
                             0.6
## [1162,]
             0.0
                        0.4
                             0.6
                     0
## [1163,]
             0.0
                     0
                        0.4
                             0.6
## [1164,]
             0.8
                     0
                        0.2
                             0.0
## [1165,]
             0.4
                     0
                        0.4
                             0.2
## [1166,]
                        0.0
             1.0
                     0
                             0.0
## [1167,]
                        0.2
             0.8
                     0
                              0.0
## [1168,]
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                        0.4
                             0.6
## [1169,]
             0.9
                     0
                        0.1
                             0.0
## [1170,]
                        0.0
                             0.0
             1.0
## [1171,]
             0.8
                        0.2
                             0.0
                     0
## [1172,]
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                     0
                        0.0
                             0.0
## [1173,]
             0.0
                     0
                        0.4
                             0.6
## [1174,]
             1.0
                        0.0
                              0.0
## [1175,]
             0.4
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                        0.4
                             0.2
## [1176,]
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                     0
                        0.4
                             0.6
## [1177,]
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             0.4
                     0
                        0.4
## [1178,]
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                     0
                        0.0
                             0.0
## [1179,]
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                     0
                        0.2
                             0.0
## [1180,]
                        0.4
                             0.5
             0.1
                     0
## [1181,]
                        0.2
                             0.0
             0.8
                     0
## [1182,]
             0.8
                     0
                        0.2
                              0.0
## [1183,]
                        0.3
             0.7
                     0
                              0.0
## [1184,]
                        0.4
                             0.6
             0.0
                     0
## [1185,]
             0.8
                        0.2
                             0.0
## [1186,]
             0.0
                     0
                        0.4
                             0.6
## [1187,]
                        0.2
             0.8
                     0
                             0.0
## [1188,]
             0.8
                     0
                        0.2
                             0.0
## [1189,]
                        0.4
             0.0
                             0.6
## [1190,]
             0.0
                     0
                        0.4
                             0.6
## [1191,]
                        0.2 0.0
             0.8
```

```
## [1192,]
                        0.4 0.3
             0.3
## [1193,]
             0.0
                        0.4
                             0.6
                    0
## [1194,]
             0.0
                        0.4
                             0.6
## [1195,]
                        0.4
             0.0
                             0.6
                     0
## [1196,]
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                     0
                        0.0
                             0.0
## [1197,]
             0.0
                        0.4
                             0.6
                     0
## [1198,]
             0.0
                     0
                        0.4
                             0.6
## [1199,]
                        0.2
                             0.0
             0.8
                     0
## [1200,]
             0.0
                     0
                        0.4
                             0.6
## [1201,]
                        0.4
                             0.5
             0.1
                     0
## [1202,]
             0.8
                     0
                        0.2
                             0.0
## [1203,]
                        0.4
             0.0
                             0.6
                     0
## [1204,]
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                     0
                        0.4
                             0.6
## [1205,]
             1.0
                        0.0
                             0.0
## [1206,]
             0.0
                     0
                        0.4
                             0.6
## [1207,]
             1.0
                     0
                        0.0
                             0.0
## [1208,]
             0.0
                     0
                        0.4
                             0.6
## [1209,]
             0.0
                        0.4
                             0.6
## [1210,]
             0.0
                        0.4
                             0.6
                     0
## [1211,]
             0.1
                     0
                        0.4
                             0.5
## [1212,]
             0.1
                     0
                        0.4
                             0.5
## [1213,]
             1.0
                     0
                        0.0
                             0.0
## [1214,]
                        0.4
             0.1
                     0
                             0.5
## [1215,]
             0.7
                     0
                        0.3
                             0.0
## [1216,]
                        0.4
                             0.5
             0.1
                     0
## [1217,]
             0.0
                     0
                        0.4
                             0.6
## [1218,]
             0.0
                     0
                        0.4
                             0.6
## [1219,]
                        0.0
                             0.0
             1.0
                     0
## [1220,]
             0.0
                     0
                        0.4
                             0.6
## [1221,]
                        0.4
             0.0
                     0
                             0.6
## [1222,]
             0.0
                     0
                        0.4
                             0.6
## [1223,]
             1.0
                     0
                        0.0
                             0.0
## [1224,]
             0.0
                        0.4
                             0.6
## [1225,]
                        0.4
                             0.5
             0.1
                     0
## [1226,]
             0.0
                     0
                        0.4
                             0.6
## [1227,]
             0.8
                     0
                        0.2
                             0.0
## [1228,]
             0.9
                        0.1
                             0.0
## [1229,]
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                     0
                        0.4
                             0.3
## [1230,]
             0.7
                     0
                        0.3
                             0.0
## [1231,]
                             0.6
             0.0
                     0
                        0.4
## [1232,]
             1.0
                     0
                        0.0
                             0.0
## [1233,]
             0.4
                     0
                        0.4
                             0.2
## [1234,]
             0.0
                        0.4
                             0.6
                     0
## [1235,]
                        0.0
                             0.0
             1.0
                     0
## [1236,]
             0.0
                     0
                        0.4
                             0.6
## [1237,]
                        0.0
             1.0
                     0
                             0.0
## [1238,]
                        0.4
                             0.6
             0.0
                     0
## [1239,]
             0.9
                        0.1
                             0.0
## [1240,]
             0.4
                     0
                        0.4
                             0.2
## [1241,]
                        0.4
             0.0
                     0
                             0.6
## [1242,]
             1.0
                     0
                        0.0
                             0.0
## [1243,]
             0.0
                        0.4
                             0.6
## [1244,]
             0.0
                     0
                        0.4
                             0.6
## [1245,]
                        0.0 0.0
             1.0
```

```
## [1246,]
                        0.4 0.6
             0.0
## [1247,]
                        0.0
                             0.0
             1.0
                     0
## [1248,]
             1.0
                        0.0
                             0.0
## [1249,]
                        0.4
             0.0
                             0.6
                     0
## [1250,]
             0.8
                     0
                        0.2
                             0.0
## [1251,]
             0.4
                        0.4
                             0.2
                     0
## [1252,]
             0.0
                     0
                        0.4
                             0.6
## [1253,]
                        0.4
                             0.6
             0.0
                     0
## [1254,]
             0.1
                     0
                        0.4
                             0.5
## [1255,]
                        0.0
                             0.0
             1.0
                     0
## [1256,]
             0.5
                     0
                        0.4
                             0.1
## [1257,]
                        0.2
             0.8
                             0.0
                     0
## [1258,]
             0.8
                     0
                        0.2
                             0.0
## [1259,]
                        0.3
                             0.0
             0.7
## [1260,]
             0.0
                     0
                        0.4
                             0.6
## [1261,]
             1.0
                     0
                        0.0
                             0.0
## [1262,]
             0.4
                     0
                        0.4
                             0.2
## [1263,]
             1.0
                        0.0
                             0.0
## [1264,]
             0.3
                        0.4
                             0.3
                     0
## [1265,]
             0.7
                     0
                        0.3
                             0.0
## [1266,]
             0.9
                     0
                        0.1
                             0.0
## [1267,]
             0.8
                     0
                        0.2
                             0.0
## [1268,]
                        0.0
             1.0
                     0
                             0.0
## [1269,]
             0.5
                     0
                        0.4
                             0.1
## [1270,]
             1.0
                        0.0
                             0.0
                     0
## [1271,]
             0.5
                     0
                        0.4
                             0.1
## [1272,]
             0.0
                     0
                        0.4
                             0.6
## [1273,]
                        0.2
                             0.0
             0.8
                     0
## [1274,]
             1.0
                     0
                        0.0
                             0.0
## [1275,]
                        0.0
             1.0
                     0
                             0.0
## [1276,]
             0.0
                     0
                        0.4
                             0.6
## [1277,]
             0.7
                     0
                        0.3
                             0.0
## [1278,]
             0.5
                        0.4
                             0.1
## [1279,]
                        0.4
                             0.5
             0.1
                     0
## [1280,]
             0.7
                     0
                        0.3
                             0.0
## [1281,]
             0.1
                     0
                        0.4
                             0.5
## [1282,]
             0.0
                        0.4
                             0.6
## [1283,]
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                        0.4
                             0.6
## [1284,]
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                     0
                        0.0
                             0.0
## [1285,]
             0.9
                     0
                        0.1
                             0.0
## [1286,]
             0.8
                     0
                        0.2
                             0.0
## [1287,]
             0.0
                     0
                        0.4
                             0.6
## [1288,]
                        0.4
                             0.5
             0.1
                     0
## [1289,]
                        0.2
             0.8
                     0
                             0.0
## [1290,]
             0.8
                     0
                        0.2
                             0.0
## [1291,]
                        0.4
             0.6
                     0
                             0.0
## [1292,]
                             0.0
             1.0
                     0
                        0.0
## [1293,]
                        0.4
                             0.5
             0.1
## [1294,]
             0.0
                     0
                        0.4
                             0.6
## [1295,]
                        0.2
             0.8
                     0
                             0.0
## [1296,]
             0.0
                        0.4
                             0.6
                     0
## [1297,]
                        0.2
             0.8
                             0.0
## [1298,]
             0.0
                     0
                        0.4
                             0.6
## [1299,]
                        0.0 0.0
             1.0
```

```
## [1300,]
             0.0
                        0.4
                             0.6
## [1301,]
                        0.0
                             0.0
             1.0
                     0
## [1302,]
             0.0
                        0.4
                             0.6
## [1303,]
                        0.0
             1.0
                             0.0
                     0
## [1304,]
             1.0
                     0
                        0.0
                             0.0
## [1305,]
             1.0
                        0.0
                             0.0
                     0
## [1306,]
             0.0
                     0
                        0.4
                              0.6
## [1307,]
                        0.4
                              0.6
             0.0
                     0
## [1308,]
             1.0
                     0
                        0.0
                             0.0
## [1309,]
                        0.0
                             0.0
             1.0
                     0
## [1310,]
             1.0
                     0
                        0.0
                             0.0
## [1311,]
             0.0
                        0.4
                             0.6
                     0
## [1312,]
             0.0
                     0
                        0.4
                             0.6
## [1313,]
                        0.1
             0.9
                              0.0
## [1314,]
             1.0
                     0
                        0.0
                              0.0
## [1315,]
             1.0
                     0
                        0.0
                             0.0
## [1316,]
                     0
                        0.4
                             0.5
             0.1
## [1317,]
             0.9
                        0.1
                             0.0
## [1318,]
                        0.4
                             0.5
             0.1
                     0
## [1319,]
             1.0
                     0
                        0.0
                             0.0
## [1320,]
             0.0
                     0
                        0.4
                             0.6
## [1321,]
             1.0
                     0
                        0.0
                              0.0
## [1322,]
                        0.4
             0.4
                     0
                             0.2
## [1323,]
             1.0
                     0
                        0.0
                             0.0
## [1324,]
                        0.4
                             0.6
             0.0
                     0
## [1325,]
             1.0
                     0
                        0.0
                             0.0
## [1326,]
             1.0
                     0
                        0.0
                             0.0
## [1327,]
             0.2
                        0.4
                     0
                             0.4
                        0.0
## [1328,]
             1.0
                     0
                             0.0
## [1329,]
             0.0
                     0
                        0.4
                              0.6
## [1330,]
             1.0
                     0
                        0.0
                             0.0
## [1331,]
             0.0
                     0
                        0.4
                             0.6
## [1332,]
             0.0
                        0.4
                             0.6
## [1333,]
                        0.0
                             0.0
             1.0
                     0
## [1334,]
             1.0
                     0
                        0.0
                             0.0
## [1335,]
             0.0
                        0.4
                             0.6
                     0
## [1336,]
             0.0
                        0.4
                              0.6
## [1337,]
             0.7
                     0
                        0.3
                              0.0
## [1338,]
             0.1
                     0
                        0.4
                             0.5
                             0.0
## [1339,]
             1.0
                     0
                        0.0
## [1340,]
             0.4
                        0.4
                             0.2
                     0
## [1341,]
             1.0
                     0
                        0.0
                             0.0
## [1342,]
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                             0.0
             1.0
                     0
## [1343,]
                        0.4
             0.0
                     0
                             0.6
## [1344,]
             1.0
                     0
                        0.0
                              0.0
## [1345,]
                        0.4
             0.0
                     0
                              0.6
## [1346,]
                        0.4
                             0.5
             0.1
                     0
## [1347,]
                        0.4
                             0.5
             0.1
## [1348,]
             0.8
                     0
                        0.2
                             0.0
## [1349,]
             0.7
                     0
                        0.3
                             0.0
## [1350,]
             0.8
                     0
                        0.2
                             0.0
                        0.0
## [1351,]
             1.0
                             0.0
## [1352,]
             0.8
                     0
                        0.2
                             0.0
## [1353,]
                        0.2 0.0
             0.8
```

```
## [1354,]
         0.7
               0 0.3 0.0
## [1355,]
         0.1
                 0.4
                     0.5
## [1356,]
         0.8
                 0.2
                     0.0
## [1357,]
                 0.4
                     0.2
         0.4
               0
## [1358,]
         0.1
               0
                 0.4
                     0.5
## [1359,]
         0.5
                 0.4
                     0.1
## [1360.]
         1.0
                 0.0
                     0.0
## [1361,]
         0.8
                 0.2
                     0.0
               0
## [1362.]
         0.3
                 0.4
                     0.3
## [1363,]
                 0.3
                     0.0
         0.7
## [1364,]
         0.0
               0
                 0.4
                     0.6
                 0.0
## [1365,]
         1.0
               0
                     0.0
## [1366,]
                 0.4
         0.6
               0
                     0.0
## [1367,]
                 0.2
         0.8
                     0.0
## [1368,]
         0.0
               0
                 0.4
                     0.6
## [1369,]
         1.0
               0
                 0.0
                     0.0
## [1370,]
         0.1
                 0.4
                     0.5
## [1371,]
         0.9
                 0.1
                     0.0
## [1372,]
         0.8
                 0.2
                     0.0
               0
                 0.4
## [1373,]
         0.1
                     0.5
## [1374,]
         1.0
               0
                 0.0
                     0.0
## [1375,]
         0.1
                 0.4
                     0.5
## [1376,]
                 0.3
         0.7
               0
                     0.0
## [1377.]
         0.4
                 0.4
                     0.2
## [1378,]
         1.0
                 0.0
                     0.0
## [1379.]
         0.0
               0
                 0.4
                     0.6
## [1380,]
         0.5
               0
                 0.4
                     0.1
## [1381,]
                 0.4
                     0.6
         0.0
               0
## [1382,]
                 0.0
         1.0
                     0.0
## [1383,]
                 0.4
         0.3
               0
                     0.3
                 0.2
## [1384,]
         0.8
               0
                     0.0
## [1385,]
         0.8
                 0.2
                     0.0
## [1386,]
         0.7
                 0.3
                     0.0
## [1387,]
         1.0
                 0.0
                     0.0
               0
## [1388,]
         0.3
                 0.4
                     0.3
## [1389,]
         0.0
               0
                 0.4
                     0.6
## [1390,]
         0.4
                 0.4
                     0.2
## [1391,]
         0.8
               0
                 0.2
                     0.0
## [1392,]
         0.9
                 0.1
                     0.0
## [1393,]
         0.1
                 0.4
                     0.5
## [1394,]
         0.0
                 0.4
## [1395,]
         0.0
               0
                 0.4
                     0.6
## [1396.]
                 0.0
         1.0
               0
                     0.0
## [1397,]
                 0.3
                     0.0
         0.7
## [1398,]
         0.0
                 0.4
                     0.6
## [1399,]
         1.0
                 0.0
               0
                     0.0
  [1400,]
                 0.4 0.6
##
         0.0
##
  $class
##
    ##
    ##
    ##
    ##
    ##
```

