

# Modèle LGD

```
In [1]: import numpy as np
import pandas as pd

In [3]: datos_preprocesados_respaldo = pd.read_csv('C:/Users/IDEAPAD5/Desktop/Python Udemy/Model LGD/datos_preprocesado

C:\Users\IDEAPAD5\AppData\Local\Temp\ipykernel_17212\1458827369.py:1: DtypeWarning: Columns (19,47) have mixed
types. Specify dtype option on import or set low_memory=False.
    datos_preprocesados_respaldo = pd.read_csv('C:/Users/IDEAPAD5/Desktop/Python Udemy/Model LGD/datos_preprocesado
dos.csv', index_col=0)

In [4]: datos_preprocesados = datos_preprocesados_respaldo

In [5]: # Exploration des données

In [6]: datos_preprocesados.head()

Out[6]:
```

	member_id	loan_amnt	funded_amnt	funded_amnt_inv	term	int_rate	installment	grade	sub_grade	emp_title	...	Subgradu
	id											
1	1077501	1296599	5000	5000	4975.0	36 months	10.65	162.87	B	B2	NaN	...
2	1077430	1314167	2500	2500	2500.0	60 months	15.27	59.83	C	C4	Ryder	...
3	1077175	1313524	2400	2400	2400.0	36 months	15.96	84.33	C	C5	NaN	...
4	1076863	1277178	10000	10000	10000.0	36 months	13.49	339.31	C	C1	AIR RESOURCES BOARD	...
5	1075358	1311748	3000	3000	3000.0	60 months	12.69	67.79	B	B5	University Medical Group	...

5 rows × 206 columns

Établissons les défauts Pour le modèle LGD, nous avons besoin du pourcentage d'exposition qui a été perdu après que le client ait fait défaut. Ces données sont disponibles dans notre base de données. Il ne serait pas correct d'inclure toutes les observations que nous définissons comme "défaut" dans le modèle PD parce qu'il est possible que certains clients qui ont fait défaut "temporairement" ont commencé à rembourser lorsque leur situation s'est améliorée. C'est pourquoi, dans les modèles LGD et EAD (Exposition au Défaut), nous n'inclurons que les clients qui ont eu suffisamment de temps pour rembourser et ne l'ont pas fait. Autrement dit, nous inclurons uniquement les clients qui ont été radiés ou "written off" en anglais. C'est-à-dire, ceux inclus dans les catégories : 'Charged Off' 'Does not meet the credit policy. Status: Charged Off'

```
In [8]: datos_preprocesados['loan_status'].unique()

Out[8]: array(['Fully Paid', 'Charged Off', 'Current', 'Default',
   'Late (31-120 days)', 'In Grace Period', 'Late (16-30 days)',
   'Does not meet the credit policy. Status:Fully Paid',
   'Does not meet the credit policy. Status:Charged Off'],
  dtype=object)

In [9]: datos_defaults = datos_preprocesados[datos_preprocesados['loan_status'].isin(['Charged Off',
   'Does not meet the credit policy. Status: Charged Off'])]

In [10]: datos_defaults.shape

Out[10]: (43236, 206)

In [11]: datos_preprocesados.shape

Out[11]: (466285, 206)
```

## Variables Indépendantes

Les variables indépendantes que nous utiliserons pour les modèles LGD et EAD sont les mêmes que celles que nous avons utilisées pour le modèle PD. Rappelons-nous que lors de la construction du modèle PD, nous avons ignoré certaines variables. Vérifions s'il y a toujours des données manquantes dans les variables que nous souhaitons utiliser.

```
In [13]: pd.options.display.max_rows = None
```

```
Tn [14]: # sommes des nulls
```

```
In [15]: datos_defaults.isnull().sum()
```

```
Out[15]:
```

member_id	0
loan_amnt	0
funded_amnt	0
funded_amnt_inv	0
term	0
int_rate	0
installment	0
grade	0
sub_grade	0
emp_title	3287
emp_length	2337
home_ownership	0
annual_inc	0
verification_status	0
issue_d	0
loan_status	0
pymnt_plan	0
url	0
desc	27396
purpose	0
title	3
zip_code	0
addr_state	0
dti	0
delinq_2yrs	0
earliest_cr_line	3
inq_last_6mths	0
mths_since_last_delinq	23950
mths_since_last_record	37821
open_acc	0
pub_rec	0
revol_bal	0
revol_util	53
total_acc	0
initial_list_status	0
out_prncp	0
out_prncp_inv	0
total_pymnt	0
total_pymnt_inv	0
total_rec_prncp	0
total_rec_int	0
total_rec_late_fee	0
recoveries	0
collection_recovery_fee	0
last_pymnt_d	376
last_pymnt_amnt	0
next_pymnt_d	42475
last_credit_pull_d	6
collections_12_mths_ex_med	28
mths_since_last_major_derog	35283
policy_code	0
application_type	0
annual_inc_joint	43236
dti_joint	43236
verification_status_joint	43236
acc_now_delinq	0
tot_coll_amt	10780
tot_cur_bal	10780
open_acc_6m	43236
open_il_6m	43236
open_il_12m	43236
open_il_24m	43236
mths_since_rcnt_il	43236
total_bal_il	43236
il_util	43236
open_rv_12m	43236
open_rv_24m	43236
max_bal_bc	43236
all_util	43236
total_rev_hi_lim	0
inq_fi	43236
total_cu_tl	43236
inq_last_12m	43236
term_num	0
emp_length_num	0
fecha_credito	0
meses_credito	0
fecha_lineacredito_inicial	3
meses_lineacredito	0
Casa_ANY	0
Casa_MORTGAGE	0
Casa_NONE	0
Casa_OTHER	0
Casa_OWN	0
Casa_RENT	0

Proposito_car	0
Proposito_credit_card	0
Proposito_debt_consolidation	0
Proposito_educational	0
Proposito_home_improvement	0
Proposito_house	0
Proposito_major_purchase	0
Proposito_medical	0
Proposito_moving	0
Proposito_other	0
Proposito_renewable_energy	0
Proposito_small_business	0
Proposito_vacation	0
Proposito_wedding	0
Grados_A	0
Grados_B	0
Grados_C	0
Grados_D	0
Grados_E	0
Grados_F	0
Grados_G	0
Estado_Lista_f	0
Estado_Lista_w	0
Direccion_AK	0
Direccion_AL	0
Direccion_AR	0
Direccion_AZ	0
Direccion_CA	0
Direccion_CO	0
Direccion_CT	0
Direccion_DC	0
Direccion_DE	0
Direccion_FL	0
Direccion_GA	0
Direccion_HI	0
Direccion_IA	0
Direccion_ID	0
Direccion_IL	0
Direccion_IN	0
Direccion_KS	0
Direccion_KY	0
Direccion_LA	0
Direccion_MA	0
Direccion_MD	0
Direccion_ME	0
Direccion_MI	0
Direccion_MN	0
Direccion_MO	0
Direccion_MS	0
Direccion_MT	0
Direccion_NC	0
Direccion_NE	0
Direccion_NH	0
Direccion_NJ	0
Direccion_NM	0
Direccion_NV	0
Direccion_NY	0
Direccion_OH	0
Direccion_OK	0
Direccion_OR	0
Direccion_PA	0
Direccion_RI	0
Direccion_SC	0
Direccion_SD	0
Direccion_TN	0
Direccion_TX	0
Direccion_UT	0
Direccion_VA	0
Direccion_VT	0
Direccion_WA	0
Direccion_WI	0
Direccion_WV	0
Direccion_WY	0
Estado_Credito_Charged Off	0
Estado_Credito_Current	0
Estado_Credito_Default	0
Estado_Credito_Does not meet the credit policy. Status:Charged Off	0
Estado_Credito_Does not meet the credit policy. Status:Fully Paid	0
Estado_Credito_Fully Paid	0
Estado_Credito_In Grace Period	0
Estado_Credito_Late (16-30 days)	0
Estado_Credito_Late (31-120 days)	0
Verificacion_Not Verified	0
Verificacion_Source Verified	0
Verificacion_Verified	0
Subgrado_A1	0
Subgrado_A2	0
Subgrado_A3	0
Subgrado_A4	0

```

Subgrado_A5          0
Subgrado_B1          0
Subgrado_B2          0
Subgrado_B3          0
Subgrado_B4          0
Subgrado_B5          0
Subgrado_C1          0
Subgrado_C2          0
Subgrado_C3          0
Subgrado_C4          0
Subgrado_C5          0
Subgrado_D1          0
Subgrado_D2          0
Subgrado_D3          0
Subgrado_D4          0
Subgrado_D5          0
Subgrado_E1          0
Subgrado_E2          0
Subgrado_E3          0
Subgrado_E4          0
Subgrado_E5          0
Subgrado_F1          0
Subgrado_F2          0
Subgrado_F3          0
Subgrado_F4          0
Subgrado_F5          0
Subgrado_G1          0
Subgrado_G2          0
Subgrado_G3          0
Subgrado_G4          0
Subgrado_G5          0
buenos_malos        0
dtype: int64

```

Les variables indépendantes dans les modèles LGD et EAD ne doivent pas nécessairement être binaires (dummies). Nous avons construit le modèle PD de la manière la plus facile à comprendre car c'est une exigence du régulateur. Les résultats du modèle PD (la grille de score) sont accessibles au public pour les clients ou les clients potentiels. En revanche, les modèles LGD et EAD sont destinés à un usage interne par l'institution financière, et par conséquent, il n'est pas nécessaire qu'ils soient simples et faciles à interpréter pour tous. Pour cette raison, pour les variables discrètes des modèles LGD et EAD, nous créerons autant de dummies que de catégories dans la variable. De plus, nous pouvons utiliser les variables continues sans nécessité de classification fine ou grossière.

Nous pouvons inclure les variables "mths..." que nous venons de mentionner comme variables continues sans besoin de les classer. Cependant, nous devons traiter les données manquantes de ces variables. Lorsque nous n'avons pas plus d'informations, l'approche la plus conservatrice en ce qui concerne le risque est idéale. Dans ce cas, ce serait de mettre 0 mois.

```
In [18]: datos_defaults['mths_since_last_delinq'].fillna(0, inplace = True)

C:\Users\IDEAPAD5\AppData\Local\Temp\ipykernel_17212\2685258781.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
    datos_defaults['mths_since_last_delinq'].fillna(0, inplace = True)
```

```
In [21]: # Mettons des zéros dans les données manquantes de mths_since_last_record
```

```
In [22]: datos_defaults['mths_since_last_record'].fillna(0, inplace = True)

C:\Users\IDEAPAD5\AppData\Local\Temp\ipykernel_17212\2237890873.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
    datos_defaults['mths_since_last_record'].fillna(0, inplace = True)
```

```
In [25]: # Vérifions qu'il n'y ait pas de données manquantes
```

```
In [26]: datos_defaults.isnull().sum()
```

```
Out[26]: member_id          0
loan_amnt           0
funded_amnt         0
funded_amnt_inv     0
term                0
int_rate             0
installment         0
grade                0
sub_grade            0
emp_title            3287
emp_length           2337
home_ownership       0
annual_inc            0
verification_status   0
issue_d               0
```

loan_status	0
pymnt_plan	0
url	0
desc	27396
purpose	0
title	3
zip_code	0
addr_state	0
dti	0
delinq_2yrs	0
earliest_cr_line	3
inq_last_6mths	0
mths_since_last_delinq	0
mths_since_last_record	0
open_acc	0
pub_rec	0
revol_bal	0
revol_util	53
total_acc	0
initial_list_status	0
out_prncp	0
out_prncp_inv	0
total_pymnt	0
total_pymnt_inv	0
total_rec_prncp	0
total_rec_int	0
total_rec_late_fee	0
recoveries	0
collection_recovery_fee	0
last_pymnt_d	376
last_pymnt_amnt	0
next_pymnt_d	42475
last_credit_pull_d	6
collections_12_mths_ex_med	28
mths_since_last_major_derog	35283
policy_code	0
application_type	0
annual_inc_joint	43236
dti_joint	43236
verification_status_joint	43236
acc_now_delinq	0
tot_coll_amt	10780
tot_cur_bal	10780
open_acc_6m	43236
open_il_6m	43236
open_il_12m	43236
open_il_24m	43236
mths_since_rcnt_il	43236
total_bal_il	43236
il_util	43236
open_rv_12m	43236
open_rv_24m	43236
max_bal_bc	43236
all_util	43236
total_rev_hi_lim	0
inq_fi	43236
total_cu_tl	43236
inq_last_12m	43236
term_num	0
emp_length_num	0
fecha_credito	0
meses_credito	0
fecha_lineacredito_inicial	3
meses_lineacredito	0
Casa_ANY	0
Casa_MORTGAGE	0
Casa_NONE	0
Casa_OTHER	0
Casa_OWN	0
Casa_RENT	0
Proposito_car	0
Proposito_credit_card	0
Proposito_debt_consolidation	0
Proposito_educational	0
Proposito_home_improvement	0
Proposito_house	0
Proposito_major_purchase	0
Proposito_medical	0
Proposito_moving	0
Proposito_other	0
Proposito_renewable_energy	0
Proposito_small_business	0
Proposito_vacation	0
Proposito_wedding	0
Grados_A	0
Grados_B	0
Grados_C	0
Grados_D	0
Grados_E	0

Grados_F	0
Grados_G	0
Estado_Lista_f	0
Estado_Lista_w	0
Direccion_AK	0
Direccion_AL	0
Direccion_AR	0
Direccion_AZ	0
Direccion_CA	0
Direccion_CO	0
Direccion_CT	0
Direccion_DC	0
Direccion_DE	0
Direccion_FL	0
Direccion_GA	0
Direccion_HI	0
Direccion_IA	0
Direccion_ID	0
Direccion_IL	0
Direccion_IN	0
Direccion_KS	0
Direccion_KY	0
Direccion_LA	0
Direccion_MA	0
Direccion_MD	0
Direccion_ME	0
Direccion_MI	0
Direccion_MN	0
Direccion_MO	0
Direccion_MS	0
Direccion_MT	0
Direccion_NC	0
Direccion_NE	0
Direccion_NH	0
Direccion_NJ	0
Direccion_NM	0
Direccion_NV	0
Direccion_NY	0
Direccion_OH	0
Direccion_OK	0
Direccion_OR	0
Direccion_PA	0
Direccion_RI	0
Direccion_SC	0
Direccion_SD	0
Direccion_TN	0
Direccion_TX	0
Direccion_UT	0
Direccion_VA	0
Direccion_VT	0
Direccion_WA	0
Direccion_WI	0
Direccion_WV	0
Direccion_WY	0
Estado_Credito_Charged Off	0
Estado_Credito_Current	0
Estado_Credito_Default	0
Estado_Credito_Does not meet the credit policy. Status:Charged Off	0
Estado_Credito_Does not meet the credit policy. Status:Fully Paid	0
Estado_Credito_Fully Paid	0
Estado_Credito_In Grace Period	0
Estado_Credito_Late (16-30 days)	0
Estado_Credito_Late (31-120 days)	0
Verificacion_Not Verified	0
Verificacion_Source Verified	0
Verificacion_Verified	0
Subgrado_A1	0
Subgrado_A2	0
Subgrado_A3	0
Subgrado_A4	0
Subgrado_A5	0
Subgrado_B1	0
Subgrado_B2	0
Subgrado_B3	0
Subgrado_B4	0
Subgrado_B5	0
Subgrado_C1	0
Subgrado_C2	0
Subgrado_C3	0
Subgrado_C4	0
Subgrado_C5	0
Subgrado_D1	0
Subgrado_D2	0
Subgrado_D3	0
Subgrado_D4	0
Subgrado_D5	0
Subgrado_E1	0
Subgrado_E2	0
Subgrado_E3	0

```

Subgrado_E4          0
Subgrado_E5          0
Subgrado_F1          0
Subgrado_F2          0
Subgrado_F3          0
Subgrado_F4          0
Subgrado_F5          0
Subgrado_G1          0
Subgrado_G2          0
Subgrado_G3          0
Subgrado_G4          0
Subgrado_G5          0
buenos_malos         0
dtype: int64

```

## Variable dépendante du modèle LGD : Taux de Récupération

```

In [27]: #Nous pouvons trouver le montant récupéré après le défaut dans la colonne 'recoveries'
#Nous supposerons que la colonne 'funded_amnt' reflète le montant total perdu lorsque l'emprunteur a fait défaut
#Nous pouvons calculer le Taux de Récupération = recoveries / funded amount

```

```

In [28]: datos_defaults['tasa_recuperacion'] = datos_defaults['recoveries'] / datos_defaults['funded_amnt']

C:\Users\IDEAPAD5\AppData\Local\Temp\ipykernel_17212\2851705466.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
    datos_defaults['tasa_recuperacion'] = datos_defaults['recoveries'] / datos_defaults['funded_amnt']

```

```

In [29]: # description 'tasa_recuperacion'

```

```

In [30]: datos_defaults['tasa_recuperacion'].describe()

```

```

Out[30]:
count    43236.000000
mean      0.060820
std       0.089770
min       0.000000
25%      0.000000
50%      0.029466
75%      0.114044
max       1.220774
Name: tasa_recuperacion, dtype: float64

```

Alors que c'est un taux, nous nous attendions à un nombre entre 0 et 1. Les données réelles ne sont pas parfaites ! Il peut y avoir des divergences en raison de facteurs comptables ou, dans un cas très particulier, imaginez que lors de la liquidation de la garantie et après déduction de tous les coûts associés, la banque a obtenu plus d'argent que ce qui lui était dû... Pour rester cohérents avec le modèle, dans ces cas, nous allons tronquer les données pour qu'elles soient dans la plage entre 0 et 1.

```

In [31]: datos_defaults['tasa_recuperacion'] = np.where(datos_defaults['tasa_recuperacion'] > 1, 1, datos_defaults['tasa_recuperacion'])

C:\Users\IDEAPAD5\AppData\Local\Temp\ipykernel_17212\3317527587.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
    datos_defaults['tasa_recuperacion'] = np.where(datos_defaults['tasa_recuperacion'] > 1, 1, datos_defaults['tasa_recuperacion'])

```

```

In [32]: datos_defaults['tasa_recuperacion'] = np.where(datos_defaults['tasa_recuperacion'] < 0, 0, datos_defaults['tasa_recuperacion'])

C:\Users\IDEAPAD5\AppData\Local\Temp\ipykernel_17212\4125690315.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
    datos_defaults['tasa_recuperacion'] = np.where(datos_defaults['tasa_recuperacion'] < 0, 0, datos_defaults['tasa_recuperacion'])

```

```

In [ ]: datos_defaults['tasa_recuperacion'].describe()

```

## Variable dépendante du modèle EAD : Facteur de conversion de crédit

Avec les données que nous avons dans la base, nous pouvons estimer le facteur de conversion de crédit. La colonne 'total\_rec\_prncp' représente le total des paiements effectués ou crédités au capital du prêt. En cas de défaut de l'emprunteur, celui-ci devrait rembourser le montant emprunté (funded amount) moins les paiements effectués au capital.

Ainsi, le facteur de conversion de crédit (FCC) serait égal à la proportion du montant emprunté (funded\_amnt) que l'emprunteur doit encore rembourser :  $(\text{funded\_amnt} - \text{total\_rec\_prncp}) / \text{funded\_amnt}$

```
In [36]: datos_defaults['FCC'] = (datos_defaults['funded_amnt'] - datos_defaults['total_rec_prncp']) / datos_defaults['funded_amnt']

C:\Users\IDEAPAD5\AppData\Local\Temp\ipykernel_17212\2872504495.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
    datos_defaults['FCC'] = (datos_defaults['funded_amnt'] - datos_defaults['total_rec_prncp']) / datos_defaults['funded_amnt']
```

```
In [37]: # description de FCC
```

```
In [38]: datos_defaults['FCC'].describe()
```

```
Out[38]: count    43236.000000
mean      0.735952
std       0.200742
min       0.000438
25%      0.632088
50%      0.789908
75%      0.888543
max       1.000000
Name: FCC, dtype: float64
```

Nous constatons que le FCC est un taux compris entre 0 et 1. Lorsque le FCC est zéro, cela signifie que le capital récupéré est égal au montant accordé, c'est-à-dire que le crédit a été entièrement remboursé. Si le FCC est égal à un, cela signifie que le capital récupéré est nul, c'est-à-dire que rien du crédit n'a été remboursé, et le montant total est dû.

```
In [266]: # Export to *.csv
```

```
In [42]: datos_defaults.to_csv('datos_defaults.csv')
```

## Explorando las variables dependientes

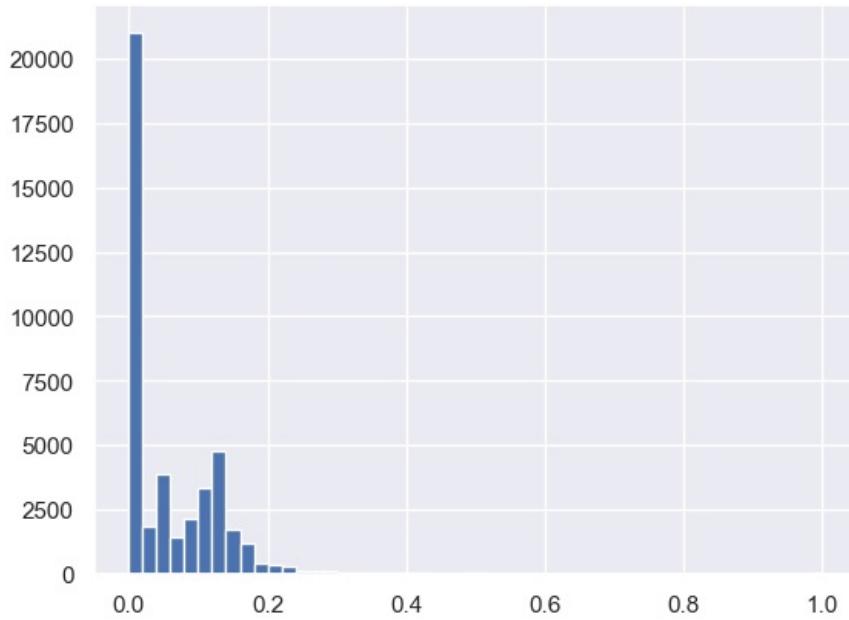
Comme nous l'avons vu lors des sessions précédentes, les variables dépendantes pour les modèles LGD et EAD, c'est-à-dire le taux de récupération et le facteur de conversion de crédit respectivement, sont restreintes à l'intervalle de 0 à 1. Explorons visuellement

```
In [43]: import matplotlib.pyplot as plt
import seaborn as sns
sns.set()
```

```
In [43]: # histograma taux de recuperation
```

```
In [44]: plt.hist(datos_defaults['tasa_recuperacion'], bins = 50)
```

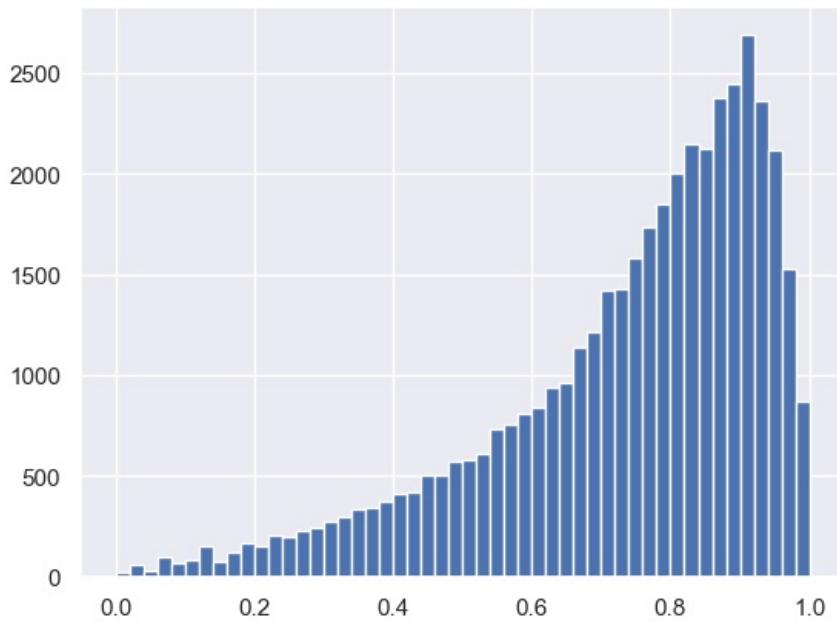
```
Out[44]: (array([2.1023e+04, 1.8370e+03, 3.8730e+03, 1.3940e+03, 2.1330e+03,
   3.3440e+03, 4.7650e+03, 1.7130e+03, 1.1790e+03, 4.0600e+02,
   3.4100e+02, 2.7400e+02, 1.1700e+02, 9.3000e+01, 8.1000e+01,
   7.3000e+01, 5.4000e+01, 7.2000e+01, 5.7000e+01, 3.0000e+01,
   4.7000e+01, 2.7000e+01, 1.7000e+01, 1.5000e+01, 2.0000e+01,
   2.3000e+01, 1.7000e+01, 7.0000e+00, 1.1000e+01, 7.0000e+00,
   8.0000e+00, 7.0000e+00, 7.0000e+00, 8.0000e+00, 7.0000e+00,
   1.0000e+01, 6.0000e+00, 1.1000e+01, 9.0000e+00, 9.0000e+00,
   6.0000e+00, 6.0000e+00, 6.0000e+00, 3.0000e+00, 9.0000e+00,
   9.0000e+00, 1.5000e+01, 8.0000e+00, 9.0000e+00, 3.3000e+01]),
 array([0. , 0.02, 0.04, 0.06, 0.08, 0.1 , 0.12, 0.14, 0.16, 0.18, 0.2 ,
  0.22, 0.24, 0.26, 0.28, 0.3 , 0.32, 0.34, 0.36, 0.38, 0.4 , 0.42,
  0.44, 0.46, 0.48, 0.5 , 0.52, 0.54, 0.56, 0.58, 0.6 , 0.62, 0.64,
  0.66, 0.68, 0.7 , 0.72, 0.74, 0.76, 0.78, 0.8 , 0.82, 0.84, 0.86,
  0.88, 0.9 , 0.92, 0.94, 0.96, 0.98, 1. ]),  
<BarContainer object of 50 artists>)
```



```
In [45]: # histo Factor de Conversion de Crédit FCC
```

```
In [46]: plt.hist(datos_defaults['FCC'], bins = 50)
```

```
Out[46]: (array([ 20.,   60.,   29.,   97.,   70.,   84.,  150.,   78.,  124.,
       170.,  152.,  208.,  199.,  228.,  242.,  276.,  300.,  335.,
       339.,  376.,  412.,  421.,  505.,  505.,  575.,  583.,  614.,
       735.,  756.,  812.,  840.,  942.,  959., 1137., 1217., 1418.,
      1431., 1580., 1732., 1850., 2003., 2151., 2123., 2376., 2447.,
      2693., 2366., 2115., 1527.,  874.]),
 array([4.3800000e-04, 2.0429240e-02, 4.0420480e-02, 6.0411720e-02,
    8.0402960e-02, 1.0039420e-01, 1.2038544e-01, 1.4037668e-01,
    1.6036792e-01, 1.8035916e-01, 2.0035040e-01, 2.2034164e-01,
    2.4033288e-01, 2.6032412e-01, 2.8031536e-01, 3.0030660e-01,
    3.2029784e-01, 3.4028908e-01, 3.6028032e-01, 3.8027156e-01,
    4.0026280e-01, 4.2025404e-01, 4.4024528e-01, 4.6023652e-01,
    4.8022776e-01, 5.0021900e-01, 5.2021024e-01, 5.4020148e-01,
    5.6019272e-01, 5.8018396e-01, 6.0017520e-01, 6.2016644e-01,
    6.4015768e-01, 6.6014892e-01, 6.8014016e-01, 7.0013140e-01,
    7.2012264e-01, 7.4011388e-01, 7.6010512e-01, 7.8009636e-01,
    8.0008760e-01, 8.2007884e-01, 8.4007008e-01, 8.6006132e-01,
    8.8005256e-01, 9.0004380e-01, 9.2003504e-01, 9.4002628e-01,
    9.6001752e-01, 9.8000876e-01, 1.0000000e+00]),
 <BarContainer object of 50 artists>)
```



## Préparation des variables pour le modèle LGD

Rappelons que le modèle LGD sera composé de deux étapes : LGD0 : Nous allons déterminer si le taux de récupération est zéro ou différent de zéro avec une régression logistique LGD1 : Pour les observations qui sont différentes de zéro, nous prédirons le taux de récupération avec une régression linéaire

```
In [96]: #Générer la variable dépendante pour la première étape (LGD0)
#Nous désignerons cette variable binaire comme "tasa_recuperacion_0" :
#elle prendra la valeur de 1 si le taux de récupération est zéro, et 0 pour toute autre valeur.
```

```
In [97]: datos_defaults['tasa_recuperacion_0'] = np.where(datos_defaults['tasa_recuperacion'] == 0, 1, 0)
```

```
C:\Users\IDEAPAD5\AppData\Local\Temp\ipykernel_17212\239130532.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
datos_defaults['tasa_recuperacion_0'] = np.where(datos_defaults['tasa_recuperacion'] == 0, 1, 0)
```

```
In [98]: datos_defaults['tasa_recuperacion_0']
```

```
Out[98]: id
1077430    0
1071795    0
1071570    0
1064687    0
1069057    0
1039153    1
1069559    0
1069800    1
1069657    0
1069465    0
1069248    0
1069243    0
1069410    1
1069126    0
```

1069093	0
1068906	0
1060981	0
1068542	0
1068509	0
1068309	0
1068012	0
1068202	0
1068006	0
1068179	0
1066215	1
1068111	0
1068091	0
1067794	0
1068018	1
1067818	1
1067644	0
1067364	0
1067152	0
1062471	0
1067126	1
1067324	0
1067102	0
1067265	0
1067038	0
1031265	0
1066835	1
1063280	0
1066798	1
1066766	0
1066613	0
1065648	0
1066503	0
1048526	0
1066232	0
1066162	0
1063447	0
1066112	0
1066071	1
1065026	0
1057001	0
1065513	0
1061788	0
1065467	1
1065649	0
1064102	0
1065348	1
1065304	0
1065103	0
1065254	0
1059620	1
1065196	0
1062248	1
1064754	0
1064727	0
1064636	0
1056865	0
1064783	0
1064608	0
1064251	0
1035800	1
1064366	0
1064150	0
1029473	0
1063949	0
1064133	0
1063751	0
1063788	0
1063781	0
1063778	0
1063693	0
1057424	0
1063448	0
1063421	1
1063393	1
1059525	0
1063069	0
1062997	0
1062918	0
1062976	0
1062897	0
1059486	1
1062851	0
1062844	0
1062864	0
1062734	0
1062555	0
1062606	0
1062536	1

1036838	0
1062478	0
1062454	1
1062330	1
1062414	1
1062401	0
1031348	0
1062268	0
1062146	0
1062257	0
1062250	0
997521	0
1058624	0
1031266	1
1061914	1
1061741	0
1057749	0
1061869	1
1061661	0
1061643	1
1058931	0
1061496	0
1058858	0
1060436	0
1060995	0
1061135	0
1060934	0
1061130	0
1060553	0
1060979	1
1060970	0
1060720	0
1060485	1
1051471	0
1053763	1
1060086	0
1059948	0
1060019	0
1053454	0
1059874	0
1032863	0
1057243	0
1059157	0
1059522	0
1059502	0
1055994	0
1059461	1
1059319	0
1059291	0
1059409	0
1058892	0
1057403	1
1054453	1
1058824	0
1058734	0
1058515	0
1058110	1
1058519	0
1058483	0
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1058126	0
1058111	0
1058082	0
1058186	0
1058177	0
1058162	1
1057750	0
1056770	0
1057720	0
1057358	1
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1057055	0
1057204	0
1057083	1
1057110	0
1057031	0
1056799	0
1054308	0
1056273	0
1056298	0
1056261	0
1056239	0
1056234	0
1053252	0
1055949	1

