

# House

January 2, 2019

## 0.0.1 House Prices

```
In [22]: #On importe les bibliothèques nécessaires
import pandas as pd
import numpy as np

import seaborn as sns
import matplotlib
import matplotlib.pyplot as plt
from scipy.stats import skew
from scipy.stats.stats import pearsonr

from IPython.display import display

%config InlineBackend.figure_format = 'png' #set 'png' here when working on notebook
%matplotlib inline
```

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In [23]: #On importe nos données d'entraînement et de test.
train = pd.read_csv("train.csv")
test = pd.read_csv("test.csv")
#Afficher toutes les colonnes
pd.options.display.max_columns = None
```

```
In [24]: train.head()
```

```
Out[24]:
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	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	\
0	1	60	RL	65.0	8450	Pave	NaN	Reg	
1	2	20	RL	80.0	9600	Pave	NaN	Reg	
2	3	60	RL	68.0	11250	Pave	NaN	IR1	
3	4	70	RL	60.0	9550	Pave	NaN	IR1	
4	5	60	RL	84.0	14260	Pave	NaN	IR1	

	LandContour	Utilities	LotConfig	LandSlope	Neighborhood	Condition1	\
0	Lv1	AllPub	Inside	Gtl	CollgCr	Norm	
1	Lv1	AllPub	FR2	Gtl	Veenker	Feedr	
2	Lv1	AllPub	Inside	Gtl	CollgCr	Norm	
3	Lv1	AllPub	Corner	Gtl	Crawfor	Norm	
4	Lv1	AllPub	FR2	Gtl	NoRidge	Norm	

	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt	\
0	Norm	1Fam	2Story	7	5	2003	
1	Norm	1Fam	1Story	6	8	1976	
2	Norm	1Fam	2Story	7	5	2001	
3	Norm	1Fam	2Story	7	5	1915	
4	Norm	1Fam	2Story	8	5	2000	

	YearRemodAdd	RoofStyle	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	\
0	2003	Gable	CompShg	VinylSd	VinylSd	BrkFace	
1	1976	Gable	CompShg	MetalSd	MetalSd	None	
2	2002	Gable	CompShg	VinylSd	VinylSd	BrkFace	
3	1970	Gable	CompShg	Wd Sdng	Wd Shng	None	
4	2000	Gable	CompShg	VinylSd	VinylSd	BrkFace	

	MasVnrArea	ExterQual	ExterCond	Foundation	BsmtQual	BsmtCond	BsmtExposure	\
0	196.0	Gd	TA	PConc	Gd	TA	No	
1	0.0	TA	TA	CBlock	Gd	TA	Gd	
2	162.0	Gd	TA	PConc	Gd	TA	Mn	
3	0.0	TA	TA	BrkTil	TA	Gd	No	
4	350.0	Gd	TA	PConc	Gd	TA	Av	

	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	\
0	GLQ	706	Unf	0	150	856	
1	ALQ	978	Unf	0	284	1262	
2	GLQ	486	Unf	0	434	920	
3	ALQ	216	Unf	0	540	756	
4	GLQ	655	Unf	0	490	1145	

	Heating	HeatingQC	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	\
0	GasA	Ex	Y	SBrkr	856	854	0	
1	GasA	Ex	Y	SBrkr	1262	0	0	
2	GasA	Ex	Y	SBrkr	920	866	0	
3	GasA	Gd	Y	SBrkr	961	756	0	
4	GasA	Ex	Y	SBrkr	1145	1053	0	

	GrLivArea	BsmtFullBath	BsmtHalfBath	FullBath	HalfBath	BedroomAbvGr	\
0	1710	1	0	2	1	3	
1	1262	0	1	2	0	3	
2	1786	1	0	2	1	3	
3	1717	1	0	1	0	3	
4	2198	1	0	2	1	4	

	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces	FireplaceQu	\
0	1	Gd	8	Typ	0	NaN	
1	1	TA	6	Typ	1	TA	
2	1	Gd	6	Typ	1	TA	
3	1	Gd	7	Typ	1	Gd	

4	1	Gd	9	Typ	1	TA
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	GarageType	GarageYrBltd	GarageFinish	GarageCars	GarageArea	GarageQual	\
0	Attchd	2003.0	RFn	2	548	TA	
1	Attchd	1976.0	RFn	2	460	TA	
2	Attchd	2001.0	RFn	2	608	TA	
3	Detchd	1998.0	Unf	3	642	TA	
4	Attchd	2000.0	RFn	3	836	TA	

	GarageCond	PavedDrive	WoodDeckSF	OpenPorchSF	EnclosedPorch	3SsnPorch	\
0	TA	Y	0	61	0	0	
1	TA	Y	298	0	0	0	
2	TA	Y	0	42	0	0	
3	TA	Y	0	35	272	0	
4	TA	Y	192	84	0	0	

	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal	MoSold	YrSold	\
0	0	0	NaN	NaN	NaN	0	2	2008	
1	0	0	NaN	NaN	NaN	0	5	2007	
2	0	0	NaN	NaN	NaN	0	9	2008	
3	0	0	NaN	NaN	NaN	0	2	2006	
4	0	0	NaN	NaN	NaN	0	12	2008	

	SaleType	SaleCondition	SalePrice
0	WD	Normal	208500
1	WD	Normal	181500
2	WD	Normal	223500
3	WD	Abnorml	140000
4	WD	Normal	250000

In [25]: test.head()

Out [25]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	\
0	1461	20	RH	80.0	11622	Pave	NaN	Reg	
1	1462	20	RL	81.0	14267	Pave	NaN	IR1	
2	1463	60	RL	74.0	13830	Pave	NaN	IR1	
3	1464	60	RL	78.0	9978	Pave	NaN	IR1	
4	1465	120	RL	43.0	5005	Pave	NaN	IR1	

	LandContour	Utilities	LotConfig	LandSlope	Neighborhood	Condition1	\
0	Lvl	AllPub	Inside	Gtl	Names	Feedr	
1	Lvl	AllPub	Corner	Gtl	Names	Norm	
2	Lvl	AllPub	Inside	Gtl	Gilbert	Norm	
3	Lvl	AllPub	Inside	Gtl	Gilbert	Norm	
4	HLS	AllPub	Inside	Gtl	StoneBr	Norm	

	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt	\
0	Norm	1Fam	1Story	5	6	1961	

1	Norm	1Fam	1Story	6	6	1958
2	Norm	1Fam	2Story	5	5	1997
3	Norm	1Fam	2Story	6	6	1998
4	Norm	TwnhsE	1Story	8	5	1992

	YearRemodAdd	RoofStyle	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	\
0	1961	Gable	CompShg	VinylSd	VinylSd	None	
1	1958	Hip	CompShg	Wd Sdng	Wd Sdng	BrkFace	
2	1998	Gable	CompShg	VinylSd	VinylSd	None	
3	1998	Gable	CompShg	VinylSd	VinylSd	BrkFace	
4	1992	Gable	CompShg	HdBoard	HdBoard	None	

	MasVnrArea	ExterQual	ExterCond	Foundation	BsmtQual	BsmtCond	BsmtExposure	\
0	0.0	TA	TA	CBlock	TA	TA	No	
1	108.0	TA	TA	CBlock	TA	TA	No	
2	0.0	TA	TA	PConc	Gd	TA	No	
3	20.0	TA	TA	PConc	TA	TA	No	
4	0.0	Gd	TA	PConc	Gd	TA	No	

	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	\
0	Rec	468.0	LwQ	144.0	270.0	882.0	
1	ALQ	923.0	Unf	0.0	406.0	1329.0	
2	GLQ	791.0	Unf	0.0	137.0	928.0	
3	GLQ	602.0	Unf	0.0	324.0	926.0	
4	ALQ	263.0	Unf	0.0	1017.0	1280.0	

	Heating	HeatingQC	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	\
0	GasA	TA	Y	SBrkr	896	0	0	
1	GasA	TA	Y	SBrkr	1329	0	0	
2	GasA	Gd	Y	SBrkr	928	701	0	
3	GasA	Ex	Y	SBrkr	926	678	0	
4	GasA	Ex	Y	SBrkr	1280	0	0	

	GrLivArea	BsmtFullBath	BsmtHalfBath	FullBath	HalfBath	BedroomAbvGr	\
0	896	0.0	0.0	1	0	2	
1	1329	0.0	0.0	1	1	3	
2	1629	0.0	0.0	2	1	3	
3	1604	0.0	0.0	2	1	3	
4	1280	0.0	0.0	2	0	2	

	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces	FireplaceQu	\
0	1	TA	5	Typ	0	NaN	
1	1	Gd	6	Typ	0	NaN	
2	1	TA	6	Typ	1	TA	
3	1	Gd	7	Typ	1	Gd	
4	1	Gd	5	Typ	0	NaN	

GarageType	GarageYrBlt	GarageFinish	GarageCars	GarageArea	GarageQual	\
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0	Attchd	1961.0	Unf	1.0	730.0	TA
1	Attchd	1958.0	Unf	1.0	312.0	TA
2	Attchd	1997.0	Fin	2.0	482.0	TA
3	Attchd	1998.0	Fin	2.0	470.0	TA
4	Attchd	1992.0	RFn	2.0	506.0	TA

	GarageCond	PavedDrive	WoodDeckSF	OpenPorchSF	EnclosedPorch	3SsnPorch	\
0	TA	Y	140	0	0	0	
1	TA	Y	393	36	0	0	
2	TA	Y	212	34	0	0	
3	TA	Y	360	36	0	0	
4	TA	Y	0	82	0	0	

	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal	MoSold	YrSold	\
0	120	0	NaN	MnPrv	NaN	0	6	2010	
1	0	0	NaN	NaN	Gar2	12500	6	2010	
2	0	0	NaN	MnPrv	NaN	0	3	2010	
3	0	0	NaN	NaN	NaN	0	6	2010	
4	144	0	NaN	NaN	NaN	0	1	2010	

	SaleType	SaleCondition
0	WD	Normal
1	WD	Normal
2	WD	Normal
3	WD	Normal
4	WD	Normal

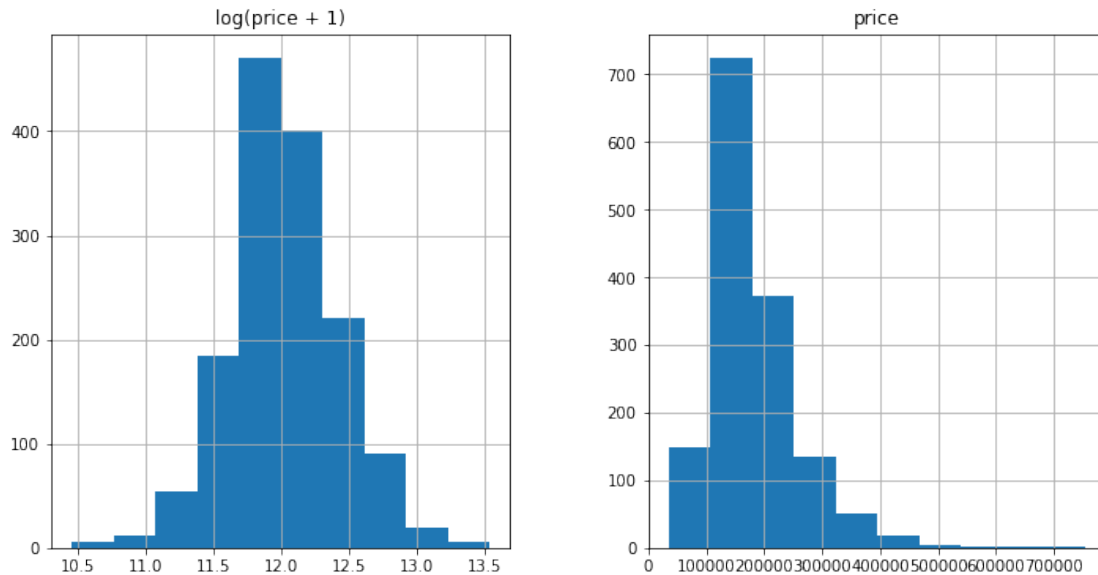
In [26]: *#On concatene es données d'entrainement et de test*

```
all_data = pd.concat((train.loc[:, 'MSSubClass': 'SaleCondition'],
                      test.loc[:, 'MSSubClass': 'SaleCondition']))
```

In [27]: matplotlib.rcParams['figure.figsize'] = (12.0, 6.0)

```
prices = pd.DataFrame({"price":train["SalePrice"], "log(price + 1)":np.log1p(train["S
prices.hist()
```

Out[27]: array([[<matplotlib.axes.\_subplots.AxesSubplot object at 0x7fbbd93b7a20>,  
<matplotlib.axes.\_subplots.AxesSubplot object at 0x7fbbd935b2b0>]],  
dtype=object)



```
In [28]: #log transform the target:
train["SalePrice"] = np.log1p(train["SalePrice"])

#log transform skewed numeric features:
numeric_feats = all_data.dtypes[all_data.dtypes != "object"].index

skewed_feats = train[numeric_feats].apply(lambda x: skew(x.dropna())) #compute skewness
skewed_feats = skewed_feats[skewed_feats > 0.75]
skewed_feats = skewed_feats.index

all_data[skewed_feats] = np.log1p(all_data[skewed_feats])
```

```
In [29]: all_data = pd.get_dummies(all_data)
```

```
In [30]: all_data
```

```
Out[30]:
```

	MSSubClass	LotFrontage	LotArea	OverallQual	OverallCond	YearBuilt	\
0	4.110874	4.189655	9.042040	7	5	2003	
1	3.044522	4.394449	9.169623	6	8	1976	
2	4.110874	4.234107	9.328212	7	5	2001	
3	4.262680	4.110874	9.164401	7	5	1915	
4	4.110874	4.442651	9.565284	8	5	2000	
5	3.931826	4.454347	9.555064	5	5	1993	
6	3.044522	4.330733	9.218804	8	5	2004	
7	4.110874	NaN	9.247925	7	6	1973	
8	3.931826	3.951244	8.719481	7	5	1931	
9	5.252273	3.931826	8.912069	5	6	1939	
10	3.044522	4.262680	9.323758	5	5	1965	

11	4.110874	4.454347	9.386392	9	5	2005
12	3.044522	NaN	9.470317	5	6	1962
13	3.044522	4.521789	9.273597	7	5	2006
14	3.044522	NaN	9.298443	6	5	1960
15	3.828641	3.951244	8.719481	7	8	1929
16	3.044522	NaN	9.327412	6	7	1970
17	4.510860	4.290459	9.286560	4	5	1967
18	3.044522	4.204693	9.524859	5	5	2004
19	3.044522	4.262680	8.930759	5	6	1958
20	4.110874	4.624973	9.562123	8	5	2005
21	3.828641	4.060443	8.915969	7	7	1930
22	3.044522	4.330733	9.184304	8	5	2002
23	4.795791	3.806662	8.348775	5	7	1976
24	3.044522	NaN	9.017605	5	8	1968
25	3.044522	4.709530	9.563178	8	5	2007
26	3.044522	4.110874	8.881975	5	7	1951
27	3.044522	4.595120	9.348275	8	5	2007
28	3.044522	3.871201	9.700269	5	6	1957
29	3.433987	4.110874	8.752265	4	6	1927
...	...	...	...	...	...	...
1429	3.433987	3.931826	8.858084	4	6	1925
1430	3.931826	4.330733	9.111735	6	5	1957
1431	3.433987	4.248495	9.422787	3	5	1945
1432	5.252273	3.931826	9.105091	5	6	1951
1433	3.931826	4.110874	9.050289	3	5	1916
1434	4.795791	3.737670	8.656781	8	5	2005
1435	4.795791	3.806662	8.254009	8	5	2004
1436	3.044522	4.248495	10.068197	6	6	1979
1437	4.510860	4.189655	9.034319	6	5	1978
1438	3.044522	4.262680	9.117896	8	5	2001
1439	4.394449	4.948760	9.312987	6	6	1975
1440	3.044522	NaN	10.821836	6	5	1958
1441	3.044522	NaN	8.999496	6	5	2000
1442	3.044522	4.564348	9.519221	8	5	2005
1443	3.044522	4.488636	9.356862	9	5	2005
1444	3.044522	4.836282	10.349807	1	3	1951
1445	4.510860	4.369448	8.856661	7	5	1997
1446	5.081404	3.737670	7.888335	5	6	1977
1447	3.044522	4.077537	9.227492	5	7	1968
1448	4.510860	NaN	9.378985	5	5	1970
1449	5.198497	3.091042	7.293698	4	6	1970
1450	5.081404	3.091042	7.303170	4	4	1972
1451	3.044522	4.394449	9.501890	5	5	1969
1452	5.081404	3.091042	7.335634	4	5	1970
1453	5.081404	3.091042	7.331060	4	5	1970
1454	5.081404	3.091042	7.568896	4	7	1970
1455	5.081404	3.091042	7.546974	4	5	1970
1456	3.044522	5.081404	9.903538	5	7	1960

1457	4.454347	4.143135	9.253591	5	5	1992
1458	4.110874	4.317488	9.172431	7	5	1993

	YearRemodAdd	MasVnrArea	BsmtFinSF1	BsmtFinSF2	BsmtUnfSF	\
0	2003	5.283204	6.561031	0.000000	5.017280	
1	1976	0.000000	6.886532	0.000000	5.652489	
2	2002	5.093750	6.188264	0.000000	6.075346	
3	1970	0.000000	5.379897	0.000000	6.293419	
4	2000	5.860786	6.486161	0.000000	6.196444	
5	1995	0.000000	6.597146	0.000000	4.174387	
6	2005	5.231109	7.222566	0.000000	5.762051	
7	1973	5.484797	6.756932	3.496508	5.379897	
8	1950	0.000000	0.000000	0.000000	6.859615	
9	1950	0.000000	6.747587	0.000000	4.948760	
10	1965	0.000000	6.810142	0.000000	4.905275	
11	2006	5.659482	6.906755	0.000000	5.181784	
12	1962	0.000000	6.603944	0.000000	5.170484	
13	2007	5.726848	0.000000	0.000000	7.309881	
14	1960	5.361292	6.598509	0.000000	6.255750	
15	2001	0.000000	0.000000	0.000000	6.725034	
16	1970	5.198497	6.361302	0.000000	6.056784	
17	1967	0.000000	0.000000	0.000000	0.000000	
18	2004	0.000000	6.472346	0.000000	6.150603	
19	1965	0.000000	6.224558	0.000000	6.265301	
20	2006	5.942799	0.000000	0.000000	7.055313	
21	1950	0.000000	0.000000	0.000000	6.458338	
22	2002	5.641907	0.000000	0.000000	7.483244	
23	1976	0.000000	6.734592	0.000000	5.303305	
24	2001	0.000000	5.241747	6.505784	5.323010	
25	2007	6.463029	0.000000	0.000000	7.356918	
26	2000	0.000000	5.459586	6.188264	5.198497	
27	2008	5.303305	7.105786	0.000000	6.188264	
28	1997	0.000000	7.153052	0.000000	5.337538	
29	1950	0.000000	0.000000	0.000000	6.255750	
...	...	...	...	...	...	
1429	1950	0.000000	0.000000	0.000000	6.464588	
1430	1957	5.793014	0.000000	0.000000	6.875232	
1431	1950	0.000000	0.000000	0.000000	0.000000	
1432	1951	0.000000	0.000000	0.000000	6.493754	
1433	1950	0.000000	0.000000	0.000000	5.379897	
1434	2006	6.161207	7.361375	0.000000	0.000000	
1435	2005	5.231109	7.355641	0.000000	3.433987	
1436	1979	0.000000	6.655440	0.000000	6.745236	
1437	1978	0.000000	0.000000	0.000000	7.417580	
1438	2001	0.000000	0.000000	0.000000	7.307873	
1439	1975	5.552960	6.357842	0.000000	6.315358	
1440	1958	0.000000	6.813445	0.000000	6.584791	
1441	2000	0.000000	7.036148	4.762174	4.867534	



1442	2006	5.293305	7.208600	0.000000	5.937536
1443	2006	5.948035	7.283448	0.000000	5.950643
1444	1951	0.000000	0.000000	0.000000	0.000000
1445	1997	5.303305	7.126087	0.000000	3.828641
1446	1977	0.000000	0.000000	0.000000	5.579730
1447	2003	0.000000	6.091310	0.000000	6.049733
1448	1970	0.000000	5.010635	0.000000	7.315884
1449	1970	0.000000	6.259581	0.000000	4.691348
1450	1972	0.000000	5.533389	0.000000	5.686975
1451	1979	5.273000	4.787492	5.843544	6.464588
1452	1970	0.000000	6.013715	0.000000	4.934474
1453	1970	0.000000	0.000000	0.000000	6.304449
1454	1970	0.000000	0.000000	0.000000	6.304449
1455	1970	0.000000	5.533389	0.000000	5.686975
1456	1996	0.000000	7.110696	0.000000	0.000000
1457	1992	0.000000	5.823046	0.000000	6.356108
1458	1994	4.553877	6.632002	0.000000	5.476464

	TotalBsmtSF	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath \
0	6.753438	6.753438	6.751101	0.0	7.444833	1.0
1	7.141245	7.141245	0.000000	0.0	7.141245	0.0
2	6.825460	6.825460	6.765039	0.0	7.488294	1.0
3	6.629363	6.869014	6.629363	0.0	7.448916	1.0
4	7.044033	7.044033	6.960348	0.0	7.695758	1.0
5	6.680855	6.680855	6.340359	0.0	7.217443	1.0
6	7.430707	7.435438	0.000000	0.0	7.435438	1.0
7	7.010312	7.010312	6.891626	0.0	7.645398	1.0
8	6.859615	6.930495	6.624065	0.0	7.481556	0.0
9	6.899723	6.982863	0.000000	0.0	6.982863	1.0
10	6.947937	6.947937	0.000000	0.0	6.947937	1.0
11	7.069874	7.075809	7.041412	0.0	7.751475	1.0
12	6.816736	6.816736	0.000000	0.0	6.816736	1.0
13	7.309881	7.309881	0.000000	0.0	7.309881	0.0
14	7.134094	7.134094	0.000000	0.0	7.134094	1.0
15	6.725034	6.751101	0.000000	0.0	6.751101	0.0
16	6.912743	6.912743	0.000000	0.0	6.912743	1.0
17	0.000000	7.167809	0.000000	0.0	7.167809	0.0
18	7.016610	7.016610	0.000000	0.0	7.016610	1.0
19	6.937314	7.200425	0.000000	0.0	7.200425	0.0
20	7.055313	7.055313	7.105786	0.0	7.773594	0.0
21	6.458338	7.011214	0.000000	0.0	7.011214	0.0
22	7.483244	7.493317	0.000000	0.0	7.493317	0.0
23	6.947937	6.966967	0.000000	0.0	6.966967	1.0
24	6.966967	6.966967	0.000000	0.0	6.966967	1.0
25	7.356918	7.378384	0.000000	0.0	7.378384	0.0
26	6.803505	6.803505	0.000000	0.0	6.803505	0.0
27	7.441320	7.441320	0.000000	0.0	7.441320	1.0
28	7.303170	7.378384	0.000000	0.0	7.378384	1.0

29	6.255750	6.255750	0.000000	0.0	6.255750	0.0
...	...	...	...	...	...	...
1429	6.464588	6.464588	0.000000	0.0	6.464588	0.0
1430	6.875232	6.875232	6.510258	0.0	7.401842	0.0
1431	0.000000	6.593045	0.000000	0.0	6.593045	0.0
1432	6.493754	6.966967	5.820083	0.0	7.242082	0.0
1433	5.379897	6.357842	5.888878	0.0	6.842683	0.0
1434	7.361375	7.483807	0.000000	0.0	7.483807	2.0
1435	7.374629	7.406711	0.000000	0.0	7.406711	1.0
1436	7.393878	7.393878	0.000000	0.0	7.393878	0.0
1437	7.417580	7.417580	0.000000	0.0	7.417580	0.0
1438	7.307873	7.307873	0.000000	0.0	7.307873	0.0
1439	7.029088	7.099202	0.000000	0.0	7.099202	1.0
1440	7.398174	7.409136	0.000000	0.0	7.409136	1.0
1441	7.231287	7.247081	0.000000	0.0	7.247081	1.0
1442	7.455298	7.581210	0.000000	0.0	7.581210	1.0
1443	7.516977	7.516977	0.000000	0.0	7.516977	1.0
1444	0.000000	7.378384	0.000000	0.0	7.378384	0.0
1445	7.161622	7.221836	0.000000	0.0	7.221836	2.0
1446	5.579730	6.424869	6.535241	0.0	7.173958	0.0
1447	6.762730	6.774224	0.000000	0.0	6.774224	1.0
1448	7.410347	7.410347	0.000000	0.0	7.410347	0.0
1449	6.447306	6.447306	0.000000	0.0	6.447306	1.0
1450	6.304449	6.304449	6.304449	0.0	6.996681	0.0
1451	7.007601	7.215975	0.000000	0.0	7.215975	1.0
1452	6.304449	6.304449	6.304449	0.0	6.996681	0.0
1453	6.304449	6.304449	6.304449	0.0	6.996681	0.0
1454	6.304449	6.304449	6.304449	0.0	6.996681	0.0
1455	6.304449	6.304449	6.304449	0.0	6.996681	0.0
1456	7.110696	7.110696	0.000000	0.0	7.110696	1.0
1457	6.816736	6.878326	0.000000	0.0	6.878326	0.0
1458	6.904751	6.904751	6.912743	0.0	7.601402	0.0

	BsmtHalfBath	FullBath	HalfBath	BedroomAbvGr	KitchenAbvGr	\
0	0.000000	2	1	3	0.693147	
1	0.693147	2	0	3	0.693147	
2	0.000000	2	1	3	0.693147	
3	0.000000	1	0	3	0.693147	
4	0.000000	2	1	4	0.693147	
5	0.000000	1	1	1	0.693147	
6	0.000000	2	0	3	0.693147	
7	0.000000	2	1	3	0.693147	
8	0.000000	2	0	2	1.098612	
9	0.000000	1	0	2	1.098612	
10	0.000000	1	0	3	0.693147	
11	0.000000	3	0	4	0.693147	
12	0.000000	1	0	2	0.693147	
13	0.000000	2	0	3	0.693147	

14	0.000000	1	1	2	0.693147
15	0.000000	1	0	2	0.693147
16	0.000000	1	0	2	0.693147
17	0.000000	2	0	2	1.098612
18	0.000000	1	1	3	0.693147
19	0.000000	1	0	3	0.693147
20	0.000000	3	1	4	0.693147
21	0.000000	1	0	3	0.693147
22	0.000000	2	0	3	0.693147
23	0.000000	1	0	3	0.693147
24	0.000000	1	0	3	0.693147
25	0.000000	2	0	3	0.693147
26	0.693147	1	0	3	0.693147
27	0.000000	2	0	3	0.693147
28	0.000000	1	0	2	0.693147
29	0.000000	1	0	1	0.693147
...	...	...	...	...	...
1429	0.000000	1	0	2	0.693147
1430	0.000000	2	0	4	0.693147
1431	0.000000	1	0	2	0.693147
1432	0.000000	2	0	4	1.098612
1433	0.000000	1	0	2	0.693147
1434	0.000000	2	0	2	0.693147
1435	0.693147	2	0	2	0.693147
1436	0.693147	2	0	3	0.693147
1437	0.000000	2	0	4	1.098612
1438	0.000000	2	0	3	0.693147
1439	0.000000	2	0	3	0.693147
1440	0.000000	1	0	2	0.693147
1441	0.000000	2	0	2	0.693147
1442	0.000000	2	0	3	0.693147
1443	0.000000	2	0	3	0.693147
1444	0.000000	1	1	3	0.693147
1445	0.000000	2	0	2	1.098612
1446	0.000000	1	1	3	0.693147
1447	0.000000	1	0	3	0.693147
1448	0.000000	2	0	4	1.098612
1449	0.000000	1	0	1	0.693147
1450	0.000000	1	1	3	0.693147
1451	0.000000	1	0	3	0.693147
1452	0.000000	1	1	3	0.693147
1453	0.000000	1	1	3	0.693147
1454	0.000000	1	1	3	0.693147
1455	0.000000	1	1	3	0.693147
1456	0.000000	1	0	4	0.693147
1457	0.693147	1	0	3	0.693147
1458	0.000000	2	1	3	0.693147