```
##
 [109] "2" "0" "0" "0" "3" "3" "0" "3" "3" "0" "2" "3" "0" "0" "3" "0" "3" "3" "0"
##
 [127] "0" "3" "3" "0" "0" "0" "2" "3" "3" "0" "3" "3" "3" "0" "3" "3" "0" "3"
 [181] "0" "3" "0" "0" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0"
##
 ##
 ##
 [289] "3" "0" "3" "0" "0" "3" "0" "3" "2" "0" "0" "0" "3" "0" "0" "3" "3" "0"
##
 [325] "0" "0" "0" "3" "0" "0" "0" "3" "3" "0" "2" "3" "3" "3" "0" "3" "0" "3"
##
 ##
##
 ##
 ##
 ##
 ##
 ##
 [595] "0" "3" "0" "0" "2" "0" "3" "2" "0" "3" "0" "0" "3" "0" "3" "0" "3" "0" "3"
 ##
 ##
 ##
 ##
##
 ##
 [793] "0" "0" "3" "0" "3" "3" "3" "0" "2" "3" "0" "0" "0" "0" "0" "3" "0" "3" "0"
##
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##

[32,]

563 614 1064

596

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                                                  981
                                                        183
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##
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                                       762 1377
                                                   674
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                                                               654
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                                  868 1125 1035
##
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                                                               747
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                                                         63
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                                                        233
                                                              1305
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##
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                                                               558
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##
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                                                              1210
##
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            792 248
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                                       744 1074
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                                                               191
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                                                               868
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                                   95
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                                                   616
                                                        604
                                                              1301
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                                                        500
                                                               698
##
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                                   78
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                                                    44
                                                        874
                                                               719
##
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                                                   968
                                                        539
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            916 1063
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                                                    17 1309
##
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##
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     [75,]
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            781 1068
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                                                               635
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                                  696 822
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```

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                                        590
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                                                        374
                                                               729
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                                                              1064
##
                                                        717
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                                                               746
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##
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                                                               331
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                                                   868
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                                                              1328
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                                                    67 1174
                                                               500
##
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                                                               267
##
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                                        848
                                                   528
                                                        989
    Γ110. ]
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                                             702 1139 1180
##
            792
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                             621
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                                                   201
                                                        496
                                                               515
##
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                                                        954
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##
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                                                              1092
##
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##
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                                                              1278
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                                                               254
##
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                            725 1369
                                        289 1292
                                                   876
                                                        108
                                                               850
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##
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##
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##
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                                                         857
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##
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##
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##
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                                                               1390
                        368 1381
                                   741
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    [155,]
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                                                                276
##
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##
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                                                   206 1036
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                                                                908
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                             376 1112
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                                              217 1331 1052
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                                                   472 1322
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                                        204
                                              922 1203
                                                          29
##
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##
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                                        505 1262 1342 1066
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                                                    208
##
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                                                                827
##
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                                                         686
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##
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##
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##
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##
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##
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##
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                                                               1098
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                                                                502
##
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##
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                                                               1174
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##
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```

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                                                                586
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                                                                449
##
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                                                    318 1130
                                                                293
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                                                                703
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##
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                                                    127 1092
##
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                                                    315 1263
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##
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##
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##
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                                                                537
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                                                    536
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                                                                965
##
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                                                          876
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##
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    [271,] 1394
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##
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                        649
                                               127 1161
                                                          982
                                                                810
                  333 1380
                                   609
##
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##
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                                          97 1097 1058
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                                                               1396
##
##
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                                                    269
                                                          332
                                                               1329
##
##
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##
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                                                                915
##
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##
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                                                    683
##
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##
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##
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##
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##
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##
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                                                                1048
##
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                                                    632 1131
                                                                1034
##
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##
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##
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##
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                                                                544
##
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                                                               1337
##
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```

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##
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                                                                169
##
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##
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##
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                                                                869
##
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##
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##
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##
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                                        149 1365
##
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##
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##
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                                                   358 1336
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                                   702
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##
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##
##
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##
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##
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                                                    360 1266
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```

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##
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##
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##
    Γ417. ]
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##
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##
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##
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##
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##
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##
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## [1176,]
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## [1385,] 1282 1317
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## [1386,]
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                                                    dual_sim
                                                                          fc
##
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##
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                                         m_dep
                                                   mobile_wt
                                                                    n_cores
##
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##
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                                     px_width
                                                          ram
                                                                        sc h
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                                             0
                                                          100
                                                                           0
##
            sc_w
                      talk_time
                                       three_g
                                                touch_screen
                                                                        wifi
##
               0
                                             0
                                                                           0
##
## $terms
## price_range ~ battery_power + blue + clock_speed + dual_sim +
##
       fc + four_g + int_memory + m_dep + mobile_wt + n_cores +
##
       pc + px_height + px_width + ram + sc_h + sc_w + talk_time +
##
       three_g + touch_screen + wifi
## attr(,"variables")
## list(price_range, battery_power, blue, clock_speed, dual_sim,
       fc, four_g, int_memory, m_dep, mobile_wt, n_cores, pc, px_height,
##
       px_width, ram, sc_h, sc_w, talk_time, three_g, touch_screen,
##
       wifi)
## attr(,"factors")
                 battery_power blue clock_speed dual_sim fc four_g int_memory
                                    0
                                                          0
## price_range
                              0
                                                0
                                                                    0
                                                                                0
                                    0
                                                          0
                                                             0
                                                                    0
                                                                                0
## battery_power
                              1
                                                0
                              0
                                                0
                                                          0
                                                             0
                                                                    0
                                                                                0
## blue
                                    1
                              0
                                                          0
                                                             0
                                                                                0
## clock_speed
                                                1
                              0
                                    0
                                                0
                                                             0
                                                                    0
                                                                                0
## dual_sim
                                                          1
## fc
                              0
                                    0
                                                0
                                                          0
                                                             1
                                                                    0
                                                                                0
                              0
                                    0
                                                0
                                                          0
                                                             0
                                                                                0
## four_g
                                                                    1
## int_memory
                              0
                                    0
                                                0
                                                          0
                                                             0
                                                                    0
                                                                                1
                                                          0
## m_dep
                              0
                                    0
                                                0
                                                             0
                                                                    0
                                                                                0
                              0
                                    0
                                                0
                                                          0
                                                             0
                                                                    0
                                                                                0
## mobile_wt
                              0
                                    0
                                                          0
                                                                    0
                                                                                0
## n cores
                                                0
                                                             0
## pc
                              0
                                    0
                                                0
                                                          0 0
                                                                    0
                                                                                0
                              0
                                                          0 0
## px_height
                                    0
                                                0
                                                                    0
                                                                                0
```

```
0
                                                     0
## px_width
                                 0
                                                                0
                                                                   0
                                                                            0
                                                                                         0
## ram
                                 0
                                       0
                                                     0
                                                                0
                                                                   0
                                                                            0
                                                                                         0
## sc h
                                                                0
                                                                            0
                                  0
                                       0
                                                     0
                                                                   0
                                                                                         0
                                 0
                                       0
                                                     0
                                                                0
                                                                            0
                                                                                         0
## sc_w
                                                                   0
## talk_time
                                  0
                                       0
                                                     0
                                                                0
                                                                   0
                                                                            0
                                                                                         0
                                 0
                                       0
                                                     0
                                                                0
                                                                   0
                                                                            0
                                                                                         0
## three_g
## touch screen
                                 0
                                       0
                                                     0
                                                                0
                                                                   0
                                                                            0
                                                                                         0
                                 0
                                       0
                                                     0
                                                                0
                                                                   0
                                                                            0
                                                                                         0
## wifi
                   m_dep mobile_wt n_cores pc px_height px_width ram sc_h sc_w
##
                                    0
                                             0
                                                                       0
                                                                            0
                                                                                 0
                                                                                       0
## price_range
                        0
                                                0
                                                            0
## battery_power
                        0
                                    0
                                             0
                                                 0
                                                            0
                                                                       0
                                                                            0
                                                                                  0
                                                                                       0
                        0
                                    0
                                             0
                                                 0
                                                            0
                                                                       0
                                                                            0
                                                                                  0
                                                                                       0
## blue
                        0
                                    0
                                             0
                                                 0
                                                            0
                                                                       0
                                                                            0
                                                                                       0
## clock_speed
                                                                                  0
                                                                       0
## dual_sim
                        0
                                    0
                                             0
                                                 0
                                                            0
                                                                            0
                                                                                  0
                                                                                       0
## fc
                        0
                                    0
                                             0
                                                 0
                                                            0
                                                                       0
                                                                            0
                                                                                  0
                                                                                       0
## four_g
                        0
                                    0
                                             0
                                                 0
                                                            0
                                                                       0
                                                                            0
                                                                                 0
                                                                                       0
                        0
                                    0
                                             0
                                                 0
                                                            0
                                                                       0
                                                                            0
                                                                                 0
                                                                                       0
## int_memory
                                    0
                                             0
                                                                       0
                                                                            0
## m dep
                        1
                                                 0
                                                            0
                                                                                  0
                                                                                        0
                                             0
## mobile_wt
                        0
                                    1
                                                 0
                                                            0
                                                                       0
                                                                            0
                                                                                 0
                                                                                       0
                                    0
                                             1
                                                                       0
## n_cores
                        0
                                                 0
                                                            0
                                                                            0
                                                                                 0
                                                                                       0
## pc
                        0
                                    0
                                             0
                                                 1
                                                            0
                                                                       0
                                                                            0
                                                                                 0
                                                                                       0
## px_height
                        0
                                    0
                                             0
                                                 0
                                                            1
                                                                       0
                                                                            0
                                                                                  0
                                                                                        0
                                    0
                                             0
                                                 0
                                                                            0
                                                                                       0
## px_width
                        0
                                                            0
                                                                       1
                                                                                 0
## ram
                        0
                                    0
                                             0
                                                 0
                                                            0
                                                                       0
                                                                            1
                                                                                 0
                                                                                        0
                                    0
                                                                       0
                        0
                                             0
                                                 0
                                                            0
                                                                            0
                                                                                        0
## sc h
                                                                                 1
## sc_w
                        0
                                    0
                                             0
                                                 0
                                                            0
                                                                       0
                                                                            0
                                                                                 0
                                                                                       1
## talk_time
                        0
                                    0
                                             0
                                                 0
                                                            0
                                                                       0
                                                                            0
                                                                                 0
                                                                                       0
## three_g
                        0
                                    0
                                             0
                                                 0
                                                            0
                                                                       0
                                                                            0
                                                                                 0
                                                                                       0
                                             0
                                                                       0
                        0
                                    0
                                                 0
                                                            0
                                                                            0
                                                                                 0
                                                                                       0
## touch_screen
                        0
                                    0
                                             0
                                                 0
                                                            0
                                                                       0
                                                                            0
                                                                                 0
                                                                                       0
## wifi
##
                   talk_time three_g touch_screen wifi
## price_range
                             0
                                      0
                                                     0
                                                           0
                             0
                                      0
                                                     0
                                                           0
## battery_power
                                      0
                                                           0
                             0
                                                     0
## blue
                                      0
## clock_speed
                             0
                                                     0
                                                           0
## dual_sim
                             0
                                      0
                                                     0
                                                           0
## fc
                             0
                                      0
                                                     0
                                                           0
## four_g
                             0
                                      0
                                                     0
                                                           0
## int_memory
                             0
                                      0
                                                     0
                                                           0
                             0
                                      0
                                                     0
                                                           0
## m_dep
## mobile_wt
                             0
                                      0
                                                     0
                                                           0
## n_cores
                             0
                                      0
                                                     0
                                                           0
                             0
                                      0
                                                     0
                                                           0
## pc
                             0
                                      0
                                                     0
                                                           0
## px_height
                             0
                                      0
                                                     0
                                                           0
## px_width
                             0
                                      0
                                                     0
                                                           0
## ram
                             0
                                      0
                                                     0
                                                           0
## sc_h
                             0
                                      0
                                                     0
                                                           0
## sc_w
                                      0
## talk_time
                             1
                                                     0
                                                           0
## three_g
                             0
                                                     0
                                                           0
                                      1
## touch_screen
                             0
                                      0
                                                           0
                                                     1
                                                     0
                                                           1
## wifi
## attr(,"term.labels")
## [1] "battery_power" "blue"
                                              "clock speed"
                                                                 "dual sim"
```