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1055723	0
1055873	0
1055838	0
1055716	0
1055834	0
1055636	0
1055566	0
1055509	0
1055527	0
1055322	0
1055300	0
1055468	0
1055260	0
1054703	0
1049553	1
1054692	0
1054653	0
1054445	0
1054630	0
1054607	0
1054034	0
1052220	0
1053953	1
1053935	1
1053917	0
1053702	0
1053718	0
1053500	0
1051349	0
1053529	0
1053445	0
1051079	0
1053280	1
1053251	1
1053092	1
1053090	0
1053217	0
1053041	0
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1052548	0
1052545	0
1052477	0
1052485	1
1052295	0
1052469	0
1052225	1
1052387	1
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1052376	0
1051809	1
1052102	0
1051764	0
1051720	1
1051710	0
1051694	0
1051410	1
1051442	0
1051609	0
1051591	0
1051355	0
1041216	0
1051124	0
1051048	1
1050995	1
1051186	0
1050921	0
1050934	0
1050905	0
1050143	0
1050329	0
929732	0
1050229	0
1050080	0
1033731	0
1049691	1
1049522	0
1049562	0
1049201	0
1049225	0
1026422	0
1049180	1
1048887	0
1048874	1
1048337	1
1048016	0
1047552	1
1048535	0
1047357	0

1048710	0
1048659	0
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1048572	0
1048083	0
1048215	1
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1031182	0
1047982	1
1043020	0
1045540	1
1047368	0
1047604	0
1047322	0
1015821	0
1044585	0
1047248	0
1047409	0
1047260	0
1045978	0
1047133	1
1047061	0
1046905	0
1047031	0
1040467	1
1046255	1
1046826	0
1046792	0
1046552	0
623231	0
1046653	0
1046531	0
1044522	1
1033007	0
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1031634	1
1046029	0
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1045472	1
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1045045	0
1044994	0
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1044042	1
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1043012	0
1042746	0
1042948	0
1042915	0
1042914	1
1042630	0
1042771	0
1042579	0
1042157	0
1041447	1
1042195	0
1042060	0
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1041844	0
1041802	1
1041534	0
1041507	0
1041438	0
1037138	1
1041173	0
1040959	0
1037687	0
1040854	0
1040729	0
1040538	0
1040671	0
1040679	0
1040663	0
1037108	1

1040421	1
1038627	0
1033722	0
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1039279	0
1039258	1
1038907	0
1038475	0
1032033	1
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1038476	0
1038609	0
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1036336	0
927235	0
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1036060	0
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1035817	0
1029082	0
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1035255	1
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1034896	0
1035025	0
1034865	0
1034807	0
1033565	0
1034757	0
1034778	0
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1034017	0
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1034051	0
1033948	0
1033885	0
1033569	0
1016253	0
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1031222	0
1033047	0
1033033	0
1032577	0
1032771	0
1032337	0
1032352	0
1032334	1
1032519	1
1032260	0

1032392	0
896003	0
1032057	1
1031861	0
1031991	0
1031780	0
1030280	0
985283	0
1031521	0
1031691	0
1022421	0
1031500	0
1031647	0
1031462	0
1031468	0
1031631	1
1004345	1
1031278	0
1031054	0
1024037	0
1030851	1
1026295	0
1030778	0
1030558	0
1030354	0
1030551	0
1030264	0
1028867	0
1029779	0
1029334	0
1029200	0
1028658	0
1028586	0
1028591	0
1028216	0
1028164	0
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1026242	1
1027807	0
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1025947	0
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1026463	0
1026434	0
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1025554	0
1025596	0
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1025579	0
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1025108	0
1025100	0
1025163	0
1024798	0
1015995	1
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1024122	1
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1023946	0
1023909	0
1023972	0
1023842	0
1023860	0
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1020966	1
1023802	1
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1023542	0
1023275	0
1023219	0
1023172	0
1022961	0
1022829	0
1022452	0
1022563	0
1022134	0
1020342	1
1010659	0
1021379	0

1020990	0
1020845	0
1020640	1
1020546	0
1020343	0
1020326	0
1020303	0
1020291	0
1020220	0
1009012	0
1020042	0
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1018112	0
1018997	1
1019261	0
905122	0
1019040	1
1017623	0
1016236	0
1018707	0
1016245	0
1018784	1
1014923	1
1018550	0
1017154	0
909295	0
1018373	1
1018080	0
1017343	0
1018056	0
1016154	0
1017756	0
1017495	0
1017697	0
1017589	0
1017282	0
905862	1
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1016562	0
1016371	1
1016140	0
1016107	0
1015178	1
1016039	0
1015990	0
1015893	0
1015882	0
1015827	0
1015820	0
1015628	0
888558	0
1015136	1
1015102	0
1014937	0
1012953	1
1012584	1
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1014541	0
1014586	0
1014422	0
1014584	0
1014405	0
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1014100	0
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1013809	1
1012890	0
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950998	0
1012106	0
1012136	0
1012281	1
1011650	1
1012204	0
1012019	0
1012022	0
1011873	0
1011652	0
1011655	0
1010624	0
1011404	1
1011319	0
1011164	0
1010915	0
1011055	0

1011087	0
1010894	0
1011017	1
1010998	0
1003727	0
1010496	0
1010493	0
1010411	0
1010410	1
878883	0
1010321	0
868543	0
1010303	1
926571	0
1009946	0
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1010030	1
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1003720	0
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1009673	1
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1009563	0
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1009294	0
1009413	0
994506	0
1003712	0
1008915	0
1008845	0
1008832	0
1008504	0
1008519	1
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1007751	0
1007711	0
1007073	0
990658	0
1005939	1
1007386	1
1007014	0
1006812	0
1002546	0
1006769	0
1006398	0
1006579	0
1006564	0
1006372	0
1006364	0
998521	0
1006236	0
1005977	0
1005627	0
1005145	0
1005579	0
1005161	0
1004991	1
1004670	0
1004462	0
994164	1
1004151	0
1004114	1
1004215	1
1004175	0
1004044	0
1004167	1
1003925	0
1003771	0
1003708	0
977839	0
1003633	0
1002291	0
1003549	0
1003451	0
1002894	0
1003031	1
1003025	0
1002534	0
1001258	0
1002440	0

1002443	0
1002404	0
1002337	0
1002303	0
994522	1
1001994	0
994808	0
1001727	0
1001868	1
1001484	0
1001343	0
1001335	1
918617	0
1001151	0
1001241	1
1001365	0
1000967	0
1000468	0
1000643	1
1000396	0
1000594	0
1000321	0
1000262	0
1000267	1
973424	1
999816	1
999634	0
991421	1
999763	0
990118	0
982018	0
999295	0
999250	0
999248	0
998880	0
998505	1
998515	0
981610	0
998499	0
998559	1
998530	1
996693	0
984625	0
998194	0
956877	0
997879	0
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996517	0
997328	0
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996748	0
997329	0
997490	0
997241	0
960175	0
997204	0
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994715	1
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996550	0
995281	0
996814	0
996977	0
978549	0
996595	0
996437	0
996150	0
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995878	0
990813	0
976241	1
994078	1
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995296	0
993768	0
986535	0
994796	0
987906	0
995410	0
995009	0
993852	1
994681	0
994525	1
994529	0
994284	0
994249	0
993953	0

994182	0
994110	1
993754	0
993503	1
992433	0
992576	0
992218	1
991987	0
991964	0
991923	0
991819	0
991639	0
991801	0
990816	0
990709	0
990789	0
990527	0
990688	0
990687	0
973618	1
988301	1
990324	0
990043	0
989786	0
989313	0
989511	0
989253	0
987006	1
973488	0
977052	0
978229	0
988665	0
988461	0
988421	0
988410	0
985083	0
988131	0
988100	1
988204	0
987927	1
987921	0
987825	0
987890	1
987663	1
987633	0
987592	0
987770	0
987350	0
987341	1
987512	0
987255	0
987428	0
987103	0
982218	0
986800	0
986991	0
986723	0
986708	1
980381	0
986491	0
986451	0
986308	0
887071	0
986134	0
986214	1
986209	0
985932	1
985881	1
956541	0
985800	0
920743	1
985545	1
985357	0
985493	0
971928	0
981516	0
985214	0
881823	0
985127	0
985107	1
951028	0
905821	0
984148	0
984168	1
983992	0
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8619401     1
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10075668    0
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9934890     0
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9934676     0
9825536     0
9856168     1
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9695736     0
9007579     1
9684700     1
Name: tasa_recuperacion_0, dtype: int32
```

```
In [99]: # Ahora vamos a partir la base en dos: entreno y evaluacion, tanto para las variables independientes
# como para la variable dependiente (tasa_recuperacion_0)
```

```
# Maintenant, nous allons diviser la base en deux parties : entraînement et évaluation,
# tant pour les variables indépendantes que pour la variable dépendante (tasa_recuperacion_0)
```

```
In [100]: from sklearn.model_selection import train_test_split
```

```
In [132]: lgd0_independientes_entreno, lgd0_independientes_evaluacion, lgd0_dependiente_entreno, lgd0_dependiente_evaluacion = datos_defaults.drop(['buenos_malos', 'tasa_recuperacion', 'tasa_recuperacion_0', 'FCC'], axis = 1), datos_defaults
```

Dans notre base "lgd0\_independientes\_entreno", nous avons un grand nombre de variables dont nous n'avons pas besoin dans notre modèle. Affichons toutes les variables que nous avons dans le dataframe "lgd0\_independientes\_entreno".

```
In [134]: lgd0_independientes_entreno.columns.values
```

```

Out[134]: array(['member_id', 'loan_amnt', 'funded_amnt', 'funded_amnt_inv', 'term',
       'int_rate', 'installment', 'grade', 'sub_grade', 'emp_title',
       'emp_length', 'home_ownership', 'annual_inc',
       'verification_status', 'issue_d', 'loan_status', 'pymnt_plan',
       'url', 'desc', 'purpose', 'title', 'zip_code', 'addr_state', 'dti',
       'delinq_2yrs', 'earliest_cr_line', 'inq_last_6mths',
       'mths_since_last_delinq', 'mths_since_last_record', 'open_acc',
       'pub_rec', 'revol_bal', 'revol_util', 'total_acc',
       'initial_list_status', 'out_prncp', 'out_prncp_inv', 'total_pymnt',
       'total_pymnt_inv', 'total_rec_prncp', 'total_rec_int',
       'total_rec_late_fee', 'recoveries', 'collection_recovery_fee',
       'last_pymnt_d', 'last_pymnt_amnt', 'next_pymnt_d',
       'last_credit_pull_d', 'collections_12_mths_ex_med',
       'mths_since_last_major_derog', 'policy_code', 'application_type',
       'annual_inc_joint', 'dti_joint', 'verification_status_joint',
       'acc_now_delinq', 'tot_coll_amt', 'tot_cur_bal', 'open_acc_6m',
       'open_il_6m', 'open_il_12m', 'open_il_24m', 'mths_since_rcnt_il',
       'total_bal_il', 'il_util', 'open_rv_12m', 'open_rv_24m',
       'max_bal_bc', 'all_util', 'total_rev_hi_lim', 'inq_fi',
       'total_cu_tl', 'inq_last_12m', 'term_num', 'emp_length_num',
       'fecha_credito', 'meses_credito', 'fecha_lineacredito_inicial',
       'meses_lineacredito', 'Casa_ANY', 'Casa_MORTGAGE', 'Casa_NONE',
       'Casa_OTHER', 'Casa_OWN', 'Casa_RENT', 'Proposito_car',
       'Proposito_credit_card', 'Proposito_debt_consolidation',
       'Proposito_educational', 'Proposito_home_improvement',
       'Proposito_house', 'Proposito_major_purchase', 'Proposito_medical',
       'Proposito_moving', 'Proposito_other',
       'Proposito_renewable_energy', 'Proposito_small_business',
       'Proposito_vacation', 'Proposito_wedding', 'Grados_A', 'Grados_B',
       'Grados_C', 'Grados_D', 'Grados_E', 'Grados_F', 'Grados_G',
       'Estado_Lista_f', 'Estado_Lista_w', 'Direccion_AK', 'Direccion_AL',
       'Direccion_AR', 'Direccion_AZ', 'Direccion_CA', 'Direccion_CO',
       'Direccion_CT', 'Direccion_DC', 'Direccion_DE', 'Direccion_FL',
       'Direccion_GA', 'Direccion_HI', 'Direccion_IA', 'Direccion_ID',
       'Direccion_IL', 'Direccion_IN', 'Direccion_KS', 'Direccion_KY',
       'Direccion_LA', 'Direccion_MA', 'Direccion_MD', 'Direccion_ME',
       'Direccion_MI', 'Direccion_MN', 'Direccion_MO', 'Direccion_MS',
       'Direccion_MT', 'Direccion_NC', 'Direccion_NE', 'Direccion_NH',
       'Direccion_NJ', 'Direccion_NM', 'Direccion_NV', 'Direccion_NY',
       'Direccion_OH', 'Direccion_OK', 'Direccion_OR', 'Direccion_PA',
       'Direccion_RI', 'Direccion_SC', 'Direccion_SD', 'Direccion_TN',
       'Direccion_TX', 'Direccion_UT', 'Direccion_VA', 'Direccion_VT',
       'Direccion_WA', 'Direccion_WI', 'Direccion_WV', 'Direccion_WY',
       'Estado_Credito_Charged Off', 'Estado_Credito_Current',
       'Estado_Credito_Default',
       'Estado_Credito_Does not meet the credit policy. Status:Charged Off',
       'Estado_Credito_Does not meet the credit policy. Status:Fully Paid',
       'Estado_Credito_Fully Paid', 'Estado_Credito_In Grace Period',
       'Estado_Credito_Late (16-30 days)',
       'Estado_Credito_Late (31-120 days)', 'Verificacion_Not Verified',
       'Verificacion_Source Verified', 'Verificacion_Verified',
       'Sub grado_A1', 'Sub grado_A2', 'Sub grado_A3', 'Sub grado_A4',
       'Sub grado_A5', 'Sub grado_B1', 'Sub grado_B2', 'Sub grado_B3',
       'Sub grado_B4', 'Sub grado_B5', 'Sub grado_C1', 'Sub grado_C2',
       'Sub grado_C3', 'Sub grado_C4', 'Sub grado_C5', 'Sub grado_D1',
       'Sub grado_D2', 'Sub grado_D3', 'Sub grado_D4', 'Sub grado_D5',
       'Sub grado_E1', 'Sub grado_E2', 'Sub grado_E3', 'Sub grado_E4',
       'Sub grado_E5', 'Sub grado_F1', 'Sub grado_F2', 'Sub grado_F3',
       'Sub grado_F4', 'Sub grado_F5', 'Sub grado_G1', 'Sub grado_G2',
       'Sub grado_G3', 'Sub grado_G4', 'Sub grado_G5'], dtype=object)

```

Générons maintenant la liste des variables que nous inclurons dans notre modèle LGD. Ce sont pratiquement les mêmes variables que celles que nous avons utilisées dans notre modèle PD, à l'exception des 50 États. La base avec laquelle nous travaillons est beaucoup plus petite que la base du modèle PD et nous ne pouvons pas exiger autant.

```

In [136]: nombres_variables = [
    #'Casa_ANY', la sacamos cuando hacemos reglogistica_p_values.fit más abajo
    'Casa_MORTGAGE',
    'Casa_NONE',
    'Casa_OTHER',
    'Casa_OWN',
    'Casa_RENT',
    'Proposito_car',
    'Proposito_credit_card',
    'Proposito_debt_consolidation',
    'Proposito_educational',
    'Proposito_home_improvement',
    'Proposito_house',
    'Proposito_major_purchase',
    'Proposito_medical',
    'Proposito_moving',
    'Proposito_other',
    'Proposito_renewable_energy',
    'Proposito_small_business',
    'Proposito_vacation',
    'Proposito_wedding',
    'Grados_A',
    'Grados_B',
    'Grados_C',
    'Grados_D',
    'Grados_E',
    'Grados_F',
    'Grados_G',
    'Direccion_AK',
    'Direccion_AL',
    'Direccion_AR',
    'Direccion_AZ',
    'Direccion_CA',
    'Direccion_CO',
    'Direccion_CT',
    'Direccion_DC',
    'Direccion_DE',
    'Direccion_FL',
    'Direccion_GA',
    'Direccion_HI',
    'Direccion_IA',
    'Direccion_ID',
    'Direccion_IL',
    'Direccion_IN',
    'Direccion_KS',
    'Direccion_KY',
    'Direccion_LA',
    'Direccion_MA',
    'Direccion_MD',
    'Direccion_ME',
    'Direccion_MI',
    'Direccion_MN',
    'Direccion_MO',
    'Direccion_MS',
    'Direccion_MT',
    'Direccion_NC',
    'Direccion_NE',
    'Direccion_NH',
    'Direccion_NJ',
    'Direccion_NM',
    'Direccion_NV',
    'Direccion_NY',
    'Direccion_OH',
    'Direccion_OK',
    'Direccion_OR',
    'Direccion_PA',
    'Direccion_RI',
    'Direccion_SC',
    'Direccion_SD',
    'Direccion_TN',
    'Direccion_TX',
    'Direccion_UT',
    'Direccion_VA',
    'Direccion_VT',
    'Direccion_WA',
    'Direccion_WI',
    'Direccion_WV',
    'Direccion_WY'
]

```

```
'Grados_B',
'Grados_C',
'Grados_D',
'Grados_E',
'Grados_F',
'Grados_G',
'Estado_Lista_f',
'Estado_Lista_w',
'Verificacion_Not Verified',
'Verificacion_Source Verified',
'Verificacion_Verified',
'term_num', # aquí comienzan las numéricas
'emp_length_num',
'meses_credito',
'meses_lineacredito',
'funded_amnt',
'int_rate',
'installment',
'annual_inc',
'dti',
'delinq_2yrs',
'inq_last_6mths',
'mths_since_last_delinq',
'mths_since_last_record',
'open_acc',
'pub_rec',
'total_acc',
'acc_now_delinq',
'total_rev_hi_lim']
```

Nous avons cinq dummies de référence pour nos cinq variables catégoriques. Rappelons que nous ne pouvons pas inclure dans le modèle toutes les variables dummies liées à une variable catégorique d'origine. Nous devons retirer une variable de référence, tout comme nous l'avons fait dans le Modèle PD. Sinon, nous observerions une multicolinéarité dans notre modèle. Comme variables de référence, j'ai choisi les mêmes que pour le Modèle PD lorsque c'était possible, et dans les cas où cela n'était pas possible car elles étaient collinéaires, j'ai utilisé "other".

```
In [138...]: nombres_referencias = ['Casa_OTHER',
'Verificacion_Verified',
'Proposito_other',
'Grados_G',
'Estado_Lista_f']

In [139...]: #Maintenant, dans notre dataframe "lgd0_independientes_entreno", sélectionnons uniquement les variables indépendantes, c'est-à-dire celles incluses dans la liste "nombres_variables"

In [140...]: lgd0_independientes_entreno = lgd0_independientes_entreno[nombres_variables]

In [141...]: #Maintenant, nous pouvons mettre à jour le dataframe "lgd0_independientes_entreno" à nouveau, #en excluant les variables dummies de référence.

In [142...]: lgd0_independientes_entreno = lgd0_independientes_entreno.drop(nombres_referencias, axis = 1)

In [143...]: #Maintenant, le dataframe "lgd0_independientes_entreno" contient uniquement #les variables indépendantes dont nous avons besoin pour notre modèle.

In [144...]: lgd0_independientes_entreno.columns.values

Out[144]: array(['Casa_MORTGAGE', 'Casa_NONE', 'Casa_OWN', 'Casa_RENT',
'Proposito_car', 'Proposito_credit_card',
'Proposito_debt_consolidation', 'Proposito_educational',
'Proposito_home_improvement', 'Proposito_house',
'Proposito_major_purchase', 'Proposito_medical',
'Proposito_moving', 'Proposito_renewable_energy',
'Proposito_small_business', 'Proposito_vacation',
'Proposito_wedding', 'Grados_A', 'Grados_B', 'Grados_C',
'Grados_D', 'Grados_E', 'Grados_F', 'Estado_Lista_w',
'Verificacion_Not Verified', 'Verificacion_Source Verified',
'term_num', 'emp_length_num', 'meses_credito',
'meses_lineacredito', 'funded_amnt', 'int_rate', 'installment',
'annual_inc', 'dti', 'delinq_2yrs', 'inq_last_6mths',
'mths_since_last_delinq', 'mths_since_last_record', 'open_acc',
'pub_rec', 'total_acc', 'acc_now_delinq', 'total_rev_hi_lim'],
dtype=object)
```

## Modèle LGD : Régression Logistique

```
In [145...]: #Nous sommes prêts à générer la première étape du modèle LGD, c'est-à-dire la régression #logistique pour déterminer quelles observations ont un taux de récupération égal à zéro.

In [146...]: from sklearn.linear_model import LogisticRegression
from sklearn import metrics
```

```

In [147... # Définissons l'objet regresion de la classe LogisticRegression() avec le solveur 'liblinear' qui converge.

In [148... regresion = LogisticRegression(solver = 'liblinear') # 'liblinear', 'newton-cg', 'sag', 'saga', 'lbfgs' solvers

In [150... pd.options.display.max_rows = None

In [151... #Nous estimons le modèle en appliquant la méthode fit à l'objet regresion avec les variables
#indépendantes et dépendantes en tant que paramètres. La méthode fit estime le modèle et enregistre les résultats.

In [152... regresion.fit(lgd0_independientes_entreno, lgd0_dependiente_entreno)

Out[152]: LogisticRegression
          LogisticRegression(solver='liblinear')

In [153... #Du modèle PD, nous nous souvenons que la classe de Régression Logistique dans sklearn ne générait pas les valeurs
#C'est pourquoi nous avons dû définir une classe qui le faisait. Réutilisons le code que nous avons utilisé précédemment.

In [154... from sklearn import linear_model
import numpy as np
import scipy.stats as stat

class RegresionLogistica_con_p_values:
    """
    Wrapper Class for Logistic Regression which has the usual sklearn instance
    in an attribute self.model, and pvalues, z scores and estimated
    errors for each coefficient in

    self.z_scores
    self.p_values
    self.sigma_estimates

    as well as the negative hessian of the log Likelihood (Fisher information)

    self.F_ij
    """

    def __init__(self,*args,**kwargs):
        self.model = linear_model.LogisticRegression(*args,**kwargs, solver = 'liblinear')#,*args) #usar mismo solver

    def fit(self,X,y):
        self.model.fit(X,y)
        ##### Get p-values for the fitted model #####
        denom = (2.0*(1.0+np.cosh(self.model.decision_function(X)))) 
        denom = np.tile(denom,(X.shape[1],1)).T
        F_ij = np.dot((X/denom).T,X) ## Fisher Information Matrix
        Cramer_Rao = np.linalg.inv(F_ij) ## Inverse Information Matrix
        sigma_estimates = np.sqrt(np.diagonal(Cramer_Rao))
        z_scores = self.model.coef_[0]/sigma_estimates # z-score for eaach model coefficient
        p_values = [stat.norm.sf(abs(x))*2 for x in z_scores] ### two tailed test for p-values

        self.z_scores = z_scores
        self.p_values = p_values
        self.sigma_estimates = sigma_estimates
        self.F_ij = F_ij

In [155... # Nous ajustons le modèle en utilisant RegresionLogistica_con_p_values()

In [156... reglogistica_p_values = RegresionLogistica_con_p_values()

In [157... reglogistica_p_values.fit(lgd0_independientes_entreno, lgd0_dependiente_entreno.values.ravel())

C:\Users\IDEAPAD5\AppData\Local\Temp\ipykernel_17212\19788465.py:30: RuntimeWarning: invalid value encountered
in sqrt
    sigma_estimates = np.sqrt(np.diagonal(Cramer_Rao))
C:\Users\IDEAPAD5\AppData\Local\Temp\ipykernel_17212\19788465.py:31: RuntimeWarning: divide by zero encountered
in divide
    z_scores = self.model.coef_[0]/sigma_estimates # z-score for eaach model coefficient

In [159... lgd0_independientes_entreno.corr()

```

Out[159]:

	Casa_MORTGAGE	Casa_NONE	Casa_OWN	Casa_RENT	Proposito_car	Proposito_credit_card	Proposito_debt
Casa_MORTGAGE	1.000000	-0.012683	-0.276217	-0.837000	-0.022345		-0.012810
Casa_NONE	-0.012683	1.000000	-0.004409	-0.013359	-0.001430		0.015040
Casa_OWN	-0.276217	-0.004409	1.000000	-0.290943	0.006874		0.003809
Casa_RENT	-0.837000	-0.013359	-0.290943	1.000000	0.017981		0.010037
Proposito_car	-0.022345	-0.001430	0.006874	0.017981	1.000000		-0.045856
Proposito_credit_card	-0.012810	0.015040	0.003809	0.010037	-0.045856		1.000000
Proposito_debt_consolidation	0.006423	-0.009278	-0.031344	0.012238	-0.124294		-0.564068
Proposito_educational	-0.020287	-0.000636	0.002190	0.019049	-0.004494		-0.020396
Proposito_home_improvement	0.141556	-0.003291	0.047076	-0.167344	-0.023254		-0.105532
Proposito_house	-0.012902	-0.001146	-0.000684	0.012679	-0.008098		-0.036748
Proposito_major_purchase	-0.020681	-0.001978	0.007896	0.016410	-0.013977		-0.063429
Proposito_medical	-0.012029	-0.001585	0.010090	0.006496	-0.011198		-0.050820
Proposito_moving	-0.058106	-0.001381	-0.010947	0.063647	-0.009760		-0.044291
Proposito_renewable_energy	-0.000066	-0.000502	0.003579	-0.001887	-0.003547		-0.016095
Proposito_small_business	0.006859	-0.002585	-0.001047	-0.007163	-0.018261		-0.082872
Proposito_vacation	-0.019860	-0.001123	-0.002278	0.021229	-0.007931		-0.035994
Proposito_wedding	-0.021723	-0.001154	-0.006090	0.025247	-0.008152		-0.036996
Grados_A	0.035100	-0.003575	-0.005165	-0.031964	0.039893		0.046711
Grados_B	0.018924	0.007489	-0.009127	-0.014390	0.015811		0.078657
Grados_C	0.001612	-0.004357	-0.002882	0.000592	-0.005189		0.036014
Grados_D	-0.036669	0.001919	0.012414	0.029533	-0.012616		-0.040016
Grados_E	0.001100	-0.005643	-0.000245	-0.000613	-0.018673		-0.065637
Grados_F	-0.008750	0.004623	-0.000687	0.008945	-0.003569		-0.058929
Estado_Lista_w	0.013290	-0.003756	0.005120	-0.015261	-0.023507		0.033266
Verificacion_Not Verified	-0.094380	0.004617	0.006161	0.089356	0.030502		0.027221
Verificacion_Source Verified	-0.025376	-0.009146	0.018208	0.015685	0.003720		-0.002559
term_num	0.137350	-0.006176	-0.017404	-0.125771	-0.009175		-0.048907
emp_length_num	0.171861	-0.001798	-0.016426	-0.161231	-0.024013		-0.006607
meses_credito	-0.014792	0.010808	-0.024170	0.024203	0.064645		-0.076954
meses_lineacredito	-0.014792	0.010808	-0.024170	0.024203	0.064645		-0.076954
funded_amnt	0.210297	-0.001665	-0.036838	-0.187653	-0.070036		0.008512
int_rate	-0.032640	-0.001733	0.013467	0.025608	-0.046359		-0.117638
installment	0.174231	-0.000244	-0.031947	-0.154707	-0.072080		0.011030
annual_inc	0.214834	-0.003920	-0.046659	-0.186605	-0.016185		-0.025591
dti	0.010903	0.001229	0.007244	-0.014490	-0.059721		0.037251
delinq_2yrs	0.059336	0.015808	0.001404	-0.060301	-0.001726		-0.030319
inq_last_6mths	0.069642	-0.002221	0.001521	-0.071194	0.004879		-0.051724
mths_since_last_delinq	0.021521	0.001815	0.008164	-0.026194	-0.014237		-0.027639
mths_since_last_record	0.023895	-0.004891	0.003764	-0.025567	-0.004942		0.008917
open_acc	0.152371	-0.002038	-0.023343	-0.137589	-0.042350		0.039883
pub_rec	0.015825	-0.004546	0.006169	-0.018829	-0.004106		-0.000921
total_acc	0.246599	-0.000712	-0.032897	-0.226462	-0.044468		0.002027
acc_now_delinq	0.018620	-0.000788	-0.001235	-0.017716	0.003483		-0.000224
total_rev_hi_lim	0.152024	0.000748	0.004196	-0.152878	-0.040634		0.053725

44 rows × 44 columns

```
In [160]: # tableau des resultats
```

```
In [161]: nombres_var_independientes = lgd0_independientes_entreno.columns.values
tabla_resultados = pd.DataFrame(columns = ['Variable Independiente'], data = nombres_var_independientes)
tabla_resultados['Coeficientes'] = np.transpose(regresion.coef_)
tabla_resultados.index = tabla_resultados.index + 1
tabla_resultados.loc[0] = ['Intercepto', regresion.intercept_[0]]
tabla_resultados = tabla_resultados.sort_index()
p_values = reglogistica_p_values.p_values
p_values = np.append(np.nan, np.array(p_values))
```

```
tabla_resultados['p_values'] = p_values
```

In [162]: tabla\_resultados

	Variable Independiente	Coefficientes	p_values
0	Intercepto	7.424787e-03	NaN
1	Casa_MORTGAGE	1.684997e-03	9.992983e-01
2	Casa_NONE	-4.660223e-05	9.999995e-01
3	Casa_OWN	1.919526e-04	9.999728e-01
4	Casa_RENT	5.611031e-03	9.929489e-01
5	Proposito_car	-3.123069e-04	NaN
6	Proposito_credit_card	6.748382e-03	9.812322e-01
7	Proposito_debt_consolidation	6.023364e-03	9.927877e-01
8	Proposito_educational	1.117907e-04	9.999658e-01
9	Proposito_home_improvement	-4.495880e-04	9.994369e-01
10	Proposito_house	-4.920509e-04	NaN
11	Proposito_major_purchase	-5.568132e-04	NaN
12	Proposito_medical	9.808118e-06	9.999866e-01
13	Proposito_moving	-1.152811e-04	NaN
14	Proposito_renewable_energy	-1.519923e-04	NaN
15	Proposito_small_business	-1.835271e-03	9.974206e-01
16	Proposito_vacation	-1.649809e-04	9.992513e-01
17	Proposito_wedding	-4.102332e-04	9.989657e-01
18	Grados_A	2.565915e-03	NaN
19	Grados_B	7.133967e-03	9.892267e-01
20	Grados_C	7.494900e-03	NaN
21	Grados_D	1.009522e-04	NaN
22	Grados_E	-3.646923e-03	9.971812e-01
23	Grados_F	-5.232636e-03	9.929722e-01
24	Estado_Lista_w	3.946382e-02	NaN
25	Verificacion_Not Verified	9.965653e-03	9.467447e-01
26	Verificacion_Source Verified	8.153669e-03	9.163279e-01
27	term_num	3.466224e-02	NaN
28	emp_length_num	9.619699e-03	4.873243e-01
29	meses_credito	-7.924715e-03	NaN
30	meses_lineacredito	-7.924715e-03	NaN
31	funded_amnt	-1.371277e-04	NaN
32	int_rate	-4.797840e-02	7.074329e-04
33	installment	3.917777e-03	NaN
34	annual_inc	-3.711397e-07	3.883394e-01
35	dti	2.215667e-02	2.894585e-86
36	delinq_2yrs	8.097861e-04	9.516521e-01
37	inq_last_6mths	-4.618924e-03	0.000000e+00
38	mths_since_last_delinq	1.115114e-03	1.375247e-02
39	mths_since_last_record	4.440949e-03	5.375890e-13
40	open_acc	5.232131e-03	2.630031e-01
41	pub_rec	1.071937e-03	9.786361e-01
42	total_acc	8.764802e-03	NaN
43	acc_now_delinq	-2.872122e-04	9.986447e-01
44	total_rev_hi_lim	3.216462e-06	5.371980e-36

### Interprétation des Coefficients des Variables Continues

Les coefficients des variables continues ne reflètent pas s'ils appartiennent à une catégorie d'une variable indépendante d'origine ou non. Au lieu de cela, et pour la régression logistique, ils reflètent le changement dans le logarithme des probabilités (cotes) pour un changement d'unité dans la variable continue respective. Par exemple, en utilisant la variable mths\_since\_last\_delinq, pour chaque mois écoulé depuis le dernier défaut de paiement, le log(odds) que le taux de récupération soit égal à zéro augmenterait de 0.000115.

# Évaluation du Modèle