	TotRmsAbvGrd	Fireplaces	GarageYrBlt	GarageCars	GarageArea	\
0	8	0	2003.0	2.0	548.0	
1	6	1	1976.0	2.0	460.0	
2	6	1	2001.0	2.0	608.0	
3	7	1	1998.0	3.0	642.0	
4	9	1	2000.0	3.0	836.0	
5	5	0	1993.0	2.0	480.0	
6	7	1	2004.0	2.0	636.0	
7	7	2	1973.0	2.0	484.0	
8	8	2	1931.0	2.0	468.0	
9	5	2	1939.0	1.0	205.0	
10	5	0	1965.0	1.0	384.0	
11	11	2	2005.0	3.0	736.0	
12	4	0	1962.0	1.0	352.0	
13	7	1	2006.0	3.0	840.0	
14	5	1	1960.0	1.0	352.0	
15	5	0	1991.0	2.0	576.0	
16	5	1	1970.0	2.0	480.0	
17	6	0	1967.0	2.0	516.0	
18	6	0	2004.0	2.0	576.0	
19	6	0	1958.0	1.0	294.0	
20	9	1	2005.0	3.0	853.0	
21	6	1	1930.0	1.0	280.0	
22	7	1	2002.0	2.0	534.0	
23	6	1	1976.0	2.0	572.0	
24	6	1	1968.0	1.0	270.0	
25	7	1	2007.0	3.0	890.0	
26	5	0	2005.0	2.0	576.0	
27	7	1	2008.0	3.0	772.0	
28	6	2	1957.0	1.0	319.0	
29	4	0	1920.0	1.0	240.0	
...	...	...	...	...	...	
1429	4	0	1925.0	1.0	272.0	
1430	6	0	1957.0	1.0	384.0	
1431	5	0	NaN	0.0	0.0	
1432	8	0	NaN	0.0	0.0	
1433	6	0	NaN	0.0	0.0	
1434	5	1	2005.0	2.0	495.0	
1435	5	1	2004.0	2.0	525.0	
1436	6	1	1979.0	2.0	576.0	
1437	10	0	1978.0	2.0	616.0	
1438	7	0	2001.0	2.0	490.0	
1439	6	0	1975.0	2.0	528.0	
1440	6	2	1958.0	2.0	518.0	
1441	5	0	2000.0	2.0	470.0	
1442	8	2	2005.0	3.0	714.0	
1443	9	1	2005.0	3.0	682.0	
1444	6	0	1951.0	1.0	270.0	

1445	8	0	1997.0	4.0	784.0
1446	5	1	1977.0	1.0	336.0
1447	5	0	1968.0	1.0	288.0
1448	8	0	1970.0	3.0	928.0
1449	3	0	NaN	0.0	0.0
1450	5	0	1972.0	1.0	253.0
1451	8	1	1969.0	1.0	336.0
1452	5	0	1970.0	1.0	286.0
1453	5	0	NaN	0.0	0.0
1454	5	0	NaN	0.0	0.0
1455	6	0	1970.0	1.0	286.0
1456	7	1	1960.0	2.0	576.0
1457	6	0	NaN	0.0	0.0
1458	9	1	1993.0	3.0	650.0

	WoodDeckSF	OpenPorchSF	EnclosedPorch	3SsnPorch	ScreenPorch	\
0	0.000000	4.127134	0.000000	0.000000	0.000000	
1	5.700444	0.000000	0.000000	0.000000	0.000000	
2	0.000000	3.761200	0.000000	0.000000	0.000000	
3	0.000000	3.583519	5.609472	0.000000	0.000000	
4	5.262690	4.442651	0.000000	0.000000	0.000000	
5	3.713572	3.433987	0.000000	5.771441	0.000000	
6	5.545177	4.060443	0.000000	0.000000	0.000000	
7	5.463832	5.323010	5.433722	0.000000	0.000000	
8	4.510860	0.000000	5.327876	0.000000	0.000000	
9	0.000000	1.609438	0.000000	0.000000	0.000000	
10	0.000000	0.000000	0.000000	0.000000	0.000000	
11	4.997212	3.091042	0.000000	0.000000	0.000000	
12	4.948760	0.000000	0.000000	0.000000	5.176150	
13	5.081404	3.526361	0.000000	0.000000	0.000000	
14	0.000000	5.365976	5.176150	0.000000	0.000000	
15	3.891820	4.727388	0.000000	0.000000	0.000000	
16	0.000000	0.000000	0.000000	0.000000	0.000000	
17	0.000000	0.000000	0.000000	0.000000	0.000000	
18	0.000000	4.634729	0.000000	0.000000	0.000000	
19	0.000000	0.000000	0.000000	0.000000	0.000000	
20	5.484797	5.043425	0.000000	0.000000	0.000000	
21	0.000000	0.000000	5.327876	0.000000	0.000000	
22	5.147494	5.075174	0.000000	0.000000	0.000000	
23	4.615121	4.709530	0.000000	0.000000	0.000000	
24	6.008813	4.510860	0.000000	0.000000	0.000000	
25	0.000000	4.043051	0.000000	0.000000	0.000000	
26	5.407172	3.496508	0.000000	0.000000	0.000000	
27	0.000000	3.931826	0.000000	0.000000	0.000000	
28	5.666427	5.556828	0.000000	0.000000	0.000000	
29	3.912023	0.000000	4.477337	0.000000	0.000000	
...	...	...	...	...	...	
1429	5.220356	0.000000	4.262680	0.000000	0.000000	

1430	0.000000	3.091042	0.000000	0.000000	0.000000
1431	0.000000	0.000000	3.178054	0.000000	0.000000
1432	0.000000	0.000000	0.000000	0.000000	0.000000
1433	0.000000	0.000000	0.000000	0.000000	0.000000
1434	4.820282	3.988984	0.000000	0.000000	5.036953
1435	4.859812	3.988984	0.000000	0.000000	5.049856
1436	4.919981	3.367296	0.000000	0.000000	0.000000
1437	0.000000	0.000000	0.000000	0.000000	0.000000
1438	4.795791	4.615121	0.000000	0.000000	0.000000
1439	0.000000	0.000000	0.000000	0.000000	0.000000
1440	0.000000	0.000000	0.000000	0.000000	4.934474
1441	0.000000	5.159055	0.000000	0.000000	0.000000
1442	5.153292	3.663562	0.000000	0.000000	0.000000
1443	5.087596	5.420535	0.000000	0.000000	0.000000
1444	0.000000	0.000000	4.912655	0.000000	0.000000
1445	0.000000	3.891820	0.000000	0.000000	0.000000
1446	4.955827	0.000000	0.000000	0.000000	0.000000
1447	0.000000	4.795791	0.000000	0.000000	0.000000
1448	0.000000	0.000000	0.000000	0.000000	0.000000
1449	0.000000	0.000000	0.000000	0.000000	0.000000
1450	0.000000	0.000000	0.000000	0.000000	0.000000
1451	5.081404	0.000000	0.000000	0.000000	0.000000
1452	0.000000	0.000000	0.000000	0.000000	0.000000
1453	0.000000	3.555348	0.000000	0.000000	0.000000
1454	0.000000	0.000000	0.000000	0.000000	0.000000
1455	0.000000	3.218876	0.000000	0.000000	0.000000
1456	6.163315	0.000000	0.000000	0.000000	0.000000
1457	4.394449	3.496508	0.000000	0.000000	0.000000
1458	5.252273	3.891820	0.000000	0.000000	0.000000

	PoolArea	MiscVal	MoSold	YrSold	MSZoning_C (all)	MSZoning_FV \
0	0.0	0.000000	2	2008	0	0
1	0.0	0.000000	5	2007	0	0
2	0.0	0.000000	9	2008	0	0
3	0.0	0.000000	2	2006	0	0
4	0.0	0.000000	12	2008	0	0
5	0.0	6.552508	10	2009	0	0
6	0.0	0.000000	8	2007	0	0
7	0.0	5.860786	11	2009	0	0
8	0.0	0.000000	4	2008	0	0
9	0.0	0.000000	1	2008	0	0
10	0.0	0.000000	2	2008	0	0
11	0.0	0.000000	7	2006	0	0
12	0.0	0.000000	9	2008	0	0
13	0.0	0.000000	8	2007	0	0
14	0.0	0.000000	5	2008	0	0
15	0.0	0.000000	7	2007	0	0
16	0.0	6.552508	3	2010	0	0

17	0.0	6.216606	10	2006	0	0
18	0.0	0.000000	6	2008	0	0
19	0.0	0.000000	5	2009	0	0
20	0.0	0.000000	11	2006	0	0
21	0.0	0.000000	6	2007	0	0
22	0.0	0.000000	9	2008	0	0
23	0.0	0.000000	6	2007	0	0
24	0.0	0.000000	5	2010	0	0
25	0.0	0.000000	7	2009	0	0
26	0.0	0.000000	5	2010	0	0
27	0.0	0.000000	5	2010	0	0
28	0.0	0.000000	12	2006	0	0
29	0.0	0.000000	5	2008	0	0
...	...	...	...	...	...	...
1429	0.0	0.000000	3	2006	0	0
1430	0.0	0.000000	4	2006	0	0
1431	0.0	0.000000	10	2006	1	0
1432	0.0	0.000000	10	2006	1	0
1433	0.0	0.000000	4	2006	1	0
1434	0.0	0.000000	2	2006	0	0
1435	0.0	0.000000	12	2006	0	0
1436	0.0	0.000000	9	2006	0	0
1437	0.0	0.000000	10	2006	0	0
1438	0.0	0.000000	5	2006	0	0
1439	0.0	0.000000	5	2006	0	0
1440	0.0	0.000000	3	2006	0	0
1441	0.0	0.000000	10	2006	0	0
1442	0.0	0.000000	11	2006	0	0
1443	0.0	0.000000	9	2006	0	0
1444	0.0	0.000000	5	2006	0	0
1445	0.0	0.000000	11	2006	0	0
1446	0.0	0.000000	5	2006	0	0
1447	0.0	0.000000	10	2006	0	0
1448	0.0	0.000000	3	2006	0	0
1449	0.0	0.000000	4	2006	0	0
1450	0.0	0.000000	5	2006	0	0
1451	0.0	0.000000	5	2006	0	0
1452	0.0	0.000000	12	2006	0	0
1453	0.0	0.000000	6	2006	0	0
1454	0.0	0.000000	6	2006	0	0
1455	0.0	0.000000	4	2006	0	0
1456	0.0	0.000000	9	2006	0	0
1457	0.0	6.552508	7	2006	0	0
1458	0.0	0.000000	11	2006	0	0

	MSZoning_RH	MSZoning_RL	MSZoning_RM	Street_Grvl	Street_Pave	\
0	0	1	0	0	1	
1	0	1	0	0	1	

2	0	1	0	0	1
3	0	1	0	0	1
4	0	1	0	0	1
5	0	1	0	0	1
6	0	1	0	0	1
7	0	1	0	0	1
8	0	0	1	0	1
9	0	1	0	0	1
10	0	1	0	0	1
11	0	1	0	0	1
12	0	1	0	0	1
13	0	1	0	0	1
14	0	1	0	0	1
15	0	0	1	0	1
16	0	1	0	0	1
17	0	1	0	0	1
18	0	1	0	0	1
19	0	1	0	0	1
20	0	1	0	0	1
21	0	0	1	0	1
22	0	1	0	0	1
23	0	0	1	0	1
24	0	1	0	0	1
25	0	1	0	0	1
26	0	1	0	0	1
27	0	1	0	0	1
28	0	1	0	0	1
29	0	0	1	0	1
...	...	...	...	...	...
1429	0	0	1	0	1
1430	0	0	1	0	1
1431	0	0	0	0	1
1432	0	0	0	0	1
1433	0	0	0	1	0
1434	0	0	1	0	1
1435	0	0	1	0	1
1436	0	1	0	0	1
1437	0	1	0	0	1
1438	0	1	0	0	1
1439	0	1	0	0	1
1440	0	1	0	0	1
1441	0	1	0	0	1
1442	0	1	0	0	1
1443	0	1	0	0	1
1444	0	0	0	0	1
1445	0	0	1	0	1
1446	0	0	1	0	1
1447	0	1	0	0	1



1448	0	1	0	0	1
1449	0	0	1	0	1
1450	0	0	1	0	1
1451	0	1	0	0	1
1452	0	0	1	0	1
1453	0	0	1	0	1
1454	0	0	1	0	1
1455	0	0	1	0	1
1456	0	1	0	0	1
1457	0	1	0	0	1
1458	0	1	0	0	1

	Alley_Grvl	Alley_Pave	LotShape_IR1	LotShape_IR2	LotShape_IR3	\
0	0	0	0	0	0	
1	0	0	0	0	0	
2	0	0	1	0	0	
3	0	0	1	0	0	
4	0	0	1	0	0	
5	0	0	1	0	0	
6	0	0	0	0	0	
7	0	0	1	0	0	
8	0	0	0	0	0	
9	0	0	0	0	0	
10	0	0	0	0	0	
11	0	0	1	0	0	
12	0	0	0	1	0	
13	0	0	1	0	0	
14	0	0	1	0	0	
15	0	0	0	0	0	
16	0	0	1	0	0	
17	0	0	0	0	0	
18	0	0	0	0	0	
19	0	0	0	0	0	
20	0	0	1	0	0	
21	1	0	0	0	0	
22	0	0	0	0	0	
23	0	0	0	0	0	
24	0	0	1	0	0	
25	0	0	0	0	0	
26	0	0	0	0	0	
27	0	0	0	0	0	
28	0	0	1	0	0	
29	0	0	1	0	0	
...	...	...	...	...	...	
1429	0	0	0	0	0	
1430	0	0	0	0	0	
1431	0	0	0	0	0	
1432	0	0	0	0	0	

1433	0	0	0	0	0
1434	0	0	1	0	0
1435	0	0	1	0	0
1436	0	0	1	0	0
1437	0	0	0	0	0
1438	0	0	0	0	0
1439	0	0	0	0	0
1440	0	0	1	0	0
1441	0	0	1	0	0
1442	0	0	0	0	0
1443	0	0	0	0	0
1444	0	0	0	0	0
1445	0	0	0	0	0
1446	0	0	0	0	0
1447	0	0	1	0	0
1448	0	0	1	0	0
1449	0	0	0	0	0
1450	0	0	0	0	0
1451	0	0	0	0	0
1452	0	0	0	0	0
1453	0	0	0	0	0
1454	0	0	0	0	0
1455	0	0	0	0	0
1456	0	0	0	0	0
1457	0	0	0	0	0
1458	0	0	0	0	0

	LotShape_Reg	LandContour_Bnk	LandContour_HLS	LandContour_Low	\
0	1	0	0	0	
1	1	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	1	0	0	0	
7	0	0	0	0	
8	1	0	0	0	
9	1	0	0	0	
10	1	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	1	0	0	0	
16	0	0	0	0	
17	1	0	0	0	
18	1	0	0	0	
19	1	0	0	0	

20	0	0	0	0
21	1	1	0	0
22	1	0	0	0
23	1	0	0	0
24	0	0	0	0
25	1	0	0	0
26	1	0	0	0
27	1	0	0	0
28	0	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	1	0	0	0
1430	1	0	0	0
1431	1	0	0	0
1432	1	0	0	0
1433	1	1	0	0
1434	0	0	1	0
1435	0	0	1	0
1436	0	0	0	0
1437	1	0	0	0
1438	1	0	0	0
1439	1	0	0	0
1440	0	0	0	1
1441	0	0	0	0
1442	1	0	0	0
1443	1	0	0	0
1444	1	0	0	0
1445	1	0	0	0
1446	1	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	1	0	0	0
1450	1	0	0	0
1451	1	0	0	0
1452	1	0	0	0
1453	1	0	0	0
1454	1	0	0	0
1455	1	0	0	0
1456	1	0	0	0
1457	1	0	0	0
1458	1	0	0	0

	LandContour_Lvl	Utilities_AllPub	Utilities_NoSeWa	LotConfig_Corner	\
0	1	1	0	0	
1	1	1	0	0	
2	1	1	0	0	
3	1	1	0	1	
4	1	1	0	0	

5	1	1	0	0
6	1	1	0	0
7	1	1	0	1
8	1	1	0	0
9	1	1	0	1
10	1	1	0	0
11	1	1	0	0
12	1	1	0	0
13	1	1	0	0
14	1	1	0	1
15	1	1	0	1
16	1	1	0	0
17	1	1	0	0
18	1	1	0	0
19	1	1	0	0
20	1	1	0	1
21	0	1	0	0
22	1	1	0	0
23	1	1	0	0
24	1	1	0	0
25	1	1	0	1
26	1	1	0	1
27	1	1	0	0
28	1	1	0	0
29	1	1	0	0
...	...	...	...	...
1429	1	1	0	0
1430	1	1	0	0
1431	1	1	0	0
1432	1	1	0	0
1433	0	1	0	0
1434	0	1	0	0
1435	0	1	0	0
1436	1	1	0	0
1437	1	1	0	0
1438	1	1	0	1
1439	1	1	0	1
1440	0	1	0	0
1441	1	1	0	0
1442	1	1	0	1
1443	1	1	0	0
1444	1	1	0	0
1445	1	1	0	0
1446	1	1	0	0
1447	1	1	0	0
1448	1	1	0	1
1449	1	1	0	0
1450	1	1	0	0

1451	1	1	0	0
1452	1	1	0	0
1453	1	1	0	0
1454	1	1	0	0
1455	1	1	0	0
1456	1	1	0	0
1457	1	1	0	0
1458	1	1	0	0

	LotConfig_CulDSac	LotConfig_FR2	LotConfig_FR3	LotConfig_Inside	\
0	0	0	0	1	
1	0	1	0	0	
2	0	0	0	1	
3	0	0	0	0	
4	0	1	0	0	
5	0	0	0	1	
6	0	0	0	1	
7	0	0	0	0	
8	0	0	0	1	
9	0	0	0	0	
10	0	0	0	1	
11	0	0	0	1	
12	0	0	0	1	
13	0	0	0	1	
14	0	0	0	0	
15	0	0	0	0	
16	1	0	0	0	
17	0	0	0	1	
18	0	0	0	1	
19	0	0	0	1	
20	0	0	0	0	
21	0	0	0	1	
22	0	0	0	1	
23	0	0	0	1	
24	0	0	0	1	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	1	
28	1	0	0	0	
29	0	0	0	1	
...	...	...	...	...	
1429	0	0	0	1	
1430	0	0	0	1	
1431	0	0	0	1	
1432	0	0	0	1	
1433	0	0	0	1	
1434	0	0	0	1	
1435	0	0	0	1	

1436	0	0	0	1
1437	0	0	0	1
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	0	1
1441	0	0	0	1
1442	0	0	0	0
1443	0	0	0	1
1444	0	0	0	1
1445	0	0	0	1
1446	0	0	0	1
1447	0	0	0	1
1448	0	0	0	0
1449	0	0	0	1
1450	0	0	0	1
1451	0	0	0	1
1452	0	0	0	1
1453	0	0	0	1
1454	0	0	0	1
1455	0	0	0	1
1456	0	0	0	1
1457	0	0	0	1
1458	0	0	0	1

	LandSlope_Gtl	LandSlope_Mod	LandSlope_Sev	Neighborhood_Blmngtn	\
0	1	0	0	0	
1	1	0	0	0	
2	1	0	0	0	
3	1	0	0	0	
4	1	0	0	0	
5	1	0	0	0	
6	1	0	0	0	
7	1	0	0	0	
8	1	0	0	0	
9	1	0	0	0	
10	1	0	0	0	
11	1	0	0	0	
12	1	0	0	0	
13	1	0	0	0	
14	1	0	0	0	
15	1	0	0	0	
16	1	0	0	0	
17	1	0	0	0	
18	1	0	0	0	
19	1	0	0	0	
20	1	0	0	0	
21	1	0	0	0	
22	1	0	0	0	

23	1	0	0	0
24	1	0	0	0
25	1	0	0	0
26	1	0	0	0
27	1	0	0	0
28	1	0	0	0
29	1	0	0	0
...	...	...	...	...
1429	1	0	0	0
1430	1	0	0	0
1431	1	0	0	0
1432	1	0	0	0
1433	1	0	0	0
1434	0	1	0	0
1435	0	1	0	0
1436	0	1	0	0
1437	1	0	0	0
1438	1	0	0	0
1439	1	0	0	0
1440	0	1	0	0
1441	1	0	0	0
1442	1	0	0	0
1443	1	0	0	0
1444	1	0	0	0
1445	1	0	0	0
1446	1	0	0	0
1447	1	0	0	0
1448	1	0	0	0
1449	1	0	0	0
1450	1	0	0	0
1451	0	1	0	0
1452	1	0	0	0
1453	1	0	0	0
1454	1	0	0	0
1455	1	0	0	0
1456	1	0	0	0
1457	1	0	0	0
1458	0	1	0	0

	Neighborhood_Blueste	Neighborhood_BrDale	Neighborhood_BrkSide	\
0	0	0	0	
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	

8	0	0	0
9	0	0	1
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	1
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	1
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0



1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Neighborhood_ClearCr	Neighborhood_CollgCr	Neighborhood_Crawfor	\
0	0	1	0	
1	0	0	0	
2	0	1	0	
3	0	0	1	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	0	0	
9	0	0	0	
10	0	0	0	
11	0	0	0	
12	0	0	0	
13	0	1	0	
14	0	0	0	
15	0	0	0	
16	0	0	0	
17	0	0	0	
18	0	0	0	
19	0	0	0	
20	0	0	0	
21	0	0	0	
22	0	1	0	
23	0	0	0	
24	0	0	0	
25	0	0	0	
26	0	0	0	
27	0	0	0	
28	0	0	0	
29	0	0	0	
...	...	...	...	
1429	0	0	0	
1430	0	0	0	
1431	0	0	0	
1432	0	0	0	
1433	0	0	0	
1434	0	0	1	
1435	0	0	1	
1436	0	0	0	
1437	0	0	0	
1438	0	0	0	

1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Neighborhood_Edwards	Neighborhood_Gilbert	Neighborhood_IDOTRR \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	1
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0

26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	1
1430	0	0	1
1431	0	0	1
1432	0	0	1
1433	0	0	1
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Neighborhood_MeadowV	Neighborhood_Mitchel	Neighborhood_NAmes \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	1	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0

11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	1
15	0	0	0
16	0	0	1
17	0	0	0
18	0	0	0
19	0	0	1
20	0	0	0
21	0	0	0
22	0	0	0
23	1	0	0
24	0	0	0
25	0	0	0
26	0	0	1
27	0	0	0
28	0	0	1
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	1	0
1437	0	1	0
1438	0	1	0
1439	0	1	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	1	0
1445	0	1	0
1446	1	0	0
1447	0	1	0
1448	0	1	0
1449	1	0	0
1450	1	0	0
1451	0	1	0
1452	1	0	0
1453	1	0	0
1454	1	0	0
1455	1	0	0
1456	0	1	0

1457	0	1	0
1458	0	1	0
	Neighborhood_NPkVill	Neighborhood_NWAmes	Neighborhood_NoRidge \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	1
5	0	0	0
6	0	0	0
7	0	1	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0

1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Neighborhood_NridgHt	Neighborhood_OldTown	Neighborhood_SWISU	\
0	0	0	0	
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	1	0	
9	0	0	0	
10	0	0	0	
11	1	0	0	
12	0	0	0	
13	0	0	0	
14	0	0	0	
15	0	0	0	
16	0	0	0	
17	0	0	0	
18	0	0	0	
19	0	0	0	
20	1	0	0	
21	0	0	0	
22	0	0	0	
23	0	0	0	
24	0	0	0	
25	1	0	0	
26	0	0	0	
27	1	0	0	
28	0	0	0	

29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Neighborhood_Sawyer	Neighborhood_SawyerW	Neighborhood_Somerst \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	1
7	0	0	0
8	0	0	0
9	0	0	0
10	1	0	0
11	0	0	0
12	1	0	0
13	0	0	0

14	0	0	0
15	0	0	0
16	0	0	0
17	1	0	0
18	0	1	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	1	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0



	Neighborhood_StoneBr	Neighborhood_Timber	Neighborhood_Veenker	\
0	0	0	0	
1	0	0	1	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	0	0	
9	0	0	0	
10	0	0	0	
11	0	0	0	
12	0	0	0	
13	0	0	0	
14	0	0	0	
15	0	0	0	
16	0	0	0	
17	0	0	0	
18	0	0	0	
19	0	0	0	
20	0	0	0	
21	0	0	0	
22	0	0	0	
23	0	0	0	
24	0	0	0	
25	0	0	0	
26	0	0	0	
27	0	0	0	
28	0	0	0	
29	0	0	0	
...	...	...	...	
1429	0	0	0	
1430	0	0	0	
1431	0	0	0	
1432	0	0	0	
1433	0	0	0	
1434	0	0	0	
1435	0	0	0	
1436	0	0	0	
1437	0	0	0	
1438	0	0	0	
1439	0	0	0	
1440	0	1	0	
1441	0	1	0	
1442	0	1	0	
1443	0	1	0	
1444	0	0	0	

1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Condition1_Artery	Condition1_Feedr	Condition1_Norm	Condition1_PosA	\
0	0	0	1	0	
1	0	1	0	0	
2	0	0	1	0	
3	0	0	1	0	
4	0	0	1	0	
5	0	0	1	0	
6	0	0	1	0	
7	0	0	0	0	
8	1	0	0	0	
9	1	0	0	0	
10	0	0	1	0	
11	0	0	1	0	
12	0	0	1	0	
13	0	0	1	0	
14	0	0	1	0	
15	0	0	1	0	
16	0	0	1	0	
17	0	0	1	0	
18	0	0	0	0	
19	0	0	1	0	
20	0	0	1	0	
21	0	0	1	0	
22	0	0	1	0	
23	0	0	1	0	
24	0	0	1	0	
25	0	0	1	0	
26	0	0	1	0	
27	0	0	1	0	
28	0	0	1	0	
29	0	1	0	0	
...	...	...	...	...	
1429	0	0	1	0	

1430	0	0	1	0
1431	0	1	0	0
1432	0	0	1	0
1433	0	0	1	0
1434	0	0	1	0
1435	0	0	1	0
1436	0	0	1	0
1437	0	0	1	0
1438	0	0	1	0
1439	0	0	1	0
1440	0	0	1	0
1441	0	0	1	0
1442	0	0	1	0
1443	0	0	1	0
1444	1	0	0	0
1445	0	0	1	0
1446	0	0	1	0
1447	0	0	1	0
1448	0	0	1	0
1449	0	0	1	0
1450	0	0	1	0
1451	0	0	1	0
1452	0	0	1	0
1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	0
1457	0	0	1	0
1458	0	0	1	0

	Condition1_PosN	Condition1_RRAe	Condition1_RRAn	Condition1_RRNe	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	1	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	

17	0	0	0	0
18	0	1	0	0
19	0	0	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	0	0	0	0
25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	0	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	0	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0

	Condition1_RRNn	Condition2_Artery	Condition2_Feedr	Condition2_Norm	\
0	0	0	0	1	
1	0	0	0	1	

2	0	0	0	1
3	0	0	0	1
4	0	0	0	1
5	0	0	0	1
6	0	0	0	1
7	0	0	0	1
8	0	0	0	1
9	0	1	0	0
10	0	0	0	1
11	0	0	0	1
12	0	0	0	1
13	0	0	0	1
14	0	0	0	1
15	0	0	0	1
16	0	0	0	1
17	0	0	0	1
18	0	0	0	1
19	0	0	0	1
20	0	0	0	1
21	0	0	0	1
22	0	0	0	1
23	0	0	0	1
24	0	0	0	1
25	0	0	0	1
26	0	0	0	1
27	0	0	0	1
28	0	0	0	1
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	1
1430	0	0	0	1
1431	0	0	0	1
1432	0	0	0	1
1433	0	0	0	1
1434	0	0	0	1
1435	0	0	0	1
1436	0	0	0	1
1437	0	0	0	1
1438	0	0	0	1
1439	0	0	0	1
1440	0	0	0	1
1441	0	0	0	1
1442	0	0	0	1
1443	0	0	0	1
1444	0	0	0	1
1445	0	0	0	1
1446	0	0	0	1
1447	0	0	0	1

1448	0	0	0	1
1449	0	0	0	1
1450	0	0	0	1
1451	0	0	0	1
1452	0	0	0	1
1453	0	0	0	1
1454	0	0	0	1
1455	0	0	0	1
1456	0	0	0	1
1457	0	0	0	1
1458	0	0	0	1

	Condition2_PosA	Condition2_PosN	Condition2_RRAe	Condition2_RRAn	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
...	...	...	...	...	
1429	0	0	0	0	
1430	0	0	0	0	
1431	0	0	0	0	
1432	0	0	0	0	

1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	0	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	0	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0

	Condition2_RRn	BldgType_1Fam	BldgType_2fmCon	BldgType_Duplex	\
0	0	1	0	0	
1	0	1	0	0	
2	0	1	0	0	
3	0	1	0	0	
4	0	1	0	0	
5	0	1	0	0	
6	0	1	0	0	
7	0	1	0	0	
8	0	1	0	0	
9	0	0	1	0	
10	0	1	0	0	
11	0	1	0	0	
12	0	1	0	0	
13	0	1	0	0	
14	0	1	0	0	
15	0	1	0	0	
16	0	1	0	0	
17	0	0	0	1	
18	0	1	0	0	
19	0	1	0	0	

20	0	1	0	0
21	0	1	0	0
22	0	1	0	0
23	0	0	0	0
24	0	1	0	0
25	0	1	0	0
26	0	1	0	0
27	0	1	0	0
28	0	1	0	0
29	1	1	0	0
...	...	...	...	...
1429	0	1	0	0
1430	0	1	0	0
1431	0	1	0	0
1432	0	0	1	0
1433	0	1	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	1	0	0
1437	0	0	0	1
1438	0	1	0	0
1439	0	1	0	0
1440	0	1	0	0
1441	0	1	0	0
1442	0	1	0	0
1443	0	1	0	0
1444	0	1	0	0
1445	0	0	0	1
1446	0	0	0	0
1447	0	1	0	0
1448	0	0	0	1
1449	0	0	0	0
1450	0	0	0	0
1451	0	1	0	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	1	0	0
1457	0	1	0	0
1458	0	1	0	0

	BldgType_Twnhs	BldgType_TwnhsE	HouseStyle_1.5Fin	HouseStyle_1.5Unf	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	