```
[5] "fc"
##
                        "four_g"
                                         "int_memory"
                                                         "m dep"
##
  [9] "mobile wt"
                                         "pc"
                        "n_cores"
                                                         "px_height"
## [13] "px width"
                        "ram"
                                         "sc h"
                                                         "sc w"
## [17] "talk_time"
                                                         "wifi"
                        "three_g"
                                         "touch_screen"
## attr(,"order")
## attr(,"intercept")
## [1] 1
## attr(, "response")
## [1] 1
## attr(,".Environment")
## <environment: R_GlobalEnv>
## attr(,"predvars")
## list(price_range, battery_power, blue, clock_speed, dual_sim,
##
       fc, four_g, int_memory, m_dep, mobile_wt, n_cores, pc, px_height,
##
       px_width, ram, sc_h, sc_w, talk_time, three_g, touch_screen,
##
       wifi)
  attr(,"dataClasses")
##
##
     price_range battery_power
                                                clock_speed
                                                                 dual_sim
                                        blue
##
        "factor"
                     "numeric"
                                    "numeric"
                                                  "numeric"
                                                                 "numeric"
##
              fc
                        four_g
                                  int_memory
                                                      m_dep
                                                                mobile_wt
##
       "numeric"
                     "numeric"
                                    "numeric"
                                                  "numeric"
                                                                "numeric"
##
         n_cores
                                    px_height
                                                   px_width
                            рс
                                                                       ram
##
       "numeric"
                                    "numeric"
                                                  "numeric"
                                                                 "numeric"
                     "numeric"
##
            sc h
                          sc w
                                    talk_time
                                                    three_g
                                                             touch_screen
##
       "numeric"
                     "numeric"
                                    "numeric"
                                                  "numeric"
                                                                "numeric"
##
            wifi
##
       "numeric"
##
## $call
## bagging(formula = price_range ~ ., data = data_train, mfinal = 10,
##
       control = rpart.control(maxdepth = 1))
##
## attr(,"vardep.summary")
        1 2
## 350 350 350 350
## attr(,"class")
## [1] "bagging"
data.predbagging <- predict.bagging(data.bagging, newdata = data_test)</pre>
data.predbagging
## $formula
## price_range ~ .
##
## $votes
##
          [,1] [,2] [,3] [,4]
                            5
##
     [1,]
                  0
                       4
             1
##
     [2,]
             0
                  0
                            6
##
     [3,]
                  0
                       0
                            0
            10
##
     [4,]
            10
                  0
                       0
                            0
                  0
                       4
                            6
##
     [5,]
             0
##
     [6,]
                  0
                       2
                            0
             8
##
     [7,]
                  0
                       4
                            6
             0
```

##	[8,]	0	0	4	6
##	[9,]	0	0	4	6
##	[10,]	1	0	4	5
##	[11,]	10	0	0	0
##	[12,]	10	0	0	0
##	[13,]	5	0	4	1
##	[14,]	0	0	4	6
##	[15,]	4	0	4	2
##	[16,]	0	0	4	6
##	[17,]	10	0	0	0
##	[18,]	0	0	4	6
##	[19,]	5	0	4	1
##	[20,]	4	0	4	2
##	[21,]	10	0	0	0
##	[22,]	9	0	1	0
##	[23,]	0	0	4	6
##	[24,]	0	0	4	6
##	[25,]	9	0	1	0
##	[26,]	10	0	0	0
##	[27,]	0	0	4	6
##	[28,]	1	0	4	5
##	[29,]	3	0	4	3
##	[30,]	0	0	4	6
##	[31,]	10	0	0	0
##	[32,]	10	0	0	0
##	[33,]	1	0	4	5
##	[34,]	0	0	4	6
##	[35,]	9	0	1	0
##	[36,]	0	0	4	6
##	[37,]	1	0	4	5
##	[38,]	3	0	4	3
##	[39,]	1	0	4	5
##	[40,]	1	0	4	5
##	[41,]	0	0	4	6
##	[42,]	4	0	4	2
##	[43,]	0	0	4	6
##	[44,]	5	0	4	1
##	[45,]	10	0	0	0
##	[46,]	10	0	0	0
##	[47,]	10	0	0	0
##	[48,]	10	0	0	0
##	[49,]	0	0	4	6
## ##	[50,]	5	0	4	1
##	[51,]	8	0	2	0
	[52,]	8	0	2	0
##	[53,]	0	0	4	6
## ##	[54,]	4 2	0	4	2
	[55,]	8	0	2	0
##	[56,]	0	0	4	6
##	[57,]	9	0	1	0
##	[58,]	0	0	4 1	6
##	[59,]	9			0
## ##	[60,] [61,]	0 1	0	4 4	6 5
##	[01,]	1	U	4	Э

##	[62,]	5	0	4	1
##	[63,]	10	0	0	0
##	[64,]	0	0	4	6
##	[65,]	10	0	0	0
##	[66,]	8	0	2	0
##	[67,]	10	0	0	0
##	[68,]	0	0	4	6
##	[69,]	10	0	0	0
##	[70,]	0	0	4	6
##	[71,]	1	0	4	5
##	[72,]	8	0	2	0
##	[73,]	3	0	4	3
## ##	[74,] [75,]	10 4	0	0 4	2
##		10	0	0	0
##	[76,]	0	0	4	6
##	[77,] [78,]	10	0	0	0
##	[79,]	10	0	0	0
##	[80,]	8	0	2	0
##	[81,]	10	0	0	0
##	[82,]	10	0	0	0
##	[83,]	3	0	4	3
##	[84,]	10	0	0	0
##	[85,]	0	0	4	6
##	[86,]	8	0	2	0
##	[87,]	4	0	4	2
##	[88,]	0	0	4	6
##	[89,]	0	0	4	6
##	[90,]	10	0	0	0
##	[91,]	0	0	4	6
##	[92,]	10	0	0	0
##	[93,]	10	0	0	0
##	[94,]	10	0	0	0
##	[95,]	10	0	0	0
##	[96,]	0	0	4	6
##	[97,]	9	0	1	0
##	[98,]	1	0	4	5
##	[99,]	0	0	4	6
##	[100,]	7	0	3	0
##	[101,]	0	0	4	6
##	[102,]	2	0	4	4
##	[103,]	10	0	0	0
##	[104,]	10	0	0	0
##	[105,]	10	0	0	0
##	[106,]	1	0	4	5
##	[107,]	10	0	0	0
##	[108,]	10	0	0	0
## ##	[109,] [110,]	1 0	0	4	5 6
##	[111,]	0	0	4	6
##	[112,]	0	0	4	6
##	[113,]	0	0	4	6
##	[114,]	0	0	4	6
##	[115,]	10	0	0	0
	,	10	v	J	J

##	[116,]	0	0	4	6
##	[117,]	0	0	4	6
##	[118,]	0	0	4	6
##	[119,]	0	0	4	6
##	[120,]	0	0	4	6
##	[121,]	4	0	4	2
##	[122,]	0	0	4	6
##	[123,]	8	0	2	0
##	[124,]	0	0	4	6
##	[125,]	10	0	0	0
##	[126,]	0	0	4	6
##	[127,]	10	0	0	0
##	[128,]	10	0	0	0
##	[129,]	10	0	0	0
##	[130,]	8	0	2	0
##	[131,]	0	0	4	6
##	[132,]	8	0	2	0
##	[133,]	4	0	4	2
##	[134,]	0	0	4	6
##	[135,]	10	0	0	0
##	[136,]	0	0	4	6
##	[137,]	2	0	4	4
##	[138,]	10	0	0	0
##	[139,]	0	0	4	6
##	[140,]	7	0	3	0
##	[141,]	10	0	0	0
##	[142,]	0	0	4	6
##	[143,]	0	0	4	6
##	[144,]	10	0	0	0
##	[145,] [146,]	0	0	4 4	6
## ##	[147,]	0 4	0	4	6
##	[148,]	10	0	0	2
##	[149,]	4	0	4	0 2
##	[150,]	0	0	4	6
##	[151,]	10	0	0	0
##	[151,]	7	0	3	0
##	[153,]	0	0	4	6
##	[154,]	10	0	0	0
##	[155,]	10	0	0	0
##	[156,]	8	0	2	0
##	[157,]	1	0	4	5
##	[158,]	0	0	4	6
##	[159,]	0	0	4	6
##	[160,]	1	0	4	5
##	[161,]	4	0	4	2
##	[162,]	7	0	3	0
##	[163,]	0	0	4	6
##	[164,]	8	0	2	0
##	[165,]	10	0	0	0
##	[166,]	3	0	4	3
##	[167,]	0	0	4	6
##	[168,]	10	0	0	0
##	[169,]	10	0	0	0

##	[170,]	0	0	4	6
##	[171,]	0	0	4	6
##	[172,]	10	0	0	0
##	[173,]	10	0	0	0
##	[174,]	10	0	0	0
##	[175,]	10	0	0	0
##	[176,]	0	0	4	6
##	[177,]	0	0	4	6
##	[178,]	0	0	4	6
##	[179,]	2	0	4	4
##	[180,]	5	0	4	1
##	[181,]	10	0	0	0
##	[182,]	9	0	1	0
##	[183,]	0	0	4	6
##	[184,]	0	0	4	6
##	[185,]	0	0	4	6
##	[186,]	1	0	4	5
##	[187,]	1	0	4	5
##	[188,]	9	0	1	0
##	[189,]	10	0	0	0
##	[190,]	0	0	4	6
##	[191,]	5	0	4	1
##	[192,]	8	0	2	0
##	[193,]	1	0	4	5
##	[194,]	8	0	2	0
##	[195,]	8	0	2	0
##	[196,]	10	0	0	0
##	[197,]	1	0	4	5
##	[198,]	10	0	0	0
##	[199,]	10	0	0	0
##	[200,]	0	0	4	6
##	[201,]	1	0	4	5
##	[202,]	10	0	0	0
##	[203,]	0	0	4	6
##	[204,]	4	0	4	2
##	[205,]	0	0	4	6
##	[206,]	8	0	2	0
##	[207,]	4	0	4	2
##	[208,]	7	0	3	0
##	[209,]	1	0	4	5
##	[210,]	10	0	0	0
##	[211,]	8	0	2	0
##	[212,]	10	0	0	0
##	[213,]	0	0	4	6
##	[214,]	4	0	4	2
##	[215,]	3	0	4	3
##	[216,]	10	0	0	0
##	[217,]	0	0	4	6
##	[218,]	1	0	4	5
##	[219,]	0	0	4	6
##	[220,]	10	0	0	0
##	[221,]	1	0	4	5
##	[222,]	0	0	4	6
##	[223,]	7	0	3	0

##	[224,]	10	0	0	0
##	[225,]	0	0	4	6
##	[226,]	8	0	2	0
##	[227,]	1	0	4	5
##	[228,]	8	0	2	0
##	[229,]	9	0	1	0
##	[230,]	0	0	4	6
##	[231,]	8	0	2	0
##	[232,]	1	0	4	5
##	[233,]	0	0	4	6
##	[234,]	10	0	0	0
##	[235,]	0	0	4	6
##	[236,]	0	0	4	6
##	[237,]	4	0	4	2
##	[238,]	10	0	0	0
##	[239,]	8	0	2	0
##	[240,]	5	0	4	1
##	[241,]	0 1	0	4	6 5
##	[242,] [243,]	0	0	4	6
##	[244,]	10	0	0	0
##	[245,]	8	0	2	0
##	[246,]	0	0	4	6
##	[247,]	10	0	0	0
##	[248,]	10	0	0	0
##	[249,]	10	0	0	0
##	[250,]	8	0	2	0
##	[251,]	5	0	4	1
##	[252,]	10	0	0	0
##	[253,]	0	0	4	6
##	[254,]	0	0	4	6
##	[255,]	7	0	3	0
##	[256,]	0	0	4	6
##	[257,]	8	0	2	0
##	[258,]	10	0	0	0
##	[259,]	0	0	4	6
##	[260,]	10	0	0	0
##	[261,]	0	0	4	6
##	[262,]	0	0	4	6
##	[263,]	7	0	3	0
##	[264,]	7	0	3	0
##	[265,]	0	0	4	6
##	[266,]	10	0	0	0
##	[267,]	0	0	4	6
##	[268,]	4	0	4	2
##	[269,]	5	0	4	1
##	[270,] [271,]	8	0	2	0
##	-	10	0	0	0
##	[272,] [273,]	10 10	0	0	0
## ##	[274,]	8	0	2	0
##	[275,]	10	0	0	0
##	[276,]	1	0	4	5
##	[277,]	0	0	4	6
	,,_	v	•	_	9

##	[278,]	8	0	2	0
##	[279,]	0	0	4	6
##	[280,]	10	0	0	0
##	[281,]	10	0	0	0
##	[282,]	5	0	4	1
##	[283,]	0	0	4	6
##	[284,]	0	0	4	6
##	[285,]	10	0	0	0
##	[286,]	0	0	4	6
##	[287,]	0	0	4	6
## ##	[288,] [289,]	10 8	0	2	0
##	[290,]	0	0	4	6
##	[291,]	10	0	0	0
##	[292,]	0	0	4	6
##	[293,]	7	0	3	0
##	[294,]	0	0	4	6
##	[295,]	10	0	0	0
##	[296,]	10	0	0	0
##	[297,]	0	0	4	6
##	[298,]	0	0	4	6
##	[299,]	10	0	0	0
##	[300,]	10	0	0	0
##	[301,]	0	0	4	6
##	[302,]	1	0	4	5
##	[303,]	0	0	4	6
##	[304,]	9	0	1	0
##	[305,]	0	0	4	6
##	[306,]	10	0	0	0
##	[307,]	7	0	3	0
##	[308,]	9	0	1	0
##	[309,]	1	0	4	5
##	[310,]	10	0	0	0
##	[311,]	5	0	4	1
##	[312,]	8	0	2	0
##	[313,]	0	0	4	6
##	[314,]	7	0	3	0
##	[315,]	7	0	3	0
##	[316,]	0	0	4	6
##	[317,]	0	0	4	6
##	[318,]	4	0	4	2
## ##	[319,] [320,]	0 10	0	4 0	6 0
##	[321,]	10	0	0	0
##	[322,]	8	0	2	0
##	[323,]	0	0	4	6
##	[324,]	7	0	3	0
##	[325,]	10	0	0	0
##	[326,]	9	0	1	0
##	[327,]	1	0	4	5
##	[328,]	8	0	2	0
##	[329,]	0	0	4	6
##	[330,]	7	0	3	0
##	[331,]	10	0	0	0
	. ,-				

##	[332,]	8	0	2	0
##	[333,]	10	0	0	0
##	[334,]	1	0	4	5
##	[335,]	1	0	4	5
##	[336,]	4	0	4	2
##	[337,]	0	0	4	6
##	[338,]	0	0	4	6
##	[339,]	8	0	2	0
##	[340,]	1	0	4	5
##	[341,]	0	0	4	6
##	[342,]	0	0	4	6
##	[343,]	1	0	4	5
##	[344,]	10	0	0	0
##	[345,]	1	0	4	5
##	[346,]	10	0	0	0
##	[347,]	0	0	4	6
##	[348,]	4	0	4	2
##	[349,]	8	0	2	0
##	[350,]	0	0	4	6
##	[351,]	1	0	4	5
##	[352,]	0	0	4	6
##	[353,]	0	0	4	6
##	[354,]	0	0	4	6
##	[355,]	0	0	4	6
##	[356,]	9	0	1	0
##	[357,]	0	0	4	6
##	[358,]	10	0	0	0
##	[359,]	0	0	4	6
##	[360,]	1	0	4	5
##	[361,]	1	0	4	5
##	[362,]	10	0	0	0
##	[363,]	0	0	4	6
##	[364,]	0	0	4	6
##	[365,]	8	0	2	0
##	[366,]	10	0	0	0
##	[367,]	0	0	4	6
##	[368,]	0	0	4	6
##	[369,]	5	0	4	1
##	[370,] [371,]	10 1	0	0 4	0
## ##	[372,]	8	0	2	5 0
##	[373,]	0	0	4	6
##	[374,]	0	0	4	6
##	[375,]	10	0	0	0
##	[376,]	0	0	4	6
##	[377,]	0	0	4	6
##	[378,]	10	0	0	0
##	[379,]	9	0	1	0
##	[380,]	10	0	0	0
##	[381,]	10	0	0	0
##	[382,]	0	0	4	6
##	[383,]	10	0	0	0
##	[384,]	0	0	4	6
##	[385,]	0	0	4	6
	,	·	•	-	•

##	[386,]	0	0	4	6
##	[387,]	7	0	3	0
##	[388,]	9	0	1	0
##	[389,]	3	0	4	3
##	[390,]	5	0	4	1
##	[391,]	10	0	0	0
##	[392,]	10	0	0	0
##	[393,]	0	0	4	6
##	[394,]	0	0	4	6
##	[395,]	10	0	0	0
##	[396,]	0	0	4	6
##	[397,]	0	0	4	6
##	[398,]	10	0	0	0
##	[399,]	8	0	2	0
## ##	[400,] [401,]	10	0	0	0
##	[401,]	10 0	0	0 4	0
##	[403,]	10	0	0	6 0
##	[404,]	0	0	4	6
##	[405,]	1	0	4	5
##	[406,]	10	0	0	0
##	[407,]	1	0	4	5
##	[408,]	4	0	4	2
##	[409,]	10	0	0	0
##	[410,]	0	0	4	6
##	[411,]	10	0	0	0
##	[412,]	0	0	4	6
##	[413,]	0	0	4	6
##	[414,]	9	0	1	0
##	[415,]	10	0	0	0
##	[416,]	8	0	2	0
##	[417,]	8	0	2	0
##	[418,]	10	0	0	0
##	[419,]	10	0	0	0
##	[420,]	10	0	0	0
##	[421,]	10	0	0	0
##	[422,]	0	0	4	6
##	[423,]	4	0	4	2
##	[424,] [425,]	10 10	0	0	0
## ##	[426,]	10	0	0	0
##	[427,]	10	0	0	0
##	[428,]	10	0	0	0
##	[429,]	1	0	4	5
##	[430,]	0	0	4	6
##	[431,]	10	0	0	0
##	[432,]	10	0	0	0
##	[433,]	0	0	4	6
##	[434,]	8	0	2	0
##	[435,]	10	0	0	0
##	[436,]	0	0	4	6
##	[437,]	10	0	0	0
##	[438,]	2	0	4	4
##	[439,]	10	0	0	0

##	[440,]	0	0	4	6
##	[441,]	8	0	2	0
##	[442,]	8	0	2	0
##	[443,]	1	0	4	5
##	[444,]	0	0	4	6
##	[445,]	0	0	4	6
##	[446,]	0	0	4	6
##	[447,]	4	0	4	2
##	[448,]	10	0	0	0
##	[449,]	0	0	4	6
##	[450,]	0	0	4	6
##	[451,]	0	0	4	6
##	[452,]	1	0	4	5
##	[453,]	0	0	4	6
##	[454,]	10	0	0	0
## ##	[455,]	10	0	0	0
##	[456,] [457,]	10	0	0	0
##	[457,] [458,]	10 3	0	0 4	0 3
##	[459,]	9	0	1	0
##	[460,]	4	0	4	2
##	[461,]	10	0	0	0
##	[462,]	0	0	4	6
##	[463,]	8	0	2	0
##	[464,]	1	0	4	5
##	[465,]	7	0	3	0
##	[466,]	7	0	3	0
##	[467,]	4	0	4	2
##	[468,]	8	0	2	0
##	[469,]	1	0	4	5
##	[470,]	8	0	2	0
##	[471,]	10	0	0	0
##	[472,]	7	0	3	0
##	[473,]	1	0	4	5
##	[474,]	0	0	4	6
##	[475,]	0	0	4	6
##	[476,]	10	0	0	0
##	[477,]	0	0	4	6
##	[478,]	0	0	4	6
##	[479,]	0	0	4	6
##	[480,]	3	0	4	3
##	[481,]	10	0	0	0
##	[482,]	0	0	4	6
##	[483,]	8	0	2	0
##	[484,]	0	0	4	6
##	[485,]	10	0	0	0
##	[486,] [487,]	0	0	4 2	6 0
## ##	[488,]	8 10	0	0	0
##	[489,]	8	0	2	0
##	[490,]	0	0	4	6
##	[491,]	10	0	0	0
##	[492,]	8	0	2	0
##	[493,]	7	0	3	0
	, _	•	•	•	•

##	[494,]	8	0	2	0
##	[495,]	0	0	4	6
##	[496,]	0	0	4	6
##	[497,]	9	0	1	0
##	[498,]	1	0	4	5
##	[499,]	10	0	0	0
##	[500,]	10	0	0	0
##	[501,]	10	0	0	0
##	[502,]	1	0	4	5
##	[503,]	10	0	0	0
##	[504,]	4	0	4	2
##	[505,]	10	0	0	0
##	[506,]	10	0	0	0
##	[507,]	8	0	2	0
##	[508,]	8	0	2	0
##	[509,]	9	0	1	0
##	[510,]	10	0	0	0
##	[511,]	10	0	0	0
##	[512,]	10	0	0	0
##	[513,]	10	0	0	0
##	[514,]	1	0	4	5
##	[515,]	8	0	2	0
##	[516,]	8	0	2	0
##	[517,]	10	0	0	0
##	[518,]	0	0	4	6
##	[519,]	10	0	0	0
##	[520,]	0	0	4	6
##	[521,]	0	0	4	6
##	[522,]	3	0	4	3
##	[523,]	10	0	0	0
##	[524,]	0 4	0	4 4	6
## ##	[525,] [526,]	0	0	4	2 6
##	[527,]	8	0	2	0
##	[528,]	0	0	4	6
##	[529,]	10	0	0	0
##	[530,]	0	0	4	6
##	[531,]	5	0	4	1
##	[532,]	0	0	4	6
##	[533,]	10	0	0	0
##	[534,]	0	0	4	6
##	[535,]	8	0	2	0
##	[536,]	0	0	4	6
##	[537,]	10	0	0	0
##	[538,]	0	0	4	6
##	[539,]	0	0	4	6
##	[540,]	10	0	0	0
##	[541,]	1	0	4	5
##	[542,]	7	0	3	0
##	[543,]	10	0	0	0
##	[544,]	10	0	0	0
##	[545,]	0	0	4	6
##	[546,]	1	0	4	5
##	[547,]	0	0	4	6

шш	[[40]	10	0	^	^
##	[548,]	10	0	0	0
##	[549,]	10	0	0	0
##	[550,]	1	0	4	5
##	[551,]	10	0	0	0
##	[552,]	0	0	4	6
##	[553,]	10	0	0	0
##	[554,]	0	0	4	6
##	[555,]	10	0	0	0
##	[556,]	1	0	4	5
##	[557,]	7	0	3	0
##	[558,]	0	0	4	6
##	[559,]	0	0	4	6
##	[560,]	3	0	4	3
##	[561,]	0	0	4	6
##	[562,]	8	0	2	0
##	[563,]	8	0	2	0
##	[564,]	8	0	2	0
##	[565,]	10	0	0	0
##	[566,]	1	0	4	5
##	[567,]	8	0	2	0
##	[568,]	10	0	0	0
##	[569,]	0	0	4	6
##	[570,]	0	0	4	6
##	[571,]	8	0	2	0
##	[572,]	3	0	4	3
##	[573,]	1	0	4	5
##	[574,]	10	0	0	0
##	[575,]	1	0	4	5
##	[576,]	8	0	2	0
##	[577,]	9	0	1	0
##	[578,]	0	0	4	6
##	[579,]	8	0	2	0
##	[580,]	0	0	4	6
##	[581,]	0	0	4	6
##	[582,]	1	0	4	5
##	[583,]	0	0	4	6
##	[584,]	10	0	0	0
##	[585,]	10	0	0	0
##	[586,]	8	0	2	0
##	[587,]	10	0	0	0
##	[588,]	0	0	4	6
##	[589,]	0	0	4	6
##	[590,]	1	0	4	5
##	[591,]	8	0	2	0
##	[592,]	1	0	4	5
##	[593,]	10	0	0	0
##	[594,]	10	0	0	0
##	[595,]	10	0	0	0
##	[596,]	0	0	4	6
##	[597,]	8	0	2	0
##	[598,]	10	0	0	0
##	[599,]	10	0	0	0
##	[600,]	0	0	4	6
##	[000,]	O	J	I	0
ππ					