```
In [163]: #Pour générer le dataframe pour évaluer le modèle, nous devons sélectionner les mêmes variables que celles de la base d'entraînement. Sélectionnons les variables, puis supprimons les dummys de ré
```

```
In [164]: lgd0_independientes_evaluacion = lgd0_independientes_evaluacion[nombres_variables]
```

```
In [165]: lgd0_independientes_evaluacion = lgd0_independientes_evaluacion.drop(nombres_referencias, axis = 1)
```

```
In [166]: #Pour obtenir les prédictions pour le dataframe d'évaluation, appelons la méthode .predict #de notre modèle de régression.
```

```
In [167]: predicciones_lgd0 = regresion.predict(lgd0_independientes_evaluacion)
```

```
In [168]: predicciones_lgd0
```

```
Out[168]: array([0, 0, 0, ..., 0, 0, 0])
```

```
In [267]: #Nous obtenons les prédictions (1-0), mais il serait encore plus utile d'obtenir la probabilité #que le taux de récupération soit zéro. Rappelons-nous que ce que nous voulons savoir, c'est si ce taux sera zé
```

```
In [170]: probabilidad_lgd0 = regresion.predict_proba(lgd0_independientes_evaluacion)
```

```
In [171]: probabilidad_lgd0
```

```
Out[171]: array([[0.65724858, 0.34275142],  
 [0.70446317, 0.29553683],  
 [0.53137437, 0.46862563],  
 ...,  
 [0.6355017 , 0.3644983 ],  
 [0.54521125, 0.45478875],  
 [0.62451281, 0.37548719]])
```

```
In [172]: #Le premier nombre de cet array correspond à la probabilité que notre condition ne soit pas satisfaite.  
 #Le deuxième nombre correspond à la probabilité que notre condition soit satisfaite.  
 #Quelle est notre condition ? Que le taux de récupération soit égal à zéro.
```

```
In [173]: probabilidad_cero = probabilidad_lgd0[:,1]
```

```
In [174]: probabilidad_cero
```

```
Out[174]: array([0.34275142, 0.29553683, 0.46862563, ..., 0.3644983 , 0.45478875,  
 0.37548719])
```

```
In [175]: probabilidad_mayor_cero = probabilidad_lgd0[:,0]
```

```
In [176]: probabilidad_mayor_cero
```

```
Out[176]: array([0.65724858, 0.70446317, 0.53137437, ..., 0.6355017 , 0.54521125,  
 0.62451281])
```

## Évaluation de l'exactitude du modèle (Accuracy)

Nous évaluerons l'exactitude de la première étape du modèle LGD. Créons une table avec deux colonnes : les valeurs réelles et les probabilités des prédictions de la variable dépendante afin de construire ensuite la matrice de confusion. Créons une variable temporaire pour la variable dépendante, ceci afin de réinitialiser les indices pour pouvoir les concaténer ensuite

```
In [178]: lgd0_dependiente_evaluacion_temp = lgd0_dependiente_evaluacion
```

```
In [179]: # Maintenant, réinitialisons les indices avant de générer une table concaténée avec nos prédictions.
```

```
In [180]: lgd0_dependiente_evaluacion_temp.reset_index(drop=True, inplace=True)
```

```
In [181]: # Concatérons une table avec les valeurs réelles et les prédictions.
```

```
In [182]: Reales_Predicciones = pd.concat([lgd0_dependiente_evaluacion_temp, pd.DataFrame(probabilidad_cero)], axis = 1)
```

```
In [183]: Reales_Predicciones
```

```
Out[183]: tasa_recuperacion_0      0  
 0           1  0.342751  
 1           0  0.295537  
 2           1  0.468626  
 3           0  0.309161
```

4	0	0.468314
5	1	0.496092
6	1	0.433181
7	0	0.269189
8	1	0.406778
9	0	0.344939
10	1	0.478755
11	1	0.486765
12	0	0.416756
13	0	0.388295
14	1	0.427357
15	0	0.493664
16	0	0.333727
17	0	0.495538
18	0	0.573957
19	1	0.457738
20	1	0.578760
21	0	0.528507
22	0	0.404395
23	1	0.433275
24	0	0.420062
25	1	0.628499
26	0	0.364495
27	0	0.482083
28	0	0.393521
29	1	0.369745
30	1	0.685283
31	0	0.360866
32	0	0.370837
33	0	0.443666
34	0	0.293404
35	1	0.382516
36	0	0.321416
37	0	0.308061
38	1	0.561003
39	0	0.331949
40	1	0.362159
41	1	0.403122
42	1	0.421832
43	1	0.522274
44	0	0.547598
45	0	0.381329
46	0	0.432181
47	1	0.552016
48	1	0.536972
49	1	0.353688
50	0	0.502441
51	0	0.339780
52	0	0.306847
53	1	0.508198
54	0	0.385401
55	0	0.273248
56	0	0.149671
57	0	0.235569
58	0	0.352669

59	0	0.553553
60	1	0.255020
61	1	0.499859
62	0	0.487715
63	1	0.490416
64	0	0.354352
65	0	0.422157
66	0	0.380415
67	0	0.352161
68	0	0.428984
69	0	0.183964
70	0	0.339828
71	0	0.344097
72	1	0.350948
73	1	0.358297
74	1	0.370424
75	1	0.211148
76	1	0.567582
77	0	0.257162
78	0	0.287924
79	1	0.452242
80	1	0.409684
81	0	0.283344
82	0	0.354735
83	0	0.461541
84	0	0.495842
85	1	0.382129
86	0	0.317761
87	1	0.139113
88	0	0.451900
89	0	0.648034
90	0	0.438651
91	0	0.319248
92	0	0.281662
93	0	0.425181
94	1	0.458119
95	0	0.360683
96	1	0.534977
97	0	0.647469
98	0	0.329408
99	0	0.560272
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101	1	0.593363
102	0	0.588828
103	1	0.418253
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105	0	0.402729
106	1	0.285837
107	0	0.526870
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136	0	0.332157
137	1	0.543203
138	0	0.308179
139	0	0.410861
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143	1	0.665265
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151	1	0.435982
152	0	0.263476
153	0	0.341741
154	0	0.532908
155	0	0.573628
156	0	0.428098
157	0	0.640695
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159	0	0.411773
160	0	0.515764
161	0	0.378161
162	0	0.364147
163	0	0.525478
164	0	0.327162
165	1	0.615780
166	0	0.347259
167	0	0.292688

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170	1	0.577950
171	1	0.443247
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173	0	0.559742
174	0	0.673787
175	1	0.598983
176	0	0.597261
177	0	0.351311
178	1	0.276230
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184	1	0.743980
185	1	0.306576
186	1	0.173413
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188	0	0.199333
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192	0	0.329593
193	1	0.373430
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814	0	0.487507
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820	1	0.540651
821	0	0.422069
822	0	0.358309
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824	0	0.231841

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826	0	0.455254
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1521	0	0.342105
1522	0	0.433769
1523	0	0.427630
1524	0	0.385209
1525	1	0.590993
1526	1	0.475070
1527	0	0.456470
1528	1	0.493260
1529	0	0.432860
1530	0	0.367550
1531	0	0.403085
1532	0	0.312118
1533	1	0.757233
1534	0	0.348388
1535	0	0.389500
1536	0	0.300983

1537	0	0.294435
1538	0	0.488221
1539	1	0.444474
1540	0	0.392703
1541	0	0.484027
1542	0	0.533348
1543	0	0.149039
1544	0	0.286351
1545	1	0.592990
1546	1	0.458036
1547	1	0.295556
1548	0	0.282620
1549	0	0.617232
1550	0	0.297908
1551	0	0.598231
1552	1	0.404624
1553	1	0.558446
1554	0	0.455644
1555	1	0.475728
1556	0	0.328410
1557	1	0.502607
1558	1	0.478100
1559	0	0.344368
1560	0	0.525823
1561	0	0.532739
1562	1	0.363438
1563	1	0.551854
1564	0	0.447403
1565	0	0.385077
1566	0	0.553152
1567	1	0.512379
1568	1	0.473091
1569	1	0.275012
1570	1	0.701389
1571	0	0.428380
1572	1	0.468146
1573	0	0.387878
1574	1	0.410443
1575	1	0.401986
1576	0	0.507187
1577	1	0.521143
1578	1	0.417675
1579	0	0.329511
1580	0	0.392834
1581	0	0.274702
1582	1	0.509710
1583	0	0.368905
1584	0	0.287382
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1586	1	0.437086
1587	0	0.403686
1588	0	0.414861
1589	1	0.587059
1590	1	0.336937
1591	0	0.410209

1592	0	0.318481
1593	0	0.488253
1594	0	0.296751
1595	0	0.452695
1596	0	0.460687
1597	0	0.366751
1598	1	0.501817
1599	0	0.487410
1600	1	0.416129
1601	1	0.393428
1602	0	0.375630
1603	0	0.457411
1604	1	0.434174
1605	1	0.474424
1606	1	0.710359
1607	0	0.391291
1608	1	0.650405
1609	0	0.465963
1610	0	0.355527
1611	1	0.567723
1612	1	0.396440
1613	0	0.370792
1614	1	0.257425
1615	1	0.383876
1616	1	0.538369
1617	0	0.383041
1618	0	0.364148
1619	1	0.319864
1620	1	0.412885
1621	1	0.426443
1622	1	0.403275
1623	0	0.523648
1624	0	0.427934
1625	0	0.561491
1626	0	0.310595
1627	1	0.492894
1628	0	0.325053
1629	1	0.651221
1630	1	0.623067
1631	1	0.519760
1632	0	0.185536
1633	0	0.305638
1634	0	0.356760
1635	0	0.525614
1636	0	0.451535
1637	0	0.506571
1638	1	0.516749
1639	0	0.503975
1640	0	0.403946
1641	1	0.361156
1642	0	0.397523
1643	1	0.548474
1644	0	0.395228
1645	0	0.324389

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1647	0	0.539825
1648	1	0.406698
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1650	1	0.470065
1651	1	0.537294
1652	0	0.405309
1653	0	0.341167
1654	0	0.387215
1655	0	0.328529
1656	1	0.567802
1657	0	0.329845
1658	0	0.503178
1659	0	0.391678
1660	0	0.502050
1661	0	0.387887
1662	0	0.298595
1663	1	0.322098
1664	0	0.373574
1665	0	0.541153
1666	0	0.442001
1667	1	0.522387
1668	1	0.403878
1669	1	0.522422
1670	0	0.317287
1671	1	0.170574
1672	0	0.211341
1673	0	0.263375
1674	1	0.314579
1675	0	0.501916
1676	1	0.543609
1677	0	0.441194
1678	1	0.311670
1679	1	0.639894
1680	0	0.596810
1681	0	0.420428
1682	0	0.516267
1683	1	0.546715
1684	1	0.423261
1685	0	0.333931
1686	0	0.351995
1687	0	0.371236
1688	1	0.431189
1689	0	0.338742
1690	1	0.563202
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1692	1	0.487476
1693	0	0.131688
1694	0	0.442003
1695	0	0.381676
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1709	0	0.221811
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1712	1	0.681814
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1717	1	0.342613
1718	0	0.270892
1719	0	0.366008
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1723	0	0.406776
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1726	1	0.448892
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1754	1	0.341037
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1760	0	0.342541
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1765	1	0.503520
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1767	0	0.362046
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1771	0	0.398980
1772	0	0.277372
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1774	0	0.420813
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1776	0	0.409294
1777	1	0.525721
1778	1	0.481226
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1781	1	0.333542
1782	0	0.241407
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1784	0	0.500074
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1786	1	0.581587
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1788	1	0.320716
1789	0	0.371293
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1802	1	0.434354
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1812	1	0.543092
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1820	0	0.492248
1821	0	0.490785
1822	0	0.397267
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1826	0	0.492496
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1830	1	0.340464
1831	0	0.400218
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1839	1	0.353302
1840	1	0.329642
1841	0	0.544826
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1844	1	0.371145
1845	0	0.346627
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1847	1	0.481622
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1851	0	0.399442
1852	0	0.247664
1853	1	0.557708
1854	1	0.459816
1855	0	0.413650
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1857	0	0.641483
1858	0	0.515016
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1860	1	0.472187
1861	0	0.324676
1862	0	0.374735
1863	0	0.436224
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1866	1	0.390364
1867	0	0.541969
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1873	1	0.490964
1874	0	0.316723
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1877	1	0.498365
1878	0	0.439567
1879	1	0.523086
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1881	1	0.475267
1882	0	0.492593
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1891	0	0.419341
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1898	1	0.406504
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1901	1	0.298805
1902	0	0.250891
1903	0	0.171227
1904	0	0.348352
1905	0	0.367229
1906	1	0.426544
1907	1	0.510179
1908	0	0.434412
1909	0	0.393035
1910	0	0.486441
1911	1	0.479812
1912	0	0.420244
1913	0	0.454614
1914	0	0.331394
1915	0	0.359417
1916	1	0.640435
1917	0	0.551485
1918	0	0.465837
1919	1	0.500753

1920	0	0.639534
1921	1	0.573719
1922	1	0.495478
1923	1	0.300553
1924	0	0.418801
1925	1	0.514491
1926	0	0.281560
1927	1	0.310993
1928	0	0.575119
1929	1	0.462053
1930	0	0.384122
1931	1	0.579092
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1933	0	0.513913
1934	1	0.457202
1935	1	0.169814
1936	1	0.298524
1937	0	0.324824
1938	1	0.444554
1939	1	0.566131
1940	0	0.459560
1941	0	0.360595
1942	1	0.256288
1943	0	0.489600
1944	0	0.413766
1945	0	0.422084
1946	0	0.356687
1947	1	0.451972
1948	1	0.543171
1949	1	0.518709
1950	1	0.487050
1951	0	0.468790
1952	1	0.383968
1953	0	0.357425
1954	0	0.457697
1955	0	0.308886
1956	0	0.477353
1957	0	0.583339
1958	0	0.338828
1959	0	0.390763
1960	0	0.224161
1961	1	0.353404
1962	0	0.362259
1963	1	0.661509
1964	1	0.394439
1965	1	0.487179
1966	0	0.484792
1967	0	0.496096
1968	1	0.467513
1969	0	0.293168
1970	1	0.494093
1971	0	0.416395
1972	1	0.324695
1973	0	0.512853
1974	0	0.584222

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1976	0	0.435273
1977	1	0.269765
1978	1	0.437649
1979	0	0.416826
1980	1	0.637779
1981	0	0.544459
1982	0	0.277494
1983	0	0.388868
1984	0	0.345851
1985	0	0.421198
1986	1	0.371177
1987	1	0.356719
1988	0	0.654363
1989	0	0.347823
1990	0	0.239385
1991	0	0.606346
1992	1	0.449590
1993	0	0.358611
1994	0	0.471707
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1996	0	0.417319
1997	1	0.611696
1998	0	0.393972
1999	0	0.270122
2000	1	0.433819
2001	1	0.588967
2002	1	0.502982
2003	0	0.412251
2004	0	0.369715
2005	0	0.427799
2006	0	0.352910
2007	0	0.254349
2008	0	0.411326
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2010	0	0.454595
2011	0	0.503261
2012	0	0.364810
2013	1	0.477624
2014	0	0.366796
2015	0	0.509830
2016	1	0.416447
2017	1	0.238294
2018	0	0.490763
2019	1	0.367472
2020	0	0.577368
2021	0	0.466273
2022	1	0.515742
2023	1	0.589678
2024	0	0.367764
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2026	0	0.432681
2027	1	0.270263
2028	0	0.606752
2029	0	0.313756

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2031	0	0.320254
2032	1	0.566211
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2036	0	0.396638
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2041	1	0.496874
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2072	1	0.603253
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2075	0	0.610060
2076	0	0.371406
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2079	1	0.229553
2080	1	0.601645
2081	0	0.340900
2082	0	0.410089
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2087	1	0.484374
2088	1	0.354869
2089	1	0.360274
2090	0	0.464307
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2097	1	0.524686
2098	1	0.432440
2099	1	0.316128
2100	1	0.489378
2101	1	0.253877
2102	0	0.408266
2103	1	0.541770
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2107	1	0.442194
2108	1	0.486228
2109	0	0.454204
2110	0	0.334484
2111	1	0.312025
2112	0	0.389979
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2123	1	0.589671
2124	0	0.517492
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2126	0	0.361437
2127	0	0.497353
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2129	0	0.376793
2130	0	0.382195
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2145	1	0.388197
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2147	0	0.441488
2148	0	0.252412
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2151	1	0.637084
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2157	1	0.488775
2158	0	0.403728
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2177	0	0.636505
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2193	1	0.453631

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2201	1	0.357209
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2208	0	0.519589
2209	0	0.455430
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2220	0	0.322154
2221	1	0.462525
2222	0	0.294527
2223	0	0.453639
2224	1	0.673164
2225	1	0.440179
2226	0	0.553648
2227	0	0.255226
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2229	0	0.406112
2230	1	0.311793
2231	0	0.471042
2232	0	0.549313
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2234	1	0.643912
2235	1	0.461164
2236	0	0.484236
2237	0	0.458826
2238	1	0.539723
2239	1	0.463289
2240	0	0.455774
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2242	0	0.464686
2243	1	0.490275
2244	0	0.384411
2245	0	0.427940
2246	1	0.655863
2247	0	0.244913
2248	0	0.474146

2249	0	0.480510
2250	0	0.509558
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2253	0	0.298265
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2256	0	0.380142
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2259	0	0.405743
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2261	0	0.510861
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2266	0	0.424972
2267	1	0.468195
2268	0	0.464272
2269	1	0.484157
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2271	0	0.292227
2272	0	0.445616
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2278	0	0.422545
2279	0	0.321355
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2282	1	0.468486
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2312	1	0.598946
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2937	0	0.488713
2938	0	0.308372
2939	0	0.373417
2940	1	0.504902
2941	0	0.480194
2942	0	0.428516
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2945	1	0.496681
2946	0	0.148050
2947	1	0.603562
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2950	1	0.427722
2951	0	0.462202
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2955	1	0.417285
2956	0	0.384143
2957	0	0.392973
2958	1	0.264700
2959	1	0.436465

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2963	0	0.441970
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2972	0	0.537922
2973	0	0.410256
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2978	0	0.366817
2979	1	0.420337
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2982	0	0.354716
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3008	0	0.434238
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3014	0	0.417727

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3662	0	0.571420
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3673	1	0.596942
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4340	1	0.553632
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4345	0	0.345648
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4347	1	0.490440
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4351	0	0.343164
4352	1	0.419279
4353	1	0.385128
4354	0	0.514265
4355	1	0.405851
4356	0	0.458716
4357	1	0.417858
4358	1	0.544046
4359	1	0.273571
4360	1	0.320332
4361	0	0.407754
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4363	1	0.480269
4364	0	0.387101
4365	1	0.399163
4366	0	0.530396
4367	0	0.513895
4368	1	0.551053
4369	0	0.361473
4370	0	0.412889
4371	1	0.468413
4372	1	0.443543
4373	1	0.530436
4374	1	0.473469
4375	0	0.268327
4376	0	0.354970
4377	1	0.254841
4378	1	0.609197
4379	0	0.363125
4380	1	0.479442
4381	0	0.456265
4382	1	0.582328
4383	1	0.350221

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4388	0	0.431661
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4391	1	0.506898
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4397	1	0.602406
4398	1	0.456277
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4413	0	0.561735
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4419	0	0.543257
4420	1	0.433244
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5750	0	0.458886
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5755	1	0.336454
5756	1	0.485847
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5759	1	0.529695
5760	0	0.252987
5761	0	0.598893
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5764	0	0.251869
5765	1	0.432621
5766	1	0.612142
5767	0	0.633430
5768	0	0.324660
5769	0	0.380112
5770	0	0.266913
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5774	1	0.508257
5775	1	0.475507
5776	1	0.531528
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6461	0	0.459127
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6463	0	0.327734

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6466	0	0.342594
6467	1	0.548034
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6469	0	0.201395
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6475	0	0.314144
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6477	1	0.334822
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7833	0	0.449296
7834	0	0.431430
7835	0	0.382708
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7837	1	0.409397
7838	1	0.587131
7839	0	0.438450
7840	0	0.511726
7841	0	0.242587
7842	0	0.220845
7843	1	0.433748
7844	1	0.361776
7845	0	0.235777
7846	0	0.466744
7847	0	0.243778
7848	0	0.192081
7849	1	0.165471
7850	1	0.363694
7851	1	0.488115
7852	1	0.363609
7853	1	0.460795
7854	1	0.406061
7855	0	0.437535
7856	0	0.389307
7857	1	0.361136
7858	1	0.495325
7859	1	0.496794
7860	1	0.512006
7861	0	0.393981
7862	0	0.222636
7863	1	0.297934
7864	0	0.289559
7865	0	0.379446
7866	1	0.471492
7867	0	0.465610
7868	1	0.459824
7869	1	0.510479
7870	1	0.321814
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7873	1	0.547015
7874	1	0.462030
7875	1	0.366285
7876	0	0.463948
7877	0	0.477439
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7879	1	0.446189
7880	1	0.527147
7881	0	0.463492
7882	0	0.414338
7883	1	0.546023
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7885	0	0.419494
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7897	0	0.374217
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7911	0	0.497537
7912	0	0.426740
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7916	1	0.538206
7917	0	0.460604
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7919	0	0.542591
7920	1	0.394826
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7922	0	0.318252
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7929	0	0.363185
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7939	1	0.480347
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7970	1	0.370890
7971	0	0.345391
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7975	0	0.466225
7976	0	0.388551
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7979	0	0.483028
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7982	0	0.354026
7983	1	0.485436
7984	0	0.543294
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7995	1	0.381149
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8005	0	0.498322
8006	0	0.297089
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8535	1	0.391975
8536	1	0.398845
8537	1	0.224220
8538	0	0.305913
8539	1	0.592078
8540	0	0.377726
8541	1	0.609008
8542	1	0.481144
8543	0	0.283272
8544	1	0.370127

8545	0	0.439543
8546	1	0.593967
8547	0	0.594920
8548	1	0.285434
8549	1	0.534148
8550	0	0.334345
8551	0	0.368629
8552	0	0.527887
8553	0	0.443700
8554	0	0.501510
8555	0	0.308628
8556	0	0.319767
8557	0	0.347612
8558	1	0.485861
8559	1	0.437119
8560	0	0.361555
8561	1	0.401041
8562	0	0.449095
8563	0	0.335637
8564	1	0.474155
8565	0	0.388191
8566	0	0.374376
8567	1	0.373968
8568	0	0.345269
8569	0	0.391130
8570	1	0.597459
8571	1	0.405736
8572	0	0.490058
8573	0	0.337759
8574	0	0.337672
8575	0	0.330575
8576	0	0.558762
8577	0	0.503526
8578	0	0.693538
8579	0	0.521157
8580	0	0.439631
8581	0	0.425107
8582	1	0.435468
8583	0	0.375831
8584	0	0.647720
8585	0	0.315492
8586	1	0.455385
8587	0	0.392272
8588	0	0.425613
8589	0	0.184568
8590	0	0.488126
8591	1	0.370836
8592	0	0.427132
8593	1	0.478675
8594	0	0.406762
8595	0	0.300506
8596	1	0.508481
8597	1	0.712345
8598	1	0.396916
8599	0	0.539523

8600	0	0.492865
8601	0	0.442579
8602	0	0.560387
8603	0	0.394964
8604	0	0.437798
8605	0	0.465100
8606	0	0.413431
8607	0	0.640327
8608	0	0.428523
8609	0	0.367576
8610	0	0.393384
8611	1	0.349725
8612	0	0.382741
8613	1	0.467572
8614	1	0.392910
8615	1	0.289316
8616	0	0.542636
8617	1	0.445025
8618	1	0.511363
8619	0	0.394514
8620	1	0.484086
8621	1	0.410736
8622	0	0.324339
8623	0	0.325765
8624	0	0.382504
8625	0	0.420466
8626	1	0.343072
8627	1	0.490432
8628	1	0.436738
8629	1	0.389722
8630	1	0.588350
8631	1	0.460956
8632	0	0.379214
8633	0	0.364726
8634	1	0.409959
8635	1	0.646495
8636	1	0.367555
8637	1	0.543793
8638	1	0.569530
8639	0	0.346468
8640	1	0.630179
8641	0	0.390335
8642	0	0.331320
8643	1	0.566493
8644	1	0.482899
8645	0	0.364498
8646	1	0.454789
8647	0	0.375487

```
In [185]: Reales_Predicciones.columns = ['Tasa de Recuperacion 0', 'Probabilidad Tasa de Recuperacion 0']
```

