```
> source('~/.active-rstudio-document', echo=TRUE)


> library(e1071)


> rb = naiveBayes(as.factor(ACTION) ~ ., data = train)


> rb$levels
[1] "0" "1"


> str(rb)
List of 4
 $ apriori: 'table' int [1:2(1d)] 1897 30872
  ..- attr(*, "dimnames")=List of 1
  .. ..$ Y: chr [1:2] "0" "1"
 $ tables :List of 9
  ..$ RESOURCE       : num [1:2, 1:2] 42898 42925 35797 34072
  .. ..- attr(*, "dimnames")=List of 2
  .. .. ..$ Y       : chr [1:2] "0" "1"
  .. .. ..$ RESOURCE: NULL
  ..$ MGR_ID         : num [1:2, 1:2] 26738 25943 32239 36142
  .. ..- attr(*, "dimnames")=List of 2
  .. .. ..$ Y     : chr [1:2] "0" "1"
  .. .. ..$ MGR_ID: NULL
  ..$ ROLE_ROLLUP_1   : num [1:2, 1:2] 117554 116916 6510 11087
  .. ..- attr(*, "dimnames")=List of 2
```

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_ROLLUP_1: NULL

..$ ROLE_ROLLUP_2   : num [1:2, 1:2] 118207 118308 6977 4359

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_ROLLUP_2: NULL

..$ ROLE_DEPTNAME   : num [1:2, 1:2] 118834 118918 16208 19118

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_DEPTNAME: NULL

..$ ROLE_TITLE   : num [1:2, 1:2] 127189 125838 35073 30770

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_TITLE: NULL

..$ ROLE_FAMILY_DESC: num [1:2, 1:2] 169179 170240 71651 69376

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_FAMILY_DESC: NULL

..$ ROLE_FAMILY   : num [1:2, 1:2] 183500 183716 111004 99808

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_FAMILY: NULL

..$ ROLE_CODE   : num [1:2, 1:2] 119389 119814 3469 5896

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_CODE: NULL

$ levels : chr [1:2] "0" "1"

$ call   : language naiveBayes.default(x = X, y = Y, laplace = laplace)

- attr(*, "class")= chr "naiveBayes"

> rb

Naive Bayes Classifier for Discrete Predictors

Call:

naiveBayes.default(x = X, y = Y, laplace = laplace)

A-priori probabilities:

Y

        0   1

0.05789008 0.94210992

Conditional probabilities:

   RESOURCE

Y   [,1]   [,2]

  0 42898.35 35796.89

  1 42925.49 34072.25

   MGR_ID

Y   [,1]   [,2]

  0 26737.80 32238.82

1 25942.94 36142.41

ROLE_ROLLUP_1

Y [,1] [,2]

0 117553.7 6509.927

1 116915.7 11086.912

ROLE_ROLLUP_2

Y [,1] [,2]

0 118206.7 6976.744

1 118307.7 4358.893

ROLE_DEPTNAME

Y [,1] [,2]

0 118834.4 16208.25

1 118917.6 19117.78

ROLE_TITLE

Y [,1] [,2]

0 127189.3 35073.30

1 125837.9 30770.07

ROLE_FAMILY_DESC

Y [,1] [,2]

0 169178.9 71651.48

```
  1 170239.8 69376.41


   ROLE_FAMILY
Y       [,1]      [,2]
  0 183499.9 111003.54
  1 183715.9  99808.12


   ROLE_CODE
Y       [,1]     [,2]
  0 119389.3 3468.899
  1 119814.0 5896.127
> predictedX<-predict(rb,train)


> plot(predictedX)


> table(train$ACTION, predictedX > 0.5)
< table of extent 2 x 0 >


> ROCRpred = prediction(predictedX, train$ACTION)
Error in prediction(predictedX, train$ACTION) :
  Format of predictions is invalid.
In addition: Warning message:
In Ops.factor(predictedX, 0.5) : ‘>’ not meaningful for factors
> source('~/.active-rstudio-document', echo=TRUE)
```

```
> library(e1071)

> rb = naiveBayes(as.factor(ACTION) ~ ., data = train)

> rb$levels
[1] "0" "1"

> str(rb)
List of 4
 $ apriori: 'table' int [1:2(1d)] 1897 30872
  ..- attr(*, "dimnames")=List of 1
  .. ..$ Y: chr [1:2] "0" "1"
 $ tables :List of 9
  ..$ RESOURCE       : num [1:2, 1:2] 42898 42925 35797 34072
  .. ..- attr(*, "dimnames")=List of 2
  .. .. ..$ Y      : chr [1:2] "0" "1"
  .. .. ..$ RESOURCE: NULL
  ..$ MGR_ID         : num [1:2, 1:2] 26738 25943 32239 36142
  .. ..- attr(*, "dimnames")=List of 2
  .. .. ..$ Y     : chr [1:2] "0" "1"
  .. .. ..$ MGR_ID: NULL
  ..$ ROLE_ROLLUP_1   : num [1:2, 1:2] 117554 116916 6510 11087
  .. ..- attr(*, "dimnames")=List of 2
  .. .. ..$ Y           : chr [1:2] "0" "1"
  .. .. ..$ ROLE_ROLLUP_1: NULL
```