```
## $prob
##
           [,1] [,2] [,3] [,4]
##
     [1,]
           0.1
                    0 0.4 0.5
##
     [2,]
            0.0
                       0.4
                            0.6
                    0
##
     [3,]
            1.0
                    0
                       0.0
                            0.0
##
     [4,]
            1.0
                    0
                       0.0
                            0.0
##
     [5,]
            0.0
                    0
                       0.4
                            0.6
            0.8
##
     [6,]
                       0.2
                            0.0
                    0
            0.0
##
     [7,]
                    0
                       0.4
                            0.6
##
     [8,]
            0.0
                       0.4
                            0.6
                    0
##
     [9,]
            0.0
                    0
                       0.4
                            0.6
##
    [10,]
            0.1
                    0
                       0.4
                            0.5
                            0.0
##
    [11,]
            1.0
                    0
                       0.0
##
    [12,]
                       0.0
                            0.0
            1.0
                    0
##
    [13,]
            0.5
                    0
                       0.4
                            0.1
##
    [14,]
            0.0
                    0
                       0.4
                            0.6
##
    [15,]
            0.4
                    0
                       0.4
                            0.2
##
    [16,]
            0.0
                    0
                       0.4
                            0.6
##
    [17,]
            1.0
                       0.0
                            0.0
                    0
##
    [18,]
            0.0
                    0
                       0.4
                            0.6
##
    [19,]
            0.5
                    0
                       0.4
                            0.1
##
    [20,]
            0.4
                    0
                       0.4
                            0.2
                            0.0
##
    [21,]
            1.0
                    0
                       0.0
##
    [22,]
            0.9
                    0
                       0.1
                            0.0
            0.0
##
    [23,]
                       0.4
                            0.6
                    0
##
    [24,]
            0.0
                    0
                       0.4
                            0.6
##
    [25,]
            0.9
                    0
                       0.1
                            0.0
##
    [26,]
            1.0
                    0
                       0.0
                            0.0
##
    [27,]
            0.0
                    0
                       0.4
                            0.6
                            0.5
    [28,]
                       0.4
##
            0.1
                    0
##
    [29,]
            0.3
                    0
                       0.4
                            0.3
##
    [30,]
            0.0
                    0
                       0.4
                            0.6
                            0.0
##
    [31,]
            1.0
                    0
                       0.0
##
    [32,]
            1.0
                    0
                       0.0
                            0.0
##
    [33,]
            0.1
                    0
                       0.4
                            0.5
##
    [34,]
            0.0
                    0
                       0.4
                            0.6
##
    [35,]
            0.9
                    0
                       0.1
                            0.0
##
    [36,]
            0.0
                    0
                       0.4
                            0.6
##
    [37,]
            0.1
                    0
                       0.4
                            0.5
                       0.4
                            0.3
##
    [38,]
            0.3
                    0
##
    [39,]
            0.1
                    0
                       0.4
                            0.5
##
    [40,]
            0.1
                    0
                       0.4
                            0.5
##
    [41,]
            0.0
                    0
                       0.4
                            0.6
##
    [42,]
                    0
                       0.4
                            0.2
            0.4
##
    [43,]
            0.0
                    0
                       0.4
                            0.6
    [44,]
                       0.4
                            0.1
##
            0.5
                    0
    [45,]
                       0.0
                            0.0
##
            1.0
                    0
##
    [46,]
            1.0
                       0.0
                            0.0
                    0
##
    [47,]
            1.0
                    0
                       0.0
                            0.0
    [48,]
##
            1.0
                    0
                       0.0
                            0.0
##
    [49,]
            0.0
                    0
                       0.4
                            0.6
##
                       0.4
    [50,]
            0.5
                    0
                            0.1
##
    [51,]
            0.8
                    0
                       0.2
                            0.0
    [52,]
                    0 0.2 0.0
##
            0.8
```

```
0.4
##
    [53,]
            0.0
                    0
                             0.6
##
    [54,]
            0.4
                    0
                        0.4
                             0.2
    [55,]
##
            0.8
                    0
                        0.2
                             0.0
            0.0
                        0.4
                             0.6
##
    [56,]
                    0
##
    [57,]
            0.9
                    0
                        0.1
                             0.0
##
    [58,]
            0.0
                    0
                        0.4
                             0.6
##
    [59,]
            0.9
                    0
                        0.1
                             0.0
                             0.6
    [60,]
                        0.4
##
            0.0
                    0
            0.1
##
    [61,]
                    0
                        0.4
                             0.5
##
                        0.4
    [62,]
            0.5
                    0
                             0.1
##
    [63,]
            1.0
                    0
                        0.0
                             0.0
##
    [64,]
            0.0
                    0
                        0.4
                             0.6
##
    [65,]
            1.0
                    0
                        0.0
                             0.0
##
    [66,]
                        0.2
                             0.0
            0.8
                    0
##
    [67,]
            1.0
                    0
                        0.0
                             0.0
##
    [68,]
            0.0
                    0
                        0.4
                             0.6
##
    [69,]
                    0
                        0.0
                             0.0
            1.0
##
    [70,]
            0.0
                    0
                        0.4
                             0.6
##
    [71,]
            0.1
                        0.4
                             0.5
                    0
##
    [72,]
            0.8
                    0
                        0.2
                             0.0
##
    [73,]
            0.3
                    0
                        0.4
                             0.3
##
    [74,]
            1.0
                    0
                        0.0
                             0.0
    [75,]
##
            0.4
                    0
                        0.4
                             0.2
##
    [76,]
            1.0
                    0
                        0.0
                             0.0
##
                        0.4
                             0.6
    [77,]
            0.0
                    0
##
    [78,]
            1.0
                    0
                        0.0
                             0.0
##
    [79,]
            1.0
                    0
                        0.0
                             0.0
##
    [80,]
            0.8
                    0
                        0.2
                             0.0
##
    [81,]
            1.0
                    0
                        0.0
                             0.0
    [82,]
                        0.0
                             0.0
##
            1.0
                    0
##
    [83,]
            0.3
                    0
                        0.4
                             0.3
##
    [84,]
            1.0
                    0
                        0.0
                             0.0
                             0.6
##
    [85,]
            0.0
                    0
                        0.4
##
    [86,]
            0.8
                        0.2
                             0.0
                    0
##
    [87,]
            0.4
                    0
                        0.4
                             0.2
##
    [88,]
            0.0
                    0
                        0.4
                             0.6
##
    [89,]
            0.0
                    0
                        0.4
                             0.6
##
    [90,]
            1.0
                    0
                        0.0
                             0.0
##
    [91,]
            0.0
                    0
                        0.4
                             0.6
##
    [92,]
            1.0
                    0
                        0.0
                             0.0
##
    [93,]
            1.0
                    0
                        0.0
                             0.0
                        0.0
##
    [94,]
            1.0
                    0
                             0.0
##
    [95,]
            1.0
                    0
                        0.0
                             0.0
##
                        0.4
    [96,]
            0.0
                    0
                             0.6
##
    [97,]
            0.9
                    0
                        0.1
                             0.0
    [98,]
                        0.4
##
            0.1
                    0
                             0.5
    [99,]
                             0.6
##
            0.0
                    0
                        0.4
## [100,]
                        0.3
                             0.0
            0.7
                    0
## [101,]
            0.0
                    0
                        0.4
                             0.6
## [102,]
            0.2
                    0
                        0.4
                             0.4
## [103,]
            1.0
                    0
                        0.0
                             0.0
## [104,]
            1.0
                    0
                        0.0
                             0.0
                             0.0
## [105,]
            1.0
                    0
                        0.0
## [106,]
            0.1
                        0.4 0.5
```

```
## [107,]
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            1.0
                   0
                            0.0
## [108,]
            1.0
                   0
                       0.0
                            0.0
## [109,]
            0.1
                       0.4
                            0.5
## [110,]
            0.0
                       0.4
                   0
                            0.6
## [111,]
            0.0
                   0
                       0.4
                            0.6
## [112,]
            0.0
                   0
                       0.4
                            0.6
## [113,]
            0.0
                   0
                       0.4
                            0.6
## [114,]
                       0.4
            0.0
                   0
                            0.6
## [115,]
            1.0
                   0
                       0.0
                            0.0
## [116,]
                       0.4
                            0.6
            0.0
                    0
## [117,]
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                       0.4
                            0.6
## [118,]
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                   0
                       0.4
                            0.6
## [119,]
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                            0.6
## [120,]
                       0.4
                            0.6
            0.0
                   0
## [121,]
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                   0
                       0.4
                            0.2
## [122,]
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                   0
                       0.4
                            0.6
## [123,]
            0.8
                   0
                       0.2
                            0.0
## [124,]
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                   0
                       0.4
                            0.6
## [125,]
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                       0.0
                            0.0
                   0
## [126,]
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                   0
                       0.4
                            0.6
                            0.0
## [127,]
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                   0
                       0.0
## [128,]
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                   0
                       0.0
                            0.0
## [129,]
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            1.0
                   0
                            0.0
## [130,]
            0.8
                   0
                       0.2
                            0.0
## [131,]
                       0.4
                            0.6
            0.0
                   0
## [132,]
            0.8
                   0
                       0.2
                            0.0
## [133,]
            0.4
                   0
                       0.4
                            0.2
## [134,]
            0.0
                   0
                       0.4
                            0.6
## [135,]
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                   0
                       0.0
                            0.0
## [136,]
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            0.0
                   0
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## [137,]
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                       0.4
                            0.4
## [138,]
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                   0
                       0.0
                            0.0
## [139,]
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                   0
                       0.4
                            0.6
## [140,]
            0.7
                       0.3
                            0.0
                   0
## [141,]
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                   0
                       0.0
                            0.0
## [142,]
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                   0
                       0.4
                            0.6
## [143,]
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                       0.4
                            0.6
## [144,]
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## [145,]
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                            0.6
## [146,]
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                            0.6
            0.4
## [147,]
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                       0.4
                            0.2
## [148,]
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                       0.0
                            0.0
## [149,]
            0.4
                   0
                       0.4
                            0.2
## [150,]
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            0.0
                   0
                            0.6
## [151,]
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                       0.0
                            0.0
            1.0
## [152,]
                       0.3
            0.7
                   0
                            0.0
## [153,]
            0.0
                   0
                       0.4
                            0.6
## [154,]
                       0.0
                            0.0
            1.0
                   0
## [155,]
            1.0
                   0
                       0.0
                            0.0
## [156,]
            0.8
                   0
                       0.2
                            0.0
## [157,]
            0.1
                   0
                       0.4
                            0.5
## [158,]
                       0.4
            0.0
                   0
                            0.6
## [159,]
            0.0
                   0
                       0.4
                            0.6
## [160,]
            0.1
                       0.4 0.5
```