```
In [186]: Reales_Predicciones
```

```
Out[186]: Tasa de Recuperacion 0  Probabilidad Tasa de Recuperacion 0
```

0	1	0.342751
1	0	0.657248

1	0	0.295537
2	1	0.468626
3	0	0.309161
4	0	0.468314
5	1	0.496092
6	1	0.433181
7	0	0.269189
8	1	0.406778
9	0	0.344939
10	1	0.478755
11	1	0.486765
12	0	0.416756
13	0	0.388295
14	1	0.427357
15	0	0.493664
16	0	0.333727
17	0	0.495538
18	0	0.573957
19	1	0.457738
20	1	0.578760
21	0	0.528507
22	0	0.404395
23	1	0.433275
24	0	0.420062
25	1	0.628499
26	0	0.364495
27	0	0.482083
28	0	0.393521
29	1	0.369745
30	1	0.685283
31	0	0.360866
32	0	0.370837
33	0	0.443666
34	0	0.293404
35	1	0.382516
36	0	0.321416
37	0	0.308061
38	1	0.561003
39	0	0.331949
40	1	0.362159
41	1	0.403122
42	1	0.421832
43	1	0.522274
44	0	0.547598
45	0	0.381329
46	0	0.432181
47	1	0.552016
48	1	0.536972
49	1	0.353688
50	0	0.502441
51	0	0.339780
52	0	0.306847
53	1	0.508198
54	0	0.385401
55	0	0.273248

56	0	0.149671
57	0	0.235569
58	0	0.352669
59	0	0.553553
60	1	0.255020
61	1	0.499859
62	0	0.487715
63	1	0.490416
64	0	0.354352
65	0	0.422157
66	0	0.380415
67	0	0.352161
68	0	0.428984
69	0	0.183964
70	0	0.339828
71	0	0.344097
72	1	0.350948
73	1	0.358297
74	1	0.370424
75	1	0.211148
76	1	0.567582
77	0	0.257162
78	0	0.287924
79	1	0.452242
80	1	0.409684
81	0	0.283344
82	0	0.354735
83	0	0.461541
84	0	0.495842
85	1	0.382129
86	0	0.317761
87	1	0.139113
88	0	0.451900
89	0	0.648034
90	0	0.438651
91	0	0.319248
92	0	0.281662
93	0	0.425181
94	1	0.458119
95	0	0.360683
96	1	0.534977
97	0	0.647469
98	0	0.329408
99	0	0.560272
100	0	0.497000
101	1	0.593363
102	0	0.588828
103	1	0.418253
104	0	0.405097
105	0	0.402729
106	1	0.285837
107	0	0.526870
108	1	0.415286
109	1	0.406486
110	0	0.416274

111	1	0.431477
112	0	0.408496
113	0	0.350325
114	0	0.463939
115	1	0.418309
116	0	0.621252
117	1	0.380022
118	0	0.333423
119	0	0.399867
120	0	0.524144
121	1	0.493881
122	0	0.338341
123	1	0.317772
124	1	0.307993
125	1	0.400564
126	0	0.540865
127	1	0.389895
128	0	0.498708
129	0	0.589062
130	0	0.487521
131	0	0.630533
132	1	0.499151
133	0	0.420639
134	1	0.466436
135	0	0.151104
136	0	0.332157
137	1	0.543203
138	0	0.308179
139	0	0.410861
140	1	0.512639
141	0	0.339390
142	0	0.439983
143	1	0.665265
144	0	0.425921
145	0	0.458719
146	0	0.475386
147	0	0.521757
148	0	0.267703
149	1	0.556437
150	1	0.668382
151	1	0.435982
152	0	0.263476
153	0	0.341741
154	0	0.532908
155	0	0.573628
156	0	0.428098
157	0	0.640695
158	1	0.492589
159	0	0.411773
160	0	0.515764
161	0	0.378161
162	0	0.364147
163	0	0.525478
164	0	0.327162
165	1	0.615780

166	0	0.347259
167	0	0.292688
168	1	0.485694
169	1	0.496642
170	1	0.577950
171	1	0.443247
172	1	0.409371
173	0	0.559742
174	0	0.673787
175	1	0.598983
176	0	0.597261
177	0	0.351311
178	1	0.276230
179	1	0.312200
180	1	0.420614
181	0	0.410502
182	1	0.391463
183	0	0.339637
184	1	0.743980
185	1	0.306576
186	1	0.173413
187	0	0.500262
188	0	0.199333
189	0	0.413643
190	0	0.464335
191	1	0.470444
192	0	0.329593
193	1	0.373430
194	1	0.507279
195	0	0.367670
196	1	0.529081
197	1	0.398253
198	0	0.283180
199	0	0.554543
200	0	0.261282
201	0	0.340226
202	1	0.413038
203	1	0.553705
204	1	0.569105
205	1	0.366000
206	1	0.562146
207	1	0.632232
208	0	0.517254
209	1	0.253348
210	1	0.572786
211	0	0.360997
212	0	0.286938
213	0	0.294613
214	1	0.542685
215	0	0.181267
216	1	0.572378
217	0	0.422748
218	0	0.421112
219	1	0.557757
220	0	0.576175

221	0	0.269483
222	0	0.466826
223	1	0.393715
224	0	0.411772
225	1	0.517425
226	0	0.423993
227	0	0.366546
228	0	0.353934
229	0	0.472143
230	0	0.292370
231	1	0.327209
232	0	0.444026
233	0	0.452168
234	1	0.566253
235	0	0.483629
236	0	0.228706
237	1	0.417677
238	0	0.343651
239	1	0.481900
240	0	0.419243
241	1	0.367843
242	1	0.463925
243	0	0.378421
244	1	0.443344
245	0	0.383942
246	1	0.349841
247	1	0.405294
248	1	0.489004
249	1	0.344602
250	0	0.301463
251	1	0.551592
252	0	0.243092
253	0	0.411521
254	1	0.469789
255	0	0.224282
256	1	0.473611
257	0	0.334514
258	1	0.424708
259	0	0.530852
260	1	0.349325
261	0	0.298317
262	0	0.459613
263	0	0.332564
264	0	0.319558
265	1	0.367147
266	1	0.473941
267	0	0.427757
268	0	0.390111
269	1	0.601442
270	0	0.381814
271	0	0.487721
272	1	0.476459
273	0	0.437198
274	0	0.496037

275	1	0.359388
276	0	0.359843
277	1	0.487714
278	0	0.398214
279	1	0.379933
280	0	0.242511
281	1	0.564722
282	1	0.561425
283	0	0.389465
284	0	0.370744
285	0	0.403949
286	0	0.402533
287	1	0.408644
288	0	0.500229
289	0	0.365210
290	0	0.244844
291	1	0.470570
292	1	0.398778
293	0	0.277998
294	0	0.439570
295	0	0.362942
296	1	0.477041
297	0	0.279368
298	1	0.429761
299	0	0.300869
300	0	0.275035
301	1	0.246190
302	1	0.413144
303	0	0.504719
304	0	0.648945
305	0	0.443002
306	1	0.441843
307	1	0.214301
308	0	0.514617
309	0	0.418580
310	0	0.430758
311	1	0.571417
312	1	0.371841
313	1	0.399459
314	0	0.494327
315	1	0.401489
316	1	0.567807
317	1	0.616153
318	0	0.368050
319	0	0.472950
320	0	0.404617
321	0	0.494452
322	1	0.512372
323	1	0.399507
324	1	0.504795
325	1	0.560469
326	0	0.496941
327	1	0.460223
328	0	0.551302
329	0	0.330460

330	0	0.365716
331	1	0.624515
332	1	0.378541
333	1	0.501525
334	1	0.306253
335	0	0.368799
336	1	0.362509
337	1	0.443827
338	0	0.442793
339	0	0.396762
340	0	0.387057
341	1	0.475588
342	1	0.365887
343	1	0.427088
344	1	0.365532
345	1	0.324736
346	0	0.222704
347	1	0.333665
348	0	0.227914
349	1	0.403317
350	0	0.358824
351	1	0.245057
352	0	0.302659
353	0	0.514513
354	1	0.626710
355	1	0.360690
356	0	0.360794
357	1	0.367925
358	0	0.447353
359	1	0.615936
360	0	0.393495
361	1	0.395623
362	0	0.350131
363	0	0.410462
364	0	0.389120
365	1	0.523617
366	0	0.363864
367	0	0.440316
368	0	0.358099
369	0	0.306196
370	1	0.361153
371	0	0.340534
372	1	0.452118
373	1	0.480504
374	0	0.303787
375	1	0.424553
376	1	0.421022
377	0	0.289865
378	0	0.337391
379	1	0.492147
380	0	0.435589
381	0	0.412345
382	0	0.320014
383	1	0.516699
384	1	0.558095

385	0	0.391580
386	1	0.514895
387	0	0.307932
388	0	0.496411
389	1	0.609424
390	1	0.369994
391	1	0.622478
392	1	0.539783
393	1	0.512143
394	0	0.348659
395	1	0.346963
396	0	0.219778
397	0	0.276619
398	0	0.450573
399	0	0.494815
400	0	0.358457
401	0	0.483859
402	1	0.407331
403	1	0.499653
404	0	0.454696
405	0	0.414467
406	1	0.349021
407	0	0.440598
408	0	0.228103
409	1	0.734692
410	1	0.507667
411	0	0.295709
412	1	0.532973
413	0	0.448628
414	1	0.532579
415	0	0.402128
416	0	0.418988
417	0	0.481134
418	0	0.371876
419	0	0.274178
420	0	0.387117
421	0	0.300968
422	0	0.498372
423	0	0.485592
424	0	0.257847
425	0	0.282763
426	0	0.492544
427	1	0.536024
428	0	0.484493
429	1	0.358942
430	1	0.464943
431	0	0.325636
432	1	0.475788
433	0	0.285911
434	1	0.627715
435	1	0.383933
436	0	0.473068
437	1	0.620052
438	1	0.443296
439	0	0.416240

440	0	0.392217
441	0	0.311466
442	1	0.533397
443	0	0.486882
444	1	0.322794
445	0	0.574142
446	0	0.414976
447	0	0.213046
448	0	0.374761
449	1	0.531539
450	1	0.276276
451	0	0.555030
452	0	0.521923
453	0	0.587406
454	0	0.504709
455	0	0.459152
456	0	0.294917
457	0	0.325698
458	0	0.539618
459	0	0.369837
460	0	0.463722
461	1	0.379629
462	0	0.349751
463	0	0.367046
464	1	0.394697
465	1	0.421826
466	1	0.409916
467	0	0.323985
468	1	0.291460
469	1	0.634987
470	0	0.443751
471	1	0.660767
472	0	0.454180
473	1	0.573980
474	0	0.348632
475	0	0.282467
476	0	0.524110
477	1	0.596442
478	1	0.578668
479	0	0.340231
480	0	0.216982
481	0	0.392192
482	1	0.546926
483	0	0.436681
484	0	0.413851
485	1	0.618686
486	0	0.355845
487	0	0.509341
488	0	0.497459
489	0	0.342759
490	1	0.521577
491	1	0.325204
492	0	0.413869
493	1	0.502952

494	0	0.375860
495	0	0.304570
496	1	0.518995
497	1	0.490641
498	0	0.497569
499	1	0.363795
500	0	0.441319
501	0	0.474115
502	0	0.513731
503	1	0.322011
504	1	0.466626
505	0	0.367236
506	1	0.463727
507	0	0.450001
508	0	0.282723
509	0	0.699821
510	0	0.370488
511	0	0.238309
512	0	0.408441
513	0	0.364051
514	1	0.223992
515	1	0.596876
516	1	0.511149
517	1	0.485954
518	0	0.406608
519	0	0.351034
520	0	0.443481
521	0	0.461753
522	0	0.243971
523	0	0.275322
524	0	0.330949
525	1	0.433433
526	1	0.306517
527	1	0.442254
528	1	0.389516
529	1	0.617148
530	0	0.511379
531	0	0.391850
532	1	0.553609
533	0	0.460238
534	0	0.351245
535	0	0.332719
536	1	0.316062
537	0	0.413098
538	1	0.350757
539	0	0.336669
540	0	0.459795
541	0	0.520837
542	0	0.380019
543	0	0.360261
544	0	0.486702
545	1	0.330477
546	1	0.455213
547	0	0.585811
548	0	0.313608

549	0	0.384484
550	1	0.255145
551	0	0.306290
552	0	0.360117
553	0	0.430689
554	1	0.515713
555	1	0.434463
556	0	0.542802
557	1	0.512500
558	0	0.243004
559	0	0.531814
560	1	0.394871
561	0	0.436291
562	1	0.571882
563	0	0.442250
564	1	0.557408
565	0	0.487288
566	1	0.315841
567	0	0.546448
568	0	0.324527
569	1	0.329810
570	0	0.327095
571	0	0.573574
572	0	0.414626
573	1	0.262074
574	0	0.419772
575	1	0.552164
576	1	0.486784
577	0	0.420110
578	0	0.414701
579	0	0.273863
580	1	0.466177
581	0	0.473314
582	1	0.695484
583	0	0.532582
584	0	0.432480
585	0	0.317233
586	0	0.508493
587	1	0.566245
588	0	0.369735
589	0	0.397790
590	0	0.350218
591	0	0.433759
592	0	0.418762
593	0	0.409786
594	0	0.376915
595	1	0.350405
596	1	0.472521
597	1	0.327909
598	0	0.256733
599	1	0.438618
600	1	0.506314
601	1	0.601737
602	0	0.391942
603	1	0.512573

604	0	0.360329
605	1	0.519467
606	0	0.317152
607	0	0.370158
608	1	0.436926
609	1	0.448559
610	1	0.634989
611	1	0.527976
612	0	0.463407
613	1	0.507098
614	0	0.375424
615	1	0.551297
616	0	0.370477
617	1	0.463664
618	0	0.509710
619	0	0.460270
620	0	0.493506
621	1	0.632536
622	0	0.415425
623	0	0.386526
624	1	0.311707
625	1	0.459775
626	1	0.530875
627	0	0.508694
628	1	0.614844
629	1	0.411778
630	1	0.176780
631	0	0.532288
632	0	0.480646
633	0	0.449553
634	0	0.579690
635	1	0.386316
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637	1	0.431509
638	1	0.436993
639	1	0.497812
640	0	0.379900
641	1	0.372616
642	1	0.362962
643	0	0.457855
644	0	0.363747
645	1	0.464333
646	0	0.534797
647	0	0.405133
648	0	0.498758
649	0	0.537619
650	1	0.270278
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652	0	0.489400
653	0	0.457558
654	0	0.333232
655	0	0.574499
656	0	0.452696
657	0	0.385818
658	1	0.425294

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663	0	0.389132
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666	1	0.455886
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670	0	0.460769
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673	1	0.497603
674	0	0.388079
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1364	0	0.431097
1365	1	0.545884
1366	0	0.412698
1367	0	0.511528
1368	0	0.303671
1369	1	0.618032

1370	1	0.525137
1371	1	0.416157
1372	1	0.240963
1373	0	0.388933
1374	0	0.431918
1375	1	0.351843
1376	0	0.291450
1377	1	0.336306
1378	0	0.450086
1379	1	0.387856
1380	0	0.386766
1381	1	0.338519
1382	0	0.293513
1383	1	0.298333
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1385	0	0.428356
1386	0	0.396545
1387	1	0.540836
1388	1	0.463445
1389	1	0.585233
1390	0	0.423179
1391	0	0.317136
1392	0	0.574591
1393	1	0.487982
1394	1	0.466873
1395	0	0.441563
1396	1	0.330579
1397	1	0.406625
1398	0	0.415318
1399	0	0.360348
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1401	1	0.469749
1402	0	0.536773
1403	0	0.446102
1404	0	0.612626
1405	0	0.384331
1406	1	0.607321
1407	0	0.644715
1408	0	0.286919
1409	0	0.228287
1410	1	0.519797
1411	0	0.354806
1412	1	0.482633
1413	0	0.419533
1414	0	0.450862
1415	1	0.438121
1416	0	0.465786
1417	1	0.396543
1418	0	0.612945
1419	1	0.378350
1420	1	0.464844
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1424	1	0.577398

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1429	0	0.396977
1430	0	0.499786
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1433	1	0.579399
1434	0	0.373625
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1441	0	0.273096
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1447	0	0.573002
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1462	0	0.237596
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1472	0	0.378151
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1512	1	0.399284
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1515	0	0.263025
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1519	0	0.272846
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1527	0	0.456470
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1547	1	0.295556
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1612	1	0.396440
1613	0	0.370792
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1891	0	0.419341
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1913	0	0.454614
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1918	0	0.465837
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1920	0	0.639534
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1926	0	0.281560
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1928	0	0.575119
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1937	0	0.324824
1938	1	0.444554
1939	1	0.566131
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1944	0	0.413766
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1950	1	0.487050
1951	0	0.468790
1952	1	0.383968
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1954	0	0.457697
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1957	0	0.583339
1958	0	0.338828
1959	0	0.390763
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1962	0	0.362259
1963	1	0.661509
1964	1	0.394439
1965	1	0.487179
1966	0	0.484792
1967	0	0.496096
1968	1	0.467513
1969	0	0.293168
1970	1	0.494093
1971	0	0.416395
1972	1	0.324695

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1977	1	0.269765
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1979	0	0.416826
1980	1	0.637779
1981	0	0.544459
1982	0	0.277494
1983	0	0.388868
1984	0	0.345851
1985	0	0.421198
1986	1	0.371177
1987	1	0.356719
1988	0	0.654363
1989	0	0.347823
1990	0	0.239385
1991	0	0.606346
1992	1	0.449590
1993	0	0.358611
1994	0	0.471707
1995	0	0.411015
1996	0	0.417319
1997	1	0.611696
1998	0	0.393972
1999	0	0.270122
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2003	0	0.412251
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2006	0	0.352910
2007	0	0.254349
2008	0	0.411326
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2010	0	0.454595
2011	0	0.503261
2012	0	0.364810
2013	1	0.477624
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2015	0	0.509830
2016	1	0.416447
2017	1	0.238294
2018	0	0.490763
2019	1	0.367472
2020	0	0.577368
2021	0	0.466273
2022	1	0.515742
2023	1	0.589678
2024	0	0.367764
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2027	1	0.270263
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2034	1	0.295897
2035	0	0.424770
2036	0	0.396638
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2038	0	0.374222
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2045	1	0.529501
2046	1	0.381730
2047	0	0.453707
2048	0	0.347528
2049	0	0.449478
2050	0	0.403087
2051	0	0.503974
2052	1	0.467078
2053	0	0.456981
2054	0	0.376061
2055	0	0.358551
2056	1	0.453149
2057	1	0.470947
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2064	1	0.487149
2065	0	0.433361
2066	0	0.178053
2067	1	0.398215
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2069	1	0.399623
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2074	1	0.486009
2075	0	0.610060
2076	0	0.371406
2077	0	0.413062
2078	1	0.500663
2079	1	0.229553
2080	1	0.601645
2081	0	0.340900

2082	0	0.410089
2083	1	0.366347
2084	1	0.517075
2085	1	0.534315
2086	0	0.271625
2087	1	0.484374
2088	1	0.354869
2089	1	0.360274
2090	0	0.464307
2091	1	0.262151
2092	1	0.428600
2093	1	0.361685
2094	0	0.354848
2095	0	0.371675
2096	0	0.275762
2097	1	0.524686
2098	1	0.432440
2099	1	0.316128
2100	1	0.489378
2101	1	0.253877
2102	0	0.408266
2103	1	0.541770
2104	1	0.466578
2105	0	0.176684
2106	1	0.434478
2107	1	0.442194
2108	1	0.486228
2109	0	0.454204
2110	0	0.334484
2111	1	0.312025
2112	0	0.389979
2113	0	0.276665
2114	0	0.383330
2115	1	0.553846
2116	0	0.430933
2117	1	0.515487
2118	1	0.185279
2119	0	0.156117
2120	1	0.490223
2121	0	0.471434
2122	1	0.309707
2123	1	0.589671
2124	0	0.517492
2125	0	0.471392
2126	0	0.361437
2127	0	0.497353
2128	0	0.323603
2129	0	0.376793
2130	0	0.382195
2131	0	0.291136
2132	0	0.430191
2133	0	0.412169
2134	0	0.218825
2135	0	0.276374
2136	0	0.608937

2137	1	0.396542
2138	1	0.526265
2139	0	0.349206
2140	0	0.434056
2141	1	0.266685
2142	0	0.401447
2143	1	0.690261
2144	0	0.514590
2145	1	0.388197
2146	0	0.357951
2147	0	0.441488
2148	0	0.252412
2149	1	0.435908
2150	0	0.337359
2151	1	0.637084
2152	1	0.393335
2153	0	0.376389
2154	0	0.454314
2155	0	0.402918
2156	1	0.454874
2157	1	0.488775
2158	0	0.403728
2159	0	0.482574
2160	1	0.529093
2161	0	0.408975
2162	1	0.568221
2163	1	0.500264
2164	0	0.421623
2165	1	0.489211
2166	0	0.419327
2167	1	0.455782
2168	0	0.520136
2169	0	0.353958
2170	0	0.357395
2171	0	0.422727
2172	0	0.357466
2173	0	0.490320
2174	1	0.595772
2175	1	0.460082
2176	1	0.238672
2177	0	0.636505
2178	0	0.410381
2179	0	0.381979
2180	0	0.472820
2181	0	0.481224
2182	0	0.407927
2183	1	0.561863
2184	0	0.350190
2185	1	0.544794
2186	0	0.557614
2187	0	0.275650
2188	0	0.422528
2189	0	0.436135
2190	0	0.458716
2191	1	0.575810

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2193	1	0.453631
2194	1	0.463855
2195	1	0.533408
2196	0	0.356091
2197	0	0.460426
2198	1	0.530653
2199	0	0.375955
2200	1	0.634474
2201	1	0.357209
2202	1	0.469889
2203	0	0.401549
2204	0	0.263093
2205	0	0.345266
2206	0	0.352502
2207	1	0.468184
2208	0	0.519589
2209	0	0.455430
2210	1	0.479436
2211	1	0.322006
2212	1	0.490817
2213	1	0.491254
2214	1	0.236223
2215	0	0.547734
2216	0	0.396069
2217	0	0.450371
2218	0	0.456860
2219	1	0.453138
2220	0	0.322154
2221	1	0.462525
2222	0	0.294527
2223	0	0.453639
2224	1	0.673164
2225	1	0.440179
2226	0	0.553648
2227	0	0.255226
2228	1	0.525207
2229	0	0.406112
2230	1	0.311793
2231	0	0.471042
2232	0	0.549313
2233	1	0.415027
2234	1	0.643912
2235	1	0.461164
2236	0	0.484236
2237	0	0.458826
2238	1	0.539723
2239	1	0.463289
2240	0	0.455774
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2242	0	0.464686
2243	1	0.490275
2244	0	0.384411
2245	0	0.427940

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2247	0	0.244913
2248	0	0.474146
2249	0	0.480510
2250	0	0.509558
2251	1	0.478021
2252	1	0.453913
2253	0	0.298265
2254	0	0.505311
2255	1	0.472755
2256	0	0.380142
2257	0	0.384687
2258	0	0.523074
2259	0	0.405743
2260	0	0.270241
2261	0	0.510861
2262	1	0.333974
2263	1	0.387979
2264	1	0.454655
2265	0	0.386659
2266	0	0.424972
2267	1	0.468195
2268	0	0.464272
2269	1	0.484157
2270	0	0.416648
2271	0	0.292227
2272	0	0.445616
2273	0	0.186828
2274	1	0.447941
2275	0	0.347065
2276	0	0.442288
2277	0	0.478617
2278	0	0.422545
2279	0	0.321355
2280	1	0.477655
2281	1	0.528323
2282	1	0.468486
2283	0	0.296611
2284	1	0.342730
2285	0	0.447734
2286	1	0.645440
2287	0	0.338280
2288	0	0.269285
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2290	1	0.513969
2291	0	0.282448
2292	1	0.491648
2293	1	0.501658
2294	1	0.386590
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2299	0	0.551026
2300	0	0.345909

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2305	0	0.489411
2306	1	0.477661
2307	1	0.483920
2308	1	0.362173
2309	0	0.334223
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2312	1	0.598946
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2314	1	0.348841
2315	1	0.470330
2316	0	0.465990
2317	0	0.414520
2318	0	0.326629
2319	1	0.584408
2320	0	0.427483
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2324	1	0.487667
2325	1	0.570878
2326	0	0.311901
2327	0	0.520211
2328	0	0.529524
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2331	1	0.511606
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2333	0	0.371722
2334	1	0.324467
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2340	0	0.317419
2341	1	0.387263
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2351	1	0.516403
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2354	1	0.538205
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2362	0	0.399344
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2366	0	0.346437
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2376	1	0.481390
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2772	0	0.234657
2773	1	0.489749
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2779	1	0.603355
2780	1	0.427666
2781	0	0.497489
2782	0	0.431940
2783	0	0.544174
2784	0	0.444698
2785	1	0.407521
2786	1	0.419364
2787	0	0.543359
2788	1	0.389362
2789	0	0.427295
2790	1	0.293794
2791	1	0.416772
2792	1	0.308242
2793	1	0.354405

2794	0	0.170279
2795	1	0.472999
2796	1	0.510934
2797	1	0.543867
2798	0	0.496226
2799	0	0.328778
2800	0	0.343635
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2807	0	0.391982
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2809	0	0.456899
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2813	1	0.478588
2814	0	0.239758
2815	0	0.189314
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2818	0	0.445915
2819	0	0.323295
2820	1	0.328401
2821	1	0.322631
2822	0	0.547645
2823	1	0.256672
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2825	1	0.460140
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2827	0	0.326369
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2829	0	0.355215
2830	0	0.552828
2831	0	0.573496
2832	0	0.555239
2833	1	0.530588
2834	0	0.441224
2835	1	0.399812
2836	0	0.491543
2837	0	0.404628
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2839	0	0.463902
2840	1	0.469276
2841	0	0.458735
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2843	0	0.419320
2844	0	0.233643
2845	0	0.220039
2846	0	0.433814
2847	0	0.443528
2848	0	0.455528

2849	0	0.365844
2850	0	0.324541
2851	0	0.438417
2852	0	0.172284
2853	1	0.459297
2854	0	0.380967
2855	1	0.529884
2856	1	0.250737
2857	0	0.206007
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2861	0	0.367249
2862	0	0.419765
2863	1	0.542815
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2865	0	0.476620
2866	1	0.391859
2867	1	0.510082
2868	0	0.326492
2869	1	0.517110
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2871	0	0.196353
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2875	0	0.315072
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2877	0	0.314284
2878	1	0.392725
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3481	0	0.419921
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3489	1	0.511646
3490	1	0.566277
3491	1	0.268720
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3495	0	0.528384
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4183	0	0.588689
4184	0	0.470691
4185	0	0.534178
4186	0	0.372846
4187	0	0.371610
4188	1	0.433852
4189	1	0.505428
4190	0	0.476199
4191	0	0.145023
4192	0	0.535765
4193	0	0.324870
4194	1	0.502516
4195	0	0.461662
4196	1	0.598579
4197	0	0.485257
4198	1	0.312370
4199	1	0.347675
4200	1	0.423590
4201	0	0.223294
4202	0	0.485715
4203	1	0.448801
4204	1	0.548059
4205	0	0.393390
4206	0	0.441303
4207	0	0.323562
4208	1	0.556755
4209	0	0.511551
4210	0	0.367029
4211	1	0.578859
4212	0	0.386249
4213	0	0.420313
4214	0	0.335465
4215	0	0.470103
4216	1	0.446040

4217	1	0.488208
4218	1	0.254794
4219	0	0.407438
4220	0	0.218828
4221	0	0.381708
4222	0	0.391384
4223	0	0.512949
4224	1	0.453226
4225	0	0.372940
4226	1	0.530985
4227	1	0.376098
4228	1	0.488205
4229	0	0.352785
4230	1	0.406382
4231	0	0.233755
4232	1	0.302120
4233	0	0.252336
4234	0	0.268070
4235	0	0.422905
4236	1	0.399163
4237	0	0.589790
4238	0	0.206377
4239	0	0.318648
4240	0	0.373144
4241	0	0.216745
4242	1	0.144031
4243	1	0.302134
4244	0	0.306275
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4246	0	0.301412
4247	1	0.440623
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4249	1	0.574305
4250	1	0.178942
4251	1	0.315565
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4254	0	0.493304
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4256	1	0.525208
4257	1	0.350226
4258	0	0.372424
4259	0	0.404383
4260	0	0.329861
4261	0	0.345857
4262	1	0.346155
4263	1	0.420892
4264	1	0.459811
4265	1	0.347784
4266	0	0.371790
4267	0	0.413355
4268	0	0.627745
4269	0	0.344428
4270	0	0.351221
4271	1	0.359033

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4273	1	0.603967
4274	1	0.373403
4275	1	0.413010
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4277	0	0.255063
4278	1	0.477465
4279	1	0.478101
4280	0	0.530845
4281	1	0.518431
4282	1	0.395123
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4284	1	0.483658
4285	1	0.549372
4286	0	0.379517
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4288	0	0.543135
4289	0	0.444968
4290	1	0.668645
4291	1	0.385784
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4293	0	0.519593
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4297	1	0.446863
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4299	1	0.509193
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4301	1	0.535068
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4304	1	0.491410
4305	1	0.511885
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4309	1	0.414291
4310	0	0.383881
4311	1	0.397497
4312	0	0.313342
4313	0	0.396697
4314	1	0.442799
4315	0	0.232662
4316	0	0.439124
4317	0	0.641927
4318	0	0.562541
4319	1	0.521366
4320	0	0.449083
4321	0	0.335159
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4323	0	0.170730
4324	1	0.293220
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4329	0	0.301282
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4332	0	0.350750
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4337	0	0.454951
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4340	1	0.553632
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4347	1	0.490440
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4354	0	0.514265
4355	1	0.405851
4356	0	0.458716
4357	1	0.417858
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4359	1	0.273571
4360	1	0.320332
4361	0	0.407754
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4364	0	0.387101
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4366	0	0.530396
4367	0	0.513895
4368	1	0.551053
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4370	0	0.412889
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4374	1	0.473469
4375	0	0.268327
4376	0	0.354970
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4378	1	0.609197
4379	0	0.363125
4380	1	0.479442
4381	0	0.456265

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4383	1	0.350221
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4388	0	0.431661
4389	0	0.348406
4390	0	0.557891
4391	1	0.506898
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4397	1	0.602406
4398	1	0.456277
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4406	1	0.493732
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4411	0	0.394166
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4413	0	0.561735
4414	0	0.293800
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4420	1	0.433244
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4422	0	0.342800
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4550	0	0.380354
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4628	0	0.391834
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4642	0	0.487666
4643	0	0.373439
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4664	0	0.363909
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4761	1	0.391214
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4790	1	0.467303
4791	0	0.441355
4792	0	0.158166
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4885	1	0.393384
4886	0	0.316471
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5594	1	0.588033
5595	1	0.480800
5596	1	0.586651
5597	0	0.414434
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5605	0	0.220292
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7000	1	0.407770
7001	0	0.503361
7002	1	0.664960
7003	1	0.575819
7004	0	0.451283
7005	0	0.517283
7006	0	0.464793
7007	0	0.475435
7008	0	0.239730
7009	0	0.221694

7010	1	0.280042
7011	1	0.404568
7012	0	0.452979
7013	0	0.518422
7014	1	0.310920
7015	0	0.233801
7016	0	0.301499
7017	1	0.609629
7018	0	0.664942
7019	1	0.459776
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7021	1	0.697909
7022	0	0.464525
7023	0	0.464095
7024	0	0.417284
7025	1	0.416630
7026	0	0.338873
7027	1	0.462144
7028	0	0.412746
7029	0	0.441673
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7031	1	0.298676
7032	1	0.535612
7033	1	0.327604
7034	0	0.479989
7035	0	0.113796
7036	0	0.455454
7037	1	0.491486
7038	0	0.442592
7039	0	0.418795
7040	1	0.469077
7041	0	0.465042
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7044	0	0.304752
7045	1	0.360367
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7047	0	0.283641
7048	1	0.445864
7049	0	0.414675
7050	1	0.332092
7051	1	0.347694
7052	0	0.278627
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7054	0	0.518168
7055	1	0.264923
7056	1	0.462117
7057	1	0.312581
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7061	0	0.279024
7062	0	0.557276
7063	1	0.408942

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7065	1	0.434505
7066	0	0.342795
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7071	0	0.323802
7072	0	0.509579
7073	1	0.438946
7074	1	0.478074
7075	1	0.595675
7076	1	0.475095
7077	0	0.294623
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7079	1	0.448686
7080	0	0.603725
7081	1	0.580354
7082	0	0.601757
7083	0	0.271301
7084	1	0.232073
7085	0	0.380755
7086	1	0.371986
7087	0	0.241567
7088	1	0.310183
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7094	0	0.377206
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7137	1	0.385768
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7215	1	0.445332
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7702	0	0.537922
7703	1	0.500344
7704	0	0.227048
7705	1	0.441914
7706	0	0.321666
7707	0	0.432069
7708	0	0.418929
7709	0	0.461669
7710	0	0.272063
7711	1	0.524608
7712	1	0.344898
7713	0	0.362082
7714	1	0.345023
7715	0	0.344842
7716	0	0.452184
7717	0	0.381296
7718	0	0.444745
7719	1	0.605349
7720	0	0.366444

7721	0	0.431938
7722	1	0.609780
7723	0	0.372859
7724	1	0.485141
7725	0	0.429448
7726	0	0.298044
7727	0	0.451489
7728	1	0.562771
7729	0	0.295611
7730	0	0.425695
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7734	0	0.520511
7735	1	0.554062
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7740	0	0.320013
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7742	1	0.431115
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7746	0	0.448442
7747	0	0.334200
7748	0	0.576180
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7750	1	0.456561
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7753	0	0.349399
7754	0	0.527688
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7859	1	0.496794
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7869	1	0.510479
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7874	1	0.462030
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8405	0	0.449241
8406	1	0.443613
8407	1	0.443589
8408	0	0.336329
8409	0	0.277528
8410	0	0.455162
8411	0	0.415841
8412	1	0.528707
8413	0	0.386367
8414	0	0.387710
8415	1	0.577202
8416	1	0.604577
8417	0	0.436461
8418	1	0.419666
8419	0	0.373553
8420	0	0.439434
8421	0	0.389473
8422	0	0.453161
8423	1	0.589178
8424	0	0.446759
8425	0	0.583135
8426	1	0.427383
8427	0	0.383294
8428	0	0.208778
8429	0	0.460866
8430	0	0.358018
8431	0	0.408770
8432	1	0.569804

8433	0	0.368601
8434	0	0.428685
8435	1	0.574330
8436	0	0.326948
8437	1	0.482996
8438	1	0.309463
8439	0	0.660023
8440	1	0.528329
8441	1	0.300072
8442	0	0.449781
8443	1	0.450822
8444	1	0.493463
8445	1	0.609516
8446	0	0.471824
8447	0	0.374655
8448	1	0.376399
8449	1	0.528391
8450	0	0.308606
8451	1	0.600889
8452	0	0.527885
8453	0	0.565986
8454	1	0.614848
8455	0	0.347746
8456	0	0.682587
8457	0	0.489925
8458	0	0.422779
8459	0	0.407813
8460	1	0.426370
8461	0	0.493537
8462	0	0.440669
8463	1	0.440698
8464	1	0.437534
8465	1	0.347475
8466	0	0.392474
8467	1	0.472782
8468	0	0.568411
8469	0	0.398232
8470	0	0.312671
8471	0	0.359587
8472	0	0.297904
8473	0	0.401057
8474	1	0.509012
8475	0	0.289390
8476	1	0.375600
8477	1	0.264819
8478	1	0.259884
8479	1	0.338307
8480	1	0.497335
8481	0	0.497521
8482	0	0.438844
8483	1	0.350876
8484	1	0.530636
8485	1	0.586983
8486	1	0.434985
8487	0	0.414588

8488	0	0.398704
8489	1	0.453841
8490	1	0.550904
8491	0	0.241415
8492	0	0.367108
8493	1	0.448159
8494	1	0.324727
8495	1	0.362568
8496	0	0.328752
8497	1	0.575845
8498	1	0.518922
8499	0	0.326759
8500	0	0.325622
8501	0	0.591664
8502	1	0.385434
8503	0	0.429083
8504	0	0.401169
8505	0	0.464844
8506	0	0.421611
8507	0	0.531024
8508	0	0.365303
8509	1	0.394461
8510	0	0.489801
8511	1	0.542381
8512	1	0.418893
8513	1	0.443047
8514	0	0.403120
8515	0	0.557353
8516	0	0.570169
8517	0	0.379768
8518	1	0.434575
8519	1	0.641259
8520	0	0.405023
8521	1	0.456197
8522	0	0.507241
8523	0	0.388562
8524	0	0.449544
8525	1	0.545803
8526	0	0.500036
8527	0	0.344592
8528	1	0.542506
8529	1	0.342181
8530	0	0.551795
8531	0	0.431799
8532	0	0.281073
8533	0	0.376716
8534	1	0.389026
8535	1	0.391975
8536	1	0.398845
8537	1	0.224220
8538	0	0.305913
8539	1	0.592078
8540	0	0.377726
8541	1	0.609008
8542	1	0.481144

8543	0	0.283272
8544	1	0.370127
8545	0	0.439543
8546	1	0.593967
8547	0	0.594920
8548	1	0.285434
8549	1	0.534148
8550	0	0.334345
8551	0	0.368629
8552	0	0.527887
8553	0	0.443700
8554	0	0.501510
8555	0	0.308628
8556	0	0.319767
8557	0	0.347612
8558	1	0.485861
8559	1	0.437119
8560	0	0.361555
8561	1	0.401041
8562	0	0.449095
8563	0	0.335637
8564	1	0.474155
8565	0	0.388191
8566	0	0.374376
8567	1	0.373968
8568	0	0.345269
8569	0	0.391130
8570	1	0.597459
8571	1	0.405736
8572	0	0.490058
8573	0	0.337759
8574	0	0.337672
8575	0	0.330575
8576	0	0.558762
8577	0	0.503526
8578	0	0.693538
8579	0	0.521157
8580	0	0.439631
8581	0	0.425107
8582	1	0.435468
8583	0	0.375831
8584	0	0.647720
8585	0	0.315492
8586	1	0.455385