5	0	0	1	0
6	0	0	0	0
7	0	0	0	0
8	0	0	1	0
9	0	0	0	1
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	1
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	0
21	0	0	0	1
22	0	0	0	0
23	0	1	0	0
24	0	0	0	0
25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	0
1430	0	0	1	0
1431	0	0	0	0
1432	0	0	1	0
1433	0	0	1	0
1434	0	1	0	0
1435	0	1	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	0	1	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	1	0	0	0
1450	0	1	0	0

1451	0	0	0	0
1452	1	0	0	0
1453	1	0	0	0
1454	1	0	0	0
1455	0	1	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0

	HouseStyle_1Story	HouseStyle_2.5Fin	HouseStyle_2.5Unf	\
0	0	0	0	
1	1	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	1	0	0	
7	0	0	0	
8	0	0	0	
9	0	0	0	
10	1	0	0	
11	0	0	0	
12	1	0	0	
13	1	0	0	
14	1	0	0	
15	0	0	0	
16	1	0	0	
17	1	0	0	
18	1	0	0	
19	1	0	0	
20	0	0	0	
21	0	0	0	
22	1	0	0	
23	1	0	0	
24	1	0	0	
25	1	0	0	
26	1	0	0	
27	1	0	0	
28	1	0	0	
29	1	0	0	
...	...	...	...	
1429	1	0	0	
1430	0	0	0	
1431	1	0	0	
1432	0	0	0	
1433	0	0	0	
1434	1	0	0	
1435	1	0	0	

1436	1	0	0
1437	1	0	0
1438	1	0	0
1439	0	0	0
1440	1	0	0
1441	1	0	0
1442	1	0	0
1443	1	0	0
1444	1	0	0
1445	0	0	0
1446	0	0	0
1447	1	0	0
1448	1	0	0
1449	0	0	0
1450	0	0	0
1451	1	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	1	0	0
1457	0	0	0
1458	0	0	0

	HouseStyle_2Story	HouseStyle_SFoyer	HouseStyle_SLvl	RoofStyle_Flat	\
0	1	0	0	0	
1	0	0	0	0	
2	1	0	0	0	
3	1	0	0	0	
4	1	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	1	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	1	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	1	0	0	0	
21	0	0	0	0	
22	0	0	0	0	

23	0	0	0	0
24	0	0	0	0
25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	1	0
1440	0	0	0	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	1	0	0
1446	1	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	1	0	0
1450	1	0	0	0
1451	0	0	0	0
1452	1	0	0	0
1453	1	0	0	0
1454	1	0	0	0
1455	1	0	0	0
1456	0	0	0	0
1457	0	1	0	0
1458	1	0	0	0
	RoofStyle_Gable	RoofStyle_Gambrel	RoofStyle_Hip	RoofStyle_Mansard \
0	1	0	0	0
1	1	0	0	0
2	1	0	0	0
3	1	0	0	0
4	1	0	0	0
5	1	0	0	0
6	1	0	0	0
7	1	0	0	0

8	1	0	0	0
9	1	0	0	0
10	0	0	1	0
11	0	0	1	0
12	0	0	1	0
13	1	0	0	0
14	0	0	1	0
15	1	0	0	0
16	1	0	0	0
17	1	0	0	0
18	1	0	0	0
19	0	0	1	0
20	1	0	0	0
21	1	0	0	0
22	0	0	1	0
23	1	0	0	0
24	1	0	0	0
25	1	0	0	0
26	1	0	0	0
27	1	0	0	0
28	1	0	0	0
29	1	0	0	0
...	...	...	...	...
1429	1	0	0	0
1430	1	0	0	0
1431	1	0	0	0
1432	1	0	0	0
1433	1	0	0	0
1434	0	0	1	0
1435	0	0	1	0
1436	1	0	0	0
1437	1	0	0	0
1438	0	0	1	0
1439	1	0	0	0
1440	1	0	0	0
1441	1	0	0	0
1442	1	0	0	0
1443	0	0	1	0
1444	1	0	0	0
1445	1	0	0	0
1446	1	0	0	0
1447	1	0	0	0
1448	1	0	0	0
1449	1	0	0	0
1450	1	0	0	0
1451	1	0	0	0
1452	1	0	0	0
1453	1	0	0	0

1454	1	0	0	0
1455	1	0	0	0
1456	1	0	0	0
1457	1	0	0	0
1458	1	0	0	0

	RoofStyle_Shed	RoofMatl_ClyTile	RoofMatl_CompShg	RoofMatl_Membran	\
0	0	0	1	0	
1	0	0	1	0	
2	0	0	1	0	
3	0	0	1	0	
4	0	0	1	0	
5	0	0	1	0	
6	0	0	1	0	
7	0	0	1	0	
8	0	0	1	0	
9	0	0	1	0	
10	0	0	1	0	
11	0	0	1	0	
12	0	0	1	0	
13	0	0	1	0	
14	0	0	1	0	
15	0	0	1	0	
16	0	0	1	0	
17	0	0	1	0	
18	0	0	1	0	
19	0	0	1	0	
20	0	0	1	0	
21	0	0	1	0	
22	0	0	1	0	
23	0	0	1	0	
24	0	0	1	0	
25	0	0	1	0	
26	0	0	1	0	
27	0	0	1	0	
28	0	0	1	0	
29	0	0	1	0	
...	...	...	...	...	
1429	0	0	1	0	
1430	0	0	1	0	
1431	0	0	1	0	
1432	0	0	1	0	
1433	0	0	1	0	
1434	0	0	1	0	
1435	0	0	1	0	
1436	0	0	1	0	
1437	0	0	1	0	
1438	0	0	1	0	

1439	0	0	1	0
1440	0	0	0	0
1441	0	0	1	0
1442	0	0	1	0
1443	0	0	1	0
1444	0	0	1	0
1445	0	0	1	0
1446	0	0	1	0
1447	0	0	1	0
1448	0	0	1	0
1449	0	0	1	0
1450	0	0	1	0
1451	0	0	1	0
1452	0	0	1	0
1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	0
1457	0	0	1	0
1458	0	0	1	0

	RoofMatl_Metal	RoofMatl_Roll	RoofMatl_Tar&Grv	RoofMatl_WdShake	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	

26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	1	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	0	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	0	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0

	RoofMatl_WdShngl	Exterior1st_AsbShng	Exterior1st_AsphShn	\
0	0	0	0	
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	0	0	
9	0	0	0	
10	0	0	0	



11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0

1457	0	0	0
1458	0	0	0
	Exterior1st_BrkComm	Exterior1st_BrkFace	Exterior1st_CBlock \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	1	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	1	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0

1442	0	0	0
1443	0	0	0
1444	0	0	1
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0
	Exterior1st_CemntBd	Exterior1st_HdBoard	Exterior1st_ImStucc \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	1	0
8	0	0	0
9	0	0	0
10	0	1	0
11	0	0	0
12	0	1	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	1	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0

29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	1	0	0
1435	1	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	1	0	0
1447	0	0	0
1448	0	0	0
1449	1	0	0
1450	1	0	0
1451	0	0	0
1452	1	0	0
1453	1	0	0
1454	1	0	0
1455	1	0	0
1456	0	0	0
1457	0	1	0
1458	0	1	0

	Exterior1st_MetalSd	Exterior1st_Plywood	Exterior1st_Stone	\
0	0	0	0	
1	1	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	0	0	
9	1	0	0	
10	0	0	0	
11	0	0	0	
12	0	0	0	
13	0	0	0	

14	1	0	0
15	0	0	0
16	0	0	0
17	1	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	1	0
25	0	0	0
26	0	0	0
27	0	0	0
28	1	0	0
29	1	0	0
...	...	...	...
1429	1	0	0
1430	1	0	0
1431	0	0	0
1432	0	0	0
1433	1	0	0
1434	0	0	0
1435	0	0	0
1436	0	1	0
1437	0	1	0
1438	0	0	0
1439	0	1	0
1440	0	1	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	1	0	0
1446	0	0	0
1447	0	1	0
1448	0	1	0
1449	0	0	0
1450	0	0	0
1451	0	1	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Exterior1st_Stucco	Exterior1st_VinylSd	Exterior1st_Wd Sdng	\
0	0	1	0	
1	0	0	0	
2	0	1	0	
3	0	0	1	
4	0	1	0	
5	0	1	0	
6	0	1	0	
7	0	0	0	
8	0	0	0	
9	0	0	0	
10	0	0	0	
11	0	0	0	
12	0	0	0	
13	0	1	0	
14	0	0	0	
15	0	0	1	
16	0	0	1	
17	0	0	0	
18	0	1	0	
19	0	0	0	
20	0	1	0	
21	0	0	1	
22	0	1	0	
23	0	0	0	
24	0	0	0	
25	0	1	0	
26	0	0	1	
27	0	1	0	
28	0	0	0	
29	0	0	0	
...	...	...	...	
1429	0	0	0	
1430	0	0	0	
1431	0	0	1	
1432	0	0	0	
1433	0	0	0	
1434	0	0	0	
1435	0	0	0	
1436	0	0	0	
1437	0	0	0	
1438	0	1	0	
1439	0	0	0	
1440	0	0	0	
1441	0	1	0	
1442	0	1	0	
1443	0	1	0	
1444	0	0	0	

1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	1	0
1457	0	0	0
1458	0	0	0

	Exterior1st_WdShng	Exterior2nd_AsbShng	Exterior2nd_AsphShn	\
0	0	0	0	
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	0	0	
9	0	0	0	
10	0	0	0	
11	1	0	0	
12	0	0	0	
13	0	0	0	
14	0	0	0	
15	0	0	0	
16	0	0	0	
17	0	0	0	
18	0	0	0	
19	0	0	0	
20	0	0	0	
21	0	0	0	
22	0	0	0	
23	0	0	0	
24	0	0	0	
25	0	0	0	
26	0	0	0	
27	0	0	0	
28	0	0	0	
29	0	0	0	
...	...	...	...	
1429	0	0	0	

1430	0	0	0
1431	0	0	0
1432	1	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Exterior2nd_Brk Cmn	Exterior2nd_BrkFace	Exterior2nd_CBlock \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0



17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0
	Exterior2nd_CmentBd	Exterior2nd_HdBoard	Exterior2nd_ImStucc \
0	0	0	0
1	0	0	0

2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	1	0
8	0	0	0
9	0	0	0
10	0	1	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	1	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	1	0	0
1435	1	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	1	0	0
1447	0	0	0

1448	0	0	0
1449	1	0	0
1450	1	0	0
1451	0	0	0
1452	1	0	0
1453	1	0	0
1454	1	0	0
1455	1	0	0
1456	0	0	0
1457	0	0	0
1458	0	1	0

	Exterior2nd_MetalSd	Exterior2nd_Other	Exterior2nd_Plywood	\
0	0	0	0	
1	1	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	0	0	
9	1	0	0	
10	0	0	0	
11	0	0	0	
12	0	0	1	
13	0	0	0	
14	1	0	0	
15	0	0	0	
16	0	0	0	
17	1	0	0	
18	0	0	0	
19	0	0	1	
20	0	0	0	
21	0	0	0	
22	0	0	0	
23	0	0	0	
24	0	0	1	
25	0	0	0	
26	0	0	0	
27	0	0	0	
28	1	0	0	
29	1	0	0	
...	...	...	...	
1429	1	0	0	
1430	1	0	0	
1431	0	0	0	
1432	0	0	0	

1433	1	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	1
1437	0	0	1
1438	0	0	0
1439	0	0	1
1440	0	0	1
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	1	0	0
1446	0	0	0
1447	0	0	1
1448	0	0	1
1449	0	0	0
1450	0	0	0
1451	0	0	1
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Exterior2nd_Stone	Exterior2nd_Stucco	Exterior2nd_VinylSd	\
0	0	0	1	
1	0	0	0	
2	0	0	1	
3	0	0	0	
4	0	0	1	
5	0	0	1	
6	0	0	1	
7	0	0	0	
8	0	0	0	
9	0	0	0	
10	0	0	0	
11	0	0	0	
12	0	0	0	
13	0	0	1	
14	0	0	0	
15	0	0	0	
16	0	0	0	
17	0	0	0	
18	0	0	1	
19	0	0	0	

20	0	0	1
21	0	0	0
22	0	0	1
23	0	0	0
24	0	0	0
25	0	0	1
26	0	0	0
27	0	0	1
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	1
1439	0	0	0
1440	0	0	0
1441	0	0	1
1442	0	0	1
1443	0	0	1
1444	0	0	1
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	1
1457	0	0	0
1458	0	0	0
	Exterior2nd_Wd Sdng	Exterior2nd_Wd Shng	MasVnrType_BrkCmn \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	1	0
4	0	0	0

5	0	0	0
6	0	0	0
7	0	0	0
8	0	1	0
9	0	0	0
10	0	0	0
11	0	1	0
12	0	0	0
13	0	0	0
14	0	0	0
15	1	0	0
16	1	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	1	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	1	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	1	0	0
1432	0	1	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0

1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	1	0
1458	0	0	0

	MasVnrType_BrkFace	MasVnrType_None	MasVnrType_Stone	ExterQual_Ext	\
0	1	0	0	0	
1	0	1	0	0	
2	1	0	0	0	
3	0	1	0	0	
4	1	0	0	0	
5	0	1	0	0	
6	0	0	1	0	
7	0	0	1	0	
8	0	1	0	0	
9	0	1	0	0	
10	0	1	0	0	
11	0	0	1	1	
12	0	1	0	0	
13	0	0	1	0	
14	1	0	0	0	
15	0	1	0	0	
16	1	0	0	0	
17	0	1	0	0	
18	0	1	0	0	
19	0	1	0	0	
20	1	0	0	0	
21	0	1	0	0	
22	1	0	0	0	
23	0	1	0	0	
24	0	1	0	0	
25	0	0	1	0	
26	0	1	0	0	
27	0	0	1	0	
28	0	1	0	0	
29	0	1	0	0	
...	...	...	...	...	
1429	0	1	0	0	
1430	1	0	0	0	
1431	0	1	0	0	
1432	0	1	0	0	
1433	0	1	0	0	
1434	0	0	1	0	
1435	0	0	1	0	

1436	0	1	0	0
1437	0	1	0	0
1438	0	1	0	0
1439	1	0	0	0
1440	0	1	0	0
1441	0	1	0	0
1442	0	0	1	0
1443	1	0	0	1
1444	0	1	0	0
1445	1	0	0	0
1446	0	1	0	0
1447	0	1	0	0
1448	0	1	0	0
1449	0	1	0	0
1450	0	1	0	0
1451	1	0	0	0
1452	0	1	0	0
1453	0	1	0	0
1454	0	1	0	0
1455	0	1	0	0
1456	0	1	0	0
1457	0	1	0	0
1458	1	0	0	0

	ExterQual_Fa	ExterQual_Gd	ExterQual_TA	ExterCond_Ex	ExterCond_Fa	\
0	0	1	0	0	0	
1	0	0	1	0	0	
2	0	1	0	0	0	
3	0	0	1	0	0	
4	0	1	0	0	0	
5	0	0	1	0	0	
6	0	1	0	0	0	
7	0	0	1	0	0	
8	0	0	1	0	0	
9	0	0	1	0	0	
10	0	0	1	0	0	
11	0	0	0	0	0	
12	0	0	1	0	0	
13	0	1	0	0	0	
14	0	0	1	0	0	
15	0	0	1	0	0	
16	0	0	1	0	0	
17	0	0	1	0	0	
18	0	0	1	0	0	
19	0	0	1	0	0	
20	0	1	0	0	0	
21	0	0	1	0	0	
22	0	1	0	0	0	



23	0	0	1	0	0
24	0	0	1	0	0
25	0	1	0	0	0
26	0	0	1	0	0
27	0	1	0	0	0
28	0	0	1	0	0
29	0	0	1	0	0
...	...	...	...	...	...
1429	0	0	1	0	0
1430	0	0	1	0	0
1431	0	0	1	0	0
1432	1	0	0	0	1
1433	0	0	1	0	0
1434	0	1	0	0	0
1435	0	1	0	0	0
1436	0	0	1	0	0
1437	0	0	1	0	0
1438	0	1	0	0	0
1439	0	0	1	0	0
1440	0	0	1	0	0
1441	0	1	0	0	0
1442	0	1	0	0	0
1443	0	0	0	0	0
1444	0	0	1	0	1
1445	0	0	1	0	0
1446	0	0	1	0	0
1447	0	0	1	0	0
1448	0	0	1	0	0
1449	0	0	1	0	0
1450	0	0	1	0	0
1451	0	0	1	0	0
1452	0	0	1	0	0
1453	0	0	1	0	0
1454	0	0	1	0	0
1455	0	0	1	0	0
1456	0	0	1	0	0
1457	0	0	1	0	0
1458	0	0	1	0	0

	ExterCond_Gd	ExterCond_Po	ExterCond_TA	Foundation_BrkTil	\
0	0	0	1	0	
1	0	0	1	0	
2	0	0	1	0	
3	0	0	1	1	
4	0	0	1	0	
5	0	0	1	0	
6	0	0	1	0	
7	0	0	1	0	

8	0	0	1	1
9	0	0	1	1
10	0	0	1	0
11	0	0	1	0
12	0	0	1	0
13	0	0	1	0
14	0	0	1	0
15	0	0	1	1
16	0	0	1	0
17	0	0	1	0
18	0	0	1	0
19	0	0	1	0
20	0	0	1	0
21	0	0	1	0
22	0	0	1	0
23	0	0	1	0
24	1	0	0	0
25	0	0	1	0
26	0	0	1	0
27	0	0	1	0
28	0	0	1	0
29	0	0	1	1
...	...	...	...	...
1429	0	0	1	1
1430	0	0	1	0
1431	0	0	1	0
1432	0	0	0	0
1433	0	0	1	0
1434	0	0	1	0
1435	0	0	1	0
1436	0	0	1	0
1437	0	0	1	0
1438	0	0	1	0
1439	0	0	1	0
1440	0	0	1	0
1441	0	0	1	0
1442	0	0	1	0
1443	0	0	1	0
1444	0	0	0	0
1445	1	0	0	0
1446	0	0	1	0
1447	0	0	1	0
1448	0	0	1	0
1449	0	0	1	0
1450	0	0	1	0
1451	0	0	1	0
1452	0	0	1	0
1453	0	0	1	0

1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	0
1457	0	0	1	0
1458	0	0	1	0

	Foundation_CBlock	Foundation_PConc	Foundation_Slab	Foundation_Stone	\
0	0	1	0	0	
1	1	0	0	0	
2	0	1	0	0	
3	0	0	0	0	
4	0	1	0	0	
5	0	0	0	0	
6	0	1	0	0	
7	1	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	1	0	0	0	
11	0	1	0	0	
12	1	0	0	0	
13	0	1	0	0	
14	1	0	0	0	
15	0	0	0	0	
16	1	0	0	0	
17	0	0	1	0	
18	0	1	0	0	
19	1	0	0	0	
20	0	1	0	0	
21	0	1	0	0	
22	0	1	0	0	
23	0	1	0	0	
24	1	0	0	0	
25	0	1	0	0	
26	1	0	0	0	
27	0	1	0	0	
28	1	0	0	0	
29	0	0	0	0	
...	...	...	...	...	
1429	0	0	0	0	
1430	1	0	0	0	
1431	0	0	1	0	
1432	1	0	0	0	
1433	0	1	0	0	
1434	0	1	0	0	
1435	0	1	0	0	
1436	1	0	0	0	
1437	1	0	0	0	
1438	0	1	0	0	

1439	1	0	0	0
1440	1	0	0	0
1441	0	0	0	0
1442	0	1	0	0
1443	0	1	0	0
1444	1	0	0	0
1445	0	1	0	0
1446	0	1	0	0
1447	1	0	0	0
1448	1	0	0	0
1449	1	0	0	0
1450	1	0	0	0
1451	0	1	0	0
1452	1	0	0	0
1453	1	0	0	0
1454	1	0	0	0
1455	1	0	0	0
1456	1	0	0	0
1457	0	1	0	0
1458	0	1	0	0

	Foundation_Wood	BsmtQual_Ex	BsmtQual_Fa	BsmtQual_Gd	BsmtQual_TA	\
0	0	0	0	1	0	
1	0	0	0	1	0	
2	0	0	0	1	0	
3	0	0	0	0	1	
4	0	0	0	1	0	
5	1	0	0	1	0	
6	0	1	0	0	0	
7	0	0	0	1	0	
8	0	0	0	0	1	
9	0	0	0	0	1	
10	0	0	0	0	1	
11	0	1	0	0	0	
12	0	0	0	0	1	
13	0	0	0	1	0	
14	0	0	0	0	1	
15	0	0	0	0	1	
16	0	0	0	0	1	
17	0	0	0	0	0	
18	0	0	0	0	1	
19	0	0	0	0	1	
20	0	1	0	0	0	
21	0	0	0	0	1	
22	0	0	0	1	0	
23	0	0	0	1	0	
24	0	0	0	0	1	
25	0	0	0	1	0	

26	0	0	0	0	1
27	0	1	0	0	0
28	0	0	0	0	1
29	0	0	0	0	1
...	...	...	...	...	...
1429	0	0	0	0	1
1430	0	0	0	0	1
1431	0	0	0	0	0
1432	0	0	0	0	1
1433	0	0	1	0	0
1434	0	1	0	0	0
1435	0	1	0	0	0
1436	0	0	0	1	0
1437	0	0	0	0	1
1438	0	1	0	0	0
1439	0	0	0	0	1
1440	0	0	0	1	0
1441	1	0	0	1	0
1442	0	1	0	0	0
1443	0	0	0	1	0
1444	0	0	0	0	0
1445	0	0	0	1	0
1446	0	0	0	1	0
1447	0	0	0	0	1
1448	0	0	0	0	1
1449	0	0	0	1	0
1450	0	0	0	0	1
1451	0	0	0	0	1
1452	0	0	0	0	1
1453	0	0	0	0	1
1454	0	0	0	0	1
1455	0	0	0	0	1
1456	0	0	0	0	1
1457	0	0	0	1	0
1458	0	0	0	1	0

	BsmtCond_Fa	BsmtCond_Gd	BsmtCond_Po	BsmtCond_TA	BsmtExposure_Av	\
0	0	0	0	1	0	
1	0	0	0	1	0	
2	0	0	0	1	0	
3	0	1	0	0	0	
4	0	0	0	1	1	
5	0	0	0	1	0	
6	0	0	0	1	1	
7	0	0	0	1	0	
8	0	0	0	1	0	
9	0	0	0	1	0	
10	0	0	0	1	0	

11	0	0	0	1	0
12	0	0	0	1	0
13	0	0	0	1	1
14	0	0	0	1	0
15	0	0	0	1	0
16	0	0	0	1	0
17	0	0	0	0	0
18	0	0	0	1	0
19	0	0	0	1	0
20	0	0	0	1	1
21	0	0	0	1	0
22	0	0	0	1	0
23	0	0	0	1	0
24	0	0	0	1	0
25	0	0	0	1	0
26	0	0	0	1	0
27	0	0	0	1	0
28	0	0	0	1	0
29	0	0	0	1	0
...	...	...	...	...	...
1429	0	0	0	1	0
1430	0	0	0	1	0
1431	0	0	0	0	0
1432	0	0	0	1	0
1433	1	0	0	0	0
1434	0	0	0	1	0
1435	0	0	0	1	0
1436	0	0	0	1	0
1437	0	0	0	1	0
1438	0	0	0	1	0
1439	0	0	0	1	1
1440	0	0	0	1	0
1441	0	0	0	1	1
1442	0	1	0	0	1
1443	0	0	0	1	0
1444	0	0	0	0	0
1445	0	0	0	1	0
1446	0	0	0	1	0
1447	0	0	0	1	0
1448	0	0	0	1	0
1449	0	0	0	1	1
1450	0	0	0	1	0
1451	0	0	0	1	1
1452	0	0	0	1	0
1453	0	0	0	1	0
1454	0	0	0	1	0
1455	0	0	0	1	0
1456	0	0	0	1	0

1457	0	0	0	1	1
1458	0	0	0	1	1

	BsmtExposure_Gd	BsmtExposure_Mn	BsmtExposure_No	BsmtFinType1_ALQ	\
0	0	0	1	0	
1	1	0	0	1	
2	0	1	0	0	
3	0	0	1	1	
4	0	0	0	0	
5	0	0	1	0	
6	0	0	0	0	
7	0	1	0	1	
8	0	0	1	0	
9	0	0	1	0	
10	0	0	1	0	
11	0	0	1	0	
12	0	0	1	1	
13	0	0	0	0	
14	0	0	1	0	
15	0	0	1	0	
16	0	0	1	1	
17	0	0	0	0	
18	0	0	1	0	
19	0	0	1	0	
20	0	0	0	0	
21	0	0	1	0	
22	0	0	1	0	
23	0	0	1	0	
24	0	1	0	0	
25	0	0	1	0	
26	0	1	0	0	
27	0	0	1	0	
28	1	0	0	0	
29	0	0	1	0	
...	...	...	...	...	...
1429	0	0	1	0	
1430	0	0	1	0	
1431	0	0	0	0	
1432	0	1	0	0	
1433	0	0	1	0	
1434	1	0	0	0	
1435	1	0	0	0	
1436	1	0	0	0	
1437	0	1	0	0	
1438	0	0	1	0	
1439	0	0	0	0	
1440	1	0	0	0	
1441	0	0	0	0	

1442	0	0	0	0
1443	1	0	0	0
1444	0	0	0	0
1445	1	0	0	0
1446	0	1	0	0
1447	0	0	1	1
1448	0	0	1	0
1449	0	0	0	0
1450	0	0	1	0
1451	0	0	0	0
1452	0	0	1	0
1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	1
1457	0	0	0	0
1458	0	0	0	0

	BsmtFinType1_BLQ	BsmtFinType1_GLQ	BsmtFinType1_LwQ	BsmtFinType1_Rec	\
0	0	1	0	0	
1	0	0	0	0	
2	0	1	0	0	
3	0	0	0	0	
4	0	1	0	0	
5	0	1	0	0	
6	0	1	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	1	0	0	
10	0	0	0	1	
11	0	1	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	1	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	1	0	0	
19	0	0	1	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	1	0	0	
24	0	0	0	1	
25	0	0	0	0	
26	1	0	0	0	
27	0	1	0	0	
28	1	0	0	0	



29	0	0	0	0
...	...	...	...	...
1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	1	0	0
1435	0	1	0	0
1436	0	1	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	1	0	0
1440	1	0	0	0
1441	0	1	0	0
1442	0	1	0	0
1443	0	1	0	0
1444	0	0	0	0
1445	0	1	0	0
1446	0	0	0	0
1447	0	0	0	0
1448	1	0	0	0
1449	0	1	0	0
1450	0	0	0	1
1451	0	0	0	1
1452	0	0	0	1
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	1
1456	0	0	0	0
1457	0	1	0	0
1458	0	0	1	0

	BsmtFinType1_Unf	BsmtFinType2_ALQ	BsmtFinType2_BLQ	BsmtFinType2_GLQ	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	1	0	
8	1	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	1	0	0	0	

14	0	0	0	0
15	1	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	1	0	0	0
21	1	0	0	0
22	1	0	0	0
23	0	0	0	0
24	0	1	0	0
25	1	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	1	0	0	0
...	...	...	...	...
1429	1	0	0	0
1430	1	0	0	0
1431	0	0	0	0
1432	1	0	0	0
1433	1	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	1	0	0	0
1438	1	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	0	0	1	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	1	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	1	0
1452	0	0	0	0
1453	1	0	0	0
1454	1	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0

	BsmtFinType2_LwQ	BsmtFinType2_Rec	BsmtFinType2_Unf	Heating_Floor	\
0	0	0	1	0	
1	0	0	1	0	
2	0	0	1	0	
3	0	0	1	0	
4	0	0	1	0	
5	0	0	1	0	
6	0	0	1	0	
7	0	0	0	0	
8	0	0	1	0	
9	0	0	1	0	
10	0	0	1	0	
11	0	0	1	0	
12	0	0	1	0	
13	0	0	1	0	
14	0	0	1	0	
15	0	0	1	0	
16	0	0	1	0	
17	0	0	0	0	
18	0	0	1	0	
19	0	0	1	0	
20	0	0	1	0	
21	0	0	1	0	
22	0	0	1	0	
23	0	0	1	0	
24	0	0	0	0	
25	0	0	1	0	
26	0	1	0	0	
27	0	0	1	0	
28	0	0	1	0	
29	0	0	1	0	
...	...	...	...	...	
1429	0	0	1	0	
1430	0	0	1	0	
1431	0	0	0	0	
1432	0	0	1	0	
1433	0	0	1	0	
1434	0	0	1	0	
1435	0	0	1	0	
1436	0	0	1	0	
1437	0	0	1	0	
1438	0	0	1	0	
1439	0	0	1	0	
1440	0	0	1	0	
1441	0	0	0	0	
1442	0	0	1	0	
1443	0	0	1	0	
1444	0	0	0	0	

1445	0	0	1	0
1446	0	0	1	0
1447	0	0	1	0
1448	0	0	1	0
1449	0	0	1	0
1450	0	0	1	0
1451	0	0	0	0
1452	0	0	1	0
1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	0
1457	0	0	1	0
1458	0	0	1	0