```
## [161,]
                       0.4
                            0.2
            0.4
                   0
## [162,]
                       0.3
                            0.0
            0.7
                   0
## [163,]
            0.0
                       0.4
                            0.6
## [164,]
                       0.2
                            0.0
            0.8
                   0
## [165,]
            1.0
                   0
                       0.0
                            0.0
## [166,]
            0.3
                   0
                       0.4
                            0.3
            0.0
## [167,]
                   0
                       0.4
                            0.6
## [168,]
                       0.0
                            0.0
            1.0
                   0
## [169,]
            1.0
                   0
                       0.0
                            0.0
## [170,]
                       0.4
                            0.6
            0.0
                   0
## [171,]
            0.0
                   0
                       0.4
                            0.6
## [172,]
            1.0
                   0
                       0.0
                            0.0
## [173,]
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                   0
                       0.0
                            0.0
## [174,]
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                            0.0
            1.0
                   0
## [175,]
            1.0
                   0
                       0.0
                            0.0
## [176,]
            0.0
                   0
                       0.4
                            0.6
## [177,]
                   0
                       0.4
                            0.6
            0.0
## [178,]
            0.0
                   0
                       0.4
                            0.6
## [179,]
            0.2
                       0.4
                            0.4
                   0
## [180,]
            0.5
                   0
                       0.4
                            0.1
## [181,]
            1.0
                   0
                       0.0
                            0.0
## [182,]
            0.9
                   0
                       0.1
                            0.0
                       0.4
## [183,]
            0.0
                   0
                            0.6
## [184,]
            0.0
                   0
                       0.4
                            0.6
## [185,]
                       0.4
                            0.6
            0.0
                   0
## [186,]
            0.1
                   0
                       0.4
                            0.5
## [187,]
            0.1
                   0
                       0.4
                            0.5
## [188,]
            0.9
                   0
                       0.1
                            0.0
## [189,]
            1.0
                   0
                       0.0
                            0.0
## [190,]
                       0.4
            0.0
                   0
                            0.6
## [191,]
            0.5
                   0
                       0.4
                            0.1
## [192,]
            0.8
                   0
                       0.2
                            0.0
                            0.5
## [193,]
            0.1
                   0
                       0.4
## [194,]
            0.8
                       0.2
                            0.0
                   0
## [195,]
            0.8
                   0
                       0.2
                            0.0
## [196,]
                   0
                       0.0
                            0.0
            1.0
## [197,]
            0.1
                   0
                       0.4
                            0.5
## [198,]
            1.0
                   0
                       0.0
                            0.0
## [199,]
            1.0
                   0
                       0.0
                            0.0
## [200,]
            0.0
                   0
                       0.4
                            0.6
## [201,]
            0.1
                   0
                       0.4
                            0.5
                       0.0
## [202,]
            1.0
                   0
                            0.0
## [203,]
            0.0
                   0
                       0.4
                            0.6
## [204,]
                       0.4
            0.4
                   0
                            0.2
## [205,]
                   0
                       0.4
                            0.6
            0.0
## [206,]
                       0.2
                            0.0
            0.8
                   0
## [207,]
                            0.2
            0.4
                   0
                       0.4
## [208,]
                       0.3
                            0.0
            0.7
                   0
## [209,]
            0.1
                   0
                       0.4
                            0.5
## [210,]
            1.0
                   0
                       0.0
                            0.0
## [211,]
            0.8
                   0
                       0.2
                            0.0
## [212,]
                       0.0
            1.0
                   0
                            0.0
## [213,]
            0.0
                   0
                       0.4
                            0.6
## [214,]
           0.4
                       0.4 0.2
```

```
## [215,]
                   0 0.4
            0.3
                            0.3
## [216,]
                       0.0
                            0.0
            1.0
                   0
## [217,]
            0.0
                   0
                       0.4
                            0.6
## [218,]
                       0.4
            0.1
                   0
                            0.5
## [219,]
            0.0
                   0
                       0.4
                            0.6
## [220,]
                   0
                       0.0
                            0.0
            1.0
## [221,]
            0.1
                   0
                       0.4
                            0.5
## [222,]
                       0.4
            0.0
                   0
                            0.6
## [223,]
            0.7
                   0
                       0.3
                            0.0
## [224,]
            1.0
                   0
                       0.0
                            0.0
## [225,]
            0.0
                   0
                       0.4
                            0.6
## [226,]
            0.8
                   0
                       0.2
                            0.0
## [227,]
            0.1
                   0
                       0.4
                            0.5
## [228,]
                       0.2
                            0.0
            0.8
                   0
## [229,]
            0.9
                   0
                       0.1
                            0.0
## [230,]
            0.0
                   0
                       0.4
                            0.6
## [231,]
                   0
                       0.2
                            0.0
            0.8
## [232,]
            0.1
                   0
                       0.4
                            0.5
## [233,]
            0.0
                       0.4
                            0.6
                   0
## [234,]
            1.0
                   0
                       0.0
                            0.0
## [235,]
            0.0
                   0
                       0.4
                            0.6
## [236,]
            0.0
                   0
                       0.4
                            0.6
## [237,]
            0.4
                   0
                       0.4
                            0.2
## [238,]
            1.0
                   0
                       0.0
                            0.0
## [239,]
                       0.2
            0.8
                   0
                            0.0
                       0.4
## [240,]
            0.5
                   0
                            0.1
## [241,]
            0.0
                   0
                       0.4
                            0.6
## [242,]
                   0
                       0.4
                            0.5
            0.1
## [243,]
            0.0
                   0
                       0.4
                            0.6
## [244,]
                       0.0
            1.0
                   0
                            0.0
## [245,]
            0.8
                   0
                       0.2
                            0.0
## [246,]
            0.0
                   0
                       0.4
                            0.6
## [247,]
            1.0
                   0
                       0.0
                            0.0
## [248,]
            1.0
                       0.0
                            0.0
                   0
## [249,]
            1.0
                   0
                       0.0
                            0.0
## [250,]
            0.8
                   0
                       0.2
                            0.0
## [251,]
            0.5
                   0
                       0.4
                            0.1
## [252,]
            1.0
                   0
                       0.0
                            0.0
## [253,]
            0.0
                   0
                       0.4
                            0.6
## [254,]
                   0
                       0.4
                            0.6
            0.0
## [255,]
            0.7
                       0.3
                            0.0
                   0
## [256,]
            0.0
                   0
                       0.4
                            0.6
## [257,]
                   0
                       0.2
                            0.0
            0.8
## [258,]
            1.0
                   0
                       0.0
                            0.0
## [259,]
                   0
                       0.4
                            0.6
            0.0
## [260,]
                       0.0
            1.0
                   0
                            0.0
## [261,]
            0.0
                   0
                       0.4
                            0.6
## [262,]
                       0.4
                            0.6
            0.0
                   0
## [263,]
            0.7
                   0
                       0.3
                            0.0
## [264,]
            0.7
                   0
                       0.3
                            0.0
## [265,]
            0.0
                   0
                       0.4
                            0.6
                       0.0
## [266,]
            1.0
                   0
                            0.0
                            0.6
## [267,]
            0.0
                   0
                       0.4
## [268,]
            0.4
                       0.4 0.2
```

```
## [269,]
            0.5
                   0
                       0.4
                            0.1
## [270,]
            0.8
                       0.2
                            0.0
                   0
## [271,]
            1.0
                   0
                       0.0
                            0.0
## [272,]
                       0.0
            1.0
                   0
                            0.0
## [273,]
            1.0
                   0
                       0.0
                            0.0
## [274,]
            0.8
                   0
                       0.2
                            0.0
## [275,]
                   0
                       0.0
                            0.0
            1.0
## [276,]
                       0.4
            0.1
                   0
                            0.5
## [277,]
            0.0
                   0
                       0.4
                            0.6
## [278,]
                       0.2
            0.8
                    0
                            0.0
## [279,]
            0.0
                   0
                       0.4
                            0.6
## [280,]
                            0.0
            1.0
                   0
                       0.0
## [281,]
            1.0
                   0
                       0.0
                            0.0
## [282,]
            0.5
                   0
                       0.4
                            0.1
## [283,]
            0.0
                   0
                       0.4
                            0.6
## [284,]
            0.0
                   0
                       0.4
                            0.6
## [285,]
                   0
                       0.0
                            0.0
            1.0
## [286,]
            0.0
                   0
                       0.4
                            0.6
## [287,]
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                       0.4
                            0.6
                   0
## [288,]
            1.0
                   0
                       0.0
                            0.0
                            0.0
## [289,]
            0.8
                   0
                       0.2
## [290,]
            0.0
                   0
                       0.4
                            0.6
## [291,]
            1.0
                   0
                       0.0
                            0.0
## [292,]
            0.0
                   0
                       0.4
                            0.6
## [293,]
                       0.3
            0.7
                   0
                            0.0
## [294,]
            0.0
                   0
                       0.4
                            0.6
## [295,]
            1.0
                   0
                       0.0
                            0.0
## [296,]
                   0
                       0.0
                            0.0
            1.0
## [297,]
            0.0
                   0
                       0.4
                            0.6
## [298,]
            0.0
                   0
                       0.4
                            0.6
## [299,]
            1.0
                   0
                       0.0
                            0.0
## [300,]
            1.0
                   0
                       0.0
                            0.0
## [301,]
            0.0
                   0
                       0.4
                            0.6
## [302,]
            0.1
                       0.4
                            0.5
                   0
## [303,]
            0.0
                   0
                       0.4
                            0.6
## [304,]
            0.9
                   0
                       0.1
                            0.0
## [305,]
            0.0
                   0
                       0.4
                            0.6
## [306,]
            1.0
                   0
                       0.0
                            0.0
## [307,]
            0.7
                   0
                       0.3
                            0.0
## [308,]
            0.9
                   0
                       0.1
                            0.0
## [309,]
            0.1
                   0
                       0.4
                            0.5
## [310,]
            1.0
                   0
                       0.0
                            0.0
## [311,]
                   0
                       0.4
            0.5
                            0.1
                       0.2
## [312,]
            0.8
                   0
                            0.0
## [313,]
                   0
                       0.4
                            0.6
            0.0
## [314,]
                       0.3
            0.7
                   0
                            0.0
## [315,]
            0.7
                   0
                       0.3
                            0.0
## [316,]
                            0.6
            0.0
                   0
                       0.4
## [317,]
            0.0
                   0
                       0.4
                            0.6
## [318,]
            0.4
                   0
                       0.4
                            0.2
## [319,]
            0.0
                   0
                       0.4
                            0.6
                       0.0
## [320,]
            1.0
                   0
                            0.0
## [321,]
            1.0
                   0
                       0.0
                            0.0
## [322,]
           0.8
                       0.2 0.0
```

```
## [323,]
            0.0
                   0
                       0.4
                            0.6
## [324,]
                       0.3
                            0.0
            0.7
                   0
## [325,]
            1.0
                   0
                       0.0
                            0.0
## [326,]
            0.9
                   0
                       0.1
                            0.0
## [327,]
            0.1
                   0
                       0.4
                            0.5
## [328,]
            0.8
                   0
                       0.2
                            0.0
            0.0
## [329,]
                   0
                       0.4
                            0.6
## [330,]
                       0.3
            0.7
                   0
                            0.0
## [331,]
            1.0
                   0
                       0.0
                            0.0
## [332,]
            0.8
                   0
                       0.2
                            0.0
## [333,]
            1.0
                   0
                       0.0
                            0.0
## [334,]
            0.1
                   0
                       0.4
                            0.5
## [335,]
            0.1
                   0
                       0.4
                            0.5
## [336,]
                       0.4
            0.4
                   0
                            0.2
## [337,]
            0.0
                   0
                       0.4
                            0.6
## [338,]
            0.0
                   0
                       0.4
                            0.6
## [339,]
                   0
                       0.2
                            0.0
            0.8
## [340,]
            0.1
                   0
                       0.4
                            0.5
## [341,]
            0.0
                       0.4
                            0.6
                   0
## [342,]
            0.0
                   0
                       0.4
                            0.6
## [343,]
            0.1
                   0
                       0.4
                            0.5
## [344,]
            1.0
                   0
                       0.0
                            0.0
## [345,]
            0.1
                   0
                       0.4
                            0.5
## [346,]
            1.0
                   0
                       0.0
                            0.0
## [347,]
            0.0
                   0
                       0.4
                            0.6
                       0.4
                            0.2
## [348,]
            0.4
                   0
## [349,]
            0.8
                   0
                       0.2
                            0.0
## [350,]
                   0
                       0.4
                            0.6
            0.0
## [351,]
            0.1
                   0
                       0.4
                            0.5
## [352,]
            0.0
                   0
                       0.4
                            0.6
## [353,]
            0.0
                   0
                       0.4
                            0.6
## [354,]
            0.0
                   0
                       0.4
                            0.6
## [355,]
            0.0
                   0
                       0.4
                            0.6
## [356,]
            0.9
                       0.1
                            0.0
                   0
## [357,]
            0.0
                   0
                       0.4
                            0.6
## [358,]
                   0
                       0.0
                            0.0
            1.0
## [359,]
            0.0
                   0
                       0.4
                            0.6
## [360,]
            0.1
                   0
                       0.4
                            0.5
## [361,]
            0.1
                   0
                       0.4
                            0.5
## [362,]
                   0
                       0.0
                            0.0
            1.0
            0.0
## [363,]
                   0
                       0.4
                            0.6
## [364,]
            0.0
                   0
                       0.4
                            0.6
## [365,]
                   0
                       0.2
                            0.0
            0.8
## [366,]
            1.0
                   0
                       0.0
                            0.0
## [367,]
                   0
                       0.4
                            0.6
            0.0
                       0.4
## [368,]
            0.0
                   0
                            0.6
## [369,]
            0.5
                   0
                       0.4
                            0.1
## [370,]
                       0.0
                            0.0
            1.0
                   0
## [371,]
            0.1
                   0
                       0.4
                            0.5
## [372,]
            0.8
                   0
                       0.2
                            0.0
## [373,]
            0.0
                   0
                       0.4
                            0.6
## [374,]
            0.0
                   0
                       0.4
                            0.6
## [375,]
            1.0
                   0
                       0.0
                            0.0
## [376,]
           0.0
                       0.4 0.6
```