8587	0	0.392272
8588	0	0.425613
8589	0	0.184568
8590	0	0.488126
8591	1	0.370836
8592	0	0.427132
8593	1	0.478675
8594	0	0.406762
8595	0	0.300506
8596	1	0.508481

8597	1	0.712345
8598	1	0.396916
8599	0	0.539523
8600	0	0.492865
8601	0	0.442579
8602	0	0.560387
8603	0	0.394964
8604	0	0.437798
8605	0	0.465100
8606	0	0.413431
8607	0	0.640327
8608	0	0.428523
8609	0	0.367576
8610	0	0.393384
8611	1	0.349725
8612	0	0.382741
8613	1	0.467572
8614	1	0.392910
8615	1	0.289316
8616	0	0.542636
8617	1	0.445025
8618	1	0.511363
8619	0	0.394514
8620	1	0.484086
8621	1	0.410736
8622	0	0.324339
8623	0	0.325765
8624	0	0.382504
8625	0	0.420466
8626	1	0.343072
8627	1	0.490432
8628	1	0.436738
8629	1	0.389722
8630	1	0.588350
8631	1	0.460956
8632	0	0.379214
8633	0	0.364726
8634	1	0.409959
8635	1	0.646495
8636	1	0.367555
8637	1	0.543793
8638	1	0.569530
8639	0	0.346468
8640	1	0.630179
8641	0	0.390335
8642	0	0.331320
8643	1	0.566493
8644	1	0.482899
8645	0	0.364498
8646	1	0.454789
8647	0	0.375487

In [187]: # Attribuons les indices du dataframe d'évaluation pour pouvoir les identifier.

In [188]: Reales\_Predicciones.index = lgd0\_independientes\_evaluacion.index

In [189]:

Reales\_Predicciones

Out[189]:

Tasa de Recuperacion 0 Probabilidad Tasa de Recuperacion 0

id		
3349377	1	0.342751
531734	0	0.295537
6516198	1	0.468626
2075603	0	0.309161
11687952	0	0.468314
5769753	1	0.496092
4455527	1	0.433181
1479173	0	0.269189
3524583	1	0.406778
10556737	0	0.344939
11398280	1	0.478755
6546693	1	0.486765
7668420	0	0.416756
1196812	0	0.388295
3149086	1	0.427357
10098771	0	0.493664
1249146	0	0.333727
1476655	0	0.495538
14298095	0	0.573957
34462399	1	0.457738
29774206	1	0.578760
1677884	0	0.528507
3642160	0	0.404395
8609904	1	0.433275
5968979	0	0.420062
14328320	1	0.628499
7914998	0	0.364495
5524830	0	0.482083
7265729	0	0.393521
6815618	1	0.369745
20899668	1	0.685283
6715424	0	0.360866
5789752	0	0.370837
2089297	0	0.443666
1391400	0	0.293404
5964588	1	0.382516
1089989	0	0.321416
6084659	0	0.308061
7101360	1	0.561003
1082228	0	0.331949
9404776	1	0.362159
2076608	1	0.403122
3637846	1	0.421832
32049446	1	0.522274
5765138	0	0.547598
3186730	0	0.381329
3299285	0	0.432181
7505184	1	0.552016
8618796	1	0.536972
520689	1	0.353688
5444629	0	0.502441
1116508	0	0.339780

1234404	0	0.306847
13448617	1	0.508198
1626949	0	0.385401
3370290	0	0.273248
142496	0	0.149671
431218	0	0.235569
739799	0	0.352669
5774525	0	0.553553
1067126	1	0.255020
18575166	1	0.499859
1423651	0	0.487715
13267784	1	0.490416
1321996	0	0.354352
1595801	0	0.422157
1583326	0	0.380415
3806187	0	0.352161
7346311	0	0.428984
387672	0	0.183964
1022961	0	0.339828
5125261	0	0.344097
18984969	1	0.350948
3375934	1	0.358297
3285349	1	0.370424
503881	1	0.211148
8284766	1	0.567582
612634	0	0.257162
3287077	0	0.287924
4255618	1	0.452242
6895109	1	0.409684
1110376	0	0.283344
1613427	0	0.354735
6582529	0	0.461541
597019	0	0.495842
6637478	1	0.382129
983992	0	0.317761
831452	1	0.139113
7439211	0	0.451900
35833699	0	0.648034
2874916	0	0.438651
781407	0	0.319248
1091633	0	0.281662
1482228	0	0.425181
2826272	1	0.458119
6899027	0	0.360683
36661455	1	0.534977
26979961	0	0.647469
4528660	0	0.329408
7574698	0	0.560272
16361425	0	0.497000
10845292	1	0.593363
11004858	0	0.588828
11134564	1	0.418253
14509848	0	0.405097
6529032	0	0.402729

741219	1	0.285837
4278558	0	0.526870
22452703	1	0.415286
6553506	1	0.406486
5636872	0	0.416274
28603835	1	0.431477
1556852	0	0.408496
3633445	0	0.350325
5959826	0	0.463939
7659570	1	0.418309
11215680	0	0.621252
3057252	1	0.380022
774335	0	0.333423
685339	0	0.399867
2085677	0	0.524144
26769741	1	0.493881
1435858	0	0.338341
20762216	1	0.317772
1402002	1	0.307993
1612339	1	0.400564
7068442	0	0.540865
3487661	1	0.389895
9008696	0	0.498708
24845980	0	0.589062
2827639	0	0.487521
15810852	0	0.630533
7063900	1	0.499151
12456875	0	0.420639
7005592	1	0.466436
153178	0	0.151104
3919682	0	0.332157
9796970	1	0.543203
1116654	0	0.308179
8266175	0	0.410861
10567104	1	0.512639
807799	0	0.339390
5786134	0	0.439983
5884785	1	0.665265
861361	0	0.425921
4255047	0	0.458719
8158158	0	0.475386
3065621	0	0.521757
909295	0	0.267703
12968273	1	0.556437
7102725	1	0.668382
13918166	1	0.435982
466965	0	0.263476
3234775	0	0.341741
12425806	0	0.532908
10091544	0	0.573628
12967905	0	0.428098
13457482	0	0.640695
33181693	1	0.492589
3236304	0	0.411773
5797519	0	0.515764

6834984	0	0.378161
609578	0	0.364147
6788212	0	0.525478
1478807	0	0.327162
26137969	1	0.615780
761604	0	0.347259
571882	0	0.292688
4254655	1	0.485694
12976211	1	0.496642
7367648	1	0.577950
13508663	1	0.443247
5186463	1	0.409371
25275974	0	0.559742
27390497	0	0.673787
34623585	1	0.598983
728866	0	0.597261
1356790	0	0.351311
4275439	1	0.276230
4279775	1	0.312200
10675244	1	0.420614
7104115	0	0.410502
8669279	1	0.391463
6416525	0	0.339637
32039396	1	0.743980
1573665	1	0.306576
503502	1	0.173413
7367277	0	0.500262
822778	0	0.199333
3920717	0	0.413643
18626119	0	0.464335
23895976	1	0.470444
1458124	0	0.329593
1426036	1	0.373430
12636867	1	0.507279
3215216	0	0.367670
28813687	1	0.529081
10676634	1	0.398253
772326	0	0.283180
9285054	0	0.554543
1034896	0	0.261282
475830	0	0.340226
1826813	1	0.413038
28543694	1	0.553705
35003501	1	0.569105
5135632	1	0.366000
10716582	1	0.562146
29914627	1	0.632232
7440497	0	0.517254
694008	1	0.253348
19306387	1	0.572786
6605289	0	0.360997
766515	0	0.286938
2838564	0	0.294613
16572034	1	0.542685
826509	0	0.181267

33141894	1	0.572378
1589127	0	0.422748
680672	0	0.421112
3534721	1	0.557757
27622435	0	0.576175
1386760	0	0.269483
7725036	0	0.466826
6537610	1	0.393715
5789562	0	0.411772
21400500	1	0.517425
1512528	0	0.423993
1279586	0	0.366546
4196994	0	0.353934
36371233	0	0.472143
440545	0	0.292370
8846124	1	0.327209
1536519	0	0.444026
8024762	0	0.452168
10118683	1	0.566253
9228878	0	0.483629
7099766	0	0.228706
575569	1	0.417677
809003	0	0.343651
24035133	1	0.481900
10224616	0	0.419243
774066	1	0.367843
3186176	1	0.463925
14228490	0	0.378421
12316790	1	0.443344
5626946	0	0.383942
6244974	1	0.349841
1684269	1	0.405294
29604601	1	0.489004
7093625	1	0.344602
614849	0	0.301463
12686281	1	0.551592
876510	0	0.243092
9066464	0	0.411521
8875460	1	0.469789
434055	0	0.224282
4196011	1	0.473611
5777995	0	0.334514
6918627	1	0.424708
2214950	0	0.530852
13016844	1	0.349325
1167974	0	0.298317
9474712	0	0.459613
250752	0	0.332564
546792	0	0.319558
13508514	1	0.367147
19617267	1	0.473941
1557082	0	0.427757
1469455	0	0.390111
14500634	1	0.601442
22343580	0	0.381814

4694606	0	0.487721
35753904	1	0.476459
616126	0	0.437198
15459744	0	0.496037
777395	1	0.359388
996255	0	0.359843
5544760	1	0.487714
2895791	0	0.398214
1254153	1	0.379933
800759	0	0.242511
16272103	1	0.564722
24025909	1	0.561425
4797782	0	0.389465
621507	0	0.370744
7089261	0	0.403949
12335072	0	0.402533
788234	1	0.408644
6583604	0	0.500229
3635195	0	0.365210
224381	0	0.244844
11875016	1	0.470570
5041292	1	0.398778
546371	0	0.277998
16261987	0	0.439570
10504564	0	0.362942
6531380	1	0.477041
1115363	0	0.279368
7376490	1	0.429761
1108973	0	0.300869
1194564	0	0.275035
370696	1	0.246190
4125342	1	0.413144
23864313	0	0.504719
12998016	0	0.648945
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6395798	1	0.441843
454043	1	0.214301
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1031278	0	0.418580
11378390	0	0.430758
4985345	1	0.571417
13797653	1	0.371841
7727156	1	0.399459
3105031	0	0.494327
17733250	1	0.401489
17883835	1	0.567807
34463384	1	0.616153
972129	0	0.368050
34863581	0	0.472950
2369987	0	0.404617
6344731	0	0.494452
15611072	1	0.512372
15350757	1	0.399507
30335612	1	0.504795

10617328	1	0.560469
36201063	0	0.496941
4278363	1	0.460223
12806251	0	0.551302
587665	0	0.330460
1826305	0	0.365716
20678884	1	0.624515
1048337	1	0.378541
8135395	1	0.501525
3904679	1	0.306253
1527288	0	0.368799
1030851	1	0.362509
26350351	1	0.443827
3676134	0	0.442793
1119582	0	0.396762
1065103	0	0.387057
1541190	1	0.475588
4654680	1	0.365887
6551629	1	0.427088
1066071	1	0.365532
7956834	1	0.324736
413731	0	0.222704
4167377	1	0.333665
1202067	0	0.227914
3335378	1	0.403317
1417906	0	0.358824
9724868	1	0.245057
3163818	0	0.302659
13017540	0	0.514513
31096227	1	0.626710
1824662	1	0.360690
6084722	0	0.360794
7091718	1	0.367925
2366167	0	0.447353
7690203	1	0.615936
7387446	0	0.393495
3604740	1	0.395623
562505	0	0.350131
1217363	0	0.410462
13807353	0	0.389120
756472	1	0.523617
1100335	0	0.363864
1619117	0	0.440316
3699448	0	0.358099
7097213	0	0.306196
1123795	1	0.361153
585759	0	0.340534
1114392	1	0.452118
23723172	1	0.480504
1124236	0	0.303787
9228256	1	0.424553
536794	1	0.421022
5425655	0	0.289865
6739000	0	0.337391
6716077	1	0.492147

8117028	0	0.435589
1218985	0	0.412345
1127851	0	0.320014
5114725	1	0.516699
10181709	1	0.558095
1412156	0	0.391580
9010675	1	0.514895
1678556	0	0.307932
21240033	0	0.496411
14650207	1	0.609424
8356523	1	0.369994
10090132	1	0.622478
9076356	1	0.539783
6594752	1	0.512143
1601088	0	0.348659
1489888	1	0.346963
316139	0	0.219778
599608	0	0.276619
4308504	0	0.450573
570482	0	0.494815
1215978	0	0.358457
7448284	0	0.483859
28803150	1	0.407331
8385207	1	0.499653
10183491	0	0.454696
11365603	0	0.414467
13847818	1	0.349021
6646235	0	0.440598
634078	0	0.228103
23976078	1	0.734692
13517771	1	0.507667
936915	0	0.295709
28593548	1	0.532973
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5781877	1	0.532579
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588126	0	0.274178
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23884317	1	0.464943
1364350	0	0.325636
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23132723	0	0.325698
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10179362	0	0.411283
15700745	0	0.493054
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29574259	1	0.460745
868012	0	0.313144
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3807148	0	0.272095
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1689127	1	0.436032
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4569103	1	0.531578
13257517	1	0.422505
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3288560	1	0.438973
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29273844	1	0.538987
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35723533	1	0.583438
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582198	0	0.266403
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3925052	0	0.366982
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9868014	1	0.496021
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3379787	1	0.373403
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767584	0	0.281013
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8394986	0	0.435644
23563441	1	0.618038
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1068877	0	0.355816
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23113105	1	0.490594
8316148	0	0.404299
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5779272	0	0.427057
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817676	1	0.390759
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22333399	1	0.570930
7305117	1	0.422036
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356756	0	0.200124
465034	0	0.249411
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7665625	1	0.385437
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5614912	1	0.559427
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24174868	1	0.529108
1437989	0	0.442086

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31387336	1	0.420623
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7715875	1	0.546974
15410121	1	0.411693
33330238	1	0.532919
16051382	1	0.549436
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740417	1	0.418423
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789281	0	0.415233
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2371475	1	0.361050
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1199485	0	0.380768
4547088	0	0.436633
4786729	0	0.395559
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26409892	1	0.546781
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1634762	1	0.572923
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12516994	1	0.501759
12347032	0	0.384706
1374416	1	0.449563
13447441	1	0.431672
434797	0	0.258316
742398	0	0.245738
3368004	0	0.438173
1616032	0	0.335449
3930709	1	0.372907
27491886	1	0.601802
12957923	0	0.451362
1615544	1	0.419090
20047795	1	0.535181
10628282	1	0.317116
3536265	0	0.250275
9198664	0	0.285944
9007769	1	0.447231
1541339	1	0.427006
1112748	1	0.353376
1108424	0	0.385808
5608433	0	0.443236
3158238	0	0.366402
32329769	1	0.415014

1255902	0	0.387195
1103845	0	0.391088
10132661	1	0.521441
34583379	1	0.647410
10150691	0	0.336561
3157840	0	0.391210
6549034	1	0.452539
8944826	0	0.394807
22292588	1	0.587804
1155827	0	0.358574
7946430	1	0.432543
1368924	0	0.452828
1433114	0	0.329551
6737397	0	0.440675
19426473	1	0.540482
8975389	1	0.437836
27531515	1	0.666918
2375125	0	0.384426
28763862	1	0.403178
11398597	1	0.557146
1364552	0	0.403824
1597797	1	0.452900
5605372	0	0.581018
20169248	0	0.589280
2828748	1	0.398912
7926132	1	0.304053
22211693	0	0.628266
34903760	1	0.636082
11316042	1	0.477120
5618950	0	0.347555
414465	1	0.244613
6572345	0	0.374690
15290991	1	0.447176
1498210	1	0.318767
19536068	1	0.485781
23933399	0	0.441806
3445575	0	0.388740
30765868	1	0.581332
10697030	0	0.532273
18284339	0	0.557455
16482052	0	0.644772
7369544	0	0.457150
1398318	0	0.333431
9675238	1	0.404128
32999797	0	0.543741
14520553	1	0.533139
12497708	1	0.455143
12816326	0	0.331097
3666696	0	0.398633
35317147	1	0.540438
20428526	1	0.445557
3674606	1	0.416924
15310294	1	0.428200
10727191	0	0.560007

16333129	1	0.528461
732635	0	0.295155
1683296	1	0.422756
7339434	0	0.510724
23855263	1	0.388624
3300083	0	0.407122
1156752	0	0.352258
5424743	0	0.349415
592571	0	0.396954
16502900	0	0.579252
22364220	1	0.530514
3368729	1	0.445077
6065190	1	0.498338
1008504	0	0.306189
19116302	1	0.497925
5365699	1	0.508541
265115	1	0.151651
1628248	1	0.417251
13147573	0	0.349168
1141807	0	0.373643
15380791	0	0.445460
10578552	1	0.518171
21191756	1	0.494660
3198419	0	0.444557
1569933	0	0.344273
712546	0	0.250989
10159277	0	0.398648
10625934	1	0.481755
7049232	1	0.478007
1057424	0	0.406951
7687201	0	0.371370
6907687	1	0.459906
30365534	0	0.355042
1612676	0	0.486128
1334109	1	0.553863
710590	0	0.205436
3635811	1	0.412775
1425701	1	0.368759
30265261	1	0.448329
1409149	0	0.364926
2985161	1	0.562422
6885185	0	0.547592
390038	1	0.260011
12265203	1	0.335446
5777446	0	0.330820
6515027	1	0.364577
10597045	0	0.389220
21091130	1	0.466525
6718849	0	0.393431
706013	0	0.337207
3627842	1	0.274702
1108718	0	0.482208
11236058	1	0.460052
16302127	0	0.441660
6186296	0	0.353082

20778687	1	0.581018
22404692	0	0.321716
35327435	1	0.495696
15560668	1	0.377207
11644654	0	0.667395
450193	1	0.288451
7925769	1	0.325563
445465	1	0.294676
6331623	0	0.517825
1142366	0	0.358175
34272302	1	0.425854
5760747	0	0.402315
6157620	0	0.513905
1203180	0	0.395075
28564542	1	0.403487
2229454	0	0.406706
12605572	0	0.453406
37831133	0	0.582006
1496060	0	0.281521
26048171	1	0.413987
11436359	0	0.520025
1548027	1	0.425255
2082239	1	0.409594
3696782	0	0.422770
26289583	0	0.459204
2054932	1	0.264788
14629392	1	0.451379
1454990	0	0.359591
11765009	1	0.557595
1408515	0	0.313940
17814475	1	0.473925
780946	1	0.254466
4455243	1	0.554098
4654610	0	0.373751
3697201	1	0.418227
1332686	0	0.394195
7074829	0	0.383561
1417575	0	0.325847
8588976	1	0.429815
314759	0	0.231819
3847839	0	0.320770
2825760	1	0.484773
1192680	0	0.318076
19117223	1	0.535383
3146463	1	0.499854
1684744	0	0.396294
24395090	1	0.580138
20692580	1	0.503285
10085663	1	0.537749
589504	0	0.542640
26208539	1	0.703715
1511006	1	0.379885
8966220	1	0.593970
15701580	1	0.496136
27140086	1	0.489812

11415709	0	0.405957
1525549	1	0.463442
7101225	1	0.620219
16201593	1	0.435829
351023	1	0.237377
20799437	1	0.640913
11245161	1	0.624422
18855358	0	0.570198
7725795	1	0.367763
5814776	0	0.266308
7616021	0	0.478436
470041	0	0.246374
1340005	0	0.364696
1458265	0	0.381000
4624900	1	0.407641
10598897	0	0.443392
808459	1	0.200203
1003925	0	0.351434
20138088	0	0.459585
3295989	0	0.481176
1407735	0	0.406198
12955830	1	0.452567
3919316	1	0.395757
442205	0	0.181888
6975921	0	0.335881
10604909	1	0.486040
3811042	1	0.457883
4934925	1	0.518133
1017623	0	0.373783
5025443	1	0.410032
3234928	0	0.424553
8966321	0	0.428686
670124	0	0.407690
36008153	1	0.803232
12916889	0	0.328776
32489635	1	0.516780
28072224	1	0.564634
1396486	0	0.424946
4534852	1	0.432500
32099195	0	0.610529
1001343	0	0.462383
37127488	0	0.621532
1353505	1	0.414314
6787958	1	0.428692
16302891	1	0.575520
737124	0	0.245787
28703694	1	0.471090
5773158	1	0.429776
1068202	0	0.283822
1576216	1	0.407537
3292742	1	0.360665
1440815	0	0.400723
6206103	1	0.431404
2828088	0	0.459958
1302796	0	0.434619

661329	0	0.325883
1415503	0	0.433809
12287374	0	0.653901
13097852	0	0.532633
1272379	1	0.388686
20119774	1	0.549471
11726170	1	0.441257
7436912	1	0.453443
3375933	1	0.360529
2075344	1	0.424458
34894812	1	0.717694
1110616	1	0.393603
4558996	0	0.344245
1497675	0	0.373638
36290287	1	0.412419
9228206	1	0.492587
5640242	1	0.383818
11708020	1	0.517090
22982638	1	0.453847
11377146	0	0.530920
12906823	1	0.442140
11935938	0	0.459402
7668324	0	0.325374
1513182	1	0.465186
369903	0	0.241025
3240001	0	0.369146
2090424	0	0.383025
457678	0	0.260216
881074	1	0.411156
7660080	0	0.421822
386164	0	0.215435
15349517	0	0.449241
30125309	1	0.443613
14670572	1	0.443589
1706398	0	0.336329
1254072	0	0.277528
9827225	0	0.455162
17884471	0	0.415841
8598280	1	0.528707
7254761	0	0.386367
11678164	0	0.387710
7638183	1	0.577202
25146061	1	0.604577
3367619	0	0.436461
23915565	1	0.419666
29104219	0	0.373553
1401565	0	0.439434
988131	0	0.389473
2645702	0	0.453161
6579305	1	0.589178
11064941	0	0.446759
10153149	0	0.583135
533769	1	0.427383
6928416	0	0.383294

488607	0	0.208778
1486451	0	0.460866
1338623	0	0.358018
1218209	0	0.408770
20761294	1	0.569804
1098235	0	0.368601
7204776	0	0.428685
24034801	1	0.574330
1446039	0	0.326948
34864234	1	0.482996
35988360	1	0.309463
10125634	0	0.660023
18024139	1	0.528329
655993	1	0.300072
1475556	0	0.449781
35136455	1	0.450822
5800450	1	0.493463
17733706	1	0.609516
1560958	0	0.471824
5764342	0	0.374655
5939655	1	0.376399
6416476	1	0.528391
3932689	0	0.308606
13477778	1	0.600889
34583363	0	0.527885
6908816	0	0.565986
20598884	1	0.614848
11644634	0	0.347746
34944628	0	0.682587
31327169	0	0.489925
7265921	0	0.422779
1442883	0	0.407813
2078551	1	0.426370
1857021	0	0.493537
6616756	0	0.440669
7074489	1	0.440698
8574614	1	0.437534
4288047	1	0.347475
1439548	0	0.392474
19947968	1	0.472782
1550838	0	0.568411
1684799	0	0.398232
1263097	0	0.312671
3359984	0	0.359587
1507746	0	0.297904
3286501	0	0.401057
4445105	1	0.509012
6706604	0	0.289390
7698353	1	0.375600
980996	1	0.264819
417817	1	0.259884
1283091	1	0.338307
24524869	1	0.497335
20088998	0	0.497521
7275210	0	0.438844

3164050	1	0.350876
19386122	1	0.530636
36763453	1	0.586983
9005757	1	0.434985
1453135	0	0.414588
5032049	0	0.398704
3486839	1	0.453841
10607771	1	0.550904
467986	0	0.241415
20050621	0	0.367108
7945020	1	0.448159
3216811	1	0.324727
13336978	1	0.362568
9765096	0	0.328752
28643194	1	0.575845
27731515	1	0.518922
538610	0	0.326759
358822	0	0.325622
22442059	0	0.591664
11685567	1	0.385434
5938403	0	0.429083
1028164	0	0.401169
29714620	0	0.464844
6395732	0	0.421611
22491471	0	0.531024
6505073	0	0.365303
1561720	1	0.394461
4527771	0	0.489801
26187825	1	0.542381
1638121	1	0.418893
3701140	1	0.443047
980293	0	0.403120
3704467	0	0.557353
9239494	0	0.570169
7097799	0	0.379768
7356101	1	0.434575
22354042	1	0.641259
15330123	0	0.405023
12626046	1	0.456197
4125395	0	0.507241
1255141	0	0.388562
12917508	0	0.449544
12356287	1	0.545803
8215271	0	0.500036
517520	0	0.344592
23183470	1	0.542506
1215414	1	0.342181
13047373	0	0.551795
1414285	0	0.431799
1600990	0	0.281073
9816424	0	0.376716
8835574	1	0.389026
16541289	1	0.391975
7053928	1	0.398845
446726	1	0.224220

1050921	0	0.305913
32009135	1	0.592078
1061788	0	0.377726
11657803	1	0.609008
6189115	1	0.481144
1125853	0	0.283272
1529426	1	0.370127
1612345	0	0.439543
15409670	1	0.593967
16742458	0	0.594920
370940	1	0.285434
5608221	1	0.534148
5254588	0	0.334345
4594614	0	0.368629
13557544	0	0.527887
2826572	0	0.443700
7706828	0	0.501510
1098432	0	0.308628
1413823	0	0.319767
1264759	0	0.347612
4167332	1	0.485861
9124909	1	0.437119
558619	0	0.361555
13067016	1	0.401041
6291252	0	0.449095
700865	0	0.335637
4455440	1	0.474155
4565379	0	0.388191
6157139	0	0.374376
8264562	1	0.373968
762932	0	0.345269
16542659	0	0.391130
34383659	1	0.597459
1581963	1	0.405736
605582	0	0.490058
5335755	0	0.337759
1422072	0	0.337672
798802	0	0.330575
7062094	0	0.558762
10146426	0	0.503526
29645617	0	0.693538
7636518	0	0.521157
1311328	0	0.439631
6617740	0	0.425107
12458523	1	0.435468
1532858	0	0.375831
29635255	0	0.647720
1600016	0	0.315492
3240016	1	0.455385
3642110	0	0.392272
1271078	0	0.425613
595190	0	0.184568
3159632	0	0.488126
4285344	1	0.370836
2435567	0	0.427132

6714950	1	0.478675
8504861	0	0.406762
1260558	0	0.300506
17735632	1	0.508481
23503298	1	0.712345
5545701	1	0.396916
5774587	0	0.539523
12645541	0	0.492865
3214911	0	0.442579
34322530	0	0.560387
736551	0	0.394964
12405524	0	0.437798
5758451	0	0.465100
2371244	0	0.413431
19076282	0	0.640327
10183453	0	0.428523
1532781	0	0.367576
670105	0	0.393384
5616294	1	0.349725
711127	0	0.382741
4555628	1	0.467572
36281463	1	0.392910
1486453	1	0.289316
17715024	0	0.542636
5938674	1	0.445025
11054607	1	0.511363
1567974	0	0.394514
1090668	1	0.484086
17533145	1	0.410736
5195254	0	0.324339
1413293	0	0.325765
4536515	0	0.382504
1227017	0	0.420466
1454603	1	0.343072
9065904	1	0.490432
24616207	1	0.436738
8184976	1	0.389722
9854799	1	0.588350
9265221	1	0.460956
17383481	0	0.379214
856790	0	0.364726
3006952	1	0.409959
33931664	1	0.646495
14579833	1	0.367555
3928649	1	0.543793
19466188	1	0.569530
10854848	0	0.346468
32159072	1	0.630179
3096322	0	0.390335
725534	0	0.331320
9756510	1	0.566493
10736502	1	0.482899
1435621	0	0.364498
1523059	1	0.454789

3285905

0

0.375487

In [ ]: #Maintenant, il est facile de déterminer l'exactitude du modèle  
#en utilisant la même méthodologie que celle que nous avons utilisée pour le modèle PD. Définissons le point de

In [190]: punto\_de\_corte = 0.5

In [191]: # Créons une nouvelle colonne avec la prédition du modèle.

In [192]: Reales\_Predicciones['Prediccion Tasa de Recuperacion 0'] = np.where(Reales\_Predicciones['Probabilidad Tasa de R']

In [193]: Reales\_Predicciones

Out[193]: Tasa de Recuperacion 0 Probabilidad Tasa de Recuperacion 0 Prediccion Tasa de Recuperacion 0

id	Tasa de Recuperacion 0	Probabilidad Tasa de Recuperacion 0	Prediccion Tasa de Recuperacion 0
3349377	1	0.342751	0
531734	0	0.295537	0
6516198	1	0.468626	0
2075603	0	0.309161	0
11687952	0	0.468314	0
5769753	1	0.496092	0
4455527	1	0.433181	0
1479173	0	0.269189	0
3524583	1	0.406778	0
10556737	0	0.344939	0
11398280	1	0.478755	0
6546693	1	0.486765	0
7668420	0	0.416756	0
1196812	0	0.388295	0
3149086	1	0.427357	0
10098771	0	0.493664	0
1249146	0	0.333727	0
1476655	0	0.495538	0
14298095	0	0.573957	1
34462399	1	0.457738	0
29774206	1	0.578760	1
1677884	0	0.528507	1
3642160	0	0.404395	0
8609904	1	0.433275	0
5968979	0	0.420062	0
14328320	1	0.628499	1
7914998	0	0.364495	0
5524830	0	0.482083	0
7265729	0	0.393521	0
6815618	1	0.369745	0
20899668	1	0.685283	1
6715424	0	0.360866	0
5789752	0	0.370837	0
2089297	0	0.443666	0
1391400	0	0.293404	0
5964588	1	0.382516	0
1089989	0	0.321416	0
6084659	0	0.308061	0
7101360	1	0.561003	1
1082228	0	0.331949	0
9404776	1	0.362159	0
2076608	1	0.403122	0
3637846	1	0.421832	0

32049446	1	0.522274	1
5765138	0	0.547598	1
3186730	0	0.381329	0
3299285	0	0.432181	0
7505184	1	0.552016	1
8618796	1	0.536972	1
520689	1	0.353688	0
5444629	0	0.502441	1
1116508	0	0.339780	0
1234404	0	0.306847	0
13448617	1	0.508198	1
1626949	0	0.385401	0
3370290	0	0.273248	0
142496	0	0.149671	0
431218	0	0.235569	0
739799	0	0.352669	0
5774525	0	0.553553	1
1067126	1	0.255020	0
18575166	1	0.499859	0
1423651	0	0.487715	0
13267784	1	0.490416	0
1321996	0	0.354352	0
1595801	0	0.422157	0
1583326	0	0.380415	0
3806187	0	0.352161	0
7346311	0	0.428984	0
387672	0	0.183964	0
1022961	0	0.339828	0
5125261	0	0.344097	0
18984969	1	0.350948	0
3375934	1	0.358297	0
3285349	1	0.370424	0
503881	1	0.211148	0
8284766	1	0.567582	1
612634	0	0.257162	0
3287077	0	0.287924	0
4255618	1	0.452242	0
6895109	1	0.409684	0
1110376	0	0.283344	0
1613427	0	0.354735	0
6582529	0	0.461541	0
597019	0	0.495842	0
6637478	1	0.382129	0
983992	0	0.317761	0
831452	1	0.139113	0
7439211	0	0.451900	0
35833699	0	0.648034	1
2874916	0	0.438651	0
781407	0	0.319248	0
1091633	0	0.281662	0
1482228	0	0.425181	0
2826272	1	0.458119	0
6899027	0	0.360683	0
36661455	1	0.534977	1
26979961	0	0.647469	1

4528660	0	0.329408	0
7574698	0	0.560272	1
16361425	0	0.497000	0
10845292	1	0.593363	1
11004858	0	0.588828	1
11134564	1	0.418253	0
14509848	0	0.405097	0
6529032	0	0.402729	0
741219	1	0.285837	0
4278558	0	0.526870	1
22452703	1	0.415286	0
6553506	1	0.406486	0
5636872	0	0.416274	0
28603835	1	0.431477	0
1556852	0	0.408496	0
3633445	0	0.350325	0
5959826	0	0.463939	0
7659570	1	0.418309	0
11215680	0	0.621252	1
3057252	1	0.380022	0
774335	0	0.333423	0
685339	0	0.399867	0
2085677	0	0.524144	1
26769741	1	0.493881	0
1435858	0	0.338341	0
20762216	1	0.317772	0
1402002	1	0.307993	0
1612339	1	0.400564	0
7068442	0	0.540865	1
3487661	1	0.389895	0
9008696	0	0.498708	0
24845980	0	0.589062	1
2827639	0	0.487521	0
15810852	0	0.630533	1
7063900	1	0.499151	0
12456875	0	0.420639	0
7005592	1	0.466436	0
153178	0	0.151104	0
3919682	0	0.332157	0
9796970	1	0.543203	1
1116654	0	0.308179	0
8266175	0	0.410861	0
10567104	1	0.512639	1
807799	0	0.339390	0
5786134	0	0.439983	0
5884785	1	0.665265	1
861361	0	0.425921	0
4255047	0	0.458719	0
8158158	0	0.475386	0
3065621	0	0.521757	1
909295	0	0.267703	0
12968273	1	0.556437	1
7102725	1	0.668382	1
13918166	1	0.435982	0
466965	0	0.263476	0

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12425806	0	0.532908	1
10091544	0	0.573628	1
12967905	0	0.428098	0
13457482	0	0.640695	1
33181693	1	0.492589	0
3236304	0	0.411773	0
5797519	0	0.515764	1
6834984	0	0.378161	0
609578	0	0.364147	0
6788212	0	0.525478	1
1478807	0	0.327162	0
26137969	1	0.615780	1
761604	0	0.347259	0
571882	0	0.292688	0
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7367648	1	0.577950	1
13508663	1	0.443247	0
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27390497	0	0.673787	1
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728866	0	0.597261	1
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4279775	1	0.312200	0
10675244	1	0.420614	0
7104115	0	0.410502	0
8669279	1	0.391463	0
6416525	0	0.339637	0
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1573665	1	0.306576	0
503502	1	0.173413	0
7367277	0	0.500262	1
822778	0	0.199333	0
3920717	0	0.413643	0
18626119	0	0.464335	0
23895976	1	0.470444	0
1458124	0	0.329593	0
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3215216	0	0.367670	0
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772326	0	0.283180	0
9285054	0	0.554543	1
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766515	0	0.286938	0
2838564	0	0.294613	0
16572034	1	0.542685	1
826509	0	0.181267	0
33141894	1	0.572378	1
1589127	0	0.422748	0
680672	0	0.421112	0
3534721	1	0.557757	1
27622435	0	0.576175	1
1386760	0	0.269483	0
7725036	0	0.466826	0
6537610	1	0.393715	0
5789562	0	0.411772	0
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36371233	0	0.472143	0
440545	0	0.292370	0
8846124	1	0.327209	0
1536519	0	0.444026	0
8024762	0	0.452168	0
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9228878	0	0.483629	0
7099766	0	0.228706	0
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774066	1	0.367843	0
3186176	1	0.463925	0
14228490	0	0.378421	0
12316790	1	0.443344	0
5626946	0	0.383942	0
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1684269	1	0.405294	0
29604601	1	0.489004	0
7093625	1	0.344602	0
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12686281	1	0.551592	1
876510	0	0.243092	0
9066464	0	0.411521	0
8875460	1	0.469789	0
434055	0	0.224282	0
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5777995	0	0.334514	0
6918627	1	0.424708	0
2214950	0	0.530852	1
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1167974	0	0.298317	0

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19617267	1	0.473941	0
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22343580	0	0.381814	0
4694606	0	0.487721	0
35753904	1	0.476459	0
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777395	1	0.359388	0
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621507	0	0.370744	0
7089261	0	0.403949	0
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788234	1	0.408644	0
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224381	0	0.244844	0
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5041292	1	0.398778	0
546371	0	0.277998	0
16261987	0	0.439570	0
10504564	0	0.362942	0
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7387446	0	0.393495	0
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3699448	0	0.358099	0
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585759	0	0.340534	0

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536794	1	0.421022	0
5425655	0	0.289865	0
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8117028	0	0.435589	0
1218985	0	0.412345	0
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1678556	0	0.307932	0
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316139	0	0.219778	0
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3725173	0	0.294917	0
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7088999	0	0.539618	1
1396773	0	0.369837	0
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2635807	0	0.342759	0
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1162420	1	0.270278	0
10004638	0	0.425555	0
8024904	0	0.489400	0
755563	0	0.457558	0
592953	0	0.333232	0
10114800	0	0.574499	1
3015964	0	0.452696	0
22051248	0	0.385818	0
10595033	1	0.425294	0
28522714	0	0.481541	0
3605337	0	0.262273	0
556807	1	0.474513	0
14358053	1	0.553423	1
6596655	0	0.389132	0
3146319	1	0.382252	0
13317083	1	0.603730	1
28082182	1	0.455886	0
1492303	0	0.269659	0
1521669	0	0.364405	0
429126	0	0.299782	0
6837393	0	0.460769	0
1250962	0	0.262435	0
8054565	1	0.438658	0
27521459	1	0.497603	0
1122743	0	0.388079	0
2635587	0	0.308109	0
753785	0	0.416457	0
3198085	0	0.486527	0
11448150	1	0.417863	0
571271	0	0.269768	0
29575440	1	0.636706	1
13115811	1	0.503528	1
2370653	1	0.460676	0
13687215	0	0.507227	1
1614980	0	0.376329	0
3640796	0	0.486827	0
741982	1	0.436635	0
1301232	0	0.393067	0
4296330	1	0.388088	0
8995639	0	0.438273	0
1536409	0	0.430349	0
20681166	0	0.503058	1
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26157694	1	0.651027	1
17793403	1	0.431855	0
2875267	0	0.341160	0
27872092	1	0.482287	0
6815821	1	0.489592	0
3005185	0	0.503294	1
8354743	0	0.333875	0

524955	1	0.386828	0
20781193	0	0.483878	0
1693146	0	0.428202	0
1336972	0	0.317498	0
19195960	0	0.486378	0
1120994	0	0.350945	0
1077934	0	0.253116	0
2474876	0	0.446042	0
1143198	1	0.397500	0
2305070	0	0.378465	0
9227273	1	0.447491	0
26188634	0	0.598387	1
28744382	1	0.546974	1
14848835	0	0.718602	1
11975412	0	0.452538	0
18496121	0	0.404722	0
9646596	1	0.303622	0
11996824	0	0.577376	1
6595170	0	0.311599	0
1006236	0	0.270058	0
11657813	1	0.531861	1
19115437	1	0.567428	1
15770721	1	0.584148	1
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1593902	0	0.466291	0
37097541	1	0.370010	0
613898	1	0.231791	0
755784	0	0.524572	1
3360671	1	0.385774	0
19075502	1	0.450611	0
1590433	0	0.491566	0
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705134	0	0.281606	0
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27982097	0	0.703585	1
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8355270	0	0.411037	0
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6206276	0	0.487913	0
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1323110	0	0.370508	0
5055262	0	0.442731	0
5165908	0	0.433777	0
8334944	1	0.467113	0
7068376	1	0.478092	0

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3370991	0	0.417124	0
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2300741	1	0.498089	0
670165	0	0.265189	0
20711605	1	0.383830	0
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3304634	0	0.401109	0
9706281	0	0.414655	0
9524998	1	0.455757	0
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1583540	0	0.313166	0
26909937	1	0.464055	0
374570	0	0.282998	0
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461603	0	0.357102	0
409611	0	0.199937	0
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17714165	0	0.585445	1
2376105	0	0.514725	1
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7647878	1	0.444198	0
8157649	0	0.414529	0
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8614925	1	0.487549	0
7390081	1	0.519993	1
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723759	0	0.250819	0
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371015	0	0.291075	0
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997204	0	0.341861	0
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6285776	0	0.454475	0
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3666373	0	0.422069	0
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3849706	1	0.413761	0
7717606	0	0.510441	1
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23835824	0	0.454268	0
503922	0	0.281130	0
742042	0	0.424712	0
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19495983	1	0.464983	0
681142	0	0.283664	0
4299846	0	0.398200	0