	Heating_GasA	Heating_GasW	Heating_Grav	Heating_OthW	Heating_Wall	\
0	1	0	0	0	0	
1	1	0	0	0	0	
2	1	0	0	0	0	
3	1	0	0	0	0	
4	1	0	0	0	0	
5	1	0	0	0	0	
6	1	0	0	0	0	
7	1	0	0	0	0	
8	1	0	0	0	0	
9	1	0	0	0	0	
10	1	0	0	0	0	
11	1	0	0	0	0	
12	1	0	0	0	0	
13	1	0	0	0	0	
14	1	0	0	0	0	
15	1	0	0	0	0	
16	1	0	0	0	0	
17	1	0	0	0	0	
18	1	0	0	0	0	
19	1	0	0	0	0	
20	1	0	0	0	0	
21	1	0	0	0	0	
22	1	0	0	0	0	
23	1	0	0	0	0	
24	1	0	0	0	0	
25	1	0	0	0	0	
26	1	0	0	0	0	
27	1	0	0	0	0	
28	1	0	0	0	0	
29	1	0	0	0	0	
...	...	...	...	...	...	
1429	1	0	0	0	0	

1430	1	0	0	0	0
1431	1	0	0	0	0
1432	1	0	0	0	0
1433	1	0	0	0	0
1434	1	0	0	0	0
1435	1	0	0	0	0
1436	1	0	0	0	0
1437	1	0	0	0	0
1438	1	0	0	0	0
1439	1	0	0	0	0
1440	1	0	0	0	0
1441	1	0	0	0	0
1442	1	0	0	0	0
1443	1	0	0	0	0
1444	1	0	0	0	0
1445	1	0	0	0	0
1446	1	0	0	0	0
1447	1	0	0	0	0
1448	1	0	0	0	0
1449	1	0	0	0	0
1450	1	0	0	0	0
1451	1	0	0	0	0
1452	1	0	0	0	0
1453	1	0	0	0	0
1454	1	0	0	0	0
1455	1	0	0	0	0
1456	1	0	0	0	0
1457	1	0	0	0	0
1458	1	0	0	0	0

	HeatingQC_Ex	HeatingQC_Fa	HeatingQC_Gd	HeatingQC_Po	HeatingQC_TA	\
0	1	0	0	0	0	
1	1	0	0	0	0	
2	1	0	0	0	0	
3	0	0	1	0	0	
4	1	0	0	0	0	
5	1	0	0	0	0	
6	1	0	0	0	0	
7	1	0	0	0	0	
8	0	0	1	0	0	
9	1	0	0	0	0	
10	1	0	0	0	0	
11	1	0	0	0	0	
12	0	0	0	0	1	
13	1	0	0	0	0	
14	0	0	0	0	1	
15	1	0	0	0	0	
16	1	0	0	0	0	

17	0	0	0	0	1
18	1	0	0	0	0
19	0	0	0	0	1
20	1	0	0	0	0
21	1	0	0	0	0
22	1	0	0	0	0
23	0	0	0	0	1
24	1	0	0	0	0
25	1	0	0	0	0
26	0	0	0	0	1
27	1	0	0	0	0
28	0	0	0	0	1
29	0	1	0	0	0
...	...	...	...	...	...
1429	0	0	1	0	0
1430	0	0	1	0	0
1431	0	0	0	0	1
1432	0	0	0	0	1
1433	0	1	0	0	0
1434	1	0	0	0	0
1435	1	0	0	0	0
1436	0	0	0	0	1
1437	0	0	0	0	1
1438	1	0	0	0	0
1439	0	0	0	0	1
1440	0	0	0	0	1
1441	1	0	0	0	0
1442	1	0	0	0	0
1443	1	0	0	0	0
1444	0	0	0	0	1
1445	0	0	1	0	0
1446	0	0	0	0	1
1447	1	0	0	0	0
1448	0	0	0	0	1
1449	0	0	0	0	1
1450	0	0	0	0	1
1451	0	1	0	0	0
1452	0	0	0	0	1
1453	0	0	0	0	1
1454	0	0	1	0	0
1455	0	0	0	0	1
1456	1	0	0	0	0
1457	0	0	0	0	1
1458	1	0	0	0	0

	CentralAir_N	CentralAir_Y	Electrical_FuseA	Electrical_FuseF	\
0	0	1	0	0	
1	0	1	0	0	

2	0	1	0	0
3	0	1	0	0
4	0	1	0	0
5	0	1	0	0
6	0	1	0	0
7	0	1	0	0
8	0	1	0	1
9	0	1	0	0
10	0	1	0	0
11	0	1	0	0
12	0	1	0	0
13	0	1	0	0
14	0	1	0	0
15	0	1	1	0
16	0	1	0	0
17	0	1	0	0
18	0	1	0	0
19	0	1	0	0
20	0	1	0	0
21	0	1	0	1
22	0	1	0	0
23	0	1	0	0
24	0	1	0	0
25	0	1	0	0
26	0	1	0	0
27	0	1	0	0
28	0	1	0	0
29	1	0	0	0
...	...	...	...	...
1429	0	1	0	0
1430	0	1	0	0
1431	1	0	0	0
1432	1	0	0	0
1433	1	0	0	0
1434	0	1	0	0
1435	0	1	0	0
1436	0	1	0	0
1437	0	1	0	0
1438	0	1	0	0
1439	0	1	0	0
1440	0	1	0	0
1441	0	1	0	0
1442	0	1	0	0
1443	0	1	0	0
1444	0	1	1	0
1445	0	1	0	0
1446	0	1	0	0
1447	0	1	0	0

1448	0	1	0	0
1449	0	1	0	0
1450	0	1	0	0
1451	0	1	0	0
1452	0	1	0	0
1453	0	1	0	0
1454	0	1	0	0
1455	0	1	0	0
1456	0	1	0	0
1457	0	1	0	0
1458	0	1	0	0

	Electrical_FuseP	Electrical_Mix	Electrical_SBrkr	KitchenQual_Ex	\
0	0	0	1	0	
1	0	0	1	0	
2	0	0	1	0	
3	0	0	1	0	
4	0	0	1	0	
5	0	0	1	0	
6	0	0	1	0	
7	0	0	1	0	
8	0	0	0	0	
9	0	0	1	0	
10	0	0	1	0	
11	0	0	1	1	
12	0	0	1	0	
13	0	0	1	0	
14	0	0	1	0	
15	0	0	0	0	
16	0	0	1	0	
17	0	0	1	0	
18	0	0	1	0	
19	0	0	1	0	
20	0	0	1	0	
21	0	0	0	0	
22	0	0	1	0	
23	0	0	1	0	
24	0	0	1	0	
25	0	0	1	0	
26	0	0	1	0	
27	0	0	1	0	
28	0	0	1	0	
29	0	0	1	0	
...	...	...	...	...	
1429	0	0	1	0	
1430	0	0	1	0	
1431	0	0	1	0	
1432	0	0	1	0	



1433	0	0	1	0
1434	0	0	1	1
1435	0	0	1	0
1436	0	0	1	0
1437	0	0	1	0
1438	0	0	1	0
1439	0	0	1	0
1440	0	0	1	0
1441	0	0	1	0
1442	0	0	1	0
1443	0	0	1	1
1444	0	0	0	0
1445	0	0	1	0
1446	0	0	1	0
1447	0	0	1	0
1448	0	0	1	0
1449	0	0	1	0
1450	0	0	1	0
1451	0	0	1	0
1452	0	0	1	0
1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	0
1457	0	0	1	0
1458	0	0	1	0

	KitchenQual_Fa	KitchenQual_Gd	KitchenQual_TA	Functional_Maj1	\
0	0	1	0	0	
1	0	0	1	0	
2	0	1	0	0	
3	0	1	0	0	
4	0	1	0	0	
5	0	0	1	0	
6	0	1	0	0	
7	0	0	1	0	
8	0	0	1	0	
9	0	0	1	0	
10	0	0	1	0	
11	0	0	0	0	
12	0	0	1	0	
13	0	1	0	0	
14	0	0	1	0	
15	0	0	1	0	
16	0	0	1	0	
17	0	0	1	0	
18	0	1	0	0	
19	0	0	1	0	

20	0	1	0	0
21	0	1	0	0
22	0	1	0	0
23	0	0	1	0
24	0	1	0	0
25	0	1	0	0
26	0	1	0	0
27	0	1	0	0
28	0	0	1	0
29	1	0	0	0
...	...	...	...	...
1429	1	0	0	0
1430	0	1	0	0
1431	0	0	1	0
1432	0	0	1	0
1433	0	0	1	0
1434	0	0	0	0
1435	0	1	0	0
1436	1	0	0	0
1437	0	0	1	0
1438	0	1	0	0
1439	0	0	1	0
1440	0	0	1	0
1441	0	1	0	0
1442	0	1	0	0
1443	0	0	0	0
1444	0	0	1	0
1445	0	0	1	0
1446	0	0	1	0
1447	0	0	1	0
1448	0	0	1	0
1449	0	0	1	0
1450	0	0	1	0
1451	0	0	1	0
1452	0	0	1	0
1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	0
1457	0	0	1	0
1458	0	0	1	0

	Functional_Maj2	Functional_Min1	Functional_Min2	Functional_Mod	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	

5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	1	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	1	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	0	0	0	0
25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	1
1432	0	0	1	0
1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	1
1445	0	0	0	0
1446	0	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
1450	0	0	0	0

1451	0	0	0	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0

	Functional_Sev	Functional_Typ	FireplaceQu_Ex	FireplaceQu_Fa	\
0	0	1	0	0	
1	0	1	0	0	
2	0	1	0	0	
3	0	1	0	0	
4	0	1	0	0	
5	0	1	0	0	
6	0	1	0	0	
7	0	1	0	0	
8	0	0	0	0	
9	0	1	0	0	
10	0	1	0	0	
11	0	1	0	0	
12	0	1	0	0	
13	0	1	0	0	
14	0	1	0	1	
15	0	1	0	0	
16	0	1	0	0	
17	0	1	0	0	
18	0	1	0	0	
19	0	0	0	0	
20	0	1	0	0	
21	0	1	0	0	
22	0	1	0	0	
23	0	1	0	0	
24	0	1	0	0	
25	0	1	0	0	
26	0	1	0	0	
27	0	1	0	0	
28	0	1	0	0	
29	0	1	0	0	
...	...	...	...	...	
1429	0	1	0	0	
1430	0	1	0	0	
1431	0	0	0	0	
1432	0	0	0	0	
1433	0	1	0	0	
1434	0	1	0	0	
1435	0	1	0	0	

1436	0	1	0	0
1437	0	1	0	0
1438	0	1	0	0
1439	0	1	0	0
1440	0	1	0	0
1441	0	1	0	0
1442	0	1	0	0
1443	0	1	0	0
1444	0	0	0	0
1445	0	1	0	0
1446	0	1	0	0
1447	0	1	0	0
1448	0	1	0	0
1449	0	1	0	0
1450	0	1	0	0
1451	0	1	0	0
1452	0	1	0	0
1453	0	1	0	0
1454	0	1	0	0
1455	0	1	0	0
1456	0	1	0	0
1457	0	1	0	0
1458	0	1	0	0

	FireplaceQu_Gd	FireplaceQu_Po	FireplaceQu_TA	GarageType_2Types	\
0	0	0	0	0	
1	0	0	1	0	
2	0	0	1	0	
3	1	0	0	0	
4	0	0	1	0	
5	0	0	0	0	
6	1	0	0	0	
7	0	0	1	0	
8	0	0	1	0	
9	0	0	1	0	
10	0	0	0	0	
11	1	0	0	0	
12	0	0	0	0	
13	1	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	1	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	1	0	0	0	
21	1	0	0	0	
22	1	0	0	0	

23	0	0	1	0
24	0	0	1	0
25	1	0	0	0
26	0	0	0	0
27	1	0	0	0
28	1	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	1	0	0	0
1435	1	0	0	0
1436	0	0	1	0
1437	0	0	0	1
1438	0	0	0	0
1439	0	0	0	0
1440	1	0	0	0
1441	0	0	0	0
1442	1	0	0	0
1443	1	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	0	0	1	0
1447	0	0	0	0
1448	0	0	0	1
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	1	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	1	0
1457	0	0	0	0
1458	0	0	1	0

	GarageType_Attchd	GarageType_Basment	GarageType_BuiltIn	\
0	1	0	0	
1	1	0	0	
2	1	0	0	
3	0	0	0	
4	1	0	0	
5	1	0	0	
6	1	0	0	
7	1	0	0	

8	0	0	0
9	1	0	0
10	0	0	0
11	0	0	1
12	0	0	0
13	1	0	0
14	1	0	0
15	0	0	0
16	1	0	0
17	0	0	0
18	0	0	0
19	1	0	0
20	0	0	1
21	1	0	0
22	1	0	0
23	1	0	0
24	1	0	0
25	1	0	0
26	0	0	0
27	1	0	0
28	1	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	1	0	0
1435	1	0	0
1436	1	0	0
1437	0	0	0
1438	1	0	0
1439	1	0	0
1440	1	0	0
1441	1	0	0
1442	1	0	0
1443	1	0	0
1444	1	0	0
1445	1	0	0
1446	0	0	1
1447	1	0	0
1448	0	0	0
1449	0	0	0
1450	1	0	0
1451	1	0	0
1452	0	0	0
1453	0	0	0

1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	1	0	0

	GarageType_CarPort	GarageType_Detchd	GarageFinish_Fin \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	1	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	1	0
9	0	0	0
10	0	1	0
11	0	0	1
12	0	1	0
13	0	0	0
14	0	0	0
15	0	1	0
16	0	0	1
17	1	0	0
18	0	1	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	1	0
27	0	0	0
28	0	0	0
29	0	1	0
...	...	...	...
1429	0	1	0
1430	0	1	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	1
1435	0	0	1
1436	0	0	1
1437	0	0	0
1438	0	0	0



1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	1
1443	0	0	1
1444	0	0	0
1445	0	0	1
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	1	0	0
1453	0	0	0
1454	0	0	0
1455	1	0	0
1456	0	1	0
1457	0	0	0
1458	0	0	1

	GarageFinish_RFn	GarageFinish_Unf	GarageQual_Ex	GarageQual_Fa	\
0	1	0	0	0	
1	1	0	0	0	
2	1	0	0	0	
3	0	1	0	0	
4	1	0	0	0	
5	0	1	0	0	
6	1	0	0	0	
7	1	0	0	0	
8	0	1	0	1	
9	1	0	0	0	
10	0	1	0	0	
11	0	0	0	0	
12	0	1	0	0	
13	1	0	0	0	
14	1	0	0	0	
15	0	1	0	0	
16	0	0	0	0	
17	0	1	0	0	
18	0	1	0	0	
19	0	1	0	0	
20	1	0	0	0	
21	0	1	0	0	
22	1	0	0	0	
23	0	1	0	0	
24	0	1	0	0	
25	1	0	0	0	

26	0	1	0	0
27	1	0	0	0
28	1	0	0	0
29	0	1	0	1
...	...	...	...	...
1429	0	1	0	0
1430	0	1	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	0	1	0	0
1438	1	0	0	0
1439	0	1	0	0
1440	0	1	0	0
1441	0	1	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	1	0	1
1445	0	0	0	0
1446	1	0	0	0
1447	1	0	0	0
1448	0	1	0	0
1449	0	0	0	0
1450	0	1	0	0
1451	1	0	0	0
1452	0	1	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	1	0	0
1456	0	1	0	0
1457	0	0	0	0
1458	0	0	0	0

	GarageQual_Gd	GarageQual_Po	GarageQual_TA	GarageCond_Ex	\
0	0	0	1	0	
1	0	0	1	0	
2	0	0	1	0	
3	0	0	1	0	
4	0	0	1	0	
5	0	0	1	0	
6	0	0	1	0	
7	0	0	1	0	
8	0	0	0	0	
9	1	0	0	0	
10	0	0	1	0	

11	0	0	1	0
12	0	0	1	0
13	0	0	1	0
14	0	0	1	0
15	0	0	1	0
16	0	0	1	0
17	0	0	1	0
18	0	0	1	0
19	0	0	1	0
20	0	0	1	0
21	0	0	1	0
22	0	0	1	0
23	0	0	1	0
24	0	0	1	0
25	0	0	1	0
26	0	0	1	0
27	0	0	1	0
28	0	0	1	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	1	0
1430	0	0	1	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	0	1	0
1435	0	0	1	0
1436	0	0	1	0
1437	0	0	1	0
1438	0	0	1	0
1439	0	0	1	0
1440	0	0	1	0
1441	0	0	1	0
1442	0	0	1	0
1443	0	0	1	0
1444	0	0	0	0
1445	0	0	1	0
1446	0	0	1	0
1447	0	0	1	0
1448	0	0	1	0
1449	0	0	0	0
1450	0	0	1	0
1451	0	0	1	0
1452	0	0	1	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	1	0
1456	0	0	1	0

1457	0	0	0	0
1458	0	0	1	0
	GarageCond_Fa	GarageCond_Gd	GarageCond_Po	GarageCond_TA \
0	0	0	0	1
1	0	0	0	1
2	0	0	0	1
3	0	0	0	1
4	0	0	0	1
5	0	0	0	1
6	0	0	0	1
7	0	0	0	1
8	0	0	0	1
9	0	0	0	1
10	0	0	0	1
11	0	0	0	1
12	0	0	0	1
13	0	0	0	1
14	0	0	0	1
15	0	0	0	1
16	0	0	0	1
17	0	0	0	1
18	0	0	0	1
19	0	0	0	1
20	0	0	0	1
21	0	0	0	1
22	0	0	0	1
23	0	0	0	1
24	0	0	0	1
25	0	0	0	1
26	0	0	0	1
27	0	0	0	1
28	0	0	0	1
29	0	0	0	1
...	...	...	...	...
1429	0	0	0	1
1430	0	0	0	1
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	0	0	1
1435	0	0	0	1
1436	0	0	0	1
1437	0	0	0	1
1438	0	0	0	1
1439	0	0	0	1
1440	0	0	0	1
1441	0	0	0	1

1442	0	0	0	1
1443	0	0	0	1
1444	0	0	0	1
1445	0	0	0	1
1446	0	0	0	1
1447	0	0	0	1
1448	0	0	0	1
1449	0	0	0	0
1450	1	0	0	0
1451	0	0	0	1
1452	0	0	0	1
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	1
1456	0	0	0	1
1457	0	0	0	0
1458	0	0	0	1

	PavedDrive_N	PavedDrive_P	PavedDrive_Y	PoolQC_Ex	PoolQC_Fa	\
0	0	0	1	0	0	
1	0	0	1	0	0	
2	0	0	1	0	0	
3	0	0	1	0	0	
4	0	0	1	0	0	
5	0	0	1	0	0	
6	0	0	1	0	0	
7	0	0	1	0	0	
8	0	0	1	0	0	
9	0	0	1	0	0	
10	0	0	1	0	0	
11	0	0	1	0	0	
12	0	0	1	0	0	
13	0	0	1	0	0	
14	0	0	1	0	0	
15	0	0	1	0	0	
16	0	0	1	0	0	
17	0	0	1	0	0	
18	0	0	1	0	0	
19	0	0	1	0	0	
20	0	0	1	0	0	
21	1	0	0	0	0	
22	0	0	1	0	0	
23	0	0	1	0	0	
24	0	0	1	0	0	
25	0	0	1	0	0	
26	0	0	1	0	0	
27	0	0	1	0	0	
28	0	0	1	0	0	

29	0	0	1	0	0
...	...	...	...	...	...
1429	1	0	0	0	0
1430	0	0	1	0	0
1431	1	0	0	0	0
1432	0	0	1	0	0
1433	1	0	0	0	0
1434	0	0	1	0	0
1435	0	0	1	0	0
1436	0	0	1	0	0
1437	0	0	1	0	0
1438	0	0	1	0	0
1439	0	0	1	0	0
1440	0	0	1	0	0
1441	0	0	1	0	0
1442	0	0	1	0	0
1443	0	0	1	0	0
1444	1	0	0	0	0
1445	0	0	1	0	0
1446	0	0	1	0	0
1447	0	0	1	0	0
1448	0	0	1	0	0
1449	0	0	1	0	0
1450	0	0	1	0	0
1451	0	0	1	0	0
1452	0	0	1	0	0
1453	0	0	1	0	0
1454	0	0	1	0	0
1455	0	0	1	0	0
1456	0	0	1	0	0
1457	0	0	1	0	0
1458	0	0	1	0	0

	PoolQC_Gd	Fence_GdPrv	Fence_GdWo	Fence_MnPrv	Fence_MnWw	\
0	0	0	0	0	0	
1	0	0	0	0	0	
2	0	0	0	0	0	
3	0	0	0	0	0	
4	0	0	0	0	0	
5	0	0	0	1	0	
6	0	0	0	0	0	
7	0	0	0	0	0	
8	0	0	0	0	0	
9	0	0	0	0	0	
10	0	0	0	0	0	
11	0	0	0	0	0	
12	0	0	0	0	0	
13	0	0	0	0	0	

14	0	0	1	0	0
15	0	1	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	1	0
20	0	0	0	0	0
21	0	1	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	1	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
...	...	...	...	...	...
1429	0	0	0	1	0
1430	0	0	0	0	0
1431	0	0	0	0	0
1432	0	0	0	0	0
1433	0	0	0	0	0
1434	0	0	0	0	0
1435	0	0	0	0	0
1436	0	0	0	0	0
1437	0	0	0	0	0
1438	0	0	0	0	0
1439	0	0	0	0	0
1440	0	0	0	0	0
1441	0	0	0	0	0
1442	0	0	0	0	0
1443	0	0	0	0	0
1444	0	0	0	0	0
1445	0	0	0	0	0
1446	0	0	0	0	0
1447	0	0	0	0	0
1448	0	0	0	0	0
1449	0	0	0	0	0
1450	0	0	0	0	0
1451	0	0	0	0	0
1452	0	0	0	0	0
1453	0	1	0	0	0
1454	0	0	0	0	0
1455	0	0	0	0	0
1456	0	0	0	0	0
1457	0	0	0	1	0
1458	0	0	0	0	0

	MiscFeature_Gar2	MiscFeature_Othr	MiscFeature_Shed	MiscFeature_TenC	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	1	0	
6	0	0	0	0	
7	0	0	1	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	1	0	
17	0	0	1	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
...	...	...	...	...	
1429	0	0	0	0	
1430	0	0	0	0	
1431	0	0	0	0	
1432	0	0	0	0	
1433	0	0	0	0	
1434	0	0	0	0	
1435	0	0	0	0	
1436	0	0	0	0	
1437	0	0	0	0	
1438	0	0	0	0	
1439	0	0	0	0	
1440	0	0	0	0	
1441	0	0	0	0	
1442	0	0	0	0	
1443	0	0	0	0	
1444	0	0	0	0	



1445	0	0	0	0
1446	0	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	0	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	1	0
1458	0	0	0	0

	SaleType_COD	SaleType_CWD	SaleType_Con	SaleType_ConLD	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	1	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
...	...	...	...	...	
1429	0	0	0	0	

1430	0	0	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	0	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	0	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0

	SaleType_ConLI	SaleType_ConLw	SaleType_New	SaleType_Oth	SaleType_WD	\
0	0	0	0	0	1	
1	0	0	0	0	1	
2	0	0	0	0	1	
3	0	0	0	0	1	
4	0	0	0	0	1	
5	0	0	0	0	1	
6	0	0	0	0	1	
7	0	0	0	0	1	
8	0	0	0	0	1	
9	0	0	0	0	1	
10	0	0	0	0	1	
11	0	0	1	0	0	
12	0	0	0	0	1	
13	0	0	1	0	0	
14	0	0	0	0	1	
15	0	0	0	0	1	
16	0	0	0	0	1	

17	0	0	0	0	1
18	0	0	0	0	1
19	0	0	0	0	0
20	0	0	1	0	0
21	0	0	0	0	1
22	0	0	0	0	1
23	0	0	0	0	1
24	0	0	0	0	1
25	0	0	0	0	1
26	0	0	0	0	1
27	0	0	0	0	1
28	0	0	0	0	1
29	0	0	0	0	1
...	...	...	...	...	...
1429	0	0	0	0	1
1430	0	0	0	0	1
1431	0	0	0	0	1
1432	0	0	0	0	1
1433	0	0	0	0	1
1434	0	0	1	0	0
1435	0	0	0	0	1
1436	0	0	0	0	1
1437	0	0	0	0	1
1438	0	0	0	0	1
1439	0	0	0	0	1
1440	0	0	0	0	1
1441	0	0	0	0	1
1442	0	0	1	0	0
1443	0	0	1	0	0
1444	0	0	0	0	1
1445	0	0	0	0	1
1446	0	0	0	0	1
1447	0	0	0	0	1
1448	0	0	0	0	1
1449	0	0	0	0	1
1450	0	0	0	0	1
1451	0	0	0	0	1
1452	0	0	0	0	1
1453	0	0	0	0	1
1454	0	0	0	0	1
1455	0	0	0	0	1
1456	0	0	0	0	1
1457	0	0	0	0	1
1458	0	0	0	0	1

	SaleCondition_Abnorml	SaleCondition_AdjLand	SaleCondition_Alloca	\
0	0	0	0	
1	0	0	0	

2	0	0	0
3	1	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	1	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	1	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	1	0	0
1432	1	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	1
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0

1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	1	0	0
1453	0	0	0
1454	0	0	0
1455	1	0	0
1456	1	0	0
1457	0	0	0
1458	0	0	0

	SaleCondition_Family	SaleCondition_Normal	SaleCondition_Partial
0	0	1	0
1	0	1	0
2	0	1	0
3	0	0	0
4	0	1	0
5	0	1	0
6	0	1	0
7	0	1	0
8	0	0	0
9	0	1	0
10	0	1	0
11	0	0	1
12	0	1	0
13	0	0	1
14	0	1	0
15	0	1	0
16	0	1	0
17	0	1	0
18	0	1	0
19	0	0	0
20	0	0	1
21	0	1	0
22	0	1	0
23	0	1	0
24	0	1	0
25	0	1	0
26	0	1	0
27	0	1	0
28	0	1	0
29	0	1	0
...	...	...	...
1429	0	1	0
1430	0	1	0
1431	0	0	0
1432	0	0	0

1433	0	1	0
1434	0	0	1
1435	0	1	0
1436	0	1	0
1437	0	1	0
1438	0	1	0
1439	0	1	0
1440	0	0	0
1441	0	1	0
1442	0	0	1
1443	0	0	1
1444	0	1	0
1445	0	1	0
1446	0	1	0
1447	0	1	0
1448	0	1	0
1449	0	1	0
1450	0	1	0
1451	0	1	0
1452	0	0	0
1453	0	1	0
1454	0	1	0
1455	0	0	0
1456	0	0	0
1457	0	1	0
1458	0	1	0

[2919 rows x 288 columns]

In [31]: *#filling NA's with the mean of the column:*  
all\_data = all\_data.fillna(all\_data.mean())

In [32]: all\_data

Out [32]:

	MSSubClass	LotFrontage	LotArea	OverallQual	OverallCond	YearBuilt	\
0	4.110874	4.189655	9.042040	7	5	2003	
1	3.044522	4.394449	9.169623	6	8	1976	
2	4.110874	4.234107	9.328212	7	5	2001	
3	4.262680	4.110874	9.164401	7	5	1915	
4	4.110874	4.442651	9.565284	8	5	2000	
5	3.931826	4.454347	9.555064	5	5	1993	
6	3.044522	4.330733	9.218804	8	5	2004	
7	4.110874	4.196175	9.247925	7	6	1973	
8	3.931826	3.951244	8.719481	7	5	1931	
9	5.252273	3.931826	8.912069	5	6	1939	
10	3.044522	4.262680	9.323758	5	5	1965	
11	4.110874	4.454347	9.386392	9	5	2005	
12	3.044522	4.196175	9.470317	5	6	1962	

13	3.044522	4.521789	9.273597	7	5	2006
14	3.044522	4.196175	9.298443	6	5	1960
15	3.828641	3.951244	8.719481	7	8	1929
16	3.044522	4.196175	9.327412	6	7	1970
17	4.510860	4.290459	9.286560	4	5	1967
18	3.044522	4.204693	9.524859	5	5	2004
19	3.044522	4.262680	8.930759	5	6	1958
20	4.110874	4.624973	9.562123	8	5	2005
21	3.828641	4.060443	8.915969	7	7	1930
22	3.044522	4.330733	9.184304	8	5	2002
23	4.795791	3.806662	8.348775	5	7	1976
24	3.044522	4.196175	9.017605	5	8	1968
25	3.044522	4.709530	9.563178	8	5	2007
26	3.044522	4.110874	8.881975	5	7	1951
27	3.044522	4.595120	9.348275	8	5	2007
28	3.044522	3.871201	9.700269	5	6	1957
29	3.433987	4.110874	8.752265	4	6	1927
...	...	...	...	...	...	...
1429	3.433987	3.931826	8.858084	4	6	1925
1430	3.931826	4.330733	9.111735	6	5	1957
1431	3.433987	4.248495	9.422787	3	5	1945
1432	5.252273	3.931826	9.105091	5	6	1951
1433	3.931826	4.110874	9.050289	3	5	1916
1434	4.795791	3.737670	8.656781	8	5	2005
1435	4.795791	3.806662	8.254009	8	5	2004
1436	3.044522	4.248495	10.068197	6	6	1979
1437	4.510860	4.189655	9.034319	6	5	1978
1438	3.044522	4.262680	9.117896	8	5	2001
1439	4.394449	4.948760	9.312987	6	6	1975
1440	3.044522	4.196175	10.821836	6	5	1958
1441	3.044522	4.196175	8.999496	6	5	2000
1442	3.044522	4.564348	9.519221	8	5	2005
1443	3.044522	4.488636	9.356862	9	5	2005
1444	3.044522	4.836282	10.349807	1	3	1951
1445	4.510860	4.369448	8.856661	7	5	1997
1446	5.081404	3.737670	7.888335	5	6	1977
1447	3.044522	4.077537	9.227492	5	7	1968
1448	4.510860	4.196175	9.378985	5	5	1970
1449	5.198497	3.091042	7.293698	4	6	1970
1450	5.081404	3.091042	7.303170	4	4	1972
1451	3.044522	4.394449	9.501890	5	5	1969
1452	5.081404	3.091042	7.335634	4	5	1970
1453	5.081404	3.091042	7.331060	4	5	1970
1454	5.081404	3.091042	7.568896	4	7	1970
1455	5.081404	3.091042	7.546974	4	5	1970
1456	3.044522	5.081404	9.903538	5	7	1960
1457	4.454347	4.143135	9.253591	5	5	1992
1458	4.110874	4.317488	9.172431	7	5	1993