```
## [377,]
                       0.4
            0.0
                   0
                            0.6
## [378,]
                       0.0
                            0.0
            1.0
                   0
## [379,]
            0.9
                   0
                       0.1
                            0.0
## [380,]
                       0.0
            1.0
                   0
                            0.0
## [381,]
            1.0
                   0
                       0.0
                            0.0
## [382,]
            0.0
                   0
                       0.4
                            0.6
## [383,]
                   0
                       0.0
                            0.0
            1.0
## [384,]
                       0.4
            0.0
                   0
                            0.6
## [385,]
            0.0
                   0
                       0.4
                            0.6
## [386,]
                       0.4
            0.0
                    0
                            0.6
## [387,]
            0.7
                   0
                       0.3
                            0.0
## [388,]
                       0.1
            0.9
                   0
                            0.0
## [389,]
            0.3
                   0
                       0.4
                            0.3
## [390,]
                       0.4
                            0.1
            0.5
                   0
## [391,]
            1.0
                   0
                       0.0
                            0.0
## [392,]
            1.0
                   0
                       0.0
                            0.0
## [393,]
                   0
                       0.4
                            0.6
            0.0
## [394,]
            0.0
                   0
                       0.4
                            0.6
## [395,]
            1.0
                       0.0
                            0.0
                   0
## [396,]
            0.0
                   0
                       0.4
                            0.6
                            0.6
## [397,]
            0.0
                   0
                       0.4
## [398,]
            1.0
                   0
                       0.0
                            0.0
## [399,]
            0.8
                   0
                       0.2
                            0.0
## [400,]
            1.0
                   0
                       0.0
                            0.0
                       0.0
## [401,]
            1.0
                   0
                            0.0
                       0.4
                            0.6
## [402,]
            0.0
                   0
## [403,]
            1.0
                   0
                       0.0
                            0.0
## [404,]
            0.0
                   0
                       0.4
                            0.6
## [405,]
            0.1
                   0
                       0.4
                            0.5
## [406,]
                       0.0
            1.0
                   0
                            0.0
## [407,]
            0.1
                   0
                       0.4
                            0.5
## [408,]
            0.4
                   0
                       0.4
                            0.2
## [409,]
            1.0
                   0
                       0.0
                            0.0
## [410,]
            0.0
                       0.4
                            0.6
                   0
## [411,]
            1.0
                   0
                       0.0
                            0.0
## [412,]
            0.0
                   0
                       0.4
                            0.6
## [413,]
            0.0
                   0
                       0.4
                            0.6
## [414,]
            0.9
                   0
                       0.1
                            0.0
## [415,]
            1.0
                   0
                       0.0
                            0.0
## [416,]
            0.8
                   0
                       0.2
                            0.0
## [417,]
            0.8
                   0
                       0.2
                            0.0
## [418,]
            1.0
                   0
                       0.0
                            0.0
## [419,]
                   0
                       0.0
                            0.0
            1.0
## [420,]
            1.0
                   0
                       0.0
                            0.0
## [421,]
                   0
                       0.0
                            0.0
            1.0
## [422,]
                       0.4
            0.0
                   0
                            0.6
## [423,]
            0.4
                   0
                       0.4
                            0.2
## [424,]
                       0.0
                            0.0
            1.0
                   0
## [425,]
            1.0
                   0
                       0.0
                            0.0
## [426,]
            1.0
                   0
                       0.0
                            0.0
## [427,]
            1.0
                   0
                       0.0
                            0.0
## [428,]
            1.0
                   0
                       0.0
                            0.0
## [429,]
            0.1
                   0
                       0.4
                            0.5
## [430,]
           0.0
                       0.4 0.6
```

```
0.0
## [431,]
           1.0
                            0.0
## [432,]
                      0.0
                            0.0
           1.0
                   0
## [433,]
           0.0
                   0
                      0.4
                            0.6
## [434,]
                      0.2
           0.8
                   0
                            0.0
## [435,]
           1.0
                   0
                      0.0
                            0.0
## [436,]
           0.0
                   0
                      0.4
                            0.6
## [437,]
                   0
                      0.0
                            0.0
            1.0
## [438,]
                      0.4
           0.2
                   0
                            0.4
## [439,]
           1.0
                   0
                      0.0
                            0.0
## [440,]
           0.0
                   0
                      0.4
                            0.6
## [441,]
           0.8
                   0
                      0.2
                            0.0
## [442,]
           0.8
                   0
                      0.2
                            0.0
## [443,]
           0.1
                   0
                      0.4
                            0.5
## [444,]
                      0.4
           0.0
                   0
                            0.6
## [445,]
           0.0
                   0
                      0.4
                            0.6
## [446,]
           0.0
                   0
                      0.4
                            0.6
## [447,]
                   0
                      0.4
                            0.2
           0.4
## [448,]
           1.0
                   0
                      0.0
                            0.0
## [449,]
           0.0
                      0.4
                            0.6
                   0
## [450,]
           0.0
                   0
                      0.4
                            0.6
## [451,]
           0.0
                   0
                      0.4
                            0.6
## [452,]
           0.1
                   0
                      0.4
                            0.5
## [453,]
           0.0
                   0
                      0.4
                            0.6
## [454,]
           1.0
                   0
                      0.0
                            0.0
## [455,]
                      0.0
            1.0
                   0
                            0.0
                      0.0
## [456,]
           1.0
                   0
                            0.0
## [457,]
            1.0
                   0
                      0.0
                            0.0
## [458,]
           0.3
                   0
                      0.4
                            0.3
## [459,]
           0.9
                   0
                      0.1
                            0.0
## [460,]
           0.4
                   0
                      0.4
                            0.2
## [461,]
            1.0
                   0
                      0.0
                            0.0
## [462,]
           0.0
                   0
                      0.4
                            0.6
## [463,]
           0.8
                   0
                      0.2
                            0.0
## [464,]
                      0.4
                            0.5
           0.1
                   0
## [465,]
           0.7
                   0
                      0.3
                            0.0
## [466,]
                   0
                      0.3
                            0.0
           0.7
## [467,]
           0.4
                   0
                      0.4
                            0.2
## [468,]
           0.8
                   0
                      0.2
                            0.0
## [469,]
           0.1
                   0
                      0.4
                            0.5
## [470,]
                      0.2
                           0.0
           0.8
                   0
           1.0
## [471,]
                   0
                      0.0
                            0.0
## [472,]
           0.7
                   0
                      0.3
                            0.0
## [473,]
                   0
                      0.4
           0.1
                            0.5
                      0.4
## [474,]
           0.0
                   0
                            0.6
## [475,]
                   0
                      0.4
                            0.6
           0.0
## [476,]
                      0.0
            1.0
                   0
                            0.0
## [477,]
           0.0
                   0
                      0.4
                            0.6
## [478,]
                      0.4
                            0.6
           0.0
                   0
## [479,]
           0.0
                   0
                      0.4
                            0.6
## [480,]
           0.3
                   0
                      0.4
                            0.3
## [481,]
                   0
                      0.0
                            0.0
            1.0
## [482,]
           0.0
                   0
                      0.4
                            0.6
## [483,]
           0.8
                   0
                      0.2
                            0.0
## [484,]
           0.0
                      0.4 0.6
```

```
## [485,]
            1.0
                   0
                       0.0
                            0.0
## [486,]
            0.0
                       0.4
                            0.6
                   0
## [487,]
            0.8
                   0
                       0.2
                            0.0
## [488,]
            1.0
                   0
                       0.0
                            0.0
## [489,]
            0.8
                   0
                       0.2
                            0.0
## [490,]
            0.0
                   0
                       0.4
                            0.6
## [491,]
                   0
                       0.0
                            0.0
            1.0
## [492,]
                       0.2
            0.8
                   0
                            0.0
## [493,]
            0.7
                   0
                       0.3
                            0.0
## [494,]
            0.8
                   0
                       0.2
                            0.0
                            0.6
## [495,]
            0.0
                   0
                       0.4
## [496,]
            0.0
                   0
                       0.4
                            0.6
## [497,]
            0.9
                   0
                       0.1
                            0.0
## [498,]
                       0.4
                            0.5
            0.1
                   0
## [499,]
            1.0
                   0
                       0.0
                            0.0
## [500,]
            1.0
                   0
                       0.0
                            0.0
## [501,]
                   0
                       0.0
                            0.0
            1.0
## [502,]
            0.1
                   0
                       0.4
                            0.5
## [503,]
                       0.0
                            0.0
            1.0
                   0
## [504,]
            0.4
                   0
                       0.4
                            0.2
                            0.0
## [505,]
            1.0
                   0
                       0.0
## [506,]
            1.0
                   0
                       0.0
                            0.0
## [507,]
            0.8
                   0
                       0.2
                            0.0
## [508,]
            0.8
                   0
                       0.2
                            0.0
## [509,]
                       0.1
            0.9
                    0
                            0.0
## [510,]
            1.0
                   0
                       0.0
                            0.0
## [511,]
            1.0
                   0
                       0.0
                            0.0
## [512,]
                   0
                       0.0
                            0.0
            1.0
## [513,]
            1.0
                   0
                       0.0
                            0.0
## [514,]
                       0.4
            0.1
                   0
                            0.5
## [515,]
            0.8
                   0
                       0.2
                            0.0
## [516,]
            0.8
                   0
                       0.2
                            0.0
## [517,]
            1.0
                   0
                       0.0
                            0.0
## [518,]
            0.0
                       0.4
                            0.6
                   0
## [519,]
            1.0
                   0
                       0.0
                            0.0
## [520,]
            0.0
                   0
                       0.4
                            0.6
## [521,]
            0.0
                   0
                       0.4
                            0.6
## [522,]
            0.3
                   0
                       0.4
                            0.3
## [523,]
            1.0
                   0
                       0.0
                            0.0
## [524,]
            0.0
                   0
                       0.4
                            0.6
            0.4
## [525,]
                   0
                       0.4
                            0.2
## [526,]
            0.0
                   0
                       0.4
                            0.6
## [527,]
                   0
                       0.2
                            0.0
            0.8
## [528,]
            0.0
                   0
                       0.4
                            0.6
## [529,]
                   0
                       0.0
                            0.0
            1.0
## [530,]
                       0.4
            0.0
                   0
                            0.6
## [531,]
            0.5
                   0
                       0.4
                            0.1
## [532,]
                            0.6
            0.0
                   0
                       0.4
## [533,]
            1.0
                   0
                       0.0
                            0.0
## [534,]
            0.0
                   0
                       0.4
                            0.6
## [535,]
            0.8
                   0
                       0.2
                            0.0
## [536,]
            0.0
                   0
                       0.4
                            0.6
## [537,]
            1.0
                   0
                       0.0
                            0.0
## [538,]
           0.0
                       0.4 0.6
```

```
## [539,]
            0.0
                   0
                       0.4
                            0.6
## [540,]
                       0.0
                            0.0
            1.0
                   0
## [541,]
            0.1
                   0
                       0.4
                            0.5
## [542,]
            0.7
                   0
                       0.3
                            0.0
## [543,]
            1.0
                   0
                       0.0
                            0.0
## [544,]
                   0
                       0.0
                            0.0
            1.0
## [545,]
            0.0
                   0
                       0.4
                            0.6
## [546,]
                       0.4
            0.1
                   0
                            0.5
## [547,]
            0.0
                   0
                       0.4
                            0.6
## [548,]
                       0.0
            1.0
                   0
                            0.0
## [549,]
            1.0
                   0
                       0.0
                            0.0
## [550,]
            0.1
                   0
                       0.4
                            0.5
## [551,]
            1.0
                   0
                       0.0
                            0.0
## [552,]
            0.0
                   0
                       0.4
                            0.6
## [553,]
            1.0
                   0
                       0.0
                            0.0
## [554,]
            0.0
                   0
                       0.4
                            0.6
## [555,]
                   0
                       0.0
                            0.0
            1.0
## [556,]
            0.1
                   0
                       0.4
                            0.5
## [557,]
            0.7
                       0.3
                            0.0
                   0
## [558,]
            0.0
                   0
                       0.4
                            0.6
## [559,]
            0.0
                   0
                       0.4
                            0.6
## [560,]
            0.3
                   0
                       0.4
                            0.3
                       0.4
## [561,]
            0.0
                   0
                            0.6
## [562,]
            0.8
                   0
                       0.2
                            0.0
## [563,]
                       0.2
                            0.0
            0.8
                   0
## [564,]
            0.8
                   0
                       0.2
                            0.0
## [565,]
            1.0
                   0
                       0.0
                            0.0
## [566,]
                   0
                       0.4
                            0.5
            0.1
## [567,]
            0.8
                   0
                       0.2
                            0.0
## [568,]
                       0.0
            1.0
                   0
                            0.0
## [569,]
            0.0
                   0
                       0.4
                            0.6
## [570,]
            0.0
                   0
                       0.4
                            0.6
## [571,]
            0.8
                   0
                       0.2
                            0.0
## [572,]
            0.3
                       0.4
                            0.3
                   0
## [573,]
            0.1
                   0
                       0.4
                            0.5
## [574,]
                   0
                       0.0
                            0.0
            1.0
## [575,]
            0.1
                   0
                       0.4
                            0.5
## [576,]
            0.8
                   0
                       0.2
                            0.0
## [577,]
            0.9
                   0
                       0.1
                            0.0
## [578,]
                   0
                       0.4
                            0.6
            0.0
            0.8
## [579,]
                   0
                       0.2
                            0.0
## [580,]
            0.0
                   0
                       0.4
                            0.6
## [581,]
                   0
                       0.4
                            0.6
            0.0
## [582,]
                       0.4
            0.1
                   0
                            0.5
## [583,]
                   0
                       0.4
                            0.6
            0.0
## [584,]
                       0.0
            1.0
                   0
                            0.0
## [585,]
            1.0
                   0
                       0.0
                            0.0
## [586,]
                       0.2
                            0.0
            0.8
                   0
## [587,]
            1.0
                   0
                       0.0
                            0.0
## [588,]
            0.0
                   0
                       0.4
                            0.6
## [589,]
            0.0
                   0
                       0.4
                            0.6
## [590,]
                       0.4
            0.1
                   0
                            0.5
## [591,]
            0.8
                   0
                       0.2
                            0.0
## [592,]
            0.1
                       0.4 0.5
```

```
## [593,] 1.0
    0.0
      0.0
[594.] 1.0
    0.0
      0.0
[595,] 1.0
    0.0
      0.0
  0.0
[596,]
    0 0.4
      0.6
[597,]
  0.8
    0
      0.0
## [598,]
  1.0
    0.0
      0.0
## [599.] 1.0
    0.0
## [600.] 0.0
    0 0.4
      0.6
##
$class
 [91] "3" "0" "0" "0" "0" "3" "0" "3" "0" "3" "2" "0" "0" "0" "0" "3" "0" "0"
[127] "0" "0" "0" "0" "3" "0" "0" "3" "0" "3" "2" "0" "3" "0" "0" "3" "3" "0"
## [217] "3" "3" "3" "0" "3" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0"
[397] "3" "0" "0" "0" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0"
[523] "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0"
[595] "0" "3" "0" "0" "0" "3"
##
## $confusion
    Observed Class
## Predicted Class
     0
      1
##
    0 150 140
       37
        1
##
      2
       12
     0
      8 101 147
##
##
## $error
## [1] 0.485
```

\$class [1] "3" "3" "3" "0" "0" "0" "3" "3" "0" "2" "0" "0" "3" "3" "0" "0" "3" "3" [19] "3" "2" "1" "3" "0" "0" "3" "3" "0" "3" "0" "2" "0" "0" "3" "0" "3" "1" ## ## [73] "0" "3" "0" "3" "0" "0" "0" "2" "3" "0" "3" "0" "3" "3" "3" "0" "3" "2" ## [109] "3" "0" "0" "0" "3" "3" "0" "3" "3" "0" "3" "2" "1" "3" "0" "3" "3" "1" [127] "0" "3" "3" "2" "0" "0" "3" "3" "3" "0" "3" "3" "2" "3" "3" "3" "0" "0" ## ## ## [235] "0" "1" "0" "3" "3" "0" "1" "3" "0" "0" "3" "3" "3" "3" "3" "3" "2" "3" "3" ## [271] "0" "3" "3" "3" "3" "3" "3" "3" "0" "2" "3" "0" "0" "3" "3" "3" "3" "0" "3" ## [289] "3" "2" "3" "3" "0" "3" "0" "3" "0" "0" "2" "3" "0" "0" "0" "3" "0" ## ## [343] "0" "0" "3" "1" "0" "0" "0" "2" "1" "3" "3" "0" "3" "0" "0" "0" "0" "3" "2" [397] "3" "0" "0" "2" "3" "3" "3" "0" "3" "0" "0" "3" "2" "3" "0" "3" "0" ## ## ## [487] "0" "3" "3" "2" "0" "3" "0" "0" "3" "0" "3" "0" "2" "3" "0" "2" "3" "0" "0" [505] "0" "0" "0" "3" "3" "2" "3" "3" "3" "3" "3" "0" "3" "3" "0" "2" "0" "0" ## [523] "3" "0" "3" "0" "0" "0" "0" "3" "0" "1" "3" "0" "3" "3" "0" "0" "0" "0" "2" ## [541] "0" "3" "3" "0" "0" "0" "3" "3" "3" "2" "3" "0" "0" "3" "0" "0" "3" "0" ## [595] "0" "3" "0" "0" "3" "0" "3" "0" "3" "0" "1" "3" "0" "3" "2" "1" "3" ## [631] "3" "0" "3" "0" "0" "3" "0" "3" "0" "2" "0" "0" "0" "0" "0" "3" "3" "0" "0" [649] "3" "2" "1" "0" "3" "0" "3" "3" "3" "3" "2" "3" "3" "0" "0" "0" "0" "3" ## ## [775] "3" "3" "3" "3" "3" "2" "0" "3" "3" "3" "3" "3" "0" "3" "0" "2" "0" "0" ## [793] "3" "0" "3" "0" "3" "3" "3" "3" "2" "1" "3" "0" "0" "0" "1" "3" "0" "3" "0" ## [811] "1" "0" "3" "3" "3" "1" "3" "0" "0" "2" "0" "3" "3" "3" "3" "3" "3" "3" "3" ## ## [847] "0" "3" "0" "2" "3" "0" "3" "0" "3" "0" "3" "0" "3" "2" "0" "3" "3" "0" ##