7387880	1	0.383952	0
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3288768	0	0.398228	0
8969995	0	0.443683	0
555383	0	0.328764	0
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3526636	0	0.306746	0
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3351202	0	0.359356	0
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7015179	1	0.431779	0
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34924747	1	0.576260	1

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3296393	1	0.472791	0
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435180	1	0.238416	0
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26169224	0	0.541503	1
3346294	0	0.386682	0
27640611	0	0.329169	0

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828169	0	0.233164	0
18714791	1	0.599767	1
3155830	0	0.405743	0
5145588	1	0.453503	0
4144889	0	0.353902	0
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585168	0	0.264510	0
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647688	1	0.424779	0
379234	0	0.226663	0
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30345287	0	0.528341	1
1626874	0	0.342567	0
4766374	1	0.421735	0
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14778892	1	0.485412	0
3932866	0	0.408497	0
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32188914	0	0.486456	0
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408113	0	0.282198	0
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23964026	0	0.579724	1

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2365844	0	0.298641	0
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3354796	0	0.397346	0
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12427079	1	0.348167	0
1307132	0	0.307315	0
6595803	0	0.332102	0
441784	0	0.213335	0
2485861	0	0.462853	0
9038321	0	0.387253	0
12685139	0	0.500383	1
592895	0	0.332908	0
8295889	1	0.455526	0
25567250	1	0.482665	0
4185365	0	0.285492	0
14007899	1	0.500066	1
7687681	0	0.645379	1
1413829	0	0.351123	0
8559398	0	0.580330	1
981929	0	0.346380	0
22444189	0	0.396150	0
3636860	1	0.392871	0
29053887	1	0.485791	0
1141600	0	0.293298	0
8959561	1	0.417494	0
16402421	1	0.435366	0
12596083	0	0.390095	0
10159630	1	0.483362	0
6834930	1	0.413467	0
865626	0	0.437892	0
5715123	1	0.464703	0
1481774	0	0.372490	0
13847559	1	0.631594	1
11727374	0	0.384203	0
12765628	0	0.501847	1
5605152	0	0.416506	0
11976444	0	0.411417	0
8795210	0	0.541103	1
5607460	1	0.416355	0
3628613	0	0.355892	0
3296359	1	0.420033	0
840682	0	0.369410	0
6316692	1	0.474036	0
11335485	0	0.371858	0
8647466	1	0.528843	1
1311677	1	0.403002	0
7626373	0	0.365605	0
5800614	0	0.533771	1

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1391467	0	0.442525	0
8995427	0	0.482611	0
3349164	0	0.361430	0
8556283	1	0.510442	1
13897604	1	0.495598	0
3635013	1	0.427948	0
21551040	0	0.442910	0
7088465	0	0.446053	0
25346341	1	0.323318	0
22384121	1	0.431215	0
528607	0	0.285919	0
1123225	0	0.300464	0
6178750	0	0.563658	1
779062	0	0.246047	0
7905486	1	0.539181	1
707938	0	0.351200	0
1602429	0	0.444859	0
6324593	0	0.469013	0
27550666	1	0.455107	0
465138	0	0.225322	0
15510522	1	0.735578	1
508426	0	0.271941	0
1460928	0	0.351364	0
652750	0	0.347028	0
12617495	0	0.473848	0
622836	0	0.413291	0
25356156	0	0.416292	0
6316902	0	0.442672	0
3381570	0	0.403321	0
10102141	0	0.263888	0
582937	0	0.457170	0
7709079	0	0.412461	0
35763957	1	0.432805	0
6168130	0	0.467055	0
1679528	0	0.395811	0
3928898	1	0.425571	0
5649400	1	0.524080	1
2368838	0	0.376693	0
10151042	0	0.479833	0
10034619	0	0.457589	0
19115400	1	0.674919	1
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12906691	0	0.416219	0
1122306	0	0.423125	0
603618	0	0.311721	0
1322334	1	0.355029	0
3158103	0	0.483479	0
1586403	0	0.578315	1
19127504	1	0.636034	1
6527418	0	0.366195	0
7635952	0	0.452610	0
1610646	0	0.414916	0
20090252	1	0.521765	1

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7695872	0	0.526501	1
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20749286	0	0.378132	0
2307560	0	0.402917	0
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1294595	0	0.281980	0
15359466	1	0.450388	0
13048151	0	0.428000	0
9634677	1	0.458734	0
29715036	1	0.564222	1
34442645	0	0.644987	1
428321	0	0.239027	0
7059328	1	0.334786	0
21030287	1	0.557698	1
30956153	1	0.598792	1
1459616	0	0.278149	0
8626721	0	0.482362	0
1347234	0	0.448935	0
10092669	1	0.295495	0
5768955	1	0.390863	0
8365139	0	0.405386	0
5620225	0	0.491216	0
7708729	0	0.398949	0
7454938	1	0.299234	0
701966	0	0.406551	0
203532	1	0.117717	0
8916076	0	0.623375	1
2375509	1	0.416281	0
33280381	1	0.513465	1
8214716	1	0.464831	0
1620978	1	0.427794	0
4295895	0	0.388114	0
579837	0	0.385173	0
14560043	0	0.522650	1
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4299844	0	0.347598	0
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26208113	1	0.567985	1
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643293	0	0.492423	0
7698484	1	0.453142	0
29134397	0	0.619664	1
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26168109	0	0.430030	0
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28442473	1	0.626727	1
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1945247	0	0.324034	0

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5628553	1	0.519788	1
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4795690	1	0.341631	0
14539809	1	0.517499	1
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1281886	0	0.377368	0
8667296	0	0.431097	0
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7094993	0	0.412698	0
3345574	0	0.511528	1
1955215	0	0.303671	0
6704847	1	0.618032	1
8184603	1	0.525137	1
3158978	1	0.416157	0
738148	1	0.240963	0
1249978	0	0.388933	0
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5761730	0	0.291450	0
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8965359	0	0.450086	0
1854629	1	0.387856	0
9235374	0	0.386766	0
1363033	1	0.338519	0
1436016	0	0.293513	0
1676961	1	0.298333	0
16041934	1	0.660001	1
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1635192	0	0.396545	0
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6646733	1	0.463445	0
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14589149	1	0.466873	0
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16432383	0	0.415318	0
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3730951	0	0.536773	1
5977761	0	0.446102	0
17904986	0	0.612626	1
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37167229	0	0.644715	1
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1452797	1	0.519797	1
1393644	0	0.354806	0

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3219818	0	0.419533	0
7339475	0	0.450862	0
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3055151	0	0.465786	0
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9814724	0	0.461969	0
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1350197	0	0.434199	0
1162851	0	0.396977	0
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371341	1	0.366198	0
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5555397	0	0.390929	0
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7638191	1	0.412181	0
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5224610	0	0.414975	0
9068332	0	0.482579	0
647072	0	0.321355	0
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5974981	0	0.361506	0
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7679356	1	0.467314	0
5788338	1	0.461869	0
518208	0	0.357736	0
5761182	0	0.540945	1

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728605	1	0.177967	0
1443960	0	0.395908	0
2434926	0	0.241617	0
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4214749	0	0.378151	0
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5685322	1	0.514113	1
3806416	1	0.425918	0
9186834	1	0.683299	1
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1621344	0	0.427357	0
16852474	1	0.543852	1
8115701	0	0.408471	0
1398367	0	0.394567	0
7285298	1	0.459682	0
5788579	1	0.475570	0
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1507577	0	0.386873	0
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1545850	0	0.348459	0
3289655	0	0.406662	0
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1223309	0	0.295687	0
2093734	0	0.401579	0
19576292	1	0.533719	1
20740489	1	0.453848	0
1135131	0	0.337719	0
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8667268	1	0.461077	0
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19316283	1	0.548913	1
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25777440	0	0.472622	0
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860817	0	0.392703	0
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5975492	0	0.385077	0
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7677397	1	0.401986	0

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4465665	0	0.452695	0
3918696	0	0.460687	0
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6899714	1	0.426443	0
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2372588	1	0.463543	0
7926109	0	0.457293	0
12955909	1	0.532455	1
8617327	0	0.382123	0
12488899	1	0.503520	1
22201621	1	0.475143	0
6167756	0	0.362046	0
3148737	0	0.365299	0
3067338	1	0.462972	0
1385161	0	0.336213	0
8564840	0	0.398980	0
1211070	0	0.277372	0
1345704	1	0.500191	1
12796033	0	0.420813	0
32350256	1	0.489338	0
609098	0	0.409294	0
25387584	1	0.525721	1
11045079	1	0.481226	0
9205155	1	0.445047	0
523438	0	0.449956	0
4280405	1	0.333542	0
562958	0	0.241407	0
5968416	0	0.414026	0
9237138	0	0.500074	1
1315393	0	0.348565	0
19616705	1	0.581587	1
20090313	1	0.383763	0
19116029	1	0.320716	0
765763	0	0.371293	0
11676041	0	0.674167	1
431629	1	0.261334	0
33240961	1	0.722779	1
1434710	0	0.587177	1
2276148	1	0.334701	0

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4290873	0	0.419807	0
1351567	0	0.272106	0
9746268	0	0.460619	0
4304915	1	0.501917	1
1591518	1	0.407051	0
19316273	1	0.410034	0
21241562	1	0.434354	0
1114200	0	0.472271	0
34883926	0	0.416907	0
1341259	1	0.415836	0
1046826	0	0.329087	0
10735846	1	0.554727	1
4289962	1	0.450209	0
11455916	0	0.527637	1
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18885678	1	0.518232	1
2875213	1	0.543092	1
8148064	0	0.444841	0
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5609655	1	0.424563	0
812337	0	0.304447	0
1346358	0	0.320756	0
5617249	1	0.329252	0
10152140	0	0.492248	0
20760656	0	0.490785	0
11354602	0	0.397267	0
7628692	0	0.488506	0
8607053	1	0.518443	1
549682	0	0.339232	0
1462531	0	0.492496	0
4795307	0	0.522031	1
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8615662	0	0.449448	0
1516107	1	0.340464	0
11784747	0	0.400218	0
3724727	1	0.446815	0
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8946155	0	0.435931	0
486250	0	0.355733	0
18724847	0	0.403350	0
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3915098	1	0.371145	0
20761687	0	0.346627	0
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4528852	1	0.425030	0
21491390	1	0.433874	0

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353677	1	0.160384	0
5154888	1	0.472187	0
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6887215	0	0.374735	0
4245649	0	0.436224	0
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33351610	1	0.491642	0
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726037	0	0.316723	0
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5771229	1	0.523086	1
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6295867	1	0.490868	0
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9064693	1	0.242176	0
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27070141	0	0.458928	0
6728284	0	0.411850	0
7382296	0	0.340574	0
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692695	0	0.250891	0
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527207	0	0.331394	0
2297544	0	0.359417	0
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4311443	0	0.465837	0
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283707	1	0.169814	0
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2365559	0	0.459560	0
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6878068	1	0.371177	0
829893	1	0.356719	0
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4787981	0	0.433996	0
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692654	0	0.396638	0
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3695900	0	0.374222	0
2083247	0	0.410612	0
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8610558	1	0.496874	0
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5788307	0	0.453707	0
3355397	0	0.347528	0
1387087	0	0.449478	0
8805127	0	0.403087	0
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6878060	0	0.454314	0
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2086832	0	0.414520	0
3595813	0	0.326629	0
31286290	1	0.584408	1
30505618	0	0.427483	0
4704787	1	0.519088	1
5627974	0	0.406653	0
1422130	0	0.278249	0
14500379	1	0.487667	0
34471926	1	0.570878	1
971860	0	0.311901	0
15309885	0	0.520211	1
1676018	0	0.529524	1
21361395	1	0.490130	0
1441316	0	0.371568	0
16271979	1	0.511606	1
37761762	1	0.399159	0
7389698	0	0.371722	0
1069410	1	0.324467	0
16952676	1	0.503564	1
1535797	0	0.348620	0
11695014	1	0.467038	0
7436238	1	0.402685	0
30054777	1	0.472790	0
784643	0	0.317419	0
23143349	1	0.387263	0
14588462	1	0.397090	0

13507545	0	0.543051	1
2087049	1	0.304925	0
7338541	1	0.454777	0
5036694	1	0.380106	0
3925052	0	0.366982	0
11707035	1	0.506188	1
4974793	0	0.396308	0
3289588	0	0.488642	0
17944102	1	0.516403	1
1826987	1	0.408058	0
11407448	1	0.428354	0
31688000	1	0.538205	1
8734612	0	0.512667	1
12958520	1	0.391162	0
3185934	0	0.374895	0
23963479	0	0.439830	0
4775089	1	0.438145	0
1335255	0	0.344164	0
36371667	1	0.503739	1
1620096	0	0.399344	0
3381355	1	0.280469	0
5085753	0	0.344104	0
1101036	0	0.309816	0
3350732	0	0.346437	0
1188903	0	0.289492	0
7064560	1	0.522322	1
8815461	0	0.517197	1
16762225	0	0.461072	0
11956211	1	0.473039	0
2309256	0	0.541401	1
3625311	0	0.348207	0
4884579	0	0.414063	0
11316259	0	0.622526	1
21330314	1	0.481390	0
15260970	1	0.608239	1
547330	0	0.329138	0
32198935	0	0.286774	0
6299728	0	0.511630	1
9264700	1	0.535782	1
411759	0	0.220000	0
13276794	1	0.391021	0
542898	0	0.177057	0
1130282	0	0.367553	0
5939624	1	0.374753	0
441041	0	0.187069	0
29124230	1	0.506847	1
1104418	0	0.225011	0
8961670	0	0.515722	1
1680375	1	0.446341	0
5947068	0	0.474868	0
3374695	1	0.307771	0
17473453	0	0.476476	0
5940125	0	0.493258	0
5545289	0	0.443065	0
15480526	1	0.418164	0

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2299089	0	0.435785	0
14377908	0	0.411319	0
28703695	1	0.363161	0
869561	0	0.310924	0
7915317	1	0.584194	1
994284	0	0.329949	0
1534014	0	0.470089	0
13337420	1	0.531451	1
8405260	1	0.390582	0
5798391	0	0.446417	0
1245945	0	0.379223	0
3289738	0	0.421320	0
11425542	1	0.504667	1
26459135	0	0.625535	1
3922902	0	0.396446	0
8156475	1	0.292294	0
9868014	1	0.496021	0
8365232	0	0.384592	0
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5215045	0	0.307330	0
28772735	1	0.564142	1
7666210	1	0.554416	1
6816680	0	0.530153	1
2826515	0	0.445254	0
5619458	0	0.325041	0
477446	0	0.165615	0
629689	0	0.312110	0
2298936	0	0.364316	0
33721662	1	0.478163	0
26999956	0	0.412666	0
11725459	0	0.471221	0
17192875	0	0.575304	1
13417402	0	0.571909	1
16872444	1	0.443510	0
12415562	1	0.626929	1
2075953	1	0.420904	0
23243340	0	0.496594	0
5825362	0	0.456975	0
20318563	1	0.591837	1
15650310	1	0.509119	1
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837393	0	0.390609	0
1457781	0	0.367962	0
10538396	1	0.344943	0
7638714	0	0.471565	0
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837748	0	0.347045	0

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506492	0	0.214584	0
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1188816	0	0.394093	0
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782727	1	0.361417	0
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3368274	1	0.510865	1
4614727	0	0.305385	0
28683613	0	0.296973	0
6205836	0	0.492765	0
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4528014	1	0.503495	1
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5405471	0	0.471154	0
17363100	0	0.590105	1
3294813	1	0.426066	0
853726	0	0.324657	0
7678038	1	0.426270	0
1383247	0	0.353874	0
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6975358	0	0.616739	1
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1287524	0	0.327920	0
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4548099	0	0.389068	0
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19966931	0	0.272956	0
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2995068	0	0.442825	0
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5334938	0	0.369719	0
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1265070	1	0.273939	0
7389096	0	0.467561	0
4885174	0	0.477153	0
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626172	1	0.274704	0
24836921	1	0.535203	1
23904336	0	0.496848	0
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3218891	1	0.272183	0
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2216821	0	0.384695	0
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433166	0	0.196195	0
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1364495	0	0.323562	0
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7730175	1	0.356670	0
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3218714	1	0.285023	0
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3187028	1	0.391005	0
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9674574	0	0.602348	1
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7441059	1	0.392952	0
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28714148	1	0.391384	0
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586259	0	0.185447	0
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6541727	1	0.437721	0
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4594827	1	0.514789	1
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7524676	1	0.620436	1
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871639	0	0.405062	0
3220123	0	0.566639	1
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1101447	0	0.423901	0
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3346331	1	0.400556	0
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5135674	1	0.564925	1
379465	0	0.196353	0
6529016	1	0.491741	0
1059091	0	0.301724	0
27650332	0	0.652317	1
1254485	0	0.315072	0
1054453	1	0.326966	0
4535390	0	0.314284	0
6264864	1	0.392725	0
12916014	0	0.309297	0
1447125	0	0.315353	0
4255308	1	0.407955	0
18895743	1	0.455549	0
4281926	0	0.259336	0
20129078	1	0.700419	1
6325672	0	0.541153	1
16362902	1	0.429846	0
12636991	0	0.488430	0
28512623	1	0.655959	1
1319110	1	0.325191	0

15690345	1	0.361015	0
10167666	1	0.485820	0
24015297	1	0.562269	1
34483231	1	0.351485	0
1695962	1	0.316004	0
1146993	0	0.337013	0
1440669	0	0.364708	0
2309038	0	0.516321	1
12617725	0	0.419940	0
22412674	1	0.509213	1
8610248	1	0.400391	0
24514915	1	0.699013	1
11425111	1	0.516824	1
10617203	1	0.421095	0
10777053	1	0.532234	1
3006131	1	0.422210	0
10119755	0	0.399327	0
17132635	0	0.429086	0
19676274	1	0.498241	0
13198413	0	0.395784	0
770980	0	0.348789	0
3497621	0	0.463851	0
3156050	1	0.471020	0
3285519	0	0.482021	0
1096410	0	0.324624	0
1484134	0	0.472361	0
2372142	0	0.516675	1
538778	1	0.349971	0
6726816	0	0.502034	1
1406031	0	0.263645	0
3676460	0	0.293718	0
22442857	1	0.525896	1
1158887	0	0.302084	0
1401306	0	0.321336	0
613475	1	0.307022	0
6504895	1	0.407348	0
12365153	1	0.429641	0
7636276	1	0.600741	1
4704770	1	0.516585	1
235076	0	0.169053	0
557039	0	0.270702	0
1553692	0	0.522080	1
1338562	1	0.323099	0
1704678	0	0.374125	0
5645802	1	0.344845	0
5615747	0	0.559674	1
6170775	1	0.283195	0
32149455	0	0.488713	0
13356845	0	0.308372	0
1592722	0	0.373417	0
7629473	1	0.504902	1
7386126	0	0.480194	0
12445769	0	0.428516	0
1152442	1	0.229628	0
13045568	0	0.409787	0

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475619	0	0.148050	0
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36270297	0	0.700636	1
34693535	1	0.585034	1
802988	1	0.427722	0
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14650114	1	0.565183	1
16231255	1	0.381863	0
1067038	0	0.279230	0
585755	1	0.417285	0
1464946	0	0.384143	0
1006841	0	0.392973	0
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16552094	1	0.436465	0
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3664671	0	0.407472	0
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7725919	0	0.441970	0
6209651	0	0.391789	0
1467729	0	0.328446	0
4280394	0	0.441178	0
19766773	0	0.441156	0
459906	0	0.191580	0
1434590	0	0.442173	0
2093528	0	0.274447	0
616684	0	0.379093	0
4281694	0	0.537922	1
1591983	0	0.410256	0
14600354	1	0.445076	0
9825794	1	0.562918	1
1364363	0	0.322417	0
20741962	1	0.531440	1
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6516923	1	0.420337	0
3293074	0	0.480864	0
37760342	0	0.553674	1
1127375	0	0.354716	0
6826982	1	0.484765	0
147414	1	0.218466	0
15469622	1	0.463730	0
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243046	1	0.172431	0
6604916	1	0.425835	0
752498	1	0.396372	0
8128474	1	0.354412	0
2372113	0	0.376765	0
3152124	0	0.344191	0
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3928539	0	0.435961	0
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29615122	1	0.482792	0
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2296430	1	0.332659	0
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1286091	0	0.311247	0
1285614	0	0.309639	0
3055883	0	0.492817	0
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6394646	1	0.483556	0
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1077977	1	0.290779	0
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1468587	0	0.328923	0
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5793860	0	0.399618	0
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9524654	1	0.449916	0
13537304	1	0.368796	0
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4225609	0	0.468682	0
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26388107	1	0.315694	0
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9646020	0	0.491050	0
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8314621	1	0.431897	0
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987428	0	0.260151	0
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26809748	1	0.385769	0
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137757	1	0.179131	0
8766025	0	0.471719	0
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3848741	0	0.381462	0
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838776	0	0.245375	0
2474569	0	0.451242	0
6827385	0	0.450803	0
1310190	0	0.269752	0

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8815494	0	0.481615	0
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23863567	1	0.534864	1
2081993	0	0.394252	0
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7441009	1	0.418585	0
746645	0	0.256430	0
451412	0	0.192459	0
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3525853	0	0.418991	0
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7629914	0	0.540142	1
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425200	0	0.173083	0
514605	0	0.260808	0
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3676829	0	0.442095	0
6809219	1	0.486600	0
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1226067	0	0.391307	0
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1237441	0	0.468084	0
6188196	0	0.578055	1
20588775	0	0.342848	0
17745398	1	0.491755	0
1475188	1	0.502602	1
17352916	1	0.423655	0
1293897	0	0.391612	0
8405590	0	0.550413	1
12605523	0	0.395078	0
12395789	0	0.482390	0
1623177	0	0.367668	0
12576351	0	0.384087	0
19677138	1	0.434249	0

3196885	1	0.389814	0
10103290	0	0.527955	1
10158748	1	0.653594	1
1424070	0	0.370055	0
3155881	1	0.406259	0
8365888	0	0.484543	0
7706154	0	0.483849	0
13547697	0	0.562214	1
1335356	0	0.394058	0
765479	0	0.379495	0
8959969	1	0.444319	0
1571363	0	0.489532	0
10179790	1	0.451045	0
4798189	1	0.591850	1
5636110	1	0.445257	0
21381101	0	0.365637	0
467583	1	0.305550	0
7378170	0	0.362616	0
30315567	1	0.616408	1
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10142632	0	0.419571	0
1570926	1	0.422204	0
1417734	0	0.437662	0
1545360	0	0.421261	0
3381911	0	0.499674	0
1180014	0	0.381521	0
3369939	0	0.320456	0
10131114	1	0.645300	1
436825	0	0.171961	0
34322883	1	0.614047	1
13507767	0	0.459416	0
7078122	1	0.290224	0
1248887	0	0.271898	0
510709	0	0.256857	0
17805481	1	0.590023	1
7058324	1	0.544629	1
21491096	1	0.586981	1
13447135	1	0.435390	0
729503	1	0.289083	0
10737317	0	0.488785	0
3434606	0	0.383614	0
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3676347	1	0.401952	0
1299524	0	0.419921	0
1411601	1	0.353793	0
7174575	1	0.455033	0
8574685	0	0.443161	0
3335339	1	0.361373	0
13907503	0	0.530394	1
8295861	1	0.394191	0
8356190	0	0.426170	0
23052813	1	0.511646	1
23825050	1	0.566277	1
446661	1	0.268720	0
743420	0	0.257658	0

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960175	0	0.419583	0
7447344	0	0.528384	1
2367282	1	0.430751	0
9237803	0	0.414274	0
6955412	0	0.349121	0
16692497	1	0.526457	1
28894168	1	0.501685	1
1623066	0	0.392894	0
5345648	1	0.444525	0
3697485	1	0.494928	0
1418159	0	0.360950	0
3807566	0	0.291259	0
7717016	1	0.466045	0
5034949	1	0.362042	0
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860255	0	0.436543	0
635502	0	0.229246	0
8956016	1	0.326959	0
27610973	1	0.627230	1
1704758	0	0.418390	0
8474767	0	0.386587	0
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6919885	0	0.441637	0
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7389712	1	0.687786	1
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7065574	1	0.485560	0
1283449	0	0.373731	0
1655027	0	0.417545	0
5715270	1	0.310319	0
23773441	1	0.517940	1
1252978	0	0.396717	0
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238149	1	0.182565	0
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437852	0	0.231234	0
415553	1	0.267762	0
11668053	0	0.470488	0
14539984	0	0.471491	0
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1385494	0	0.355924	0
1061914	1	0.262920	0
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597671	1	0.409763	0
26199691	0	0.623931	1
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16151873	0	0.570486	1
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1456599	1	0.342988	0
870140	0	0.405812	0

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209581	0	0.168793	0
2645876	0	0.450552	0
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5042621	0	0.401184	0
16432685	0	0.528842	1
634386	0	0.290454	0
2828087	0	0.478790	0
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593420	0	0.409080	0
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5686040	1	0.418465	0
6626666	1	0.493288	0
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33641580	0	0.486687	0
624579	0	0.316159	0
26190218	0	0.333204	0
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736120	0	0.326456	0
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889094	0	0.327572	0
27560923	1	0.472040	0
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834976	0	0.262139	0
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22243843	1	0.489945	0
859440	0	0.275078	0
444020	1	0.218004	0
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4074566	0	0.394704	0
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761924	0	0.249771	0
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7688728	0	0.420596	0
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26327858	0	0.650797	1
33251108	1	0.461305	0
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4797055	0	0.283969	0
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27500642	0	0.636024	1
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619857	0	0.365580	0
7058296	0	0.576055	1
7389382	1	0.342970	0
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6299693	0	0.571420	1
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32430406	1	0.700961	1
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7086018	0	0.424439	0
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6646008	0	0.526586	1
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7436657	0	0.406185	0
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1339801	0	0.454393	0
15661306	1	0.483868	0
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5967984	1	0.372555	0

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17123274	1	0.455045	0
7699822	0	0.361144	0
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1344508	0	0.347840	0
7457096	1	0.386977	0
136491	0	0.125409	0
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1682428	0	0.496960	0
6819237	0	0.398851	0
8979604	0	0.450204	0
21390974	0	0.571983	1
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4276661	0	0.375031	0
228892	0	0.193656	0
550558	1	0.343873	0
508864	0	0.332966	0
1706108	1	0.432315	0
1677091	0	0.478808	0
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251751	1	0.169806	0
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7638676	1	0.503377	1
34464007	1	0.385721	0
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17754776	0	0.374034	0
1421958	1	0.455504	0
610148	0	0.377196	0

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710884	0	0.231866	0
1602473	0	0.408457	0
12685216	0	0.533636	1
10106108	1	0.397585	0
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437200	1	0.265177	0
2379866	1	0.587089	1
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7266924	0	0.401812	0
3383411	1	0.433519	0
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369240	0	0.251454	0
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3628739	1	0.466002	0
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2305484	0	0.431097	0
8266550	0	0.451754	0
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5774680	0	0.282392	0
1047604	0	0.317239	0
29754556	0	0.520493	1
20368451	1	0.579079	1
1367129	1	0.394735	0
28703026	1	0.458751	0

1473017	0	0.286378	0
2382805	0	0.416802	0
3928391	1	0.395979	0
12635953	1	0.729549	1
443110	0	0.268829	0
516889	0	0.292241	0
4224751	0	0.576579	1
2295079	0	0.436262	0
1290780	0	0.332646	0
3643590	0	0.422462	0
384576	0	0.215171	0
2865362	0	0.400289	0
3694733	0	0.332135	0
1052477	0	0.388710	0
858414	1	0.495534	0
26409247	1	0.548069	1
1425205	1	0.311683	0
1675805	1	0.386298	0
13787543	1	0.378468	0
9189717	1	0.325034	0
32359877	1	0.560416	1
9646509	0	0.351917	0
5895814	0	0.506748	1
9075451	0	0.447269	0
7935127	0	0.360116	0
12225101	1	0.470980	0
6597602	0	0.606504	1
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9875827	0	0.472755	0
1690391	0	0.371903	0
1826402	0	0.390466	0
15680000	1	0.463991	0
1682481	0	0.379162	0
996199	0	0.402219	0
6595119	0	0.453879	0
13958204	1	0.388663	0
20742106	0	0.562253	1
1295231	0	0.408508	0
5444946	0	0.468033	0
2311405	0	0.371303	0
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1429950	0	0.374277	0
11678064	1	0.395338	0
33381362	0	0.649046	1
1161498	0	0.317301	0
28983671	1	0.564290	1
30445458	1	0.444813	0
30565644	1	0.539299	1
1298580	0	0.366823	0
7375495	0	0.513998	1
6975614	1	0.440851	0
30265165	1	0.541343	1
5644982	0	0.410909	0
3144671	1	0.365340	0
883958	0	0.369333	0

985800	0	0.363099	0
11045010	0	0.419888	0
1408664	0	0.364453	0
12515529	0	0.286890	0
17684627	0	0.416095	0
9876755	1	0.313330	0
27671769	1	0.478512	0
1636967	1	0.282997	0
7687865	1	0.341456	0
1231881	0	0.414654	0
3364685	0	0.417304	0
8495148	0	0.604806	1
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272627	1	0.128450	0
5685431	0	0.393518	0
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267516	0	0.148398	0
12806741	1	0.497770	0
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756802	1	0.525969	1
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3240076	0	0.355614	0
8992295	1	0.482381	0
12977978	1	0.443588	0
6627669	0	0.496763	0
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1533699	1	0.477465	0
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1080281	1	0.402510	0
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1398658	0	0.430358	0
36301665	1	0.423150	0
351616	1	0.228569	0
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5375648	0	0.546069	1
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25837164	0	0.482709	0
1602679	0	0.266129	0
6187272	0	0.523741	1
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16552048	1	0.381374	0
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8625696	1	0.550962	1

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4547288	0	0.401812	0
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7050865	1	0.391063	0
1438203	0	0.371343	0
9838294	0	0.653334	1
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746482	0	0.411222	0
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7365388	0	0.475058	0
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352378	0	0.198959	0
492422	0	0.234723	0
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664202	0	0.251790	0
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7055629	1	0.498289	0
5205038	0	0.281088	0
23593635	0	0.664624	1
7265994	0	0.691015	1
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3728932	0	0.344093	0
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473847	0	0.216081	0
2082954	0	0.417140	0
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27562376	1	0.500544	1
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1403767	0	0.365633	0
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7637792	0	0.332547	0
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26930059	1	0.376466	0
4235007	0	0.403761	0
3368174	0	0.387780	0
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7698268	1	0.521788	1
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3376929	0	0.441242	0
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422455	0	0.288241	0