	YearRemodAdd	MasVnrArea	BsmtFinSF1	BsmtFinSF2	BsmtUnfSF	\
0	2003	5.283204	6.561031	0.000000	5.017280	
1	1976	0.000000	6.886532	0.000000	5.652489	
2	2002	5.093750	6.188264	0.000000	6.075346	
3	1970	0.000000	5.379897	0.000000	6.293419	
4	2000	5.860786	6.486161	0.000000	6.196444	
5	1995	0.000000	6.597146	0.000000	4.174387	
6	2005	5.231109	7.222566	0.000000	5.762051	
7	1973	5.484797	6.756932	3.496508	5.379897	
8	1950	0.000000	0.000000	0.000000	6.859615	
9	1950	0.000000	6.747587	0.000000	4.948760	
10	1965	0.000000	6.810142	0.000000	4.905275	
11	2006	5.659482	6.906755	0.000000	5.181784	
12	1962	0.000000	6.603944	0.000000	5.170484	
13	2007	5.726848	0.000000	0.000000	7.309881	
14	1960	5.361292	6.598509	0.000000	6.255750	
15	2001	0.000000	0.000000	0.000000	6.725034	
16	1970	5.198497	6.361302	0.000000	6.056784	
17	1967	0.000000	0.000000	0.000000	0.000000	
18	2004	0.000000	6.472346	0.000000	6.150603	
19	1965	0.000000	6.224558	0.000000	6.265301	
20	2006	5.942799	0.000000	0.000000	7.055313	
21	1950	0.000000	0.000000	0.000000	6.458338	
22	2002	5.641907	0.000000	0.000000	7.483244	
23	1976	0.000000	6.734592	0.000000	5.303305	
24	2001	0.000000	5.241747	6.505784	5.323010	
25	2007	6.463029	0.000000	0.000000	7.356918	
26	2000	0.000000	5.459586	6.188264	5.198497	
27	2008	5.303305	7.105786	0.000000	6.188264	
28	1997	0.000000	7.153052	0.000000	5.337538	
29	1950	0.000000	0.000000	0.000000	6.255750	
...	...	...	...	...	...	
1429	1950	0.000000	0.000000	0.000000	6.464588	
1430	1957	5.793014	0.000000	0.000000	6.875232	
1431	1950	0.000000	0.000000	0.000000	0.000000	
1432	1951	0.000000	0.000000	0.000000	6.493754	
1433	1950	0.000000	0.000000	0.000000	5.379897	
1434	2006	6.161207	7.361375	0.000000	0.000000	
1435	2005	5.231109	7.355641	0.000000	3.433987	
1436	1979	0.000000	6.655440	0.000000	6.745236	
1437	1978	0.000000	0.000000	0.000000	7.417580	
1438	2001	0.000000	0.000000	0.000000	7.307873	
1439	1975	5.552960	6.357842	0.000000	6.315358	
1440	1958	0.000000	6.813445	0.000000	6.584791	
1441	2000	0.000000	7.036148	4.762174	4.867534	
1442	2006	5.293305	7.208600	0.000000	5.937536	
1443	2006	5.948035	7.283448	0.000000	5.950643	



1444	1951	0.000000	0.000000	0.000000	0.000000
1445	1997	5.303305	7.126087	0.000000	3.828641
1446	1977	0.000000	0.000000	0.000000	5.579730
1447	2003	0.000000	6.091310	0.000000	6.049733
1448	1970	0.000000	5.010635	0.000000	7.315884
1449	1970	0.000000	6.259581	0.000000	4.691348
1450	1972	0.000000	5.533389	0.000000	5.686975
1451	1979	5.273000	4.787492	5.843544	6.464588
1452	1970	0.000000	6.013715	0.000000	4.934474
1453	1970	0.000000	0.000000	0.000000	6.304449
1454	1970	0.000000	0.000000	0.000000	6.304449
1455	1970	0.000000	5.533389	0.000000	5.686975
1456	1996	0.000000	7.110696	0.000000	0.000000
1457	1992	0.000000	5.823046	0.000000	6.356108
1458	1994	4.553877	6.632002	0.000000	5.476464

	TotalBsmtSF	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	\
0	6.753438	6.753438	6.751101	0.0	7.444833	1.0	
1	7.141245	7.141245	0.000000	0.0	7.141245	0.0	
2	6.825460	6.825460	6.765039	0.0	7.488294	1.0	
3	6.629363	6.869014	6.629363	0.0	7.448916	1.0	
4	7.044033	7.044033	6.960348	0.0	7.695758	1.0	
5	6.680855	6.680855	6.340359	0.0	7.217443	1.0	
6	7.430707	7.435438	0.000000	0.0	7.435438	1.0	
7	7.010312	7.010312	6.891626	0.0	7.645398	1.0	
8	6.859615	6.930495	6.624065	0.0	7.481556	0.0	
9	6.899723	6.982863	0.000000	0.0	6.982863	1.0	
10	6.947937	6.947937	0.000000	0.0	6.947937	1.0	
11	7.069874	7.075809	7.041412	0.0	7.751475	1.0	
12	6.816736	6.816736	0.000000	0.0	6.816736	1.0	
13	7.309881	7.309881	0.000000	0.0	7.309881	0.0	
14	7.134094	7.134094	0.000000	0.0	7.134094	1.0	
15	6.725034	6.751101	0.000000	0.0	6.751101	0.0	
16	6.912743	6.912743	0.000000	0.0	6.912743	1.0	
17	0.000000	7.167809	0.000000	0.0	7.167809	0.0	
18	7.016610	7.016610	0.000000	0.0	7.016610	1.0	
19	6.937314	7.200425	0.000000	0.0	7.200425	0.0	
20	7.055313	7.055313	7.105786	0.0	7.773594	0.0	
21	6.458338	7.011214	0.000000	0.0	7.011214	0.0	
22	7.483244	7.493317	0.000000	0.0	7.493317	0.0	
23	6.947937	6.966967	0.000000	0.0	6.966967	1.0	
24	6.966967	6.966967	0.000000	0.0	6.966967	1.0	
25	7.356918	7.378384	0.000000	0.0	7.378384	0.0	
26	6.803505	6.803505	0.000000	0.0	6.803505	0.0	
27	7.441320	7.441320	0.000000	0.0	7.441320	1.0	
28	7.303170	7.378384	0.000000	0.0	7.378384	1.0	
29	6.255750	6.255750	0.000000	0.0	6.255750	0.0	
...	...	...	...	...	...	...	

1429	6.464588	6.464588	0.000000	0.0	6.464588	0.0
1430	6.875232	6.875232	6.510258	0.0	7.401842	0.0
1431	0.000000	6.593045	0.000000	0.0	6.593045	0.0
1432	6.493754	6.966967	5.820083	0.0	7.242082	0.0
1433	5.379897	6.357842	5.888878	0.0	6.842683	0.0
1434	7.361375	7.483807	0.000000	0.0	7.483807	2.0
1435	7.374629	7.406711	0.000000	0.0	7.406711	1.0
1436	7.393878	7.393878	0.000000	0.0	7.393878	0.0
1437	7.417580	7.417580	0.000000	0.0	7.417580	0.0
1438	7.307873	7.307873	0.000000	0.0	7.307873	0.0
1439	7.029088	7.099202	0.000000	0.0	7.099202	1.0
1440	7.398174	7.409136	0.000000	0.0	7.409136	1.0
1441	7.231287	7.247081	0.000000	0.0	7.247081	1.0
1442	7.455298	7.581210	0.000000	0.0	7.581210	1.0
1443	7.516977	7.516977	0.000000	0.0	7.516977	1.0
1444	0.000000	7.378384	0.000000	0.0	7.378384	0.0
1445	7.161622	7.221836	0.000000	0.0	7.221836	2.0
1446	5.579730	6.424869	6.535241	0.0	7.173958	0.0
1447	6.762730	6.774224	0.000000	0.0	6.774224	1.0
1448	7.410347	7.410347	0.000000	0.0	7.410347	0.0
1449	6.447306	6.447306	0.000000	0.0	6.447306	1.0
1450	6.304449	6.304449	6.304449	0.0	6.996681	0.0
1451	7.007601	7.215975	0.000000	0.0	7.215975	1.0
1452	6.304449	6.304449	6.304449	0.0	6.996681	0.0
1453	6.304449	6.304449	6.304449	0.0	6.996681	0.0
1454	6.304449	6.304449	6.304449	0.0	6.996681	0.0
1455	6.304449	6.304449	6.304449	0.0	6.996681	0.0
1456	7.110696	7.110696	0.000000	0.0	7.110696	1.0
1457	6.816736	6.878326	0.000000	0.0	6.878326	0.0
1458	6.904751	6.904751	6.912743	0.0	7.601402	0.0

	BsmtHalfBath	FullBath	HalfBath	BedroomAbvGr	KitchenAbvGr	\
0	0.000000	2	1	3	0.693147	
1	0.693147	2	0	3	0.693147	
2	0.000000	2	1	3	0.693147	
3	0.000000	1	0	3	0.693147	
4	0.000000	2	1	4	0.693147	
5	0.000000	1	1	1	0.693147	
6	0.000000	2	0	3	0.693147	
7	0.000000	2	1	3	0.693147	
8	0.000000	2	0	2	1.098612	
9	0.000000	1	0	2	1.098612	
10	0.000000	1	0	3	0.693147	
11	0.000000	3	0	4	0.693147	
12	0.000000	1	0	2	0.693147	
13	0.000000	2	0	3	0.693147	
14	0.000000	1	1	2	0.693147	
15	0.000000	1	0	2	0.693147	

16	0.000000	1	0	2	0.693147
17	0.000000	2	0	2	1.098612
18	0.000000	1	1	3	0.693147
19	0.000000	1	0	3	0.693147
20	0.000000	3	1	4	0.693147
21	0.000000	1	0	3	0.693147
22	0.000000	2	0	3	0.693147
23	0.000000	1	0	3	0.693147
24	0.000000	1	0	3	0.693147
25	0.000000	2	0	3	0.693147
26	0.693147	1	0	3	0.693147
27	0.000000	2	0	3	0.693147
28	0.000000	1	0	2	0.693147
29	0.000000	1	0	1	0.693147
...	...	...	...	...	...
1429	0.000000	1	0	2	0.693147
1430	0.000000	2	0	4	0.693147
1431	0.000000	1	0	2	0.693147
1432	0.000000	2	0	4	1.098612
1433	0.000000	1	0	2	0.693147
1434	0.000000	2	0	2	0.693147
1435	0.693147	2	0	2	0.693147
1436	0.693147	2	0	3	0.693147
1437	0.000000	2	0	4	1.098612
1438	0.000000	2	0	3	0.693147
1439	0.000000	2	0	3	0.693147
1440	0.000000	1	0	2	0.693147
1441	0.000000	2	0	2	0.693147
1442	0.000000	2	0	3	0.693147
1443	0.000000	2	0	3	0.693147
1444	0.000000	1	1	3	0.693147
1445	0.000000	2	0	2	1.098612
1446	0.000000	1	1	3	0.693147
1447	0.000000	1	0	3	0.693147
1448	0.000000	2	0	4	1.098612
1449	0.000000	1	0	1	0.693147
1450	0.000000	1	1	3	0.693147
1451	0.000000	1	0	3	0.693147
1452	0.000000	1	1	3	0.693147
1453	0.000000	1	1	3	0.693147
1454	0.000000	1	1	3	0.693147
1455	0.000000	1	1	3	0.693147
1456	0.000000	1	0	4	0.693147
1457	0.693147	1	0	3	0.693147
1458	0.000000	2	1	3	0.693147

	TotRmsAbvGrd	Fireplaces	GarageYrBlt	GarageCars	GarageArea \
0	8	0	2003.000000	2.0	548.0

1	6	1	1976.000000	2.0	460.0
2	6	1	2001.000000	2.0	608.0
3	7	1	1998.000000	3.0	642.0
4	9	1	2000.000000	3.0	836.0
5	5	0	1993.000000	2.0	480.0
6	7	1	2004.000000	2.0	636.0
7	7	2	1973.000000	2.0	484.0
8	8	2	1931.000000	2.0	468.0
9	5	2	1939.000000	1.0	205.0
10	5	0	1965.000000	1.0	384.0
11	11	2	2005.000000	3.0	736.0
12	4	0	1962.000000	1.0	352.0
13	7	1	2006.000000	3.0	840.0
14	5	1	1960.000000	1.0	352.0
15	5	0	1991.000000	2.0	576.0
16	5	1	1970.000000	2.0	480.0
17	6	0	1967.000000	2.0	516.0
18	6	0	2004.000000	2.0	576.0
19	6	0	1958.000000	1.0	294.0
20	9	1	2005.000000	3.0	853.0
21	6	1	1930.000000	1.0	280.0
22	7	1	2002.000000	2.0	534.0
23	6	1	1976.000000	2.0	572.0
24	6	1	1968.000000	1.0	270.0
25	7	1	2007.000000	3.0	890.0
26	5	0	2005.000000	2.0	576.0
27	7	1	2008.000000	3.0	772.0
28	6	2	1957.000000	1.0	319.0
29	4	0	1920.000000	1.0	240.0
...	...	...	...	...	...
1429	4	0	1925.000000	1.0	272.0
1430	6	0	1957.000000	1.0	384.0
1431	5	0	1978.113406	0.0	0.0
1432	8	0	1978.113406	0.0	0.0
1433	6	0	1978.113406	0.0	0.0
1434	5	1	2005.000000	2.0	495.0
1435	5	1	2004.000000	2.0	525.0
1436	6	1	1979.000000	2.0	576.0
1437	10	0	1978.000000	2.0	616.0
1438	7	0	2001.000000	2.0	490.0
1439	6	0	1975.000000	2.0	528.0
1440	6	2	1958.000000	2.0	518.0
1441	5	0	2000.000000	2.0	470.0
1442	8	2	2005.000000	3.0	714.0
1443	9	1	2005.000000	3.0	682.0
1444	6	0	1951.000000	1.0	270.0
1445	8	0	1997.000000	4.0	784.0
1446	5	1	1977.000000	1.0	336.0

1447	5	0	1968.000000	1.0	288.0
1448	8	0	1970.000000	3.0	928.0
1449	3	0	1978.113406	0.0	0.0
1450	5	0	1972.000000	1.0	253.0
1451	8	1	1969.000000	1.0	336.0
1452	5	0	1970.000000	1.0	286.0
1453	5	0	1978.113406	0.0	0.0
1454	5	0	1978.113406	0.0	0.0
1455	6	0	1970.000000	1.0	286.0
1456	7	1	1960.000000	2.0	576.0
1457	6	0	1978.113406	0.0	0.0
1458	9	1	1993.000000	3.0	650.0

	WoodDeckSF	OpenPorchSF	EnclosedPorch	3SsnPorch	ScreenPorch	\
0	0.000000	4.127134	0.000000	0.000000	0.000000	
1	5.700444	0.000000	0.000000	0.000000	0.000000	
2	0.000000	3.761200	0.000000	0.000000	0.000000	
3	0.000000	3.583519	5.609472	0.000000	0.000000	
4	5.262690	4.442651	0.000000	0.000000	0.000000	
5	3.713572	3.433987	0.000000	5.771441	0.000000	
6	5.545177	4.060443	0.000000	0.000000	0.000000	
7	5.463832	5.323010	5.433722	0.000000	0.000000	
8	4.510860	0.000000	5.327876	0.000000	0.000000	
9	0.000000	1.609438	0.000000	0.000000	0.000000	
10	0.000000	0.000000	0.000000	0.000000	0.000000	
11	4.997212	3.091042	0.000000	0.000000	0.000000	
12	4.948760	0.000000	0.000000	0.000000	5.176150	
13	5.081404	3.526361	0.000000	0.000000	0.000000	
14	0.000000	5.365976	5.176150	0.000000	0.000000	
15	3.891820	4.727388	0.000000	0.000000	0.000000	
16	0.000000	0.000000	0.000000	0.000000	0.000000	
17	0.000000	0.000000	0.000000	0.000000	0.000000	
18	0.000000	4.634729	0.000000	0.000000	0.000000	
19	0.000000	0.000000	0.000000	0.000000	0.000000	
20	5.484797	5.043425	0.000000	0.000000	0.000000	
21	0.000000	0.000000	5.327876	0.000000	0.000000	
22	5.147494	5.075174	0.000000	0.000000	0.000000	
23	4.615121	4.709530	0.000000	0.000000	0.000000	
24	6.008813	4.510860	0.000000	0.000000	0.000000	
25	0.000000	4.043051	0.000000	0.000000	0.000000	
26	5.407172	3.496508	0.000000	0.000000	0.000000	
27	0.000000	3.931826	0.000000	0.000000	0.000000	
28	5.666427	5.556828	0.000000	0.000000	0.000000	
29	3.912023	0.000000	4.477337	0.000000	0.000000	
...	...	...	...	...	...	
1429	5.220356	0.000000	4.262680	0.000000	0.000000	
1430	0.000000	3.091042	0.000000	0.000000	0.000000	
1431	0.000000	0.000000	3.178054	0.000000	0.000000	

1432	0.000000	0.000000	0.000000	0.000000	0.000000
1433	0.000000	0.000000	0.000000	0.000000	0.000000
1434	4.820282	3.988984	0.000000	0.000000	5.036953
1435	4.859812	3.988984	0.000000	0.000000	5.049856
1436	4.919981	3.367296	0.000000	0.000000	0.000000
1437	0.000000	0.000000	0.000000	0.000000	0.000000
1438	4.795791	4.615121	0.000000	0.000000	0.000000
1439	0.000000	0.000000	0.000000	0.000000	0.000000
1440	0.000000	0.000000	0.000000	0.000000	4.934474
1441	0.000000	5.159055	0.000000	0.000000	0.000000
1442	5.153292	3.663562	0.000000	0.000000	0.000000
1443	5.087596	5.420535	0.000000	0.000000	0.000000
1444	0.000000	0.000000	4.912655	0.000000	0.000000
1445	0.000000	3.891820	0.000000	0.000000	0.000000
1446	4.955827	0.000000	0.000000	0.000000	0.000000
1447	0.000000	4.795791	0.000000	0.000000	0.000000
1448	0.000000	0.000000	0.000000	0.000000	0.000000
1449	0.000000	0.000000	0.000000	0.000000	0.000000
1450	0.000000	0.000000	0.000000	0.000000	0.000000
1451	5.081404	0.000000	0.000000	0.000000	0.000000
1452	0.000000	0.000000	0.000000	0.000000	0.000000
1453	0.000000	3.555348	0.000000	0.000000	0.000000
1454	0.000000	0.000000	0.000000	0.000000	0.000000
1455	0.000000	3.218876	0.000000	0.000000	0.000000
1456	6.163315	0.000000	0.000000	0.000000	0.000000
1457	4.394449	3.496508	0.000000	0.000000	0.000000
1458	5.252273	3.891820	0.000000	0.000000	0.000000

	PoolArea	MiscVal	MoSold	YrSold	MSZoning_C (all)	MSZoning_FV	\
0	0.0	0.000000	2	2008	0	0	
1	0.0	0.000000	5	2007	0	0	
2	0.0	0.000000	9	2008	0	0	
3	0.0	0.000000	2	2006	0	0	
4	0.0	0.000000	12	2008	0	0	
5	0.0	6.552508	10	2009	0	0	
6	0.0	0.000000	8	2007	0	0	
7	0.0	5.860786	11	2009	0	0	
8	0.0	0.000000	4	2008	0	0	
9	0.0	0.000000	1	2008	0	0	
10	0.0	0.000000	2	2008	0	0	
11	0.0	0.000000	7	2006	0	0	
12	0.0	0.000000	9	2008	0	0	
13	0.0	0.000000	8	2007	0	0	
14	0.0	0.000000	5	2008	0	0	
15	0.0	0.000000	7	2007	0	0	
16	0.0	6.552508	3	2010	0	0	
17	0.0	6.216606	10	2006	0	0	
18	0.0	0.000000	6	2008	0	0	

19	0.0	0.000000	5	2009	0	0
20	0.0	0.000000	11	2006	0	0
21	0.0	0.000000	6	2007	0	0
22	0.0	0.000000	9	2008	0	0
23	0.0	0.000000	6	2007	0	0
24	0.0	0.000000	5	2010	0	0
25	0.0	0.000000	7	2009	0	0
26	0.0	0.000000	5	2010	0	0
27	0.0	0.000000	5	2010	0	0
28	0.0	0.000000	12	2006	0	0
29	0.0	0.000000	5	2008	0	0
...	...	...	...	...	...	...
1429	0.0	0.000000	3	2006	0	0
1430	0.0	0.000000	4	2006	0	0
1431	0.0	0.000000	10	2006	1	0
1432	0.0	0.000000	10	2006	1	0
1433	0.0	0.000000	4	2006	1	0
1434	0.0	0.000000	2	2006	0	0
1435	0.0	0.000000	12	2006	0	0
1436	0.0	0.000000	9	2006	0	0
1437	0.0	0.000000	10	2006	0	0
1438	0.0	0.000000	5	2006	0	0
1439	0.0	0.000000	5	2006	0	0
1440	0.0	0.000000	3	2006	0	0
1441	0.0	0.000000	10	2006	0	0
1442	0.0	0.000000	11	2006	0	0
1443	0.0	0.000000	9	2006	0	0
1444	0.0	0.000000	5	2006	0	0
1445	0.0	0.000000	11	2006	0	0
1446	0.0	0.000000	5	2006	0	0
1447	0.0	0.000000	10	2006	0	0
1448	0.0	0.000000	3	2006	0	0
1449	0.0	0.000000	4	2006	0	0
1450	0.0	0.000000	5	2006	0	0
1451	0.0	0.000000	5	2006	0	0
1452	0.0	0.000000	12	2006	0	0
1453	0.0	0.000000	6	2006	0	0
1454	0.0	0.000000	6	2006	0	0
1455	0.0	0.000000	4	2006	0	0
1456	0.0	0.000000	9	2006	0	0
1457	0.0	6.552508	7	2006	0	0
1458	0.0	0.000000	11	2006	0	0

	MSZoning_RH	MSZoning_RL	MSZoning_RM	Street_Grvl	Street_Pave	\
0	0	1	0	0	1	
1	0	1	0	0	1	
2	0	1	0	0	1	
3	0	1	0	0	1	

4	0	1	0	0	1
5	0	1	0	0	1
6	0	1	0	0	1
7	0	1	0	0	1
8	0	0	1	0	1
9	0	1	0	0	1
10	0	1	0	0	1
11	0	1	0	0	1
12	0	1	0	0	1
13	0	1	0	0	1
14	0	1	0	0	1
15	0	0	1	0	1
16	0	1	0	0	1
17	0	1	0	0	1
18	0	1	0	0	1
19	0	1	0	0	1
20	0	1	0	0	1
21	0	0	1	0	1
22	0	1	0	0	1
23	0	0	1	0	1
24	0	1	0	0	1
25	0	1	0	0	1
26	0	1	0	0	1
27	0	1	0	0	1
28	0	1	0	0	1
29	0	0	1	0	1
...	...	...	...	...	...
1429	0	0	1	0	1
1430	0	0	1	0	1
1431	0	0	0	0	1
1432	0	0	0	0	1
1433	0	0	0	1	0
1434	0	0	1	0	1
1435	0	0	1	0	1
1436	0	1	0	0	1
1437	0	1	0	0	1
1438	0	1	0	0	1
1439	0	1	0	0	1
1440	0	1	0	0	1
1441	0	1	0	0	1
1442	0	1	0	0	1
1443	0	1	0	0	1
1444	0	0	0	0	1
1445	0	0	1	0	1
1446	0	0	1	0	1
1447	0	1	0	0	1
1448	0	1	0	0	1
1449	0	0	1	0	1



1450	0	0	1	0	1
1451	0	1	0	0	1
1452	0	0	1	0	1
1453	0	0	1	0	1
1454	0	0	1	0	1
1455	0	0	1	0	1
1456	0	1	0	0	1
1457	0	1	0	0	1
1458	0	1	0	0	1

	Alley_Grvl	Alley_Pave	LotShape_IR1	LotShape_IR2	LotShape_IR3	\
0	0	0	0	0	0	
1	0	0	0	0	0	
2	0	0	1	0	0	
3	0	0	1	0	0	
4	0	0	1	0	0	
5	0	0	1	0	0	
6	0	0	0	0	0	
7	0	0	1	0	0	
8	0	0	0	0	0	
9	0	0	0	0	0	
10	0	0	0	0	0	
11	0	0	1	0	0	
12	0	0	0	1	0	
13	0	0	1	0	0	
14	0	0	1	0	0	
15	0	0	0	0	0	
16	0	0	1	0	0	
17	0	0	0	0	0	
18	0	0	0	0	0	
19	0	0	0	0	0	
20	0	0	1	0	0	
21	1	0	0	0	0	
22	0	0	0	0	0	
23	0	0	0	0	0	
24	0	0	1	0	0	
25	0	0	0	0	0	
26	0	0	0	0	0	
27	0	0	0	0	0	
28	0	0	1	0	0	
29	0	0	1	0	0	
...	...	...	...	...	...	
1429	0	0	0	0	0	
1430	0	0	0	0	0	
1431	0	0	0	0	0	
1432	0	0	0	0	0	
1433	0	0	0	0	0	
1434	0	0	1	0	0	

1435	0	0	1	0	0
1436	0	0	1	0	0
1437	0	0	0	0	0
1438	0	0	0	0	0
1439	0	0	0	0	0
1440	0	0	1	0	0
1441	0	0	1	0	0
1442	0	0	0	0	0
1443	0	0	0	0	0
1444	0	0	0	0	0
1445	0	0	0	0	0
1446	0	0	0	0	0
1447	0	0	1	0	0
1448	0	0	1	0	0
1449	0	0	0	0	0
1450	0	0	0	0	0
1451	0	0	0	0	0
1452	0	0	0	0	0
1453	0	0	0	0	0
1454	0	0	0	0	0
1455	0	0	0	0	0
1456	0	0	0	0	0
1457	0	0	0	0	0
1458	0	0	0	0	0

	LotShape_Reg	LandContour_Bnk	LandContour_HLS	LandContour_Low	\
0	1	0	0	0	
1	1	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	1	0	0	0	
7	0	0	0	0	
8	1	0	0	0	
9	1	0	0	0	
10	1	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	1	0	0	0	
16	0	0	0	0	
17	1	0	0	0	
18	1	0	0	0	
19	1	0	0	0	
20	0	0	0	0	
21	1	1	0	0	

22	1	0	0	0
23	1	0	0	0
24	0	0	0	0
25	1	0	0	0
26	1	0	0	0
27	1	0	0	0
28	0	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	1	0	0	0
1430	1	0	0	0
1431	1	0	0	0
1432	1	0	0	0
1433	1	1	0	0
1434	0	0	1	0
1435	0	0	1	0
1436	0	0	0	0
1437	1	0	0	0
1438	1	0	0	0
1439	1	0	0	0
1440	0	0	0	1
1441	0	0	0	0
1442	1	0	0	0
1443	1	0	0	0
1444	1	0	0	0
1445	1	0	0	0
1446	1	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	1	0	0	0
1450	1	0	0	0
1451	1	0	0	0
1452	1	0	0	0
1453	1	0	0	0
1454	1	0	0	0
1455	1	0	0	0
1456	1	0	0	0
1457	1	0	0	0
1458	1	0	0	0

	LandContour_Lvl	Utilities_AllPub	Utilities_NoSeWa	LotConfig_Corner	\
0	1	1	0	0	
1	1	1	0	0	
2	1	1	0	0	
3	1	1	0	1	
4	1	1	0	0	
5	1	1	0	0	
6	1	1	0	0	

7	1	1	0	1
8	1	1	0	0
9	1	1	0	1
10	1	1	0	0
11	1	1	0	0
12	1	1	0	0
13	1	1	0	0
14	1	1	0	1
15	1	1	0	1
16	1	1	0	0
17	1	1	0	0
18	1	1	0	0
19	1	1	0	0
20	1	1	0	1
21	0	1	0	0
22	1	1	0	0
23	1	1	0	0
24	1	1	0	0
25	1	1	0	1
26	1	1	0	1
27	1	1	0	0
28	1	1	0	0
29	1	1	0	0
...	...	...	...	...
1429	1	1	0	0
1430	1	1	0	0
1431	1	1	0	0
1432	1	1	0	0
1433	0	1	0	0
1434	0	1	0	0
1435	0	1	0	0
1436	1	1	0	0
1437	1	1	0	0
1438	1	1	0	1
1439	1	1	0	1
1440	0	1	0	0
1441	1	1	0	0
1442	1	1	0	1
1443	1	1	0	0
1444	1	1	0	0
1445	1	1	0	0
1446	1	1	0	0
1447	1	1	0	0
1448	1	1	0	1
1449	1	1	0	0
1450	1	1	0	0
1451	1	1	0	0
1452	1	1	0	0