```
[883] "0" "3" "3" "3" "0" "0" "3" "2" "1" "3" "0" "0" "3" "0" "3" "0" "3" "0" "3" "2"
  ##
  [919] "3" "0" "3" "0" "3" "1" "0" "1" "3" "0" "3" "2" "3" "0" "0" "3" "3" "1"
  [937] "0" "0" "0" "2" "1" "0" "0" "0" "0" "1" "3" "3" "3" "3" "2" "0" "3" "0" "3"
  ##
  [1081] "3" "0" "0" "3" "3" "0" "3" "0" "3" "2" "0" "0" "3" "3" "3" "3" "3" "3" "0"
  [1135] "3" "0" "3" "3" "3" "2" "3" "3" "3" "3" "1" "3" "1" "3" "0" "0" "2" "0" "3"
  [1171] "0" "0" "3" "0" "0" "3" "3" "0" "0" "2" "0" "0" "0" "3" "0" "3" "0" "3"
  [1189] "3" "2" "0" "3" "3" "3" "3" "0" "3" "3" "0" "2" "3" "0" "3" "3" "0" "3"
 [1207] "0" "3" "3" "2" "3" "3" "0" "3" "0" "3" "3" "3" "0" "2" "3" "3" "0" "3"
## [1225] "3" "3" "0" "0" "3" "2" "3" "0" "3" "0" "3" "0" "3" "0" "3" "0" "2" "3" "0"
## [1243] "3" "3" "0" "3" "0" "0" "3" "2" "1" "3" "3" "3" "0" "1" "0" "0" "0" "2"
## [1279] "3" "2" "3" "3" "3" "0" "0" "1" "3" "3" "0" "2" "1" "0" "3" "3" "0" "3"
  [1351] "0" "0" "0" "1" "3" "1" "3" "3" "0" "0" "0" "3" "0" "3" "0" "1" "0" "3"
  [1369] "0" "2" "0" "0" "3" "0" "3" "1" "3" "0" "3" "2" "3" "0" "3" "0" "3" "0" "1"
  [1387] "0" "3" "3" "2" "0" "0" "3" "3" "3" "0" "0" "3" "0" "2"
##
## $confusion
##
            Observed Class
## Predicted Class
              0
           0 347 253
                   55
##
                28
                   19
                18
                   25
##
                     41
##
           3
                51 251 308
##
## $error
## [1] 0.4942857
data.bagging.margins <- margins(data.bagging, data_train)</pre>
data.bagging.predmargins <- margins(data.predbagging, data_test)</pre>
data.bagging.margins
## $margins
    [1] -0.1 -0.1 -0.2 -0.9 -1.0 1.0 0.2 0.2 -0.8 -0.1 1.0 1.0 0.2 -0.4
   [15] -0.9 1.0 -0.5 -0.2 0.2 0.2 -0.4 0.2 1.0 -0.9 0.2 -0.2 -0.1 -0.1
##
   [29] -0.8 -0.8 1.0 -1.0 0.2 1.0 0.2 -0.1 -0.1 -0.9 -0.2 -0.1 -0.2 -0.8
      1.0 1.0 -0.1 -0.2 0.2 0.2 0.2
                              1.0 0.2
                                     0.2 1.0 0.2 1.0 -0.8
##
   Г431
       0.2 -0.8 0.2 -0.1 -0.7 -0.7 -1.0
                               1.0 -0.2
                                     0.1
                                         0.2 - 0.4 - 0.9
   [71] -0.6 0.8 -0.8 0.1 -0.9 -0.5
##
                           1.0
                              1.0 -0.8 0.1 0.2 -0.7 -0.4
       0.2 \quad 0.2 \quad -0.2 \quad -0.7 \quad -0.1 \quad 0.2 \quad 0.2 \quad 0.2 \quad 0.2 \quad -0.2 \quad -0.8 \quad 0.2 \quad 1.0 \quad -0.4
   [99]
       0.2 \quad 1.0 \quad 0.8 \quad -0.8 \quad 1.0 \quad 0.2 \quad 1.0 \quad 0.2 \quad 0.0 \quad -0.2 \quad -0.4 \quad -0.9 \quad -0.9 \quad 1.0
##
```

```
[113] 0.2 -1.0 -0.2 -0.2 1.0 0.1 0.2 -0.5 -0.4 0.1 -0.8 -0.2 0.2 0.0
    [127] 1.0 0.1 -0.2 -0.8 0.6 1.0 0.1 0.2 0.2 1.0 0.2 0.2 -0.5
##
    [141] 0.2 -0.2 -0.8 -1.0 1.0 1.0 -0.1 -0.1 0.0 0.2 -0.2 1.0 1.0
    [155] 0.2 0.2 -0.1 -0.1 0.2 0.2 0.2 1.0 -0.4 -0.2 1.0 -0.8 0.2
##
##
    [169] -0.2 0.2 -0.6 0.2 0.2 -0.8 -0.8 1.0 -0.2 -0.1 1.0 1.0 -0.8
    [183] -1.0 -0.7 1.0 0.2 -1.0 0.1 -0.1 1.0 0.2 -0.8 -0.1 0.2 -0.8 1.0
##
    [197] 0.2 -1.0 -0.7 0.1 -0.8 0.2 0.2 0.2 -1.0 1.0 -0.8 0.2 -1.0 -0.8
    [211] 0.2 1.0 1.0 -0.2 1.0 -0.6 0.2 -0.6 0.2 1.0 -0.2 0.2 -1.0 1.0
##
    [225] -0.8 1.0 0.2 1.0 1.0 1.0 -0.2 -0.2 -0.8 -0.5 -1.0 -0.8 -1.0 -0.2
##
     [239] \quad 0.2 \quad 1.0 \quad -0.5 \quad 0.2 \quad 1.0 \quad -1.0 \quad -0.2 \quad -0.2 \quad -0.2 \quad -0.2 \quad -0.5 \quad 0.1 \quad -0.1 \quad -0.2 
##
    [253] 0.0 1.0 0.2 -1.0 1.0 0.2 -0.2 0.6 1.0 0.2 -0.1 0.2 -0.4
     \begin{bmatrix} 267 \end{bmatrix} \ -0.1 \quad 1.0 \ -0.5 \quad 1.0 \ -1.0 \ -0.2 \quad 0.1 \ -0.2 \ -0.4 \ -0.2 \quad 0.2 \quad 0.2 \ -0.5 
##
                                                                                   0.2
##
    [281] 0.2 0.8 -0.8 -0.1 0.2 0.2 -0.6 -0.1 0.2 0.4 -0.2 0.0 1.0 0.2
    [295] -1.0 -0.1 -0.4 -0.8 1.0 -0.8 -0.1 -0.1 1.0 -0.2 -0.2 1.0 -0.8 -0.8
##
##
     [309] \quad 0.2 \ -1.0 \quad 1.0 \quad 0.2 \quad 1.0 \ -1.0 \quad 0.2 \ -1.0 \quad 1.0 \ -0.1 \ -0.7 \quad 0.2 \ -0.7 \quad 0.8 
                           1.0 1.0 0.2 1.0 1.0 -0.8 0.2 0.2 0.6 0.1 -0.2
##
    [323] -0.1
                0.1 - 0.8
    [337] \quad 0.2 \quad 0.2 \quad 1.0 \quad 0.2 \quad 1.0 \quad 0.2 \quad -0.8 \quad 1.0 \quad -0.2 \quad -0.1 \quad -1.0 \quad -0.4 \quad 1.0 \quad -0.2
##
##
    [351] -0.7 -0.1 0.2 1.0 0.2 -1.0 1.0 -0.9 -0.1 -0.4 0.2 0.2 -0.5 -0.2
    [365] \ -0.8 \ 0.2 \ 0.2 \ 0.2 \ 0.2 \ -0.9 \ 0.2 \ 0.2 \ 0.2 \ -0.1 \ 0.2 \ 0.1 \ -0.1 \ 0.2
##
##
    [379] -0.2 1.0 -0.2 -0.8 1.0 0.2 -0.8 -0.8 0.2 -1.0 0.8 1.0 1.0 -0.1
##
    [393] -0.2 1.0 -0.8 -0.4 -0.2 1.0 1.0 0.2 0.2 0.2 0.2 1.0 -0.2 -0.2
    [407] 1.0 1.0 0.2 0.2 0.2 1.0 0.2 -0.9 1.0 -0.2 0.2 -1.0 -0.2 1.0
##
    [421] 1.0 1.0 0.2 1.0 -0.8 -1.0 -0.1 1.0 -0.2 0.0 0.2 1.0 -0.2 0.2
##
    [435] -0.8 0.2 -1.0 -0.9 -0.4 1.0 1.0 -1.0 -0.8 0.2 0.2 -0.9 -0.2 0.0
##
    [449] 1.0 -0.7 0.2 -0.7 -0.2 0.0 -0.5 1.0 0.2 -0.6 -0.8 1.0 -1.0 -0.6
##
    [463] 1.0 1.0 1.0 -0.2 0.2 -0.8 1.0 0.8 1.0 -0.2 0.2 -0.1 0.2 -0.1
     \begin{bmatrix} 477 \end{bmatrix} \ -0.1 \ \ 1.0 \ \ 1.0 \ \ 0.2 \ \ -0.5 \ \ -1.0 \ \ 0.2 \ \ 0.0 \ \ \ 1.0 \ \ 0.2 \ \ 1.0 \ \ 0.2 \ \ 0.2 
##
                                                                                   0.2
##
    [491] 1.0 -0.2 1.0 -0.9 0.2 1.0 -0.5 -0.2 -1.0 0.2 0.2 1.0 -0.4
                                                                                   1.0
    [505] -0.4 1.0 1.0 -0.2 -0.1 0.2 0.2 -0.1 -0.4 -0.2 0.2 -1.0 -0.2 0.2
##
##
    [519] -1.0 0.0 -1.0 1.0 -0.2 1.0 0.2 1.0 1.0 1.0 0.2 0.8 -0.4
                            1.0 1.0 0.6 0.2 -0.1 1.0 -0.2 -0.1 1.0 0.0
##
    [533] -0.5 0.2 -0.1
##
    [547] 0.2 0.2 -0.1 0.2 -0.2 -0.8 1.0 0.2 -0.8 1.0 -0.2 -0.7 -0.8
                                                                                   0.2
##
    [561] 0.2 0.2 0.2 1.0 1.0 -0.8 1.0 -0.2 -0.2 0.8 1.0 0.2 0.2 -0.9
    [575] 0.1 0.2 -0.1 0.2 0.2 -0.5 0.2 0.2 0.2 0.2 -0.2 0.2 -0.5
##
    [589]
           0.0 0.2 1.0 1.0 0.2 1.0 1.0 -0.2 -0.7
                                                             1.0 0.1 -0.9 -0.2
##
     [603] \ -0.9 \ -0.2 \ -0.1 \ 0.6 \ -0.2 \ 1.0 \ -0.1 \ -0.2 \ -0.4 \ 0.2 \ 0.2 \ 0.2 \ -0.4 
##
##
    [617] -1.0 1.0 1.0 0.1 0.2 -0.1 -0.2 -0.9 -0.2 -0.2 1.0 -0.8 -0.7
##
     \begin{bmatrix} 631 \end{bmatrix} \quad 0.2 \ -0.8 \quad 0.2 \ -0.4 \quad 1.0 \quad 0.2 \ -0.6 \ -0.2 \quad 1.0 \quad 0.2 \quad 1.0 \quad -1.0 \ -0.8 \quad 1.0 
    [645] -0.2 0.2 1.0 0.8 0.2 -0.1 -0.5 -0.7 -0.2 1.0 0.2 -0.1 -0.2
##
     [659] \quad 0.2 \ -0.2 \ -0.1 \quad 0.2 \quad 1.0 \ -0.8 \quad 1.0 \quad 0.2 \quad 1.0 \quad 0.0 \ -0.8 \ -0.9 \quad 1.0 \ -0.8 
##
           0.2 0.2 -1.0 0.2 -0.1 0.2 -0.8 1.0 -0.8 -0.9 1.0 -0.2 1.0 -1.0
##
    [673]
    [687] 0.2 -0.9 1.0 0.2 0.2 1.0 1.0 1.0 0.2 0.2 -0.7 -0.8 -0.8 -0.9
##
##
    [701] 1.0 1.0 -0.2 0.2 0.2 -0.2 0.6 1.0 -1.0 0.1 -0.1 1.0 1.0 -0.6
           1.0 0.8 0.2 -0.8 1.0 1.0 1.0 -0.8 -0.1 0.0 -0.2 1.0 1.0 0.2
##
    [715]
    [729] -0.9 1.0 0.1 -0.4 1.0 -0.2 0.2 0.2 -0.8 -0.5 -0.9 -1.0 0.0 -0.5
    [743] \ -0.9 \ -0.2 \ 1.0 \ 0.2 \ 1.0 \ 1.0 \ 1.0 \ 0.2 \ 1.0 \ -0.5 \ -1.0 \ 1.0 \ 0.2
##
##
    [757] -0.6 -0.8 0.0 -0.1 -0.1 -0.8 1.0 -0.4 0.0 1.0 1.0 -0.8 0.1 -1.0
    [771] 1.0 0.2 -0.8 1.0 0.2 0.2 0.2 0.2 0.2 -0.2 1.0 -0.1 -0.1 0.2
##
    [785] \quad 0.2 \ -0.1 \ -0.5 \quad 0.0 \quad 1.0 \ -0.1 \ -1.0 \ -0.5 \ -0.4 \quad 1.0 \ -0.2 \quad 1.0 \ -0.2 \ -0.1
##
     [813] \  \, -0.1 \  \, -0.2 \  \, 0.0 \  \, -0.6 \  \, -0.2 \  \, 1.0 \  \, 0.8 \  \, -0.2 \  \, 1.0 \  \, 0.2 \  \, -0.5 \  \, 0.2 \  \, -0.2 \  \, -0.2 
##
##
    [827] 0.2 1.0 0.2 -1.0 1.0 1.0 -0.1 -0.2 1.0 -0.2 1.0 -0.2 1.0 -0.9
##
    [841] \quad 0.0 \quad -0.1 \quad -0.8 \quad -0.2 \quad 1.0 \quad -0.1 \quad -0.8 \quad -0.1 \quad -0.7 \quad -0.8 \quad 0.2 \quad 1.0 \quad -0.4 \quad -1.0
    [855] -0.2 1.0 0.2 -0.8 -0.2 -0.1 -0.8 0.2 -0.1 1.0 -0.4 -0.1 0.2 1.0
```

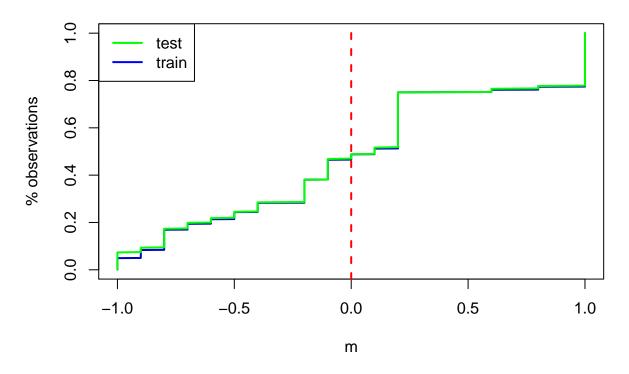
```
[869] -1.0 1.0 -0.1 0.2 1.0 1.0 1.0 -0.1 0.2 1.0 -0.1 -0.8 -1.0 -0.1
   [883] \ -1.0 \ -0.1 \ -0.4 \ 0.2 \ 1.0 \ 1.0 \ -0.2 \ 0.2 \ -0.7 \ 0.2 \ -0.8 \ 1.0 \ 0.2 \ 1.0
##
   [897] 0.2 -1.0 -0.1 0.2 0.8 1.0 -0.5 1.0 -1.0 0.2 -0.7 -0.1 -0.4 1.0
   [911] 0.2 -0.7 1.0 0.2 1.0 -0.1 0.0 0.2 -0.1 1.0 0.2 -1.0 0.2 -0.5
##
##
   [925] -0.9 0.6 0.2 -0.5 0.2 -0.5 -0.2 1.0 -1.0 0.2 0.2 -0.8 0.6 -0.8
   [939] -0.8 0.2 -0.5 -1.0 -1.0 -0.7 -0.9 -0.8 -0.2 -0.1 0.2 0.2 -0.6 -0.4
##
   [953] -0.9 -0.1 -0.8 -0.2 0.2 -0.2 1.0 0.2 0.2 -1.0 -0.2 0.2 0.1 -0.8
   [967] -0.9 -0.1 -0.8 -1.0 1.0 1.0 -0.2 -0.8 -1.0 1.0 -0.1 1.0 -0.1 0.2
##
##
   [995] 1.0 0.2 1.0 1.0 0.8 1.0 -0.8 -0.2 1.0 1.0 -0.4 1.0 -0.6 -0.1
##
## [1009] 1.0 1.0 0.2 -0.8 -0.9 -0.9 0.2 0.2 1.0 -0.9 1.0 0.2 -0.8 1.0
## [1023] -0.1 1.0 0.0 1.0 -0.4 -0.1 -0.8 -0.5 -0.1 -0.8 0.2 0.2 0.2 1.0
## [1037] -0.8 -0.1 0.2 0.8 -0.9 -1.0 0.0 -0.2 0.2 -0.8 0.2 -0.6 -0.5 -0.1
## [1051] 1.0 -1.0 0.0 0.2 1.0 -0.4 1.0 1.0 1.0 1.0 0.2 -0.5 -0.4 -0.1
## [1065] -0.6 -0.9 0.2 -0.4 0.0 0.0 0.2 -0.4 -0.7 1.0 0.2 0.2 -0.9 -0.7
## [1079]
        1.0 -0.9 -0.2 -0.9 -1.0 0.2 0.2 1.0 -0.2 -0.8 -0.1 -0.1 1.0 -0.6
## [1093] 0.2 -0.1 0.1 0.0 -0.4 -0.9 -0.1 -1.0 0.2 -0.2 0.0 0.0 0.1 -0.5
## [1107] 1.0 1.0 -0.2 1.0 0.2 -0.2 1.0 0.2 1.0 -0.2 -1.0 1.0 1.0 1.0
## [1121] 1.0 0.2 -0.8 -0.8 0.2 0.2 0.1 -0.6 0.2 1.0 0.2 0.2 1.0 -0.2
## [1135] -0.5 -0.9 -0.2 0.2 -0.1 0.2 -0.1 0.2 0.2 0.2 -0.1 -0.6 0.2 -0.7
## [1149] -1.0 -0.8 1.0 0.2 -0.2 -0.8 1.0 -0.8 1.0 -0.6 -0.8 -0.1 0.2 -0.2
## [1163] 0.2 -0.8 -0.4 -1.0 -0.8 -0.2 -0.9 1.0 -0.8 1.0 0.2 1.0 -0.4 0.2
## [1177] -0.4 -1.0 -0.8 0.1 -0.8 -0.8 -0.4 0.2 -0.8 0.2 -0.6 -0.8 -0.2 0.2
## [1191] -0.6 -0.4 0.2 0.2 0.2 1.0 0.2 0.2 -0.6 0.2 -0.1 -0.6 0.2
## [1205] 1.0 -0.2 1.0 -0.2 -0.2 -0.2 -0.1 -0.1 1.0 -0.1 -0.7 -0.1 0.2 0.2
## [1219] 1.0 -0.2 0.2 0.2 -1.0 -0.2 -0.5 0.2 -0.8 -0.9 0.1 -0.7 0.2
## [1233] -0.4 0.2 1.0 -0.2 1.0 0.2 -0.9 -0.4 -0.2 1.0 0.2 0.2 1.0
                                                                  0.2
## [1247] 1.0 1.0 -0.2 -0.8 -0.2 0.2 0.2 -0.1 1.0 -0.5 -0.8 0.6 -0.7
                                                                  0.2
## [1261] 1.0 -0.4 1.0 -0.4 -0.7 -0.9 0.6 1.0 -0.5 1.0 -0.5 0.2 -0.8 1.0
## [1275] 1.0 0.2 -0.7 -0.1 -0.1 -0.7 -0.1 0.2 0.2 1.0 0.8 -0.8 -0.2 -0.1
## [1289] -0.8 -0.6 -0.6 1.0 -0.1 0.2 0.6 0.2
                                            0.6 0.2 1.0 0.2 1.0 0.2
## [1303] 1.0 1.0 1.0 0.2 -0.2 1.0 1.0 1.0 0.2 0.2 -0.9 1.0 1.0 -0.5
## [1317] -0.9 -0.1 1.0 0.2 1.0 -0.4 1.0 0.2 1.0 1.0 -0.4 1.0 0.2 1.0
## [1331] -0.2 0.2 1.0 -1.0 0.2 0.2 -0.7 0.1 1.0 -0.4 1.0 1.0 -0.2 1.0
## [1345] 0.2 -0.5 -0.1 -0.8 -0.4 -0.8 1.0 -0.8 -0.8 -0.7 -0.1 -0.8 0.0 -0.1
## [1359] -0.1 1.0 0.6 0.1 -0.7 -0.2 -1.0 -0.6 0.6 0.2 1.0 0.1 -0.9 -0.8
## [1373] -0.1 1.0 -0.1 -0.4 -0.4 1.0 0.2 -0.5 0.2 1.0 0.1 -0.8 -0.8 -0.7
##
## attr(,"class")
## [1] "margins"
```

data.bagging.predmargins