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7627146	0	0.535765	1
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5760241	0	0.381708	0
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449939	0	0.252336	0
7616705	0	0.268070	0
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601769	0	0.216745	0
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454385	1	0.302134	0
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339569	1	0.178942	0
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3297681	1	0.350226	0
665160	0	0.372424	0

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577364	0	0.435626	0
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818370	0	0.222451	0
26137817	1	0.463687	0
6709019	0	0.322257	0
424124	1	0.210880	0
3697084	1	0.283998	0
1322948	1	0.314046	0
785621	0	0.259982	0
6636426	1	0.550060	1
1587969	0	0.434935	0
23974327	0	0.438814	0
1291972	1	0.442785	0
3345954	1	0.514078	1
3366429	0	0.528733	1
9038253	1	0.618379	1
3349161	1	0.498992	0
30305207	0	0.380354	0
5694984	1	0.410786	0
8545690	0	0.519084	1
1052469	0	0.254915	0
29303792	1	0.598937	1
3355562	0	0.431604	0
5799517	0	0.474469	0
12925808	0	0.392349	0
7104379	1	0.493638	0
16442823	0	0.315518	0
8657386	1	0.453232	0
4255485	0	0.346579	0
5616439	1	0.370613	0
1834638	0	0.426482	0
1683284	1	0.475244	0
11398818	1	0.532153	1
3296763	1	0.313274	0
5185894	0	0.374503	0
6307421	1	0.647324	1
7087024	0	0.450692	0
10994606	0	0.257636	0
13468122	1	0.464117	0
3095272	0	0.359627	0
5574577	1	0.395828	0
7727747	0	0.426793	0
7685889	1	0.465484	0
17693712	1	0.625223	1
8554581	0	0.653373	1
1866465	0	0.403549	0
16752440	1	0.471426	0
365474	1	0.193405	0
4548723	1	0.383155	0
12497734	0	0.456863	0
1687849	0	0.521328	1
13316753	0	0.464196	0
1086946	0	0.367207	0
9219594	1	0.544250	1
5966987	1	0.383218	0

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8305442	1	0.435485	0
1318648	0	0.380339	0
1141464	1	0.327193	0
4290556	1	0.607587	1
882246	0	0.309294	0
610015	1	0.423012	0
513168	0	0.181834	0
637323	0	0.235346	0
5104856	0	0.543570	1
6185278	1	0.291875	0
20759153	0	0.583753	1
6839780	0	0.347144	0
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6896966	0	0.501114	1
826922	0	0.394615	0
822649	0	0.299455	0
19156035	1	0.476573	0
26189110	1	0.622934	1
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568568	0	0.219286	0
15490174	1	0.463089	0
1143617	0	0.303820	0
471052	0	0.295298	0
2905050	0	0.456413	0
5344774	0	0.225069	0
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9645579	1	0.559703	1
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6837871	0	0.575177	1
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979881	0	0.299392	0
1499221	0	0.324670	0
3105952	0	0.342545	0
9215595	1	0.501973	1
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6709643	0	0.445991	0

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6929567	1	0.552630	1
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7685014	0	0.404295	0
1494616	0	0.430318	0
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736548	1	0.363838	0
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3238413	0	0.462174	0
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6728650	1	0.416966	0
2874582	1	0.386882	0
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37257127	1	0.587675	1
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9867835	0	0.300639	0
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3931509	0	0.346705	0
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13008621	0	0.446199	0
10173341	0	0.578022	1
8284927	1	0.492983	0
1691702	1	0.448857	0
7103813	1	0.390500	0
16311343	1	0.555501	1
3498823	1	0.447174	0
3488501	0	0.409503	0
11705716	0	0.497638	0
761798	0	0.351641	0
17133388	0	0.252267	0
1110688	0	0.402328	0
14610653	0	0.390823	0
12976740	1	0.669365	1
1264896	0	0.364037	0
31416946	1	0.488126	0
7456873	1	0.459426	0
869696	0	0.337242	0
5554583	1	0.430304	0
7006079	0	0.338375	0
6818393	0	0.361680	0
13068375	1	0.504513	1
14499977	0	0.468518	0
1397084	0	0.335010	0
390720	0	0.169187	0
27681338	0	0.381186	0
3334936	0	0.548030	1
1158697	1	0.332535	0
3154420	0	0.436241	0
34703621	1	0.740568	1
615597	1	0.308946	0
11986475	1	0.558041	1
20732361	1	0.560147	1
3538712	0	0.366356	0
5425435	0	0.541773	1
3730185	1	0.556729	1
8544580	0	0.479724	0
1537199	0	0.370938	0
1386764	0	0.339786	0
1323282	0	0.335002	0
4528981	0	0.456837	0
4788207	1	0.559530	1
3016442	1	0.428845	0

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26210238	0	0.407161	0
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24635169	1	0.442525	0
467969	0	0.263249	0
1620371	0	0.417194	0
3158365	1	0.371644	0
31296581	0	0.565836	1
1692354	0	0.362839	0
4444983	0	0.566202	1
557710	0	0.355613	0
5970691	1	0.501099	1
12925644	1	0.455458	0
727942	0	0.414221	0
21191025	1	0.434003	0
2079416	0	0.405958	0
7456692	0	0.462336	0
13617785	1	0.601335	1
2382523	0	0.335996	0
5609272	1	0.307678	0
19946617	1	0.393019	0
15470568	1	0.432891	0
3383573	0	0.459855	0
5036707	1	0.527582	1
1096804	0	0.293144	0
5254886	0	0.402499	0
14468987	1	0.502129	1
973293	0	0.362835	0
1814696	0	0.343893	0
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5637926	0	0.428959	0
3807643	0	0.487248	0
1280938	0	0.416619	0
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6158605	0	0.455081	0
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6695505	0	0.399715	0
1682901	1	0.484280	0
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16251197	0	0.506999	1
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875547	1	0.198713	0
7710817	0	0.308738	0
14748899	1	0.616999	1
669087	0	0.610351	1
7084268	1	0.650388	1
3150008	0	0.372172	0
5980137	1	0.466050	0
1473352	0	0.301011	0
1032519	1	0.386527	0
7386844	1	0.350683	0

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1626868	0	0.385041	0
9227029	1	0.244741	0
5787973	0	0.346443	0
7064179	0	0.369758	0
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5695647	1	0.556239	1
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4764832	0	0.297845	0
2774603	1	0.457341	0
1397649	0	0.389745	0
17594623	1	0.514202	1
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13306787	1	0.424204	0
976577	0	0.239149	0
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827024	0	0.442651	0
24505156	1	0.563926	1
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13637824	1	0.392454	0
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1683425	0	0.397790	0
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22293646	1	0.387558	0
7079566	0	0.418470	0
5147152	1	0.419023	0
4195898	0	0.436500	0
6189486	0	0.451736	0
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6324813	0	0.404378	0
7617922	1	0.441929	0
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4376880	0	0.464706	0
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566043	0	0.344012	0
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383816	0	0.347493	0
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3074629	0	0.403656	0
17332962	0	0.384054	0
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1567995	0	0.486050	0
8650253	0	0.413377	0

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3366620	0	0.291058	0
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4196529	0	0.414006	0
1203266	0	0.335742	0
4556461	0	0.544844	1
7055641	0	0.459603	0
6525167	0	0.479743	0
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10093625	0	0.441101	0
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8127564	0	0.406067	0
6565493	1	0.445856	0
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233631	1	0.181338	0
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8575258	0	0.357741	0
3239697	1	0.572627	1
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7955737	1	0.430795	0
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7340185	0	0.552703	1
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801027	0	0.311641	0

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355974	0	0.234591	0
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3286150	0	0.359335	0
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1431902	0	0.449744	0
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830782	0	0.388278	0
6955641	1	0.610889	1
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14510652	0	0.628628	1
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3727977	0	0.488899	0
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6317676	0	0.404760	0
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396085	1	0.204784	0
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7656655	0	0.455871	0
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9187555	1	0.454818	0
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2964606	1	0.464456	0
626116	0	0.471561	0
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14418400	0	0.592497	1
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37730172	1	0.425940	0
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20798807	1	0.554256	1
16402210	1	0.474844	0
5041214	0	0.486528	0
1394425	0	0.497993	0
8264565	0	0.391167	0
4314761	1	0.416119	0
6209759	1	0.482689	0
1109319	1	0.327067	0
1437504	1	0.306311	0
1601036	0	0.334083	0
6325839	0	0.460535	0
5935213	0	0.455230	0
980289	0	0.333570	0
11627151	0	0.273223	0
3359508	0	0.350710	0
6838179	1	0.429476	0
1571414	1	0.503703	1
8656677	1	0.511826	1
5454736	0	0.497869	0
5617812	1	0.289040	0
3930642	1	0.487482	0
692205	0	0.199265	0
23836245	0	0.569076	1
1334646	0	0.350424	0
622230	0	0.563064	1
1255053	0	0.290884	0
616854	0	0.220265	0
6516999	0	0.420468	0
6616492	0	0.404328	0
526111	1	0.284030	0
4309284	0	0.254309	0
25918348	1	0.545992	1
21159825	1	0.399145	0
34323282	0	0.587179	1
17755036	0	0.481243	0
4525674	1	0.377431	0

23183204	1	0.316735	0
1208394	0	0.335098	0
4527154	1	0.333863	0
5214833	0	0.462880	0
11234801	1	0.399504	0
23093514	1	0.466960	0
5945380	0	0.324035	0
626643	1	0.472066	0
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23683177	1	0.631058	1
5195545	0	0.519299	1
2374925	0	0.335752	0
708223	0	0.263535	0
1534115	0	0.380519	0
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7625387	0	0.562927	1
3216785	0	0.328081	0
20238375	0	0.661907	1
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9145352	0	0.453274	0
7295203	0	0.384027	0
5945448	1	0.381686	0
6700040	0	0.368087	0
9544932	1	0.524047	1
6817547	1	0.516704	1
827937	0	0.312691	0
31116199	1	0.644351	1
15369250	0	0.523916	1
22254987	0	0.488188	0
13367292	1	0.547862	1
138767	0	0.207063	0
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14518501	1	0.481164	0
273911	0	0.192934	0
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3185501	0	0.432281	0
1423527	0	0.342895	0
3920435	0	0.339544	0
8384802	1	0.577942	1
10166131	1	0.344680	0
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3104798	1	0.331498	0
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7628770	0	0.598893	1
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15380738	1	0.566345	1
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7916227	0	0.633430	1
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26398605	0	0.667771	1
7725704	1	0.511141	1
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465288	1	0.292885	0
3294843	1	0.345705	0
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5835387	0	0.381729	0
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723530	0	0.455570	0
533613	0	0.377466	0
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3236753	0	0.398377	0
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579989	1	0.311271	0
739441	0	0.333273	0
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9237825	1	0.486987	0
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11305026	0	0.440672	0
10548419	1	0.482509	0
9217976	0	0.440816	0
6105264	1	0.666266	1
1106603	1	0.422227	0
3916942	1	0.551851	1
4795981	0	0.374824	0
13026907	1	0.395926	0
1064133	0	0.325605	0
5504773	0	0.410904	0
14107617	0	0.487132	0
1584759	0	0.308869	0
5779272	0	0.427057	0
17223214	1	0.357394	0
4554582	1	0.427263	0
817676	1	0.390759	0
6785483	0	0.431384	0
14508190	1	0.591667	1
7014752	0	0.360333	0
9744951	0	0.390086	0
1483879	1	0.402892	0
7364739	0	0.481448	0
3146296	0	0.382481	0
6975113	0	0.451139	0
6739912	0	0.395052	0
11408362	0	0.505570	1

1441295	1	0.440067	0
1188800	0	0.269024	0
10149243	1	0.531085	1
1111674	0	0.315177	0
4805268	0	0.442968	0
27520515	1	0.399088	0
425954	1	0.295260	0
668955	1	0.544413	1
443251	0	0.295751	0
3355550	0	0.380920	0
1314264	0	0.249838	0
6534871	0	0.448602	0
719196	0	0.213490	0
1608803	1	0.337045	0
4306113	0	0.438256	0
1112868	0	0.332673	0
9776863	0	0.530996	1
5637843	0	0.445154	0
17634628	1	0.458733	0
12996828	1	0.306525	0
19406458	1	0.469717	0
3198655	0	0.442894	0
15570803	1	0.568513	1
5769466	1	0.417634	0
5626729	1	0.408399	0
2934699	0	0.400647	0
1003031	1	0.455424	0
353338	0	0.244304	0
1135690	0	0.369174	0
840425	0	0.386384	0
2075154	1	0.466436	0
4279274	1	0.430958	0
620749	1	0.337961	0
5065444	0	0.540895	1
15530220	0	0.423325	0
12627023	0	0.398703	0
1085272	0	0.299674	0
13157781	0	0.475187	0
7924602	0	0.396919	0
9765981	1	0.421564	0
2217612	1	0.345218	0
434549	0	0.268205	0
994522	1	0.312388	0
4435604	0	0.468819	0
4567675	0	0.454525	0
618903	0	0.308961	0
15450479	0	0.484806	0
8647235	0	0.514166	1
2301214	1	0.436195	0
27661926	1	0.605100	1
35683362	1	0.528708	1
5355514	1	0.375958	0
449428	0	0.250827	0
1193029	0	0.315501	0
787712	0	0.357273	0

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23733613	1	0.293431	0
5435826	0	0.528550	1
1574946	0	0.345357	0
5765753	0	0.395011	0
23834932	0	0.431130	0
1485565	0	0.418636	0
1315240	0	0.240034	0
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1311102	0	0.259833	0
12467173	0	0.462714	0
3294268	0	0.483582	0
5115478	0	0.349235	0
605989	1	0.258339	0
588267	1	0.331172	0
1600948	0	0.357205	0
16752491	1	0.432351	0
20812400	1	0.539003	1
1387538	1	0.272638	0
2984590	0	0.354260	0
8904581	1	0.429237	0
5758041	1	0.464387	0
2836835	1	0.488472	0
1186801	0	0.247895	0
736677	0	0.210178	0
3807679	1	0.487490	0
976164	0	0.343979	0
6838188	0	0.437226	0
8970898	1	0.589205	1
905821	0	0.325117	0
32369706	1	0.617561	1
1138646	0	0.534926	1
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683804	0	0.317360	0
25447191	0	0.330349	0
13918067	0	0.442183	0
6884782	1	0.576932	1
13096858	0	0.607597	1
3146353	1	0.421614	0
386455	1	0.249843	0
22321511	0	0.464283	0
3846150	0	0.455926	0
3614574	0	0.494381	0
820963	1	0.338542	0
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13536978	1	0.529687	1
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4539248	0	0.332788	0
1162715	0	0.286634	0
1446818	0	0.323799	0
5978003	0	0.271616	0
13807545	0	0.295224	0

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5791346	0	0.541698	1
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6567933	0	0.368047	0
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6188566	0	0.548510	1
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8424623	1	0.591213	1
26639444	1	0.496642	0
3095926	0	0.466619	0
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1498558	0	0.461091	0
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3808554	1	0.422416	0
752615	0	0.258984	0
25497106	0	0.325170	0
9264599	1	0.609815	1
22402800	1	0.559827	1
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3346006	0	0.422693	0
1440274	1	0.410634	0
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8054934	0	0.397910	0
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465172	0	0.125878	0
12475943	1	0.526122	1
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29154547	0	0.564571	1
16191265	0	0.413061	0
5617590	0	0.442374	0
718588	1	0.538411	1
7342254	1	0.373480	0
10736531	0	0.421683	0
3370800	1	0.489529	0
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1454639	0	0.402662	0
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31206277	1	0.516933	1
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13237338	1	0.496936	0
8634599	0	0.490870	0
7676913	1	0.385801	0

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27179854	1	0.602484	1
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4545881	0	0.330520	0
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13195967	1	0.587616	1
218331	0	0.144508	0
6705754	1	0.485619	0
1492015	1	0.392624	0
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1355204	1	0.425173	0
7701243	0	0.450494	0
522929	0	0.297690	0
5948713	0	0.400105	0
1585986	0	0.477065	0
20769292	0	0.533089	1
8998231	0	0.482974	0
6176464	0	0.317965	0
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9424675	0	0.439906	0
6294592	1	0.395527	0
6209677	0	0.348491	0
1183766	0	0.496863	0
3237667	1	0.463339	0
489679	0	0.211836	0
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236245	0	0.208681	0
814816	0	0.362068	0
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1272546	0	0.336280	0

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21451240	1	0.532046	1
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9777910	0	0.318364	0
34973763	1	0.418180	0
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6318425	1	0.434040	0
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7685221	0	0.470387	0
1469588	0	0.327734	0
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7615834	0	0.342594	0
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593837	0	0.201395	0
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21410238	1	0.565169	1
8874832	1	0.359957	0
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5145183	0	0.563960	1
15270871	1	0.334822	0
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431070	0	0.250571	0
6837802	1	0.487069	0
467713	0	0.291587	0
1357607	0	0.486606	0
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3155891	0	0.253691	0
654518	0	0.474190	0
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1255419	0	0.293759	0
1287908	0	0.568133	1
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1451876	0	0.346388	0
5645023	0	0.451003	0
3498569	0	0.396379	0
1595293	0	0.417456	0
1147017	0	0.384677	0
10565457	0	0.489443	0
19596358	1	0.432742	0
4539012	0	0.397095	0
1336371	0	0.324410	0
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3414985	1	0.265134	0

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19136975	1	0.630597	1
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36340384	1	0.510674	1
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7669115	1	0.445498	0
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13407481	1	0.462484	0
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3007446	0	0.405468	0
19887783	1	0.493052	0
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778997	0	0.501373	1
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3238350	0	0.497823	0
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7728747	0	0.506431	1
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28744608	1	0.605950	1
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1255826	0	0.309401	0
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587135	0	0.268020	0
2298658	0	0.352242	0
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6318784	0	0.509350	1
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22302191	1	0.478858	0
1473317	0	0.341223	0
24554820	1	0.359653	0
618465	0	0.299893	0
3807713	1	0.330262	0
4794899	1	0.539323	1
7096478	1	0.537990	1
12355824	0	0.507871	1
5792410	1	0.282841	0
6385402	0	0.499193	0
4288849	1	0.430402	0
627364	0	0.476788	0
21821117	1	0.468646	0
2076519	1	0.318846	0
17745258	1	0.496463	0
2837651	0	0.578036	1
1692435	1	0.476694	0

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27671576	1	0.504899	1
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19577358	0	0.394489	0
438224	1	0.214680	0
31989064	1	0.340626	0
6484581	0	0.388656	0
1357234	0	0.230765	0
5535635	1	0.514991	1
7679230	0	0.393758	0
7073176	0	0.449681	0
6168789	0	0.322833	0
815170	1	0.320084	0
1509498	0	0.484595	0
12625328	1	0.375547	0
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4765852	1	0.455898	0
2174650	1	0.317073	0
11678396	1	0.561868	1
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30735926	0	0.355483	0
12816408	1	0.383321	0
1153664	0	0.346133	0
6725381	1	0.498698	0
1298528	0	0.387595	0
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1389884	0	0.367618	0
6104710	0	0.502681	1
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7380553	0	0.471051	0
22304159	1	0.441585	0
4654950	1	0.449199	0
6626836	0	0.375142	0
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7098043	1	0.326092	0
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34303400	1	0.512113	1
9217558	0	0.619908	1
602129	0	0.298182	0
12958881	1	0.481097	0
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31006370	0	0.433453	0
1248190	0	0.318608	0
7094379	0	0.391581	0
821866	0	0.256653	0
17805225	1	0.427688	0
6328978	1	0.603187	1
6317043	1	0.319587	0
1372122	0	0.293154	0
14928996	0	0.469981	0

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356756	0	0.200124	0
465034	0	0.249411	0
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1390816	0	0.407364	0
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8127206	1	0.414979	0
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35743362	1	0.493061	0
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3294168	0	0.464095	0
7617194	0	0.417284	0
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544025	0	0.338873	0
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13426857	1	0.535612	1
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189524	0	0.113796	0
14569672	0	0.455454	0
680400	1	0.491486	0
8990653	0	0.442592	0
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3296202	0	0.465042	0
27029789	0	0.349777	0
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6569492	1	0.470149	0
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7387735	0	0.509579	1
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12575242	1	0.456624	0
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1191776	0	0.320522	0

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5755971	1	0.341399	0
7627462	0	0.452421	0
6311887	0	0.479989	0
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879363	0	0.295759	0
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6616014	1	0.577593	1
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13998527	1	0.547015	1
31045965	1	0.462030	0
1492079	1	0.366285	0
13567561	0	0.463948	0
13038075	0	0.477439	0
566440	0	0.418082	0
3292431	1	0.446189	0
11244699	1	0.527147	1
8981771	0	0.463492	0
1532183	0	0.414338	0
17724993	1	0.546023	1
30766106	0	0.546629	1
6996188	0	0.419494	0
2372337	0	0.350764	0
4766326	0	0.330980	0
24375159	0	0.528412	1
1063781	0	0.383603	0
5385824	1	0.473653	0
451820	1	0.283535	0
10091327	0	0.436193	0
3847979	0	0.351248	0
1337146	0	0.367653	0
871859	1	0.315135	0
580549	0	0.371664	0
1608021	0	0.374217	0
587182	0	0.296455	0
21911306	0	0.487824	0
5767492	0	0.408780	0
27632001	0	0.498722	0
34402420	1	0.590944	1
1193004	1	0.384592	0
31768259	1	0.481455	0
12835891	1	0.440100	0
12506998	0	0.624048	1
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6927538	1	0.371882	0
11215418	1	0.574377	1
14549368	0	0.461981	0
13267362	0	0.497537	0
5639478	0	0.426740	0
3349393	0	0.341090	0
8136361	0	0.482795	0
8524978	1	0.510656	1
2836731	1	0.538206	1
1125199	0	0.460604	0
20069858	1	0.555256	1
5125555	0	0.542591	1
1451913	1	0.394826	0
2090782	0	0.279993	0
1115911	0	0.318252	0
352232	0	0.182604	0
7636017	0	0.414913	0
1605477	0	0.339954	0
25967472	1	0.560007	1

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3932991	1	0.355503	0
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11686509	0	0.464519	0
8596185	0	0.618597	1
15129298	1	0.372439	0
13557948	0	0.628160	1
5958249	0	0.483472	0
17162589	1	0.593380	1
1160484	0	0.408548	0
1026434	0	0.372708	0
19156250	1	0.544814	1
13055828	1	0.480347	0
520091	0	0.272446	0
17122659	0	0.492321	0
625236	0	0.324733	0
6596402	1	0.526673	1
7666887	1	0.337441	0
22241769	0	0.502118	1
1431514	0	0.345416	0
8640060	1	0.450141	0
13307337	0	0.503957	1
5606976	1	0.481681	0
352302	1	0.234990	0
1944649	0	0.361414	0
21231216	1	0.436556	0
30244919	1	0.653130	1
23893852	1	0.480104	0
2382847	0	0.327806	0
791842	0	0.266724	0
24626240	0	0.594282	1
4425953	0	0.473847	0
5095233	1	0.399753	0
1866055	1	0.367533	0
1357387	0	0.519318	1
631559	0	0.301664	0
10180776	1	0.507631	1
9725808	1	0.577414	1
6637308	0	0.408794	0
2224813	0	0.431974	0
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1541259	0	0.369508	0
2366198	0	0.402524	0
17112958	1	0.370890	0
1099230	0	0.345391	0
7674737	1	0.477555	0
5772151	1	0.380321	0
7055188	1	0.453498	0
16211860	0	0.466225	0
10108291	0	0.388551	0
12535070	0	0.498762	0
5544752	0	0.439908	0
9696447	0	0.483028	0
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3217735	1	0.406392	0

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4184568	0	0.289766	0
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1283002	0	0.276714	0
1549726	0	0.260686	0
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10182533	0	0.579027	1
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837434	0	0.269662	0
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725835	0	0.384903	0
2378078	0	0.418358	0
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5977683	1	0.334201	0
6179139	1	0.527119	1
810256	0	0.496568	0
6175338	0	0.498322	0
1058519	0	0.297089	0
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16522958	1	0.451505	0
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7083675	0	0.325920	0
25276868	1	0.527102	1
7731220	1	0.390779	0
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837055	1	0.400972	0
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3264728	1	0.466777	0
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1600729	0	0.388612	0
6528304	1	0.458899	0
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3368060	1	0.368880	0
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37770528	1	0.531715	1
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1284477	0	0.440784	0
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8610251	1	0.537453	1
9224637	1	0.601017	1

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4255008	0	0.367393	0
5785944	1	0.416343	0
24615641	0	0.425836	0
3297964	0	0.321396	0
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7525405	1	0.451964	0
869898	0	0.412892	0
790556	0	0.287226	0
3629521	0	0.418342	0
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32188946	1	0.475875	0
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25257844	0	0.604836	1
643152	1	0.298082	0
5645018	1	0.511096	1
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3378605	0	0.236150	0
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6919764	1	0.481593	0
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7390173	1	0.450695	0
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986708	1	0.404588	0
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3844838	0	0.284134	0
9011836	0	0.498904	0
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1018784	1	0.416302	0
5966781	1	0.375513	0
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2744720	0	0.438560	0
6606277	0	0.343945	0
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3676214	1	0.404770	0
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6175686	0	0.486150	0
474392	0	0.303405	0
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742398	0	0.245738	0
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3930709	1	0.372907	0
27491886	1	0.601802	1
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1112748	1	0.353376	0
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3158238	0	0.366402	0
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6549034	1	0.452539	0
8944826	0	0.394807	0
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7946430	1	0.432543	0
1368924	0	0.452828	0
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6737397	0	0.440675	0
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27531515	1	0.666918	1
2375125	0	0.384426	0
28763862	1	0.403178	0
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23933399	0	0.441806	0
3445575	0	0.388740	0
30765868	1	0.581332	1
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7369544	0	0.457150	0
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9675238	1	0.404128	0
32999797	0	0.543741	1
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3674606	1	0.416924	0
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732635	0	0.295155	0
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23855263	1	0.388624	0
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1008504	0	0.306189	0
19116302	1	0.497925	0
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265115	1	0.151651	0
1628248	1	0.417251	0
13147573	0	0.349168	0
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15380791	0	0.445460	0
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7925769	1	0.325563	0
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6928416	0	0.383294	0
488607	0	0.208778	0
1486451	0	0.460866	0
1338623	0	0.358018	0
1218209	0	0.408770	0
20761294	1	0.569804	1
1098235	0	0.368601	0
7204776	0	0.428685	0
24034801	1	0.574330	1
1446039	0	0.326948	0
34864234	1	0.482996	0
35988360	1	0.309463	0
10125634	0	0.660023	1
18024139	1	0.528329	1
655993	1	0.300072	0
1475556	0	0.449781	0
35136455	1	0.450822	0
5800450	1	0.493463	0
17733706	1	0.609516	1
1560958	0	0.471824	0
5764342	0	0.374655	0
5939655	1	0.376399	0
6416476	1	0.528391	1
3932689	0	0.308606	0
13477778	1	0.600889	1
34583363	0	0.527885	1
6908816	0	0.565986	1
20598884	1	0.614848	1
11644634	0	0.347746	0
34944628	0	0.682587	1
31327169	0	0.489925	0
7265921	0	0.422779	0
1442883	0	0.407813	0
2078551	1	0.426370	0
1857021	0	0.493537	0
6616756	0	0.440669	0
7074489	1	0.440698	0
8574614	1	0.437534	0
4288047	1	0.347475	0
1439548	0	0.392474	0
19947968	1	0.472782	0
1550838	0	0.568411	1
1684799	0	0.398232	0
1263097	0	0.312671	0
3359984	0	0.359587	0
1507746	0	0.297904	0
3286501	0	0.401057	0
4445105	1	0.509012	1

6706604	0	0.289390	0
7698353	1	0.375600	0
980996	1	0.264819	0
417817	1	0.259884	0
1283091	1	0.338307	0
24524869	1	0.497335	0
20088998	0	0.497521	0
7275210	0	0.438844	0
3164050	1	0.350876	0
19386122	1	0.530636	1
36763453	1	0.586983	1
9005757	1	0.434985	0
1453135	0	0.414588	0
5032049	0	0.398704	0
3486839	1	0.453841	0
10607771	1	0.550904	1
467986	0	0.241415	0
20050621	0	0.367108	0
7945020	1	0.448159	0
3216811	1	0.324727	0
13336978	1	0.362568	0
9765096	0	0.328752	0
28643194	1	0.575845	1
27731515	1	0.518922	1
538610	0	0.326759	0
358822	0	0.325622	0
22442059	0	0.591664	1
11685567	1	0.385434	0
5938403	0	0.429083	0
1028164	0	0.401169	0
29714620	0	0.464844	0
6395732	0	0.421611	0
22491471	0	0.531024	1
6505073	0	0.365303	0
1561720	1	0.394461	0
4527771	0	0.489801	0
26187825	1	0.542381	1
1638121	1	0.418893	0
3701140	1	0.443047	0
980293	0	0.403120	0
3704467	0	0.557353	1
9239494	0	0.570169	1
7097799	0	0.379768	0
7356101	1	0.434575	0
22354042	1	0.641259	1
15330123	0	0.405023	0
12626046	1	0.456197	0
4125395	0	0.507241	1
1255141	0	0.388562	0
12917508	0	0.449544	0
12356287	1	0.545803	1
8215271	0	0.500036	1
517520	0	0.344592	0
23183470	1	0.542506	1
1215414	1	0.342181	0

13047373	0	0.551795	1
1414285	0	0.431799	0
1600990	0	0.281073	0
9816424	0	0.376716	0
8835574	1	0.389026	0
16541289	1	0.391975	0
7053928	1	0.398845	0
446726	1	0.224220	0
1050921	0	0.305913	0
32009135	1	0.592078	1
1061788	0	0.377726	0
11657803	1	0.609008	1
6189115	1	0.481144	0
1125853	0	0.283272	0
1529426	1	0.370127	0
1612345	0	0.439543	0
15409670	1	0.593967	1
16742458	0	0.594920	1
370940	1	0.285434	0
5608221	1	0.534148	1
5254588	0	0.334345	0
4594614	0	0.368629	0
13557544	0	0.527887	1
2826572	0	0.443700	0
7706828	0	0.501510	1
1098432	0	0.308628	0
1413823	0	0.319767	0
1264759	0	0.347612	0
4167332	1	0.485861	0
9124909	1	0.437119	0
558619	0	0.361555	0
13067016	1	0.401041	0
6291252	0	0.449095	0
700865	0	0.335637	0
4455440	1	0.474155	0
4565379	0	0.388191	0
6157139	0	0.374376	0
8264562	1	0.373968	0
762932	0	0.345269	0
16542659	0	0.391130	0
34383659	1	0.597459	1
1581963	1	0.405736	0
605582	0	0.490058	0
5335755	0	0.337759	0
1422072	0	0.337672	0
798802	0	0.330575	0
7062094	0	0.558762	1
10146426	0	0.503526	1
29645617	0	0.693538	1
7636518	0	0.521157	1
1311328	0	0.439631	0
6617740	0	0.425107	0
12458523	1	0.435468	0
1532858	0	0.375831	0

29635255	0	0.647720	1
1600016	0	0.315492	0
3240016	1	0.455385	0
3642110	0	0.392272	0
1271078	0	0.425613	0
595190	0	0.184568	0
3159632	0	0.488126	0
4285344	1	0.370836	0
2435567	0	0.427132	0
6714950	1	0.478675	0
8504861	0	0.406762	0
1260558	0	0.300506	0
17735632	1	0.508481	1
23503298	1	0.712345	1
5545701	1	0.396916	0
5774587	0	0.539523	1
12645541	0	0.492865	0
3214911	0	0.442579	0
34322530	0	0.560387	1
736551	0	0.394964	0
12405524	0	0.437798	0
5758451	0	0.465100	0
2371244	0	0.413431	0
19076282	0	0.640327	1
10183453	0	0.428523	0
1532781	0	0.367576	0
670105	0	0.393384	0
5616294	1	0.349725	0
711127	0	0.382741	0
4555628	1	0.467572	0
36281463	1	0.392910	0
1486453	1	0.289316	0
17715024	0	0.542636	1
5938674	1	0.445025	0
11054607	1	0.511363	1
1567974	0	0.394514	0
1090668	1	0.484086	0
17533145	1	0.410736	0
5195254	0	0.324339	0
1413293	0	0.325765	0
4536515	0	0.382504	0
1227017	0	0.420466	0
1454603	1	0.343072	0
9065904	1	0.490432	0
24616207	1	0.436738	0
8184976	1	0.389722	0
9854799	1	0.588350	1
9265221	1	0.460956	0
17383481	0	0.379214	0
856790	0	0.364726	0
3006952	1	0.409959	0
33931664	1	0.646495	1
14579833	1	0.367555	0
3928649	1	0.543793	1
19466188	1	0.569530	1

10854848	0	0.346468	0
32159072	1	0.630179	1
3096322	0	0.390335	0
725534	0	0.331320	0
9756510	1	0.566493	1
10736502	1	0.482899	0
1435621	0	0.364498	0
1523059	1	0.454789	0
3285905	0	0.375487	0