1453	1	1	0	0
1454	1	1	0	0
1455	1	1	0	0
1456	1	1	0	0
1457	1	1	0	0
1458	1	1	0	0

	LotConfig_CulDSac	LotConfig_FR2	LotConfig_FR3	LotConfig_Inside	\
0	0	0	0	1	
1	0	1	0	0	
2	0	0	0	1	
3	0	0	0	0	
4	0	1	0	0	
5	0	0	0	1	
6	0	0	0	1	
7	0	0	0	0	
8	0	0	0	1	
9	0	0	0	0	
10	0	0	0	1	
11	0	0	0	1	
12	0	0	0	1	
13	0	0	0	1	
14	0	0	0	0	
15	0	0	0	0	
16	1	0	0	0	
17	0	0	0	1	
18	0	0	0	1	
19	0	0	0	1	
20	0	0	0	0	
21	0	0	0	1	
22	0	0	0	1	
23	0	0	0	1	
24	0	0	0	1	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	1	
28	1	0	0	0	
29	0	0	0	1	
...	...	...	...	...	
1429	0	0	0	1	
1430	0	0	0	1	
1431	0	0	0	1	
1432	0	0	0	1	
1433	0	0	0	1	
1434	0	0	0	1	
1435	0	0	0	1	
1436	0	0	0	1	
1437	0	0	0	1	

1438	0	0	0	0
1439	0	0	0	0
1440	0	0	0	1
1441	0	0	0	1
1442	0	0	0	0
1443	0	0	0	1
1444	0	0	0	1
1445	0	0	0	1
1446	0	0	0	1
1447	0	0	0	1
1448	0	0	0	0
1449	0	0	0	1
1450	0	0	0	1
1451	0	0	0	1
1452	0	0	0	1
1453	0	0	0	1
1454	0	0	0	1
1455	0	0	0	1
1456	0	0	0	1
1457	0	0	0	1
1458	0	0	0	1

	LandSlope_Gtl	LandSlope_Mod	LandSlope_Sev	Neighborhood_Blmngtn	\
0	1	0	0	0	
1	1	0	0	0	
2	1	0	0	0	
3	1	0	0	0	
4	1	0	0	0	
5	1	0	0	0	
6	1	0	0	0	
7	1	0	0	0	
8	1	0	0	0	
9	1	0	0	0	
10	1	0	0	0	
11	1	0	0	0	
12	1	0	0	0	
13	1	0	0	0	
14	1	0	0	0	
15	1	0	0	0	
16	1	0	0	0	
17	1	0	0	0	
18	1	0	0	0	
19	1	0	0	0	
20	1	0	0	0	
21	1	0	0	0	
22	1	0	0	0	
23	1	0	0	0	
24	1	0	0	0	

25	1	0	0	0
26	1	0	0	0
27	1	0	0	0
28	1	0	0	0
29	1	0	0	0
...	...	...	...	...
1429	1	0	0	0
1430	1	0	0	0
1431	1	0	0	0
1432	1	0	0	0
1433	1	0	0	0
1434	0	1	0	0
1435	0	1	0	0
1436	0	1	0	0
1437	1	0	0	0
1438	1	0	0	0
1439	1	0	0	0
1440	0	1	0	0
1441	1	0	0	0
1442	1	0	0	0
1443	1	0	0	0
1444	1	0	0	0
1445	1	0	0	0
1446	1	0	0	0
1447	1	0	0	0
1448	1	0	0	0
1449	1	0	0	0
1450	1	0	0	0
1451	0	1	0	0
1452	1	0	0	0
1453	1	0	0	0
1454	1	0	0	0
1455	1	0	0	0
1456	1	0	0	0
1457	1	0	0	0
1458	0	1	0	0

	Neighborhood_Blueste	Neighborhood_BrDale	Neighborhood_BrkSide	\
0	0	0	0	
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	0	0	
9	0	0	1	

10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	1
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	1
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0



1456	0	0	0
1457	0	0	0
1458	0	0	0

	Neighborhood_ClearCr	Neighborhood_CollgCr	Neighborhood_Crawfor \
0	0	1	0
1	0	0	0
2	0	1	0
3	0	0	1
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	1	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	1	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	1
1435	0	0	1
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0

1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Neighborhood_Edwards	Neighborhood_Gilbert	Neighborhood_IDOTRR \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	1
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0

28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	1
1430	0	0	1
1431	0	0	1
1432	0	0	1
1433	0	0	1
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Neighborhood_MeadowV	Neighborhood_Mitchel	Neighborhood_NAmes \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	1	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0

13	0	0	0
14	0	0	1
15	0	0	0
16	0	0	1
17	0	0	0
18	0	0	0
19	0	0	1
20	0	0	0
21	0	0	0
22	0	0	0
23	1	0	0
24	0	0	0
25	0	0	0
26	0	0	1
27	0	0	0
28	0	0	1
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	1	0
1437	0	1	0
1438	0	1	0
1439	0	1	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	1	0
1445	0	1	0
1446	1	0	0
1447	0	1	0
1448	0	1	0
1449	1	0	0
1450	1	0	0
1451	0	1	0
1452	1	0	0
1453	1	0	0
1454	1	0	0
1455	1	0	0
1456	0	1	0
1457	0	1	0
1458	0	1	0

	Neighborhood_NPkVill	Neighborhood_NWAmes	Neighborhood_NoRidge	\
0	0	0	0	
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	1	
5	0	0	0	
6	0	0	0	
7	0	1	0	
8	0	0	0	
9	0	0	0	
10	0	0	0	
11	0	0	0	
12	0	0	0	
13	0	0	0	
14	0	0	0	
15	0	0	0	
16	0	0	0	
17	0	0	0	
18	0	0	0	
19	0	0	0	
20	0	0	0	
21	0	0	0	
22	0	0	0	
23	0	0	0	
24	0	0	0	
25	0	0	0	
26	0	0	0	
27	0	0	0	
28	0	0	0	
29	0	0	0	
...	...	...	...	
1429	0	0	0	
1430	0	0	0	
1431	0	0	0	
1432	0	0	0	
1433	0	0	0	
1434	0	0	0	
1435	0	0	0	
1436	0	0	0	
1437	0	0	0	
1438	0	0	0	
1439	0	0	0	
1440	0	0	0	
1441	0	0	0	
1442	0	0	0	
1443	0	0	0	

1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Neighborhood_NridgHt	Neighborhood_OldTown	Neighborhood_SWISU	\
0	0	0	0	
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	1	0	
9	0	0	0	
10	0	0	0	
11	1	0	0	
12	0	0	0	
13	0	0	0	
14	0	0	0	
15	0	0	0	
16	0	0	0	
17	0	0	0	
18	0	0	0	
19	0	0	0	
20	1	0	0	
21	0	0	0	
22	0	0	0	
23	0	0	0	
24	0	0	0	
25	1	0	0	
26	0	0	0	
27	1	0	0	
28	0	0	0	
29	0	0	0	
...	...	...	...	

1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Neighborhood_Sawyer	Neighborhood_SawyerW	Neighborhood_Somerst \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	1
7	0	0	0
8	0	0	0
9	0	0	0
10	1	0	0
11	0	0	0
12	1	0	0
13	0	0	0
14	0	0	0
15	0	0	0

16	0	0	0
17	1	0	0
18	0	1	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	1	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Neighborhood_StoneBr	Neighborhood_Timber	Neighborhood_Veenker	\
0	0	0	0	



1	0	0	1
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	1	0
1441	0	1	0
1442	0	1	0
1443	0	1	0
1444	0	0	0
1445	0	0	0
1446	0	0	0

1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Condition1_Artery	Condition1_Feedr	Condition1_Norm	Condition1_PosA	\
0	0	0	1	0	
1	0	1	0	0	
2	0	0	1	0	
3	0	0	1	0	
4	0	0	1	0	
5	0	0	1	0	
6	0	0	1	0	
7	0	0	0	0	
8	1	0	0	0	
9	1	0	0	0	
10	0	0	1	0	
11	0	0	1	0	
12	0	0	1	0	
13	0	0	1	0	
14	0	0	1	0	
15	0	0	1	0	
16	0	0	1	0	
17	0	0	1	0	
18	0	0	0	0	
19	0	0	1	0	
20	0	0	1	0	
21	0	0	1	0	
22	0	0	1	0	
23	0	0	1	0	
24	0	0	1	0	
25	0	0	1	0	
26	0	0	1	0	
27	0	0	1	0	
28	0	0	1	0	
29	0	1	0	0	
...	...	...	...	...	
1429	0	0	1	0	
1430	0	0	1	0	
1431	0	1	0	0	

1432	0	0	1	0
1433	0	0	1	0
1434	0	0	1	0
1435	0	0	1	0
1436	0	0	1	0
1437	0	0	1	0
1438	0	0	1	0
1439	0	0	1	0
1440	0	0	1	0
1441	0	0	1	0
1442	0	0	1	0
1443	0	0	1	0
1444	1	0	0	0
1445	0	0	1	0
1446	0	0	1	0
1447	0	0	1	0
1448	0	0	1	0
1449	0	0	1	0
1450	0	0	1	0
1451	0	0	1	0
1452	0	0	1	0
1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	0
1457	0	0	1	0
1458	0	0	1	0

	Condition1_PosN	Condition1_RRAe	Condition1_RRAn	Condition1_RRNe	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	1	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	1	0	0	

19	0	0	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	0	0	0	0
25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	0	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	0	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0

	Condition1_RRNn	Condition2_Artery	Condition2_Feedr	Condition2_Norm	\
0	0	0	0	1	
1	0	0	0	1	
2	0	0	0	1	
3	0	0	0	1	

4	0	0	0	1
5	0	0	0	1
6	0	0	0	1
7	0	0	0	1
8	0	0	0	1
9	0	1	0	0
10	0	0	0	1
11	0	0	0	1
12	0	0	0	1
13	0	0	0	1
14	0	0	0	1
15	0	0	0	1
16	0	0	0	1
17	0	0	0	1
18	0	0	0	1
19	0	0	0	1
20	0	0	0	1
21	0	0	0	1
22	0	0	0	1
23	0	0	0	1
24	0	0	0	1
25	0	0	0	1
26	0	0	0	1
27	0	0	0	1
28	0	0	0	1
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	1
1430	0	0	0	1
1431	0	0	0	1
1432	0	0	0	1
1433	0	0	0	1
1434	0	0	0	1
1435	0	0	0	1
1436	0	0	0	1
1437	0	0	0	1
1438	0	0	0	1
1439	0	0	0	1
1440	0	0	0	1
1441	0	0	0	1
1442	0	0	0	1
1443	0	0	0	1
1444	0	0	0	1
1445	0	0	0	1
1446	0	0	0	1
1447	0	0	0	1
1448	0	0	0	1
1449	0	0	0	1

1450	0	0	0	1
1451	0	0	0	1
1452	0	0	0	1
1453	0	0	0	1
1454	0	0	0	1
1455	0	0	0	1
1456	0	0	0	1
1457	0	0	0	1
1458	0	0	0	1

	Condition2_PosA	Condition2_PosN	Condition2_RRAe	Condition2_RRAn	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
...	...	...	...	...	
1429	0	0	0	0	
1430	0	0	0	0	
1431	0	0	0	0	
1432	0	0	0	0	
1433	0	0	0	0	
1434	0	0	0	0	

1435	0	0	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	0	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	0	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0

	Condition2_RRn	BldgType_1Fam	BldgType_2fmCon	BldgType_Duplex	\
0	0	1	0	0	
1	0	1	0	0	
2	0	1	0	0	
3	0	1	0	0	
4	0	1	0	0	
5	0	1	0	0	
6	0	1	0	0	
7	0	1	0	0	
8	0	1	0	0	
9	0	0	1	0	
10	0	1	0	0	
11	0	1	0	0	
12	0	1	0	0	
13	0	1	0	0	
14	0	1	0	0	
15	0	1	0	0	
16	0	1	0	0	
17	0	0	0	1	
18	0	1	0	0	
19	0	1	0	0	
20	0	1	0	0	
21	0	1	0	0	

22	0	1	0	0
23	0	0	0	0
24	0	1	0	0
25	0	1	0	0
26	0	1	0	0
27	0	1	0	0
28	0	1	0	0
29	1	1	0	0
...	...	...	...	...
1429	0	1	0	0
1430	0	1	0	0
1431	0	1	0	0
1432	0	0	1	0
1433	0	1	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	1	0	0
1437	0	0	0	1
1438	0	1	0	0
1439	0	1	0	0
1440	0	1	0	0
1441	0	1	0	0
1442	0	1	0	0
1443	0	1	0	0
1444	0	1	0	0
1445	0	0	0	1
1446	0	0	0	0
1447	0	1	0	0
1448	0	0	0	1
1449	0	0	0	0
1450	0	0	0	0
1451	0	1	0	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	1	0	0
1457	0	1	0	0
1458	0	1	0	0

	BldgType_Twnhs	BldgType_TwnhsE	HouseStyle_1.5Fin	HouseStyle_1.5Unf	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	1	0	
6	0	0	0	0	



7	0	0	0	0
8	0	0	1	0
9	0	0	0	1
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	1
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	0
21	0	0	0	1
22	0	0	0	0
23	0	1	0	0
24	0	0	0	0
25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	0
1430	0	0	1	0
1431	0	0	0	0
1432	0	0	1	0
1433	0	0	1	0
1434	0	1	0	0
1435	0	1	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	0	1	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	1	0	0	0
1450	0	1	0	0
1451	0	0	0	0
1452	1	0	0	0

1453	1	0	0	0
1454	1	0	0	0
1455	0	1	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0

	HouseStyle_1Story	HouseStyle_2.5Fin	HouseStyle_2.5Unf	\
0	0	0	0	
1	1	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	1	0	0	
7	0	0	0	
8	0	0	0	
9	0	0	0	
10	1	0	0	
11	0	0	0	
12	1	0	0	
13	1	0	0	
14	1	0	0	
15	0	0	0	
16	1	0	0	
17	1	0	0	
18	1	0	0	
19	1	0	0	
20	0	0	0	
21	0	0	0	
22	1	0	0	
23	1	0	0	
24	1	0	0	
25	1	0	0	
26	1	0	0	
27	1	0	0	
28	1	0	0	
29	1	0	0	
...	...	...	...	
1429	1	0	0	
1430	0	0	0	
1431	1	0	0	
1432	0	0	0	
1433	0	0	0	
1434	1	0	0	
1435	1	0	0	
1436	1	0	0	
1437	1	0	0	

1438	1	0	0
1439	0	0	0
1440	1	0	0
1441	1	0	0
1442	1	0	0
1443	1	0	0
1444	1	0	0
1445	0	0	0
1446	0	0	0
1447	1	0	0
1448	1	0	0
1449	0	0	0
1450	0	0	0
1451	1	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	1	0	0
1457	0	0	0
1458	0	0	0

	HouseStyle_2Story	HouseStyle_SFoyer	HouseStyle_SLvl	RoofStyle_Flat	\
0	1	0	0	0	
1	0	0	0	0	
2	1	0	0	0	
3	1	0	0	0	
4	1	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	1	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	1	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	1	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	

25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	1	0
1440	0	0	0	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	1	0	0
1446	1	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	1	0	0
1450	1	0	0	0
1451	0	0	0	0
1452	1	0	0	0
1453	1	0	0	0
1454	1	0	0	0
1455	1	0	0	0
1456	0	0	0	0
1457	0	1	0	0
1458	1	0	0	0

	RoofStyle_Gable	RoofStyle_Gambrel	RoofStyle_Hip	RoofStyle_Mansard	\
0	1	0	0	0	
1	1	0	0	0	
2	1	0	0	0	
3	1	0	0	0	
4	1	0	0	0	
5	1	0	0	0	
6	1	0	0	0	
7	1	0	0	0	
8	1	0	0	0	
9	1	0	0	0	

10	0	0	1	0
11	0	0	1	0
12	0	0	1	0
13	1	0	0	0
14	0	0	1	0
15	1	0	0	0
16	1	0	0	0
17	1	0	0	0
18	1	0	0	0
19	0	0	1	0
20	1	0	0	0
21	1	0	0	0
22	0	0	1	0
23	1	0	0	0
24	1	0	0	0
25	1	0	0	0
26	1	0	0	0
27	1	0	0	0
28	1	0	0	0
29	1	0	0	0
...	...	...	...	...
1429	1	0	0	0
1430	1	0	0	0
1431	1	0	0	0
1432	1	0	0	0
1433	1	0	0	0
1434	0	0	1	0
1435	0	0	1	0
1436	1	0	0	0
1437	1	0	0	0
1438	0	0	1	0
1439	1	0	0	0
1440	1	0	0	0
1441	1	0	0	0
1442	1	0	0	0
1443	0	0	1	0
1444	1	0	0	0
1445	1	0	0	0
1446	1	0	0	0
1447	1	0	0	0
1448	1	0	0	0
1449	1	0	0	0
1450	1	0	0	0
1451	1	0	0	0
1452	1	0	0	0
1453	1	0	0	0
1454	1	0	0	0
1455	1	0	0	0

1456	1	0	0	0
1457	1	0	0	0
1458	1	0	0	0

	RoofStyle_Shed	RoofMatl_ClyTile	RoofMatl_CompShg	RoofMatl_Membran	\
0	0	0	1	0	
1	0	0	1	0	
2	0	0	1	0	
3	0	0	1	0	
4	0	0	1	0	
5	0	0	1	0	
6	0	0	1	0	
7	0	0	1	0	
8	0	0	1	0	
9	0	0	1	0	
10	0	0	1	0	
11	0	0	1	0	
12	0	0	1	0	
13	0	0	1	0	
14	0	0	1	0	
15	0	0	1	0	
16	0	0	1	0	
17	0	0	1	0	
18	0	0	1	0	
19	0	0	1	0	
20	0	0	1	0	
21	0	0	1	0	
22	0	0	1	0	
23	0	0	1	0	
24	0	0	1	0	
25	0	0	1	0	
26	0	0	1	0	
27	0	0	1	0	
28	0	0	1	0	
29	0	0	1	0	
...	...	...	...	...	
1429	0	0	1	0	
1430	0	0	1	0	
1431	0	0	1	0	
1432	0	0	1	0	
1433	0	0	1	0	
1434	0	0	1	0	
1435	0	0	1	0	
1436	0	0	1	0	
1437	0	0	1	0	
1438	0	0	1	0	
1439	0	0	1	0	
1440	0	0	0	0	

1441	0	0	1	0
1442	0	0	1	0
1443	0	0	1	0
1444	0	0	1	0
1445	0	0	1	0
1446	0	0	1	0
1447	0	0	1	0
1448	0	0	1	0
1449	0	0	1	0
1450	0	0	1	0
1451	0	0	1	0
1452	0	0	1	0
1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	0
1457	0	0	1	0
1458	0	0	1	0

	RoofMatl_Metal	RoofMatl_Roll	RoofMatl_Tar&Grv	RoofMatl_WdShake	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	

28	0	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	1	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	0	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	0	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0

	RoofMatl_WdShngl	Exterior1st_AsbShng	Exterior1st_AsphShn	\
0	0	0	0	
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	0	0	
9	0	0	0	
10	0	0	0	
11	0	0	0	
12	0	0	0	



13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Exterior1st_BrkComm	Exterior1st_BrkFace	Exterior1st_CBlock	\
0	0	0	0	
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	1	0	
9	0	0	0	
10	0	0	0	
11	0	0	0	
12	0	0	0	
13	0	0	0	
14	0	0	0	
15	0	0	0	
16	0	0	0	
17	0	0	0	
18	0	0	0	
19	0	1	0	
20	0	0	0	
21	0	0	0	
22	0	0	0	
23	0	0	0	
24	0	0	0	
25	0	0	0	
26	0	0	0	
27	0	0	0	
28	0	0	0	
29	0	0	0	
...	...	...	...	
1429	0	0	0	
1430	0	0	0	
1431	0	0	0	
1432	0	0	0	
1433	0	0	0	
1434	0	0	0	
1435	0	0	0	
1436	0	0	0	
1437	0	0	0	
1438	0	0	0	
1439	0	0	0	
1440	0	0	0	
1441	0	0	0	
1442	0	0	0	
1443	0	0	0	

1444	0	0	1
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Exterior1st_CemntBd	Exterior1st_HdBoard	Exterior1st_ImStucc	\
0	0	0	0	
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	1	0	
8	0	0	0	
9	0	0	0	
10	0	1	0	
11	0	0	0	
12	0	1	0	
13	0	0	0	
14	0	0	0	
15	0	0	0	
16	0	0	0	
17	0	0	0	
18	0	0	0	
19	0	0	0	
20	0	0	0	
21	0	0	0	
22	0	0	0	
23	1	0	0	
24	0	0	0	
25	0	0	0	
26	0	0	0	
27	0	0	0	
28	0	0	0	
29	0	0	0	
...	...	...	...	

1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	1	0	0
1435	1	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	1	0	0
1447	0	0	0
1448	0	0	0
1449	1	0	0
1450	1	0	0
1451	0	0	0
1452	1	0	0
1453	1	0	0
1454	1	0	0
1455	1	0	0
1456	0	0	0
1457	0	1	0
1458	0	1	0

	Exterior1st_MetalSd	Exterior1st_Plywood	Exterior1st_Stone	\
0	0	0	0	
1	1	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	0	0	
9	1	0	0	
10	0	0	0	
11	0	0	0	
12	0	0	0	
13	0	0	0	
14	1	0	0	
15	0	0	0	

16	0	0	0
17	1	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	1	0
25	0	0	0
26	0	0	0
27	0	0	0
28	1	0	0
29	1	0	0
...	...	...	...
1429	1	0	0
1430	1	0	0
1431	0	0	0
1432	0	0	0
1433	1	0	0
1434	0	0	0
1435	0	0	0
1436	0	1	0
1437	0	1	0
1438	0	0	0
1439	0	1	0
1440	0	1	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	1	0	0
1446	0	0	0
1447	0	1	0
1448	0	1	0
1449	0	0	0
1450	0	0	0
1451	0	1	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0
Exterior1st_Stucco Exterior1st_VinylSd Exterior1st_Wd Sdng \			
0	0	1	0

1	0	0	0
2	0	1	0
3	0	0	1
4	0	1	0
5	0	1	0
6	0	1	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	1	0
14	0	0	0
15	0	0	1
16	0	0	1
17	0	0	0
18	0	1	0
19	0	0	0
20	0	1	0
21	0	0	1
22	0	1	0
23	0	0	0
24	0	0	0
25	0	1	0
26	0	0	1
27	0	1	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	1
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	1	0
1439	0	0	0
1440	0	0	0
1441	0	1	0
1442	0	1	0
1443	0	1	0
1444	0	0	0
1445	0	0	0
1446	0	0	0

1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	1	0
1457	0	0	0
1458	0	0	0
	Exterior1st_WdShng	Exterior2nd_AsbShng	Exterior2nd_AsphShn \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	1	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0

1432	1	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Exterior2nd_Brk Cmn	Exterior2nd_BrkFace	Exterior2nd_CBlock \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0



19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0
	Exterior2nd_CmentBd	Exterior2nd_HdBoard	Exterior2nd_ImStucc \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0

4	0	0	0
5	0	0	0
6	0	0	0
7	0	1	0
8	0	0	0
9	0	0	0
10	0	1	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	1	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	1	0	0
1435	1	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	1	0	0
1447	0	0	0
1448	0	0	0
1449	1	0	0

1450	1	0	0
1451	0	0	0
1452	1	0	0
1453	1	0	0
1454	1	0	0
1455	1	0	0
1456	0	0	0
1457	0	0	0
1458	0	1	0
	Exterior2nd_MetalSd	Exterior2nd_Other	Exterior2nd_Plywood \
0	0	0	0
1	1	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	1	0	0
10	0	0	0
11	0	0	0
12	0	0	1
13	0	0	0
14	1	0	0
15	0	0	0
16	0	0	0
17	1	0	0
18	0	0	0
19	0	0	1
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	1
25	0	0	0
26	0	0	0
27	0	0	0
28	1	0	0
29	1	0	0
...	...	...	...
1429	1	0	0
1430	1	0	0
1431	0	0	0
1432	0	0	0
1433	1	0	0
1434	0	0	0

1435	0	0	0
1436	0	0	1
1437	0	0	1
1438	0	0	0
1439	0	0	1
1440	0	0	1
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	1	0	0
1446	0	0	0
1447	0	0	1
1448	0	0	1
1449	0	0	0
1450	0	0	0
1451	0	0	1
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Exterior2nd_Stone	Exterior2nd_Stucco	Exterior2nd_VinylSd	\
0	0	0	1	
1	0	0	0	
2	0	0	1	
3	0	0	0	
4	0	0	1	
5	0	0	1	
6	0	0	1	
7	0	0	0	
8	0	0	0	
9	0	0	0	
10	0	0	0	
11	0	0	0	
12	0	0	0	
13	0	0	1	
14	0	0	0	
15	0	0	0	
16	0	0	0	
17	0	0	0	
18	0	0	1	
19	0	0	0	
20	0	0	1	
21	0	0	0	

22	0	0	1
23	0	0	0
24	0	0	0
25	0	0	1
26	0	0	0
27	0	0	1
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	1
1439	0	0	0
1440	0	0	0
1441	0	0	1
1442	0	0	1
1443	0	0	1
1444	0	0	1
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	1
1457	0	0	0
1458	0	0	0
Exterior2nd_Wd Sdng Exterior2nd_Wd Shng MasVnrType_BrkCmn \			
0	0	0	0
1	0	0	0
2	0	0	0
3	0	1	0
4	0	0	0
5	0	0	0
6	0	0	0

7	0	0	0
8	0	1	0
9	0	0	0
10	0	0	0
11	0	1	0
12	0	0	0
13	0	0	0
14	0	0	0
15	1	0	0
16	1	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	1	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	1	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	1	0	0
1432	0	1	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0

1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	1	0
1458	0	0	0

	MasVnrType_BrkFace	MasVnrType_None	MasVnrType_Stone	ExterQual_Ex	\
0	1	0	0	0	
1	0	1	0	0	
2	1	0	0	0	
3	0	1	0	0	
4	1	0	0	0	
5	0	1	0	0	
6	0	0	1	0	
7	0	0	1	0	
8	0	1	0	0	
9	0	1	0	0	
10	0	1	0	0	
11	0	0	1	1	
12	0	1	0	0	
13	0	0	1	0	
14	1	0	0	0	
15	0	1	0	0	
16	1	0	0	0	
17	0	1	0	0	
18	0	1	0	0	
19	0	1	0	0	
20	1	0	0	0	
21	0	1	0	0	
22	1	0	0	0	
23	0	1	0	0	
24	0	1	0	0	
25	0	0	1	0	
26	0	1	0	0	
27	0	0	1	0	
28	0	1	0	0	
29	0	1	0	0	
...	...	...	...	...	
1429	0	1	0	0	
1430	1	0	0	0	
1431	0	1	0	0	
1432	0	1	0	0	
1433	0	1	0	0	
1434	0	0	1	0	
1435	0	0	1	0	
1436	0	1	0	0	
1437	0	1	0	0	

1438	0	1	0	0
1439	1	0	0	0
1440	0	1	0	0
1441	0	1	0	0
1442	0	0	1	0
1443	1	0	0	1
1444	0	1	0	0
1445	1	0	0	0
1446	0	1	0	0
1447	0	1	0	0
1448	0	1	0	0
1449	0	1	0	0
1450	0	1	0	0
1451	1	0	0	0
1452	0	1	0	0
1453	0	1	0	0
1454	0	1	0	0
1455	0	1	0	0
1456	0	1	0	0
1457	0	1	0	0
1458	1	0	0	0

	ExterQual_Fa	ExterQual_Gd	ExterQual_TA	ExterCond_Ex	ExterCond_Fa	\
0	0	1	0	0	0	
1	0	0	1	0	0	
2	0	1	0	0	0	
3	0	0	1	0	0	
4	0	1	0	0	0	
5	0	0	1	0	0	
6	0	1	0	0	0	
7	0	0	1	0	0	
8	0	0	1	0	0	
9	0	0	1	0	0	
10	0	0	1	0	0	
11	0	0	0	0	0	
12	0	0	1	0	0	
13	0	1	0	0	0	
14	0	0	1	0	0	
15	0	0	1	0	0	
16	0	0	1	0	0	
17	0	0	1	0	0	
18	0	0	1	0	0	
19	0	0	1	0	0	
20	0	1	0	0	0	
21	0	0	1	0	0	
22	0	1	0	0	0	
23	0	0	1	0	0	
24	0	0	1	0	0	