..$ ROLE_ROLLUP_2   : num [1:2, 1:2] 118207 118308 6977 4359

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_ROLLUP_2: NULL

..$ ROLE_DEPTNAME   : num [1:2, 1:2] 118834 118918 16208 19118

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_DEPTNAME: NULL

..$ ROLE_TITLE   : num [1:2, 1:2] 127189 125838 35073 30770

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_TITLE: NULL

..$ ROLE_FAMILY_DESC: num [1:2, 1:2] 169179 170240 71651 69376

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_FAMILY_DESC: NULL

..$ ROLE_FAMILY   : num [1:2, 1:2] 183500 183716 111004 99808

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_FAMILY: NULL

..$ ROLE_CODE   : num [1:2, 1:2] 119389 119814 3469 5896

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_CODE: NULL

$ levels : chr [1:2] "0" "1"

```
 $ call   : language naiveBayes.default(x = X, y = Y, laplace = laplace)
 - attr(*, "class")= chr "naiveBayes"

> predictedX<-predict(rb,train)

> plot(predictedX)

> # table(train$ACTION, predictedX > 0.5)
> ROCRpred = prediction(predictedX, train$ACTION)
Error in prediction(predictedX, train$ACTION) :
  Format of predictions is invalid.
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List of 4
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$ tables :List of 9

..$ RESOURCE   : num [1:2, 1:2] 42898 42925 35797 34072

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ RESOURCE: NULL

..$ MGR_ID   : num [1:2, 1:2] 26738 25943 32239 36142

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ MGR_ID: NULL

..$ ROLE_ROLLUP_1   : num [1:2, 1:2] 117554 116916 6510 11087

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_ROLLUP_1: NULL

..$ ROLE_ROLLUP_2   : num [1:2, 1:2] 118207 118308 6977 4359

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_ROLLUP_2: NULL

..$ ROLE_DEPTNAME   : num [1:2, 1:2] 118834 118918 16208 19118

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_DEPTNAME: NULL

..$ ROLE_TITLE   : num [1:2, 1:2] 127189 125838 35073 30770

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_TITLE: NULL

```
 ..$ ROLE_FAMILY_DESC: num [1:2, 1:2] 169179 170240 71651 69376
 .. ..- attr(*, "dimnames")=List of 2
 .. .. ..$ Y              : chr [1:2] "0" "1"
 .. .. ..$ ROLE_FAMILY_DESC: NULL
 ..$ ROLE_FAMILY     : num [1:2, 1:2] 183500 183716 111004 99808
 .. ..- attr(*, "dimnames")=List of 2
 .. .. ..$ Y         : chr [1:2] "0" "1"
 .. .. ..$ ROLE_FAMILY: NULL
 ..$ ROLE_CODE       : num [1:2, 1:2] 119389 119814 3469 5896
 .. ..- attr(*, "dimnames")=List of 2
 .. .. ..$ Y       : chr [1:2] "0" "1"
 .. .. ..$ ROLE_CODE: NULL
$ levels : chr [1:2] "0" "1"
 $ call   : language naiveBayes.default(x = X, y = Y, laplace = laplace)
 - attr(*, "class")= chr "naiveBayes"


> predictedX<-predict(rb,train)


> plot(predictedX)
> source('~/.active-rstudio-document', echo=TRUE)


> library(e1071)


> rb = naiveBayes(as.factor(ACTION) ~ ., data = train)
```

```
> rb$levels

[1] "0" "1"


> str(rb)