```
In [194]: #Générons maintenant la matrice de confusion avec la fonction crosstab de pandas.  
#Utilisons les données réelles comme lignes et les prédictions comme colonnes.
```

```
In [195]: pd.crosstab(Reales_Predicciones['Tasa de Recuperacion 0'], Reales_Predicciones['Prediccion Tasa de Recuperacion 0'])
```

```
Out[195]: Prediccion      0      1  
          Reales  
          ---  
0    4131    801  
1    2430   1286
```

```
In [ ]: #La classification n'est pas mauvaise, mais elle pourrait être meilleure.  
#Faux positifs : 801 observations ont été incorrectement classées comme un taux de récupération égal à zéro (1)  
#Faux négatifs : 2 430 observations ont été incorrectement classées comme des taux de récupération différents de zéro (0)
```

```
In [ ]: # Estimons la proportion de la matrice de confusion.
```

```
In [196]: pd.crosstab(Reales_Predicciones['Tasa de Recuperacion 0'], Reales_Predicciones['Prediccion Tasa de Recuperacion 0']).apply(lambda x: x/x.sum(), axis=1)
```

```
Out[196]: Prediccion      0      1  
          Reales  
          ---  
0    0.477683  0.092623  
1    0.280990  0.148705
```

```
In [197]: # Maintenant, additionnons la diagonale principale en utilisant la méthode .iloc.
```

```
In [198]: (pd.crosstab(Reales_Predicciones['Tasa de Recuperacion 0'], Reales_Predicciones['Prediccion Tasa de Recuperacion 0']) * np.diag(np.diag(pd.crosstab(Reales_Predicciones['Tasa de Recuperacion 0'], Reales_Predicciones['Prediccion Tasa de Recuperacion 0'])))).iloc[0,0]
```

```
Out[198]: 0.6263876040703052
```

```
In [ ]:
```

```
In [199]: #Ceci est l'exactitude du modèle avec un seuil de 0,5, mais comme nous nous en souvenons,  
#cette mesure n'est pas aussi informative que celle que nous pouvons obtenir avec l'AUC  
#de la courbe ROC. Importons les méthodes roc_curve et roc_auc_score.
```

```
In [200]: from sklearn.metrics import roc_curve, roc_auc_score
```

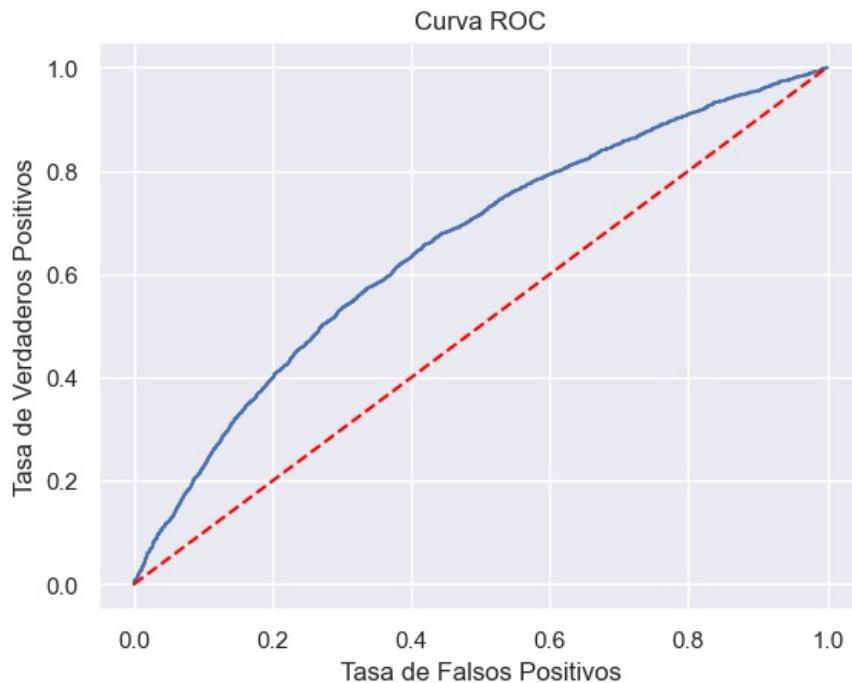
```
In [201]: # Maintenant, définissons les faux positifs, les vrais positifs et les points de coupure à partir des valeurs réelles.
```

```
In [202]: falsos_positivos, verdaderos_positivos, puntos_de_corte = roc_curve(Reales_Predicciones['Tasa de Recuperacion 0'], Reales_Predicciones['Prediccion Tasa de Recuperacion 0'])
```

```
In [203]: # Maintenant, traçons le graphe
```

```
In [204]: plt.plot(falsos_positivos, verdaderos_positivos)  
plt.plot(falsos_positivos, falsos_positivos, linestyle = '--', color = 'red')  
plt.xlabel('Tasa de Falsos Positivos')  
plt.ylabel('Tasa de Verdaderos Positivos')  
plt.title('Curva ROC')
```

```
Out[204]: Text(0.5, 1.0, 'Curva ROC')
```



```
In [205]: # Maintenant, estimons l'aire sous la courbe ROC (AUC).
```

```
In [206]: AUC = roc_auc_score(Reales_Predicciones['Tasa de Recuperacion 0'], Reales_Predicciones['Probabilidad Tasa de Re'])
```

L'AUC est de 65,45%, ce qui est acceptable. L'essentiel est que nous nous souvenons que nous utiliserons ce modèle comme une étape préliminaire pour estimer le LGD. Il est beaucoup plus important pour nous d'avoir une proportion élevée de taux de récupération classés comme supérieurs à zéro (47,76%) que de classer correctement les taux de récupération égaux à zéro (14,87%). C'est précisément ce que fait notre modèle. Rappelons-nous que dans la deuxième étape de notre modèle, où nous utiliserons la régression linéaire, certaines des observations peuvent encore être correctement classées comme des taux de récupération égaux à zéro.

```
In [208]: AUC
```

```
Out[208]: 0.654521896064191
```

## Sauvegarde du modèle

```
In [209]: import pickle
```

```
In [211]: pickle.dump(regresion, open('regresion.sav', 'wb'))
```

```
In [212]: pickle.dump(reglogistica_p_values, open('reglogistica_p_values.sav', 'wb'))
```

## Modèle LGD : Régression Linéaire

```
In [213]: # Recapitulemos. Dividimos el Modelo LGD en dos etapas:
```

```
# LGD0: Regresión Logística con la que predecimos si la tasa de recuperacion es igual o diferente de cero
# LGD1: Para las observaciones distintas de cero, utilizaremos un Modelo de Regresión Lineal Múltiple
# para predecir su tasa de recuperación
```

Tous les clients avec un taux de récupération = 0 ont été codés comme 1 dans la variable `tasa_recuperacion_0`. Par conséquent, les clients avec un taux de récupération différent de zéro, qui sont ceux qui nous intéressent dans la deuxième étape du modèle, sont codés comme 0 dans la variable mentionnée. Choisissons donc les données dont nous avons besoin :

```
In [215]: datos_lgd1 = datos_defaults[datos_defaults['tasa_recuperacion_0'] == 0]
```

```
In [216]: #Séparation des données d'entraînement et d'évaluation à partir de la base de données "datos_lgd1",
```

```
#c'est-à-dire celles qui ont un taux de récupération différent de zéro.
```

```
In [217]: lgd1_independientes_entreno, lgd1_independientes_evaluacion, lgd1_dependiente_entreno, lgd1_dependiente_evaluacion = datos_lgd1.drop(['buenos_malos', 'tasa_recuperacion', 'tasa_recuperacion_0', 'FCC'], axis = 1), datos_lgd1
```

```
In [219]: from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error, r2_score
```

```
In [220]: #Présélectionnons uniquement les variables indépendantes contenues dans la liste "nombres_variables".
```

```
In [221]: lgd1_independientes_entreno = lgd1_independientes_entreno[nombres_variables]
```

```
In [222]: # Ensuite, supprimons les variables dummys de référence de la liste "nombres_referencias".
```

```
In [223]: lgd1_independientes_entreno = lgd1_independientes_entreno.drop(nombres_referencias, axis = 1)
```

Nous effectuons la régression linéaire. Notre modèle fonctionnera, mais nous n'aurons pas les valeurs p pour déterminer quelles variables sont statistiquement significatives, ce qui, comme nous l'avons déjà mentionné, n'affecte pas la puissance prédictive du modèle. Définissons l'objet "regresionlgd1" en tant qu'instance de la classe "LinearRegression()".

```
In [225]: regresionlgd1 = LinearRegression()
```

```
In [226]: # Effectuons l'ajustement du modèle avec "lgd1_independientes_entreno" et "lgd1_dependiente_entreno".
```

```
In [227]: regresionlgd1.fit(lgd1_independientes_entreno, lgd1_dependiente_entreno)
```

```
Out[227]: ▾ LinearRegression
           LinearRegression()
```

```
In [ ]: # tableau des résultats
```

```
In [228]: nombres_var_independientes = lgd1_independientes_entreno.columns.values
tabla_resultados = pd.DataFrame(columns = ['Variable Independiente'], data = nombres_var_independientes)
tabla_resultados['Coeficientes'] = np.transpose(regresionlgd1.coef_)
tabla_resultados.index = tabla_resultados.index + 1
tabla_resultados.loc[0] = ['Intercepto', regresionlgd1.intercept_]
tabla_resultados = tabla_resultados.sort_index()
# p_values = regresionlgd1.p
# p_values = np.append(np.nan, np.array(p_values))
# tabla_resultados['p_values'] = p_values.round(3)
tabla_resultados
```

Out[228] :

	Variable Independiente	Coefficientes
0	Intercepto	3.796246e-01
1	Casa_MORTGAGE	-4.701315e-02
2	Casa_NONE	6.875566e-02
3	Casa_OWN	-4.471792e-02
4	Casa_RENT	-4.967543e-02
5	Proposito_car	-6.487102e-03
6	Proposito_credit_card	-3.873809e-03
7	Proposito_debt_consolidation	-2.508568e-03
8	Proposito_educational	6.543699e-02
9	Proposito_home_improvement	-4.794925e-03
10	Proposito_house	-1.958400e-03
11	Proposito_major_purchase	2.107439e-04
12	Proposito_medical	6.490975e-04
13	Proposito_moving	1.193106e-02
14	Proposito_renewable_energy	2.342617e-02
15	Proposito_small_business	-7.623313e-05
16	Proposito_vacation	3.005183e-03
17	Proposito_wedding	1.581432e-02
18	Grados_A	-6.990085e-02
19	Grados_B	-5.589742e-02
20	Grados_C	-4.136210e-02
21	Grados_D	-3.140528e-02
22	Grados_E	-1.600256e-02
23	Grados_F	-2.551995e-03
24	Estado_Lista_w	1.334538e-02
25	Verificacion_Not Verified	1.552172e-03
26	Verificacion_Source Verified	-3.301034e-03
27	term_num	3.493682e-04
28	emp_length_num	1.086946e-04
29	meses_credito	-7.556053e-04
30	meses_lineacredito	-7.556053e-04
31	funded_amnt	-2.749279e-07
32	int_rate	-2.794624e-03
33	installment	-6.646312e-06
34	annual_inc	8.321199e-08
35	dti	1.428533e-04
36	delinq_2yrs	1.509904e-03
37	inq_last_6mths	1.422079e-03
38	mths_since_last_delinq	7.864095e-06
39	mths_since_last_record	-5.084699e-05
40	open_acc	-1.099424e-03
41	pub_rec	4.009326e-03
42	total_acc	3.948788e-04
43	acc_now_delinq	8.194916e-04
44	total_rev_hi_lim	2.764911e-07

#### Interprétation des Coefficients

Les coefficients des variables numériques ne reflètent pas s'ils appartiennent à une catégorie d'une variable indépendante d'origine ou non. Au lieu de cela, ils reflètent le changement d'unité dans la variable. Par exemple, en utilisant la variable int\_rate, pour chaque point de pourcentage supplémentaire dans le taux d'intérêt, le taux de récupération diminuerait de 0,00279.

Pour les variables dummys : Casa\_RENT : -4,967543e-02. Le fait que la personne habite dans une maison louée réduit le taux de récupération de 0,00496.

## PRÉVISION ET ÉVALUATION DE LA DEUXIÈME ÉTAPE DU MODÈLE LGD

```
In [ ]: #Pour évaluer le modèle, nous appliquerons le modèle à notre base d'évaluation.  
#Nous utiliserons exactement les mêmes variables avec lesquelles nous avons construit  
#le modèle, c'est-à-dire celles qui sont dans la liste "nombres_variables".  
  
In [229]: lgd1_independientes_evaluacion = lgd1_independientes_evaluacion[nombres_variables]  
  
In [230]: # Ensuite, nous supprimons les variables de référence.  
  
In [231]: lgd1_independientes_evaluacion = lgd1_independientes_evaluacion.drop(nombres_referencias, axis = 1)  
  
In [232]: # Nous pouvons effectuer la prédiction en utilisant la méthode "predict" sur notre modèle "regresionlgd1".  
  
In [233]: prediccion_lgd1 = regresionlgd1.predict(lgd1_independientes_evaluacion)  
  
In [234]: prediccion_lgd1  
Out[234]: array([0.10358638, 0.129545 , 0.11218359, ..., 0.0760133 , 0.13188127,  
   0.12282615])  
  
In [235]: #prediccion_lgd1 contient un tableau avec les prédictions du taux de récupération.  
#Pour évaluer la qualité de nos prédictions, créons un tableau contenant les valeurs réelles et les prédictions  
#Avant de concaténer les données, nous devons réinitialiser les indices.  
#Créons une variable temporaire pour la variable dépendante.  
  
In [236]: lgd1_dependiente_evaluacion_temp = lgd1_dependiente_evaluacion  
  
In [237]: lgd1_dependiente_evaluacion_temp = lgd1_dependiente_evaluacion_temp.reset_index(drop = True)  
  
In [238]: lgd1_dependiente_evaluacion_temp #Les valeurs réelles du taux de récupération  
Out[238]: 0      0.098983  
1      0.141240  
2      0.124247  
3      0.040007  
4      0.044483  
5      0.117099  
6      0.124489  
7      0.000405  
8      0.143018  
9      0.123671  
10     0.039600  
11     0.093081  
12     0.107277  
13     0.119673  
14     0.121060  
15     0.128015  
16     0.089594  
17     0.040902  
18     0.023685  
19     0.164027  
20     0.101667  
21     0.088258  
22     0.100027  
23     0.100266  
24     0.121429  
25     0.018483  
26     0.052877  
27     0.119080  
28     0.097567  
29     0.052708  
30     0.062194  
31     0.130533  
32     0.067870  
33     0.134816  
34     0.133294  
35     0.109595  
36     0.157108  
37     0.134554  
38     0.001476  
39     0.134104  
40     0.123187  
41     0.319099  
42     0.158573  
43     0.102317  
44     0.001035  
45     0.187073  
46     0.063714  
47     0.107316  
48     0.119948  
49     0.054813  
50     0.076970  
51     0.130998  
52     0.025232
```

53	0.054981
54	0.175562
55	0.024960
56	0.043762
57	0.167893
58	0.299375
59	0.070941
60	0.101087
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66	0.171960
67	0.089190
68	0.054974
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70	0.134931
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1871	0.001777
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1877	0.002166
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1882	0.000940
1883	0.105277
1884	0.127316
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1886	0.045101
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1889	0.043797
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1891	0.096322
1892	0.033389
1893	0.137302
1894	0.067725
1895	0.063069
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1897	0.196586
1898	0.119185
1899	0.041302
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1904	0.107703
1905	0.124755
1906	0.225120
1907	0.177545
1908	0.181691
1909	0.040815
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1913	0.000305
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1921	0.053556

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1924	0.180050
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1928	0.099398
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1931	0.138013
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1941	0.017884
1942	0.093106
1943	0.116560
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1954	0.129346
1955	0.020401
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1958	0.056304
1959	0.037200
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1962	0.106549
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1970	0.078992
1971	0.034880
1972	0.119384
1973	0.042456
1974	0.127355
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2013	0.124205
2014	0.114695
2015	0.185029
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2017	0.033694
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4451	0.574116
4452	0.128547
4453	0.282697
4454	0.046943
4455	0.000687
4456	0.083211
4457	0.167076
4458	0.033632
4459	0.176926
4460	0.102927
4461	0.521482
4462	0.139151
4463	0.234268
4464	0.142936
4465	0.053838
4466	0.155906
4467	0.167536
4468	0.009300
4469	0.795747
4470	0.014557
4471	0.139977
4472	0.115963
4473	0.033393
4474	0.011230
4475	0.136471
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4485	0.144247
4486	0.036400
4487	0.171595
4488	0.081010
4489	0.167483
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4493	0.100833
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4497	0.000473
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4499	0.117788
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4502	0.129597

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4504	0.132947
4505	0.049718
4506	0.184168
4507	0.127529
4508	0.049401
4509	0.182828
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4512	0.130871
4513	0.137185
4514	0.099382
4515	0.056088
4516	0.202684
4517	0.047564
4518	0.092664
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4520	0.071007
4521	0.034559
4522	0.276836
4523	0.000917
4524	0.126154
4525	0.055926
4526	0.114581
4527	0.191167
4528	0.114932
4529	0.175920
4530	0.058680
4531	0.168302
4532	0.130105
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4535	0.143172
4536	0.068881
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4539	0.186415
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4545	0.090891
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4547	0.148181
4548	0.145837
4549	0.073515
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4551	0.151531
4552	0.117647
4553	0.000573
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4555	0.123692
4556	0.046093
4557	0.100944
4558	0.052006
4559	0.109241
4560	0.064261
4561	0.123035
4562	0.025240
4563	0.128995
4564	0.051100
4565	0.098295
4566	0.002425
4567	0.020087
4568	0.128139
4569	0.050236
4570	0.128877
4571	0.080676
4572	0.133834
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4575	0.000332
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4577	0.000439
4578	0.002027
4579	0.082609
4580	0.106537
4581	0.136206
4582	0.085339
4583	0.058903
4584	0.031965
4585	0.029759
4586	0.118943
4587	0.038039
4588	0.154892
4589	0.223064
4590	0.133366
4591	0.100037

4592	0.050087
4593	0.078738
4594	0.110127
4595	0.137201
4596	0.113409
4597	0.037262
4598	0.001836
4599	0.109046
4600	0.135295
4601	0.085862
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4604	0.194033
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4606	0.339775
4607	0.117231
4608	0.091153
4609	0.116600
4610	0.139158
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4612	0.001601
4613	0.136577
4614	0.120512
4615	0.000588
4616	0.000928
4617	0.106130
4618	0.053206
4619	0.090708
4620	0.111963
4621	0.120361
4622	0.090828
4623	0.039761
4624	0.173554
4625	0.077875
4626	0.034774
4627	0.124953
4628	0.133128
4629	0.122949
4630	0.099180
4631	0.059146
4632	0.068545
4633	0.108616
4634	0.141713
4635	0.129986
4636	0.139166
4637	0.050527
4638	0.080215
4639	0.000528
4640	0.142986
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4644	0.023262
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4653	0.023696
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4657	0.209383
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4662	1.000000
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4664	0.129397
4665	0.135860
4666	0.133327
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4668	0.027611
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4670	0.105736
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4673	0.109073
4674	0.150630
4675	0.113201
4676	0.185528
4677	0.111608
4678	0.057510
4679	0.166051
4680	0.140753

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4683	0.099798
4684	0.105573
4685	0.053680
4686	0.122879
4687	0.157717
4688	0.135683
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4690	0.137149
4691	0.072544
4692	0.155636
4693	0.058190
4694	0.034352
4695	0.055959
4696	0.053490
4697	0.108112
4698	0.095578
4699	0.355000
4700	0.000413
4701	0.000384
4702	0.000516
4703	0.032429
4704	0.166030
4705	0.188904
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4712	0.001608
4713	0.047757
4714	0.133262
4715	0.045238
4716	0.127648
4717	0.083217
4718	0.055620
4719	0.037287
4720	0.143012
4721	0.110465
4722	0.044370
4723	0.044920
4724	0.195267
4725	0.029695
4726	0.078159
4727	0.135867
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4731	0.023278
4732	0.008590
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4738	0.001629
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4740	0.530058
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4743	0.119702
4744	0.000845
4745	0.170211
4746	0.042397
4747	0.101551
4748	0.085014
4749	0.092496
4750	0.082671
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4752	0.133974
4753	0.030950
4754	0.002284
4755	0.042568
4756	0.141731
4757	0.246667
4758	0.056736
4759	0.138413
4760	0.048084
4761	0.104682
4762	0.125552
4763	0.071817
4764	0.020490
4765	0.125585
4766	0.056860
4767	0.147167
4768	0.048162
4769	0.167325

4770	0.055211
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4772	0.126998
4773	0.128091
4774	0.044676
4775	0.047075
4776	0.014512
4777	0.038822
4778	0.177058
4779	0.050002
4780	0.000688
4781	0.066810
4782	0.124454
4783	0.001404
4784	0.002497
4785	0.046001
4786	0.053708
4787	0.074374
4788	0.095570
4789	0.188641
4790	0.121595
4791	0.046886
4792	0.000753
4793	0.056181
4794	0.131482
4795	0.062912
4796	0.102942
4797	0.191486
4798	0.128690
4799	0.158956
4800	0.119321
4801	0.131145
4802	0.000657
4803	0.049054
4804	0.057784
4805	0.155837
4806	0.176223
4807	0.016915
4808	0.053525
4809	0.046840
4810	0.099560
4811	0.125033
4812	0.132788
4813	0.126467
4814	0.124727
4815	0.099533
4816	0.140669
4817	0.163413
4818	0.137132
4819	0.027248
4820	0.001013
4821	0.172018
4822	0.038480
4823	0.001050
4824	0.048650
4825	0.136520
4826	0.117948
4827	0.151480
4828	0.006000
4829	0.069851
4830	0.076537
4831	0.038567
4832	0.057099
4833	0.457146
4834	0.175829
4835	0.232149
4836	0.090995
4837	0.116653
4838	0.132407
4839	0.141534
4840	0.098982
4841	0.125556
4842	0.028660
4843	0.143291
4844	0.025773
4845	0.123154
4846	0.088266
4847	0.022008
4848	0.041251
4849	0.137621
4850	0.054965
4851	0.072110
4852	0.092861
4853	0.041321
4854	0.049394
4855	0.054133
4856	0.052011
4857	0.102844
4858	0.000605

```

4859    0.009706
4860    0.043801
4861    0.131253
4862    0.120855
4863    0.046372
4864    0.100273
4865    0.850753
4866    0.034974
4867    0.092648
4868    0.050118
4869    0.128296
4870    0.189881
4871    0.052975
4872    0.061287
4873    0.129507
4874    0.117227
Name: tasa_recuperacion, dtype: float64

```

In [239]: #Une fois les indices réinitialisés, nous pouvons concaténer dans un tableau les valeurs réelles du taux de récupération avec la prédition que nous avons faite avec notre modèle. Nous estimons la corrélation qui existe entre les deux séries.

```
In [240]: pd.concat([lgd1_dependiente_evaluacion_temp, pd.DataFrame(prediccion_lgd1)], axis = 1).corr()
```

Out[240]:

	tasa_recuperacion	0
tasa_recuperacion	1.000000	0.308502
0	0.308502	1.000000

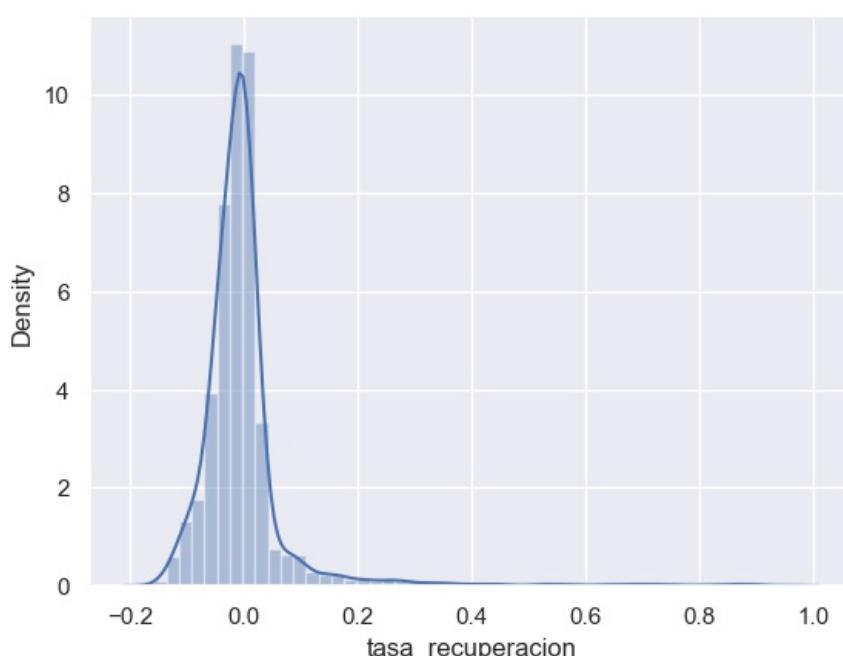
Une corrélation est un nombre entre -1 et 1 qui mesure la force de la relation entre deux séries de données. Une corrélation de 0,308502 est faible. Mais dans le contexte d'un modèle de LGD, c'est un nombre tout à fait acceptable. En fait, au-dessus de 0,6-0,7, vous devriez commencer à examiner vos données, car ce serait inhabituellement élevé.

In [242]: #Maintenant, nous pouvons analyser la distribution entre les données réelles et les prédictions du taux de récupération. Créons un graphique de distribution de #la différence entre les deux séries.

```
In [243]: sns.distplot(lgd1_dependiente_evaluacion_temp - prediccion_lgd1)
```

C:\Users\IDEAPAD5\anaconda3\lib\site-packages\seaborn\distributions.py:2557: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).  
warnings.warn(msg, FutureWarning)

Out[243]: <Axes: xlabel='tasa\_recuperacion', ylabel='Density'>



In [244]: #Nous observons un graphique qui ressemble à une distribution normale, où la plupart des résidus semblent être symétriquement distribués autour de zéro. De plus, zéro est #l'endroit où la plupart des résidus sont concentrés, nous pouvons donc dire que nous avons un bon modèle.

```
In [245]: # Sauvegardons le modèle avec la méthode "dump" du module "pickle".
```

```
In [246]: pickle.dump(regresionlgd1, open('regresionlgd1.sav', 'wb'))
```