> 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.

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

> library(e1071)

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

> rb$levels

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$ tables :List of 9

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

.. .. ..$ RESOURCE: NULL

..$ MGR\_ID : num [1:2, 1:2] 26738 25943 32239 36142

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

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..$ ROLE\_ROLLUP\_1 : num [1:2, 1:2] 117554 116916 6510 11087

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..$ ROLE\_ROLLUP\_2 : num [1:2, 1:2] 118207 118308 6977 4359

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.. .. ..$ 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

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.. .. ..$ 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)

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.. .. ..$ 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

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

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

.. .. ..$ ROLE\_ROLLUP\_1: NULL

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.. .. ..$ 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"

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..$ 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 1 0 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 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 1 0 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 0 1 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 0 1 1 1 1

[526] 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

[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

[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 0 1 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 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 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

[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

[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

[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

[926] 1 1 1 0 0 1 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

[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

[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

[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

[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

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

[2126] 0 1 1 1 1 1 0 1 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 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 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

[2526] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1

[2551] 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

[2576] 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

[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

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

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[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

[2926] 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

[2951] 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

[2976] 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

[3001] 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

[3026] 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

[3051] 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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