List of 4

 $ apriori: 'table' int [1:2(1d)] 1897 30872

  ..- attr(*, "dimnames")=List of 1

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  .. ..- attr(*, "dimnames")=List of 2

  .. .. ..$ Y       : chr [1:2] "0" "1"

  .. .. ..$ RESOURCE: NULL

  ..$ MGR_ID         : num [1:2, 1:2] 26738 25943 32239 36142

  .. ..- attr(*, "dimnames")=List of 2

  .. .. ..$ Y     : chr [1:2] "0" "1"

  .. .. ..$ MGR_ID: NULL

  ..$ ROLE_ROLLUP_1   : num [1:2, 1:2] 117554 116916 6510 11087

  .. ..- attr(*, "dimnames")=List of 2

  .. .. ..$ Y           : chr [1:2] "0" "1"

  .. .. ..$ ROLE_ROLLUP_1: NULL

  ..$ ROLE_ROLLUP_2   : num [1:2, 1:2] 118207 118308 6977 4359

  .. ..- attr(*, "dimnames")=List of 2

  .. .. ..$ Y           : chr [1:2] "0" "1"

  .. .. ..$ ROLE_ROLLUP_2: NULL
```

..$ ROLE_DEPTNAME   : num [1:2, 1:2] 118834 118918 16208 19118

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_DEPTNAME: NULL

..$ ROLE_TITLE   : num [1:2, 1:2] 127189 125838 35073 30770

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_TITLE: NULL

..$ ROLE_FAMILY_DESC: num [1:2, 1:2] 169179 170240 71651 69376

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_FAMILY_DESC: NULL

..$ ROLE_FAMILY   : num [1:2, 1:2] 183500 183716 111004 99808

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_FAMILY: NULL

..$ ROLE_CODE   : num [1:2, 1:2] 119389 119814 3469 5896

.. ..- attr(*, "dimnames")=List of 2

.. .. ..$ Y   : chr [1:2] "0" "1"

.. .. ..$ ROLE_CODE: NULL

$ levels : chr [1:2] "0" "1"

$ call   : language naiveBayes.default(x = X, y = Y, laplace = laplace)

- attr(*, "class")= chr "naiveBayes"

> predictedX<-predict(rb,train)

> predictedX

[1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[26] 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[51] 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[76] 1 0 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1

[101] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[126] 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[151] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[176] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[201] 0 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[226] 1 1 1 1 1 1 1 1 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1

[251] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[276] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1

[301] 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[326] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 1 1 1 1 1

[351] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[376] 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 0 1 1 1

[401] 1 1 1 1 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1

[426] 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1

[451] 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[476] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1

[501] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1

[526] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1

[551] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[576] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[601] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0

[626] 1 1 1 1 1 1 1 1 1 0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1

[651] 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1

[676] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[701] 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[726] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[751] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1

[776] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 0

[801] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1

[826] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[851] 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[876] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[901] 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[926] 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1

[951] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[976] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1001] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1026] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1051] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1076] 0 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1101] 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1126] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1151] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1176] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1201] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1226] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1251] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1276] 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1

[1301] 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1

[1326] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1351] 1 1 0 1 1 1 1 0 1 1 0 1 1 1 1 1 1 0 1 1 1 1 1 1 1

[1376] 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1401] 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 0 1 1 1 1 1 1 0

[1426] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1451] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1476] 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1

[1501] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1

[1526] 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1

[1551] 1 1 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1576] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1

[1601] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1626] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1651] 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1

[1676] 1 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1

[1701] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 0 0 1 1 1 1

[1726] 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1751] 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1776] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1801] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1

[1826] 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1851] 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1876] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1901] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1926] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1951] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[1976] 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 0 1 1 1 1 0 1 0 1 1

[2001] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2026] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1

[2051] 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2076] 1 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1

[2101] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1

[2126] 0 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 0

[2151] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2176] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0

[2201] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2226] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2251] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2276] 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2301] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2326] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2351] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2376] 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 0

[2401] 1 1 0 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1

[2426] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2451] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2476] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2501] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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[2601] 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2626] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2651] 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1

[2676] 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2701] 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1

[2726] 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2751] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2776] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1

[2801] 1 1 1 1 0 0 1 0 1 1 0 1 1 1 1 1 1 1 1 1 0 1 1 1 1

[2826] 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1

[2851] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2876] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

[2901] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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