25	0	1	0	0	0
26	0	0	1	0	0
27	0	1	0	0	0
28	0	0	1	0	0
29	0	0	1	0	0
...	...	...	...	...	...
1429	0	0	1	0	0
1430	0	0	1	0	0
1431	0	0	1	0	0
1432	1	0	0	0	1
1433	0	0	1	0	0
1434	0	1	0	0	0
1435	0	1	0	0	0
1436	0	0	1	0	0
1437	0	0	1	0	0
1438	0	1	0	0	0
1439	0	0	1	0	0
1440	0	0	1	0	0
1441	0	1	0	0	0
1442	0	1	0	0	0
1443	0	0	0	0	0
1444	0	0	1	0	1
1445	0	0	1	0	0
1446	0	0	1	0	0
1447	0	0	1	0	0
1448	0	0	1	0	0
1449	0	0	1	0	0
1450	0	0	1	0	0
1451	0	0	1	0	0
1452	0	0	1	0	0
1453	0	0	1	0	0
1454	0	0	1	0	0
1455	0	0	1	0	0
1456	0	0	1	0	0
1457	0	0	1	0	0
1458	0	0	1	0	0

	ExterCond_Gd	ExterCond_Po	ExterCond_TA	Foundation_BrkTil	\
0	0	0	1	0	
1	0	0	1	0	
2	0	0	1	0	
3	0	0	1	1	
4	0	0	1	0	
5	0	0	1	0	
6	0	0	1	0	
7	0	0	1	0	
8	0	0	1	1	
9	0	0	1	1	

10	0	0	1	0
11	0	0	1	0
12	0	0	1	0
13	0	0	1	0
14	0	0	1	0
15	0	0	1	1
16	0	0	1	0
17	0	0	1	0
18	0	0	1	0
19	0	0	1	0
20	0	0	1	0
21	0	0	1	0
22	0	0	1	0
23	0	0	1	0
24	1	0	0	0
25	0	0	1	0
26	0	0	1	0
27	0	0	1	0
28	0	0	1	0
29	0	0	1	1
...	...	...	...	...
1429	0	0	1	1
1430	0	0	1	0
1431	0	0	1	0
1432	0	0	0	0
1433	0	0	1	0
1434	0	0	1	0
1435	0	0	1	0
1436	0	0	1	0
1437	0	0	1	0
1438	0	0	1	0
1439	0	0	1	0
1440	0	0	1	0
1441	0	0	1	0
1442	0	0	1	0
1443	0	0	1	0
1444	0	0	0	0
1445	1	0	0	0
1446	0	0	1	0
1447	0	0	1	0
1448	0	0	1	0
1449	0	0	1	0
1450	0	0	1	0
1451	0	0	1	0
1452	0	0	1	0
1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0

1456	0	0	1	0
1457	0	0	1	0
1458	0	0	1	0

	Foundation_CBlock	Foundation_PConc	Foundation_Slab	Foundation_Stone	\
0	0	1	0	0	
1	1	0	0	0	
2	0	1	0	0	
3	0	0	0	0	
4	0	1	0	0	
5	0	0	0	0	
6	0	1	0	0	
7	1	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	1	0	0	0	
11	0	1	0	0	
12	1	0	0	0	
13	0	1	0	0	
14	1	0	0	0	
15	0	0	0	0	
16	1	0	0	0	
17	0	0	1	0	
18	0	1	0	0	
19	1	0	0	0	
20	0	1	0	0	
21	0	1	0	0	
22	0	1	0	0	
23	0	1	0	0	
24	1	0	0	0	
25	0	1	0	0	
26	1	0	0	0	
27	0	1	0	0	
28	1	0	0	0	
29	0	0	0	0	
...	...	...	...	...	
1429	0	0	0	0	
1430	1	0	0	0	
1431	0	0	1	0	
1432	1	0	0	0	
1433	0	1	0	0	
1434	0	1	0	0	
1435	0	1	0	0	
1436	1	0	0	0	
1437	1	0	0	0	
1438	0	1	0	0	
1439	1	0	0	0	
1440	1	0	0	0	

1441	0	0	0	0
1442	0	1	0	0
1443	0	1	0	0
1444	1	0	0	0
1445	0	1	0	0
1446	0	1	0	0
1447	1	0	0	0
1448	1	0	0	0
1449	1	0	0	0
1450	1	0	0	0
1451	0	1	0	0
1452	1	0	0	0
1453	1	0	0	0
1454	1	0	0	0
1455	1	0	0	0
1456	1	0	0	0
1457	0	1	0	0
1458	0	1	0	0

	Foundation_Wood	BsmtQual_Ex	BsmtQual_Fa	BsmtQual_Gd	BsmtQual_TA	\
0	0	0	0	1	0	
1	0	0	0	1	0	
2	0	0	0	1	0	
3	0	0	0	0	1	
4	0	0	0	1	0	
5	1	0	0	1	0	
6	0	1	0	0	0	
7	0	0	0	1	0	
8	0	0	0	0	1	
9	0	0	0	0	1	
10	0	0	0	0	1	
11	0	1	0	0	0	
12	0	0	0	0	1	
13	0	0	0	1	0	
14	0	0	0	0	1	
15	0	0	0	0	1	
16	0	0	0	0	1	
17	0	0	0	0	0	
18	0	0	0	0	1	
19	0	0	0	0	1	
20	0	1	0	0	0	
21	0	0	0	0	1	
22	0	0	0	1	0	
23	0	0	0	1	0	
24	0	0	0	0	1	
25	0	0	0	1	0	
26	0	0	0	0	1	
27	0	1	0	0	0	

28	0	0	0	0	1
29	0	0	0	0	1
...	...	...	...	...	...
1429	0	0	0	0	1
1430	0	0	0	0	1
1431	0	0	0	0	0
1432	0	0	0	0	1
1433	0	0	1	0	0
1434	0	1	0	0	0
1435	0	1	0	0	0
1436	0	0	0	1	0
1437	0	0	0	0	1
1438	0	1	0	0	0
1439	0	0	0	0	1
1440	0	0	0	1	0
1441	1	0	0	1	0
1442	0	1	0	0	0
1443	0	0	0	1	0
1444	0	0	0	0	0
1445	0	0	0	1	0
1446	0	0	0	1	0
1447	0	0	0	0	1
1448	0	0	0	0	1
1449	0	0	0	1	0
1450	0	0	0	0	1
1451	0	0	0	0	1
1452	0	0	0	0	1
1453	0	0	0	0	1
1454	0	0	0	0	1
1455	0	0	0	0	1
1456	0	0	0	0	1
1457	0	0	0	1	0
1458	0	0	0	1	0

	BsmtCond_Fa	BsmtCond_Gd	BsmtCond_Po	BsmtCond_TA	BsmtExposure_Av	\
0	0	0	0	1	0	
1	0	0	0	1	0	
2	0	0	0	1	0	
3	0	1	0	0	0	
4	0	0	0	1	1	
5	0	0	0	1	0	
6	0	0	0	1	1	
7	0	0	0	1	0	
8	0	0	0	1	0	
9	0	0	0	1	0	
10	0	0	0	1	0	
11	0	0	0	1	0	
12	0	0	0	1	0	

13	0	0	0	1	1
14	0	0	0	1	0
15	0	0	0	1	0
16	0	0	0	1	0
17	0	0	0	0	0
18	0	0	0	1	0
19	0	0	0	1	0
20	0	0	0	1	1
21	0	0	0	1	0
22	0	0	0	1	0
23	0	0	0	1	0
24	0	0	0	1	0
25	0	0	0	1	0
26	0	0	0	1	0
27	0	0	0	1	0
28	0	0	0	1	0
29	0	0	0	1	0
...	...	...	...	...	...
1429	0	0	0	1	0
1430	0	0	0	1	0
1431	0	0	0	0	0
1432	0	0	0	1	0
1433	1	0	0	0	0
1434	0	0	0	1	0
1435	0	0	0	1	0
1436	0	0	0	1	0
1437	0	0	0	1	0
1438	0	0	0	1	0
1439	0	0	0	1	1
1440	0	0	0	1	0
1441	0	0	0	1	1
1442	0	1	0	0	1
1443	0	0	0	1	0
1444	0	0	0	0	0
1445	0	0	0	1	0
1446	0	0	0	1	0
1447	0	0	0	1	0
1448	0	0	0	1	0
1449	0	0	0	1	1
1450	0	0	0	1	0
1451	0	0	0	1	1
1452	0	0	0	1	0
1453	0	0	0	1	0
1454	0	0	0	1	0
1455	0	0	0	1	0
1456	0	0	0	1	0
1457	0	0	0	1	1
1458	0	0	0	1	1

	BsmtExposure_Gd	BsmtExposure_Mn	BsmtExposure_No	BsmtFinType1_ALQ	\
0	0	0	1	0	
1	1	0	0	1	
2	0	1	0	0	
3	0	0	1	1	
4	0	0	0	0	
5	0	0	1	0	
6	0	0	0	0	
7	0	1	0	1	
8	0	0	1	0	
9	0	0	1	0	
10	0	0	1	0	
11	0	0	1	0	
12	0	0	1	1	
13	0	0	0	0	
14	0	0	1	0	
15	0	0	1	0	
16	0	0	1	1	
17	0	0	0	0	
18	0	0	1	0	
19	0	0	1	0	
20	0	0	0	0	
21	0	0	1	0	
22	0	0	1	0	
23	0	0	1	0	
24	0	1	0	0	
25	0	0	1	0	
26	0	1	0	0	
27	0	0	1	0	
28	1	0	0	0	
29	0	0	1	0	
...	...	...	...	...	
1429	0	0	1	0	
1430	0	0	1	0	
1431	0	0	0	0	
1432	0	1	0	0	
1433	0	0	1	0	
1434	1	0	0	0	
1435	1	0	0	0	
1436	1	0	0	0	
1437	0	1	0	0	
1438	0	0	1	0	
1439	0	0	0	0	
1440	1	0	0	0	
1441	0	0	0	0	
1442	0	0	0	0	
1443	1	0	0	0	

1444	0	0	0	0
1445	1	0	0	0
1446	0	1	0	0
1447	0	0	1	1
1448	0	0	1	0
1449	0	0	0	0
1450	0	0	1	0
1451	0	0	0	0
1452	0	0	1	0
1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	1
1457	0	0	0	0
1458	0	0	0	0

	BsmtFinType1_BLQ	BsmtFinType1_GLQ	BsmtFinType1_LwQ	BsmtFinType1_Rec	\
0	0	1	0	0	
1	0	0	0	0	
2	0	1	0	0	
3	0	0	0	0	
4	0	1	0	0	
5	0	1	0	0	
6	0	1	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	1	0	0	
10	0	0	0	1	
11	0	1	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	1	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	1	0	0	
19	0	0	1	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	1	0	0	
24	0	0	0	1	
25	0	0	0	0	
26	1	0	0	0	
27	0	1	0	0	
28	1	0	0	0	
29	0	0	0	0	
...	...	...	...	...	



1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	1	0	0
1435	0	1	0	0
1436	0	1	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	1	0	0
1440	1	0	0	0
1441	0	1	0	0
1442	0	1	0	0
1443	0	1	0	0
1444	0	0	0	0
1445	0	1	0	0
1446	0	0	0	0
1447	0	0	0	0
1448	1	0	0	0
1449	0	1	0	0
1450	0	0	0	1
1451	0	0	0	1
1452	0	0	0	1
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	1
1456	0	0	0	0
1457	0	1	0	0
1458	0	0	1	0

	BsmtFinType1_Unf	BsmtFinType2_ALQ	BsmtFinType2_BLQ	BsmtFinType2_GLQ	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	1	0	
8	1	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	1	0	0	0	
14	0	0	0	0	
15	1	0	0	0	

16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	1	0	0	0
21	1	0	0	0
22	1	0	0	0
23	0	0	0	0
24	0	1	0	0
25	1	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	1	0	0	0
...	...	...	...	...
1429	1	0	0	0
1430	1	0	0	0
1431	0	0	0	0
1432	1	0	0	0
1433	1	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	1	0	0	0
1438	1	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	0	0	1	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	1	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	1	0
1452	0	0	0	0
1453	1	0	0	0
1454	1	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0
	BsmtFinType2_LwQ	BsmtFinType2_Rec	BsmtFinType2_Unf	Heating_Floor \
0	0	0	1	0

1	0	0	1	0
2	0	0	1	0
3	0	0	1	0
4	0	0	1	0
5	0	0	1	0
6	0	0	1	0
7	0	0	0	0
8	0	0	1	0
9	0	0	1	0
10	0	0	1	0
11	0	0	1	0
12	0	0	1	0
13	0	0	1	0
14	0	0	1	0
15	0	0	1	0
16	0	0	1	0
17	0	0	0	0
18	0	0	1	0
19	0	0	1	0
20	0	0	1	0
21	0	0	1	0
22	0	0	1	0
23	0	0	1	0
24	0	0	0	0
25	0	0	1	0
26	0	1	0	0
27	0	0	1	0
28	0	0	1	0
29	0	0	1	0
...	...	...	...	...
1429	0	0	1	0
1430	0	0	1	0
1431	0	0	0	0
1432	0	0	1	0
1433	0	0	1	0
1434	0	0	1	0
1435	0	0	1	0
1436	0	0	1	0
1437	0	0	1	0
1438	0	0	1	0
1439	0	0	1	0
1440	0	0	1	0
1441	0	0	0	0
1442	0	0	1	0
1443	0	0	1	0
1444	0	0	0	0
1445	0	0	1	0
1446	0	0	1	0

1447	0	0	1	0
1448	0	0	1	0
1449	0	0	1	0
1450	0	0	1	0
1451	0	0	0	0
1452	0	0	1	0
1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	0
1457	0	0	1	0
1458	0	0	1	0

	Heating_GasA	Heating_GasW	Heating_Grav	Heating_OthW	Heating_Wall	\
0	1	0	0	0	0	
1	1	0	0	0	0	
2	1	0	0	0	0	
3	1	0	0	0	0	
4	1	0	0	0	0	
5	1	0	0	0	0	
6	1	0	0	0	0	
7	1	0	0	0	0	
8	1	0	0	0	0	
9	1	0	0	0	0	
10	1	0	0	0	0	
11	1	0	0	0	0	
12	1	0	0	0	0	
13	1	0	0	0	0	
14	1	0	0	0	0	
15	1	0	0	0	0	
16	1	0	0	0	0	
17	1	0	0	0	0	
18	1	0	0	0	0	
19	1	0	0	0	0	
20	1	0	0	0	0	
21	1	0	0	0	0	
22	1	0	0	0	0	
23	1	0	0	0	0	
24	1	0	0	0	0	
25	1	0	0	0	0	
26	1	0	0	0	0	
27	1	0	0	0	0	
28	1	0	0	0	0	
29	1	0	0	0	0	
...	...	...	...	...	...	
1429	1	0	0	0	0	
1430	1	0	0	0	0	
1431	1	0	0	0	0	

1432	1	0	0	0	0
1433	1	0	0	0	0
1434	1	0	0	0	0
1435	1	0	0	0	0
1436	1	0	0	0	0
1437	1	0	0	0	0
1438	1	0	0	0	0
1439	1	0	0	0	0
1440	1	0	0	0	0
1441	1	0	0	0	0
1442	1	0	0	0	0
1443	1	0	0	0	0
1444	1	0	0	0	0
1445	1	0	0	0	0
1446	1	0	0	0	0
1447	1	0	0	0	0
1448	1	0	0	0	0
1449	1	0	0	0	0
1450	1	0	0	0	0
1451	1	0	0	0	0
1452	1	0	0	0	0
1453	1	0	0	0	0
1454	1	0	0	0	0
1455	1	0	0	0	0
1456	1	0	0	0	0
1457	1	0	0	0	0
1458	1	0	0	0	0

	HeatingQC_Ex	HeatingQC_Fa	HeatingQC_Gd	HeatingQC_Po	HeatingQC_TA	\
0	1	0	0	0	0	
1	1	0	0	0	0	
2	1	0	0	0	0	
3	0	0	1	0	0	
4	1	0	0	0	0	
5	1	0	0	0	0	
6	1	0	0	0	0	
7	1	0	0	0	0	
8	0	0	1	0	0	
9	1	0	0	0	0	
10	1	0	0	0	0	
11	1	0	0	0	0	
12	0	0	0	0	1	
13	1	0	0	0	0	
14	0	0	0	0	1	
15	1	0	0	0	0	
16	1	0	0	0	0	
17	0	0	0	0	1	
18	1	0	0	0	0	

19	0	0	0	0	1
20	1	0	0	0	0
21	1	0	0	0	0
22	1	0	0	0	0
23	0	0	0	0	1
24	1	0	0	0	0
25	1	0	0	0	0
26	0	0	0	0	1
27	1	0	0	0	0
28	0	0	0	0	1
29	0	1	0	0	0
...	...	...	...	...	...
1429	0	0	1	0	0
1430	0	0	1	0	0
1431	0	0	0	0	1
1432	0	0	0	0	1
1433	0	1	0	0	0
1434	1	0	0	0	0
1435	1	0	0	0	0
1436	0	0	0	0	1
1437	0	0	0	0	1
1438	1	0	0	0	0
1439	0	0	0	0	1
1440	0	0	0	0	1
1441	1	0	0	0	0
1442	1	0	0	0	0
1443	1	0	0	0	0
1444	0	0	0	0	1
1445	0	0	1	0	0
1446	0	0	0	0	1
1447	1	0	0	0	0
1448	0	0	0	0	1
1449	0	0	0	0	1
1450	0	0	0	0	1
1451	0	1	0	0	0
1452	0	0	0	0	1
1453	0	0	0	0	1
1454	0	0	1	0	0
1455	0	0	0	0	1
1456	1	0	0	0	0
1457	0	0	0	0	1
1458	1	0	0	0	0

	CentralAir_N	CentralAir_Y	Electrical_FuseA	Electrical_FuseF	\
0	0	1	0	0	
1	0	1	0	0	
2	0	1	0	0	
3	0	1	0	0	

4	0	1	0	0
5	0	1	0	0
6	0	1	0	0
7	0	1	0	0
8	0	1	0	1
9	0	1	0	0
10	0	1	0	0
11	0	1	0	0
12	0	1	0	0
13	0	1	0	0
14	0	1	0	0
15	0	1	1	0
16	0	1	0	0
17	0	1	0	0
18	0	1	0	0
19	0	1	0	0
20	0	1	0	0
21	0	1	0	1
22	0	1	0	0
23	0	1	0	0
24	0	1	0	0
25	0	1	0	0
26	0	1	0	0
27	0	1	0	0
28	0	1	0	0
29	1	0	0	0
...	...	...	...	...
1429	0	1	0	0
1430	0	1	0	0
1431	1	0	0	0
1432	1	0	0	0
1433	1	0	0	0
1434	0	1	0	0
1435	0	1	0	0
1436	0	1	0	0
1437	0	1	0	0
1438	0	1	0	0
1439	0	1	0	0
1440	0	1	0	0
1441	0	1	0	0
1442	0	1	0	0
1443	0	1	0	0
1444	0	1	1	0
1445	0	1	0	0
1446	0	1	0	0
1447	0	1	0	0
1448	0	1	0	0
1449	0	1	0	0

1450	0	1	0	0
1451	0	1	0	0
1452	0	1	0	0
1453	0	1	0	0
1454	0	1	0	0
1455	0	1	0	0
1456	0	1	0	0
1457	0	1	0	0
1458	0	1	0	0

	Electrical_FuseP	Electrical_Mix	Electrical_SBrkr	KitchenQual_Ex	\
0	0	0	1	0	
1	0	0	1	0	
2	0	0	1	0	
3	0	0	1	0	
4	0	0	1	0	
5	0	0	1	0	
6	0	0	1	0	
7	0	0	1	0	
8	0	0	0	0	
9	0	0	1	0	
10	0	0	1	0	
11	0	0	1	1	
12	0	0	1	0	
13	0	0	1	0	
14	0	0	1	0	
15	0	0	0	0	
16	0	0	1	0	
17	0	0	1	0	
18	0	0	1	0	
19	0	0	1	0	
20	0	0	1	0	
21	0	0	0	0	
22	0	0	1	0	
23	0	0	1	0	
24	0	0	1	0	
25	0	0	1	0	
26	0	0	1	0	
27	0	0	1	0	
28	0	0	1	0	
29	0	0	1	0	
...	...	...	...	...	
1429	0	0	1	0	
1430	0	0	1	0	
1431	0	0	1	0	
1432	0	0	1	0	
1433	0	0	1	0	
1434	0	0	1	1	



1435	0	0	1	0
1436	0	0	1	0
1437	0	0	1	0
1438	0	0	1	0
1439	0	0	1	0
1440	0	0	1	0
1441	0	0	1	0
1442	0	0	1	0
1443	0	0	1	1
1444	0	0	0	0
1445	0	0	1	0
1446	0	0	1	0
1447	0	0	1	0
1448	0	0	1	0
1449	0	0	1	0
1450	0	0	1	0
1451	0	0	1	0
1452	0	0	1	0
1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	0
1457	0	0	1	0
1458	0	0	1	0

	KitchenQual_Fa	KitchenQual_Gd	KitchenQual_TA	Functional_Maj1	\
0	0	1	0	0	
1	0	0	1	0	
2	0	1	0	0	
3	0	1	0	0	
4	0	1	0	0	
5	0	0	1	0	
6	0	1	0	0	
7	0	0	1	0	
8	0	0	1	0	
9	0	0	1	0	
10	0	0	1	0	
11	0	0	0	0	
12	0	0	1	0	
13	0	1	0	0	
14	0	0	1	0	
15	0	0	1	0	
16	0	0	1	0	
17	0	0	1	0	
18	0	1	0	0	
19	0	0	1	0	
20	0	1	0	0	
21	0	1	0	0	

22	0	1	0	0
23	0	0	1	0
24	0	1	0	0
25	0	1	0	0
26	0	1	0	0
27	0	1	0	0
28	0	0	1	0
29	1	0	0	0
...	...	...	...	...
1429	1	0	0	0
1430	0	1	0	0
1431	0	0	1	0
1432	0	0	1	0
1433	0	0	1	0
1434	0	0	0	0
1435	0	1	0	0
1436	1	0	0	0
1437	0	0	1	0
1438	0	1	0	0
1439	0	0	1	0
1440	0	0	1	0
1441	0	1	0	0
1442	0	1	0	0
1443	0	0	0	0
1444	0	0	1	0
1445	0	0	1	0
1446	0	0	1	0
1447	0	0	1	0
1448	0	0	1	0
1449	0	0	1	0
1450	0	0	1	0
1451	0	0	1	0
1452	0	0	1	0
1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	0
1457	0	0	1	0
1458	0	0	1	0

	Functional_Maj2	Functional_Min1	Functional_Min2	Functional_Mod	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	

7	0	0	0	0
8	0	1	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	1	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	0	0	0	0
25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	1
1432	0	0	1	0
1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	1
1445	0	0	0	0
1446	0	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	0	0
1452	0	0	0	0

1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0

	Functional_Sev	Functional_Typ	FireplaceQu_Ex	FireplaceQu_Fa	\
0	0	1	0	0	
1	0	1	0	0	
2	0	1	0	0	
3	0	1	0	0	
4	0	1	0	0	
5	0	1	0	0	
6	0	1	0	0	
7	0	1	0	0	
8	0	0	0	0	
9	0	1	0	0	
10	0	1	0	0	
11	0	1	0	0	
12	0	1	0	0	
13	0	1	0	0	
14	0	1	0	1	
15	0	1	0	0	
16	0	1	0	0	
17	0	1	0	0	
18	0	1	0	0	
19	0	0	0	0	
20	0	1	0	0	
21	0	1	0	0	
22	0	1	0	0	
23	0	1	0	0	
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25	0	1	0	0	
26	0	1	0	0	
27	0	1	0	0	
28	0	1	0	0	
29	0	1	0	0	
...	...	...	...	...	
1429	0	1	0	0	
1430	0	1	0	0	
1431	0	0	0	0	
1432	0	0	0	0	
1433	0	1	0	0	
1434	0	1	0	0	
1435	0	1	0	0	
1436	0	1	0	0	
1437	0	1	0	0	

1438	0	1	0	0
1439	0	1	0	0
1440	0	1	0	0
1441	0	1	0	0
1442	0	1	0	0
1443	0	1	0	0
1444	0	0	0	0
1445	0	1	0	0
1446	0	1	0	0
1447	0	1	0	0
1448	0	1	0	0
1449	0	1	0	0
1450	0	1	0	0
1451	0	1	0	0
1452	0	1	0	0
1453	0	1	0	0
1454	0	1	0	0
1455	0	1	0	0
1456	0	1	0	0
1457	0	1	0	0
1458	0	1	0	0

	FireplaceQu_Gd	FireplaceQu_Po	FireplaceQu_TA	GarageType_2Types	\
0	0	0	0	0	
1	0	0	1	0	
2	0	0	1	0	
3	1	0	0	0	
4	0	0	1	0	
5	0	0	0	0	
6	1	0	0	0	
7	0	0	1	0	
8	0	0	1	0	
9	0	0	1	0	
10	0	0	0	0	
11	1	0	0	0	
12	0	0	0	0	
13	1	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	1	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	1	0	0	0	
21	1	0	0	0	
22	1	0	0	0	
23	0	0	1	0	
24	0	0	1	0	

25	1	0	0	0
26	0	0	0	0
27	1	0	0	0
28	1	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	1	0	0	0
1435	1	0	0	0
1436	0	0	1	0
1437	0	0	0	1
1438	0	0	0	0
1439	0	0	0	0
1440	1	0	0	0
1441	0	0	0	0
1442	1	0	0	0
1443	1	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	0	0	1	0
1447	0	0	0	0
1448	0	0	0	1
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	1	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	1	0
1457	0	0	0	0
1458	0	0	1	0

	GarageType_Attchd	GarageType_Basment	GarageType_BuiltIn	\
0	1	0	0	
1	1	0	0	
2	1	0	0	
3	0	0	0	
4	1	0	0	
5	1	0	0	
6	1	0	0	
7	1	0	0	
8	0	0	0	
9	1	0	0	

10	0	0	0
11	0	0	1
12	0	0	0
13	1	0	0
14	1	0	0
15	0	0	0
16	1	0	0
17	0	0	0
18	0	0	0
19	1	0	0
20	0	0	1
21	1	0	0
22	1	0	0
23	1	0	0
24	1	0	0
25	1	0	0
26	0	0	0
27	1	0	0
28	1	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	1	0	0
1435	1	0	0
1436	1	0	0
1437	0	0	0
1438	1	0	0
1439	1	0	0
1440	1	0	0
1441	1	0	0
1442	1	0	0
1443	1	0	0
1444	1	0	0
1445	1	0	0
1446	0	0	1
1447	1	0	0
1448	0	0	0
1449	0	0	0
1450	1	0	0
1451	1	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0

1456	0	0	0
1457	0	0	0
1458	1	0	0

	GarageType_CarPort	GarageType_Detchd	GarageFinish_Fin \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	1	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	1	0
9	0	0	0
10	0	1	0
11	0	0	1
12	0	1	0
13	0	0	0
14	0	0	0
15	0	1	0
16	0	0	1
17	1	0	0
18	0	1	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	1	0
27	0	0	0
28	0	0	0
29	0	1	0
...	...	...	...
1429	0	1	0
1430	0	1	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	1
1435	0	0	1
1436	0	0	1
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0



1441	0	0	0
1442	0	0	1
1443	0	0	1
1444	0	0	0
1445	0	0	1
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	1	0	0
1453	0	0	0
1454	0	0	0
1455	1	0	0
1456	0	1	0
1457	0	0	0
1458	0	0	1

	GarageFinish_RFn	GarageFinish_Unf	GarageQual_Ex	GarageQual_Fa	\
0	1	0	0	0	
1	1	0	0	0	
2	1	0	0	0	
3	0	1	0	0	
4	1	0	0	0	
5	0	1	0	0	
6	1	0	0	0	
7	1	0	0	0	
8	0	1	0	1	
9	1	0	0	0	
10	0	1	0	0	
11	0	0	0	0	
12	0	1	0	0	
13	1	0	0	0	
14	1	0	0	0	
15	0	1	0	0	
16	0	0	0	0	
17	0	1	0	0	
18	0	1	0	0	
19	0	1	0	0	
20	1	0	0	0	
21	0	1	0	0	
22	1	0	0	0	
23	0	1	0	0	
24	0	1	0	0	
25	1	0	0	0	
26	0	1	0	0	
27	1	0	0	0	

28	1	0	0	0
29	0	1	0	1
...	...	...	...	...
1429	0	1	0	0
1430	0	1	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	0	1	0	0
1438	1	0	0	0
1439	0	1	0	0
1440	0	1	0	0
1441	0	1	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	1	0	1
1445	0	0	0	0
1446	1	0	0	0
1447	1	0	0	0
1448	0	1	0	0
1449	0	0	0	0
1450	0	1	0	0
1451	1	0	0	0
1452	0	1	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	1	0	0
1456	0	1	0	0
1457	0	0	0	0
1458	0	0	0	0

	GarageQual_Gd	GarageQual_Po	GarageQual_TA	GarageCond_Ex	\
0	0	0	1	0	
1	0	0	1	0	
2	0	0	1	0	
3	0	0	1	0	
4	0	0	1	0	
5	0	0	1	0	
6	0	0	1	0	
7	0	0	1	0	
8	0	0	0	0	
9	1	0	0	0	
10	0	0	1	0	
11	0	0	1	0	
12	0	0	1	0	

13	0	0	1	0
14	0	0	1	0
15	0	0	1	0
16	0	0	1	0
17	0	0	1	0
18	0	0	1	0
19	0	0	1	0
20	0	0	1	0
21	0	0	1	0
22	0	0	1	0
23	0	0	1	0
24	0	0	1	0
25	0	0	1	0
26	0	0	1	0
27	0	0	1	0
28	0	0	1	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	1	0
1430	0	0	1	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	0	1	0
1435	0	0	1	0
1436	0	0	1	0
1437	0	0	1	0
1438	0	0	1	0
1439	0	0	1	0
1440	0	0	1	0
1441	0	0	1	0
1442	0	0	1	0
1443	0	0	1	0
1444	0	0	0	0
1445	0	0	1	0
1446	0	0	1	0
1447	0	0	1	0
1448	0	0	1	0
1449	0	0	0	0
1450	0	0	1	0
1451	0	0	1	0
1452	0	0	1	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	1	0
1456	0	0	1	0
1457	0	0	0	0
1458	0	0	1	0

	GarageCond_Fa	GarageCond_Gd	GarageCond_Po	GarageCond_TA	\
0	0	0	0	1	
1	0	0	0	1	
2	0	0	0	1	
3	0	0	0	1	
4	0	0	0	1	
5	0	0	0	1	
6	0	0	0	1	
7	0	0	0	1	
8	0	0	0	1	
9	0	0	0	1	
10	0	0	0	1	
11	0	0	0	1	
12	0	0	0	1	
13	0	0	0	1	
14	0	0	0	1	
15	0	0	0	1	
16	0	0	0	1	
17	0	0	0	1	
18	0	0	0	1	
19	0	0	0	1	
20	0	0	0	1	
21	0	0	0	1	
22	0	0	0	1	
23	0	0	0	1	
24	0	0	0	1	
25	0	0	0	1	
26	0	0	0	1	
27	0	0	0	1	
28	0	0	0	1	
29	0	0	0	1	
...	...	...	...	...	
1429	0	0	0	1	
1430	0	0	0	1	
1431	0	0	0	0	
1432	0	0	0	0	
1433	0	0	0	0	
1434	0	0	0	1	
1435	0	0	0	1	
1436	0	0	0	1	
1437	0	0	0	1	
1438	0	0	0	1	
1439	0	0	0	1	
1440	0	0	0	1	
1441	0	0	0	1	
1442	0	0	0	1	
1443	0	0	0	1	

1444	0	0	0	1
1445	0	0	0	1
1446	0	0	0	1
1447	0	0	0	1
1448	0	0	0	1
1449	0	0	0	0
1450	1	0	0	0
1451	0	0	0	1
1452	0	0	0	1
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	1
1456	0	0	0	1
1457	0	0	0	0
1458	0	0	0	1

	PavedDrive_N	PavedDrive_P	PavedDrive_Y	PoolQC_Ex	PoolQC_Fa	\
0	0	0	1	0	0	
1	0	0	1	0	0	
2	0	0	1	0	0	
3	0	0	1	0	0	
4	0	0	1	0	0	
5	0	0	1	0	0	
6	0	0	1	0	0	
7	0	0	1	0	0	
8	0	0	1	0	0	
9	0	0	1	0	0	
10	0	0	1	0	0	
11	0	0	1	0	0	
12	0	0	1	0	0	
13	0	0	1	0	0	
14	0	0	1	0	0	
15	0	0	1	0	0	
16	0	0	1	0	0	
17	0	0	1	0	0	
18	0	0	1	0	0	
19	0	0	1	0	0	
20	0	0	1	0	0	
21	1	0	0	0	0	
22	0	0	1	0	0	
23	0	0	1	0	0	
24	0	0	1	0	0	
25	0	0	1	0	0	
26	0	0	1	0	0	
27	0	0	1	0	0	
28	0	0	1	0	0	
29	0	0	1	0	0	
...	...	...	...	...	...	