```
## $margins
## [1] -0.5  0.2  1.0  1.0  0.2 -0.8  0.2  0.2  0.2 -0.1  1.0  1.0 -0.5  0.2 -0.4
## [16]  0.2  1.0  0.2 -0.5  0.0  1.0  0.8  0.2  0.2  0.8  1.0  0.2  0.1 -0.1 -0.2
## [31]  1.0 -1.0 -0.1  0.2 -0.9 -0.2 -0.5  0.1 -0.1 -0.1  0.2 -0.4  0.2 -0.1  1.0
## [46]  1.0  1.0 -1.0  0.2 -0.1 -0.6 -0.8  0.2  0.0 -0.6  0.2 -0.9 -0.2 -0.9  0.2
## [61] -0.1 -0.1  1.0  0.2  1.0 -0.8 -1.0  0.2  1.0  0.2 -0.1 -0.8  0.1  1.0 -0.4
## [76]  1.0 -0.2  1.0  1.0 -0.8 -1.0  1.0  0.1  1.0  0.2 -0.8 -0.4  0.2  0.2  1.0
## [91]  0.2  1.0 -1.0 -1.0  1.0  0.2 -0.9 -0.1 -0.2 -0.4 -0.2  0.0  1.0 -1.0  1.0
## [106] -0.1 -1.0  1.0  0.1  0.2 -0.2  0.2  0.2 -1.0  0.2  0.2  0.2  0.2 -0.2
## [121] -0.4  0.2 -0.8  0.2  1.0  0.2 -1.0  1.0  1.0 -0.6 -0.2 -0.8 -0.4  0.2  1.0
```

```
## [136] 0.2 0.0 -1.0 0.2 -0.7 1.0 0.2 0.2 1.0 -0.2 0.2 -0.4 1.0 0.0 -0.2
## [151] 1.0 -0.7 0.2 1.0 1.0 -0.8 -0.1 -0.2 -0.6 -0.5 -0.4 -0.4 -0.2 -0.8 -1.0
## [166] 0.1 0.2 -1.0 -1.0 0.2 0.2 1.0 1.0 1.0 -1.0 0.2 -0.2 -0.2 -0.4 -0.1
## [181] 1.0 -0.9 -0.2 -0.2 -0.2 -0.1 -0.1 -0.9 1.0 0.2 -0.5 -0.8 -0.1 -0.8 0.6
## [196] 1.0 -0.1 1.0 1.0 0.2 -0.1 1.0 -0.2 -0.4 0.2 0.6 0.0 -0.7 -0.5
## [211] -0.8 1.0 0.2 -0.4 0.1 1.0 0.2 -0.1 0.2 -1.0 -0.1 0.2 -0.7 1.0 0.2
## [226] -0.8 0.1 -0.8 -0.9 0.2 -0.8 -0.1 0.2 -1.0 -0.2 0.2 0.0 1.0 -0.8 -0.5
## [241] 0.2 -0.1 0.2 1.0 -0.6 0.2 1.0 1.0 1.0 -0.8 -0.5 1.0 0.2 -0.2 -0.4
## [256] 0.2 0.6 1.0 0.2 1.0 -0.2 0.2 -0.7 -0.4 0.2 1.0 0.2 -0.4 -0.5 -0.8
## [271] 1.0 -1.0 1.0 -0.8 -1.0 -0.1 0.2 -0.8 -0.2 1.0 1.0 -0.5 0.2 0.2 -1.0
## [301] -0.2 0.1 0.2 -0.9 0.2 1.0 -0.7 -0.9 -0.1 1.0 -0.5 -0.8 -0.2 -0.7 -0.7
## [316] 0.2 -0.2 0.0 0.2 -1.0 1.0 -0.8 0.2 -0.7 1.0 -0.9 -0.1 -0.6 0.2 -0.7
## [331] 1.0 0.6 1.0 -0.1 -0.5 -0.4 0.2 0.2 -0.8 -0.1 -0.2 0.2 -0.1 1.0 -0.1
## [346] 1.0 -0.2 -0.4 -0.8 -0.2 -0.1 0.2 0.2 0.2 0.2 0.8 -0.2 1.0 0.2 -0.1
## [361] -0.1
            1.0 -0.2 -0.2 -0.8 1.0
                                 0.2 0.2 -0.5 -1.0
                                                   0.1 -0.8
                                                           0.2 - 0.2
## [376] 0.2 0.2 -1.0 -0.8 1.0 1.0 0.2 -1.0 0.2 0.2 0.2 -0.7
                                                           0.8 0.1 -0.1
## [391] 1.0 1.0 -0.2 -0.2 1.0 0.2 0.2 1.0 -0.8 1.0 1.0 0.2 1.0 -0.2 -0.1
## [406] -1.0 -0.5 0.0 -1.0 0.2 1.0 -0.2 -0.2 -0.9 -1.0 -0.8 -0.6 1.0 1.0 1.0
## [421] 1.0 -0.2 -0.4 1.0 -1.0 -1.0 -1.0 1.0 -0.1 0.2 -1.0 -1.0 0.2 -0.8 1.0
## [436] 0.2 1.0 -0.4 1.0 0.2 -0.8 0.6 -0.5 0.2 0.2 -0.2 -0.2 1.0 -0.2 0.2
## [451] 0.2 -0.1 -0.2 -1.0 1.0 1.0 1.0 0.1 0.8 -0.4 -1.0 -0.2 -0.8 -0.1 -0.4
## [481] 1.0 0.2 -0.8 0.2 -1.0 0.2 -0.6 1.0 -0.8 -0.2 -1.0 -0.8 -0.4 -0.8
## [511] 1.0 -1.0 1.0 -0.1 -0.8 0.6 1.0 -0.2 1.0 0.2 0.2 0.1 1.0 -0.2 0.0
## [526] 0.2 -0.6 -0.2 1.0 -0.2 -0.1 0.2 -1.0 0.2 -0.8 -0.2 1.0
                                                           0.2 0.2 -1.0
## [541] -0.1 -0.7 1.0 1.0 0.2 -0.1 -0.2 1.0 1.0 0.1 1.0 0.2 1.0 0.2 1.0
## [556] -0.1 -0.4 0.2 -0.2 -0.1 -0.2 0.6 -0.8 -0.6 1.0 -0.1 -0.8 1.0 0.2 0.2
## [571] -0.8 0.1 -0.1 1.0 -0.1 -0.8 0.8 0.2 -0.6 0.2 0.2 -0.1 0.2 -1.0
                                                                    1.0
## [586] 0.6 1.0 0.2 0.2 -0.1 0.6 -0.1 -1.0 1.0 -1.0 0.2 -0.8 1.0 1.0 0.2
##
## attr(,"class")
## [1] "margins"
margins.test <- data.bagging.predmargins[[1]]</pre>
margins.train <- data.bagging.margins[[1]]</pre>
plot(sort(margins.train), (1:length(margins.train)) / length(margins.train), type = "1", xlim = c(-1,1)
abline(v = 0, col = "red", lty = 2, lwd = 2)
lines(sort(margins.test), (1:length(margins.test)) / length(margins.test), type = "1", cex = 0.5, col =
legend("topleft", c("test", "train"), col = c("green", "blue"), lty = 1, lwd = 2)
```

Margin cumulative distribution graph



```
evol.test <- errorevol(data.adaboost, data_test)
evol.train <- errorevol(data.adaboost, data_train)

plot(evol.test$error, type = "l", ylim = c(0, 1),
main = "Boosting error versus number of trees", xlab = "Iterations",
ylab = "Error", col = "red", lwd = 2)
lines(evol.train$error, cex = .5, col = "blue", lty = 2, lwd = 2)
legend("topleft", c("test", "train"), col = c("red", "blue"), lty = 1:2, lwd = 2)</pre>
```

Boosting error versus number of trees