1429	1	0	0	0	0
1430	0	0	1	0	0
1431	1	0	0	0	0
1432	0	0	1	0	0
1433	1	0	0	0	0
1434	0	0	1	0	0
1435	0	0	1	0	0
1436	0	0	1	0	0
1437	0	0	1	0	0
1438	0	0	1	0	0
1439	0	0	1	0	0
1440	0	0	1	0	0
1441	0	0	1	0	0
1442	0	0	1	0	0
1443	0	0	1	0	0
1444	1	0	0	0	0
1445	0	0	1	0	0
1446	0	0	1	0	0
1447	0	0	1	0	0
1448	0	0	1	0	0
1449	0	0	1	0	0
1450	0	0	1	0	0
1451	0	0	1	0	0
1452	0	0	1	0	0
1453	0	0	1	0	0
1454	0	0	1	0	0
1455	0	0	1	0	0
1456	0	0	1	0	0
1457	0	0	1	0	0
1458	0	0	1	0	0

	PoolQC_Gd	Fence_GdPrv	Fence_GdWo	Fence_MnPrv	Fence_MnWw	\
0	0	0	0	0	0	
1	0	0	0	0	0	
2	0	0	0	0	0	
3	0	0	0	0	0	
4	0	0	0	0	0	
5	0	0	0	1	0	
6	0	0	0	0	0	
7	0	0	0	0	0	
8	0	0	0	0	0	
9	0	0	0	0	0	
10	0	0	0	0	0	
11	0	0	0	0	0	
12	0	0	0	0	0	
13	0	0	0	0	0	
14	0	0	1	0	0	
15	0	1	0	0	0	

16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	1	0
20	0	0	0	0	0
21	0	1	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	1	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
...	...	...	...	...	...
1429	0	0	0	1	0
1430	0	0	0	0	0
1431	0	0	0	0	0
1432	0	0	0	0	0
1433	0	0	0	0	0
1434	0	0	0	0	0
1435	0	0	0	0	0
1436	0	0	0	0	0
1437	0	0	0	0	0
1438	0	0	0	0	0
1439	0	0	0	0	0
1440	0	0	0	0	0
1441	0	0	0	0	0
1442	0	0	0	0	0
1443	0	0	0	0	0
1444	0	0	0	0	0
1445	0	0	0	0	0
1446	0	0	0	0	0
1447	0	0	0	0	0
1448	0	0	0	0	0
1449	0	0	0	0	0
1450	0	0	0	0	0
1451	0	0	0	0	0
1452	0	0	0	0	0
1453	0	1	0	0	0
1454	0	0	0	0	0
1455	0	0	0	0	0
1456	0	0	0	0	0
1457	0	0	0	1	0
1458	0	0	0	0	0
	MiscFeature_Gar2	MiscFeature_Othr	MiscFeature_Shed	MiscFeature_TenC	\
0	0	0	0	0	0

1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	1	0
6	0	0	0	0
7	0	0	1	0
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	1	0
17	0	0	1	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	0	0	0	0
25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
...	...	...	...	...
1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	0	0	0	0



1447	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	0	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	1	0
1458	0	0	0	0

	SaleType_COD	SaleType_CWD	SaleType_Con	SaleType_ConLD	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	1	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
...	...	...	...	...	
1429	0	0	0	0	
1430	0	0	0	0	
1431	0	0	0	0	

1432	0	0	0	0
1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	0	0	0	0
1442	0	0	0	0
1443	0	0	0	0
1444	0	0	0	0
1445	0	0	0	0
1446	0	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
1450	0	0	0	0
1451	0	0	0	0
1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0

	SaleType_ConLI	SaleType_ConLw	SaleType_New	SaleType_Oth	SaleType_WD	\
0	0	0	0	0	1	
1	0	0	0	0	1	
2	0	0	0	0	1	
3	0	0	0	0	1	
4	0	0	0	0	1	
5	0	0	0	0	1	
6	0	0	0	0	1	
7	0	0	0	0	1	
8	0	0	0	0	1	
9	0	0	0	0	1	
10	0	0	0	0	1	
11	0	0	1	0	0	
12	0	0	0	0	1	
13	0	0	1	0	0	
14	0	0	0	0	1	
15	0	0	0	0	1	
16	0	0	0	0	1	
17	0	0	0	0	1	
18	0	0	0	0	1	

19	0	0	0	0	0
20	0	0	1	0	0
21	0	0	0	0	1
22	0	0	0	0	1
23	0	0	0	0	1
24	0	0	0	0	1
25	0	0	0	0	1
26	0	0	0	0	1
27	0	0	0	0	1
28	0	0	0	0	1
29	0	0	0	0	1
...	...	...	...	...	...
1429	0	0	0	0	1
1430	0	0	0	0	1
1431	0	0	0	0	1
1432	0	0	0	0	1
1433	0	0	0	0	1
1434	0	0	1	0	0
1435	0	0	0	0	1
1436	0	0	0	0	1
1437	0	0	0	0	1
1438	0	0	0	0	1
1439	0	0	0	0	1
1440	0	0	0	0	1
1441	0	0	0	0	1
1442	0	0	1	0	0
1443	0	0	1	0	0
1444	0	0	0	0	1
1445	0	0	0	0	1
1446	0	0	0	0	1
1447	0	0	0	0	1
1448	0	0	0	0	1
1449	0	0	0	0	1
1450	0	0	0	0	1
1451	0	0	0	0	1
1452	0	0	0	0	1
1453	0	0	0	0	1
1454	0	0	0	0	1
1455	0	0	0	0	1
1456	0	0	0	0	1
1457	0	0	0	0	1
1458	0	0	0	0	1

	SaleCondition_Abnorml	SaleCondition_AdjLand	SaleCondition_Alloca	\
0	0	0	0	
1	0	0	0	
2	0	0	0	
3	1	0	0	

4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	1	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	1	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
...	...	...	...
1429	0	0	0
1430	0	0	0
1431	1	0	0
1432	1	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	1
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0

1450	0	0	0
1451	0	0	0
1452	1	0	0
1453	0	0	0
1454	0	0	0
1455	1	0	0
1456	1	0	0
1457	0	0	0
1458	0	0	0

	SaleCondition_Family	SaleCondition_Normal	SaleCondition_Partial
0	0	1	0
1	0	1	0
2	0	1	0
3	0	0	0
4	0	1	0
5	0	1	0
6	0	1	0
7	0	1	0
8	0	0	0
9	0	1	0
10	0	1	0
11	0	0	1
12	0	1	0
13	0	0	1
14	0	1	0
15	0	1	0
16	0	1	0
17	0	1	0
18	0	1	0
19	0	0	0
20	0	0	1
21	0	1	0
22	0	1	0
23	0	1	0
24	0	1	0
25	0	1	0
26	0	1	0
27	0	1	0
28	0	1	0
29	0	1	0
...	...	...	...
1429	0	1	0
1430	0	1	0
1431	0	0	0
1432	0	0	0
1433	0	1	0
1434	0	0	1

1435	0	1	0
1436	0	1	0
1437	0	1	0
1438	0	1	0
1439	0	1	0
1440	0	0	0
1441	0	1	0
1442	0	0	1
1443	0	0	1
1444	0	1	0
1445	0	1	0
1446	0	1	0
1447	0	1	0
1448	0	1	0
1449	0	1	0
1450	0	1	0
1451	0	1	0
1452	0	0	0
1453	0	1	0
1454	0	1	0
1455	0	0	0
1456	0	0	0
1457	0	1	0
1458	0	1	0

[2919 rows x 288 columns]

```
In [33]: #creating matrices for sklearn:
```

```
X_train = all_data[:train.shape[0]]
```

```
X_test = all_data[train.shape[0]:]
```

```
y = train.SalePrice
```

```
In [34]: from sklearn.linear_model import Ridge, RidgeCV, ElasticNet, LassoCV, LassoLarsCV
```

```
from sklearn.model_selection import cross_val_score
```

```
def rmse_cv(model):
```

```
    rmse= np.sqrt(-cross_val_score(model, X_train, y, scoring="neg_mean_squared_error"
```

```
    return(rmse)
```

```
In [35]: model_ridge = Ridge()
```

```
In [36]: alphas = [0.05, 0.1, 0.3, 1, 3, 5, 10, 15, 30, 50, 75]
```

```
cv_ridge = [rmse_cv(Ridge(alpha = alpha)).mean()
```

```
            for alpha in alphas]
```

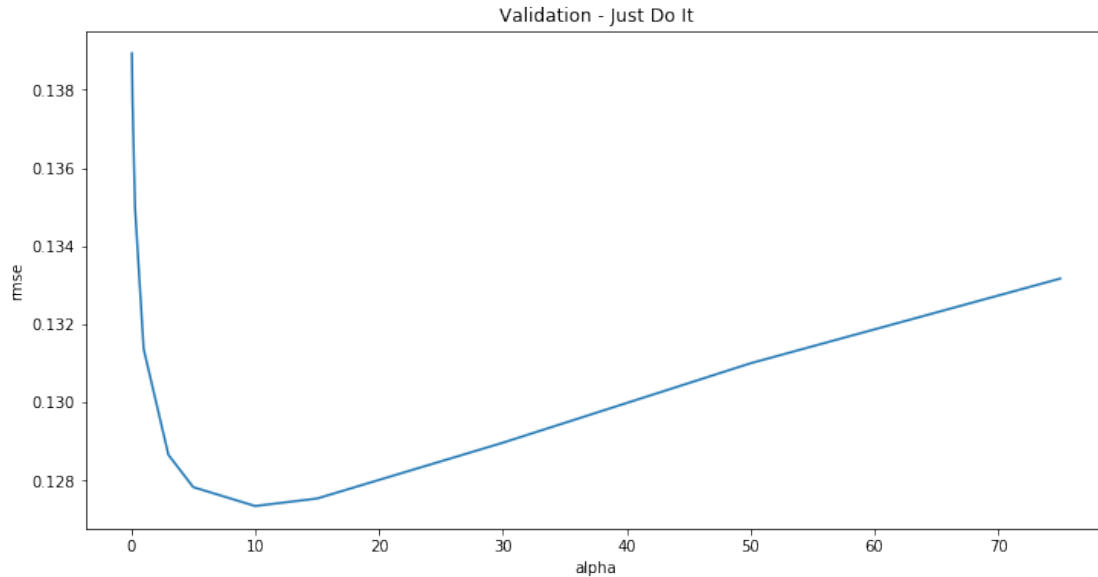
```
In [37]: cv_ridge = pd.Series(cv_ridge, index = alphas)
```

```
cv_ridge.plot(title = "Validation - Just Do It")
```

```
plt.xlabel("alpha")
```

```
plt.ylabel("rmse")
```

```
Out[37]: Text(0,0.5,'rmse')
```



```
In [38]: model_lasso = LassoCV(alphas = [1, 0.1, 0.001, 0.0005]).fit(X_train, y)
```

```
In [39]: cv_ridge.min()
```

```
Out[39]: 0.12733734668670757
```

```
In [40]: rmse_cv(model_lasso).mean()
```

```
Out[40]: 0.1231442109097745
```

```
In [41]: coef = pd.Series(model_lasso.coef_, index = X_train.columns)
```

```
In [42]: print("Lasso picked " + str(sum(coef != 0)) + " variables and eliminated the other "
```

Lasso picked 111 variables and eliminated the other 177 variables

```
In [43]: imp_coef = pd.concat([coef.sort_values().head(10),  
                             coef.sort_values().tail(10)])
```

```
In [44]: matplotlib.rcParams['figure.figsize'] = (8.0, 10.0)  
imp_coef.plot(kind = "barh")  
plt.title("Coefficients in the Lasso Model")
```

```
Out[44]: Text(0.5,1,'Coefficients in the Lasso Model')
```

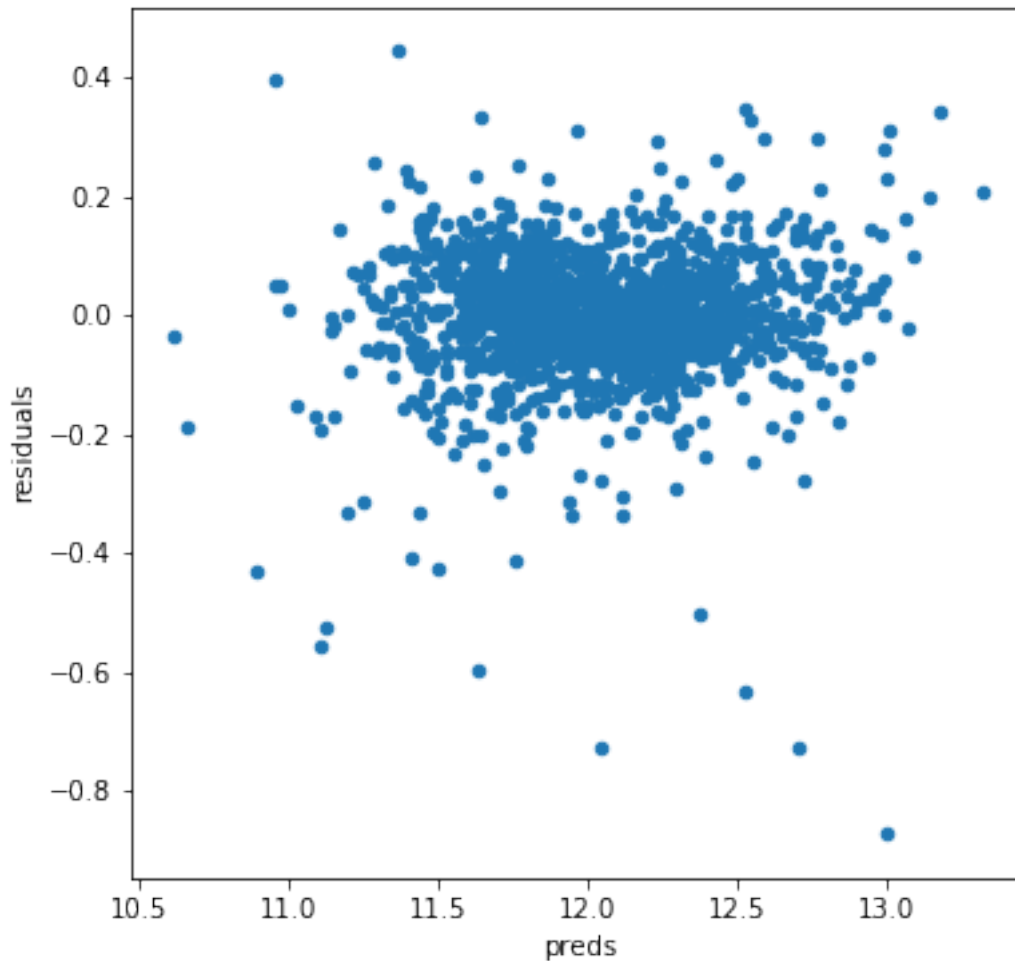


```
In [45]: #let's look at the residuals as well:
matplotlib.rcParams['figure.figsize'] = (6.0, 6.0)

preds = pd.DataFrame({"preds":model_lasso.predict(X_train), "true":y})
preds["residuals"] = preds["true"] - preds["preds"]
preds.plot(x = "preds", y = "residuals",kind = "scatter")

Out[45]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbbf83ddc50>
```





```
In [46]: preds.shape
```

```
Out[46]: (1460, 3)
```

The most important positive feature is GrLivArea - the above ground area by area square feet. This definitely sense. Then a few other location and quality features contributed positively. Some of the negative features make less sense and would be worth looking into more - it seems like they might come from unbalanced categorical variables.

Also note that unlike the feature importance you'd get from a random forest these are actual coefficients in your model - so you can say precisely why the predicted price is what it is. The only issue here is that we log\_transformed both the target and the numeric features so the actual magnitudes are a bit hard to interpret.

```
In [47]: !pip install --user xgboost
```

```
Requirement already satisfied: xgboost in /home/zy/.local/lib/python3.6/site-packages (0.81)  
Requirement already satisfied: numpy in /home/zy/.local/lib/python3.6/site-packages (from xgboost)
```

Requirement already satisfied: scipy in /usr/local/lib/python3.6/dist-packages (from xgboost)

```
In [48]: import xgboost as xgb
```

```
In [49]: dtrain = xgb.DMatrix(X_train, label = y)
```

```
dtest = xgb.DMatrix(X_test)
```

```
params = {"max_depth":2, "eta":0.1}
```

```
model = xgb.cv(params, dtrain, num_boost_round=500, early_stopping_rounds=100)
```

[illegible]



[illegible]

[illegible]

[illegible]



[illegible]





[illegible]

[illegible]



[illegible]

[illegible]

[illegible]











[illegible]

[illegible]

[illegible]







[illegible]

[illegible]



[illegible]



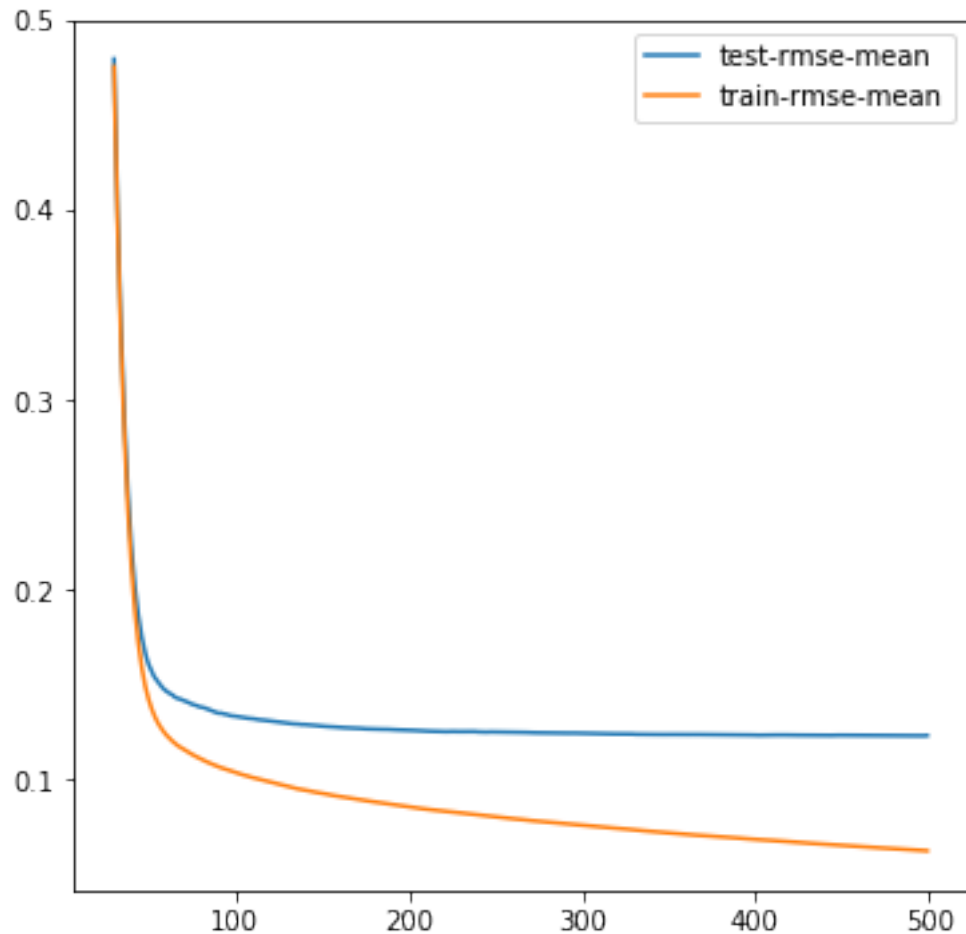
[illegible]











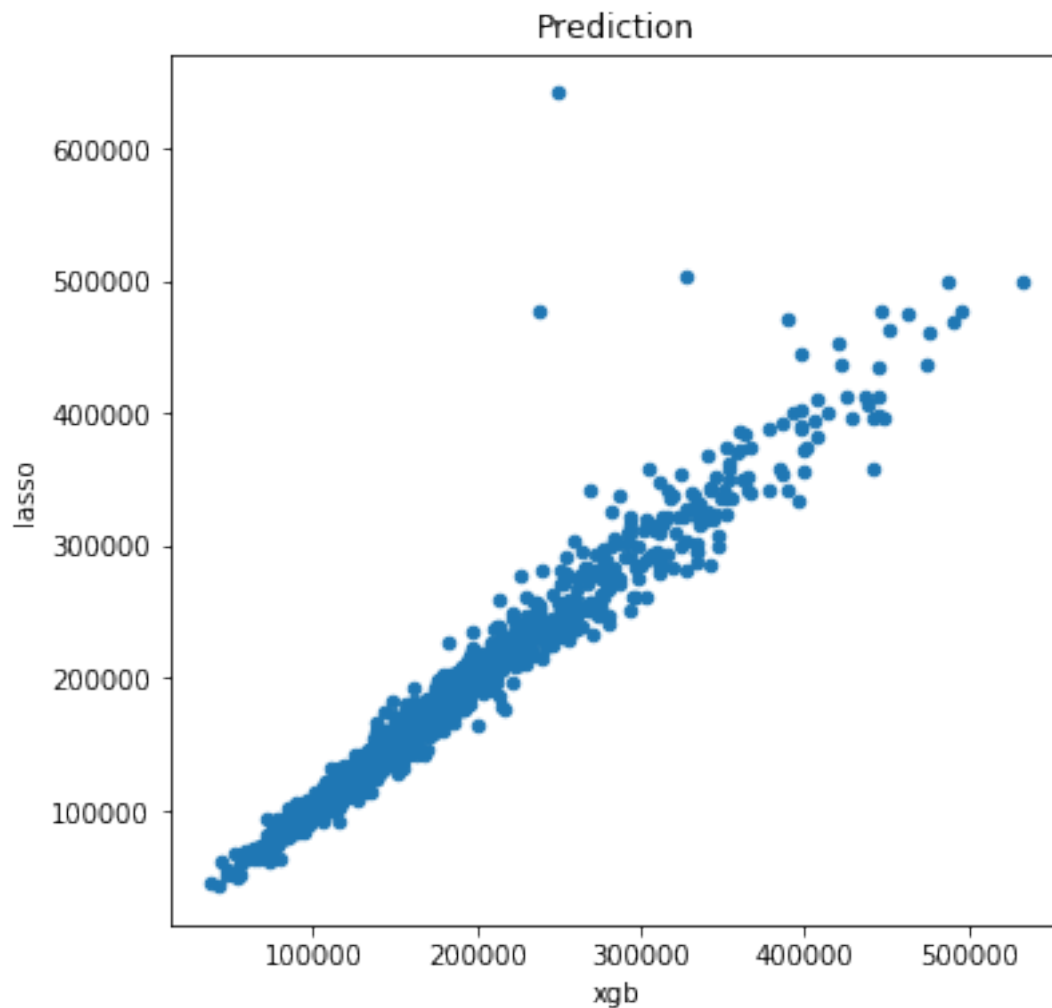
```
In [51]: model_xgb = xgb.XGBRegressor(n_estimators=360, max_depth=2, learning_rate=0.1) #the p
         model_xgb.fit(X_train, y)
```

```
Out[51]: XGBRegressor(base_score=0.5, booster='gbtree', colsample_bylevel=1,
                    colsample_bytree=1, gamma=0, learning_rate=0.1, max_delta_step=0,
                    max_depth=2, min_child_weight=1, missing=None, n_estimators=360,
                    n_jobs=1, nthread=None, objective='reg:linear', random_state=0,
                    reg_alpha=0, reg_lambda=1, scale_pos_weight=1, seed=None,
                    silent=True, subsample=1)
```

```
In [52]: xgb_preds = np.expm1(model_xgb.predict(X_test))
         lasso_preds = np.expm1(model_lasso.predict(X_test))
```

```
In [53]: predictions = pd.DataFrame({"xgb":xgb_preds, "lasso":lasso_preds})
         predictions.plot(x = "xgb", y = "lasso", kind = "scatter",title = "Prediction")
```

```
Out[53]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbbcdde8d68>
```



```
In [54]: preds = 0.7*lasso_preds + 0.3*xgb_preds
```

```
In [55]: solution = pd.DataFrame({"id":test.Id, "SalePrice":preds})
         solution.to_csv("ridge_sol.csv", index = False)
```

```
In [56]: solution
```

```
Out [56]:
```

	id	SalePrice
0	1461	120129.316383
1	1462	153008.789313
2	1463	181999.671772
3	1464	195952.284998
4	1465	197477.812587
5	1466	171222.843737
6	1467	178212.017796
7	1468	161123.612160

8	1469	193898.478815
9	1470	119925.604790
10	1471	189952.674572
11	1472	97385.924169
12	1473	96173.518674
13	1474	146413.762693
14	1475	113408.513514
15	1476	363558.841940
16	1477	250762.128194
17	1478	294599.181529
18	1479	299293.445657
19	1480	474977.588036
20	1481	325368.597602
21	1482	210850.565264
22	1483	177057.720710
23	1484	162710.845122
24	1485	191473.765547
25	1486	193107.961777
26	1487	339866.029546
27	1488	238341.335320
28	1489	193749.616018
29	1490	231349.062041
...	...	...
1429	2890	81209.646858
1430	2891	136254.987964
1431	2892	43176.515636
1432	2893	71641.531833
1433	2894	55114.149013
1434	2895	323044.109690
1435	2896	278984.085940
1436	2897	207862.690891
1437	2898	150512.818029
1438	2899	215656.430102
1439	2900	158554.324639
1440	2901	212379.573163
1441	2902	183428.493529
1442	2903	332198.342980
1443	2904	347781.763762
1444	2905	85715.757683
1445	2906	196983.947192
1446	2907	114498.924928
1447	2908	130027.782835
1448	2909	154385.553893
1449	2910	78097.500073
1450	2911	83366.933998
1451	2912	148245.268896
1452	2913	84248.767523
1453	2914	80139.648963

1454	2915	87496.343669
1455	2916	85034.583020
1456	2917	165128.542251
1457	2918	119034.149412
1458	2919	227808.934762

[1459 rows x 2 columns]