PROJECT TEAM ID :PTID-CDS-JUN-23-1538

PROJECT ID :PRCP-1020-HousePricePred

Project Members:

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Problem Statement

Task 1:- Prepare a complete data analysis report on the given data. Task 2:-a) Create a robust machine learning algorithm to accurately predict the price of the house given the various factors across the market. b) Determine the relationship between the house features and how the price varies based on this. Task3:- Come up with suggestions for the customer to buy the house according to the area, price and other requirements.

Business Case

Business Case for House Price Prediction: House price prediction is a valuable tool for various stakeholders in the real estate industry. Here are some key business cases for utilizing house price prediction: Real Estate Agencies: Real estate agencies can use house price prediction models to provide accurate and data-driven property valuations to their clients. This helps in setting competitive listing prices, attracting potential buyers, and maximizing the chances of successful sales. Accurate price predictions also enhance the credibility and reputation of the agency. Homebuyers: Prospective homebuyers can benefit from house price prediction models to make informed decisions about purchasing a property. By analyzing historical data and current market trends, these models can provide buyers with estimates of the fair market value of a house. This enables buyers to evaluate the asking price and negotiate effectively with sellers. Investors: Real estate investors can use house price prediction models to identify potentially lucrative investment opportunities. By analyzing historical price trends and factors affecting the housing market, investors can make data-driven decisions on when and where to invest in properties. Accurate predictions can help investors optimize their portfolio and maximize returns. Mortgage Lenders: Mortgage lenders can utilize house price prediction models to assess the risk associated with mortgage loans. By estimating the future value of a property, lenders can make informed decisions about loan approvals, interest rates, and loan-to-value ratios. Accurate predictions help lenders manage their risk exposure and ensure the stability of their mortgage portfolios. Government and Policy Makers: House price prediction models can assist government authorities and policy makers in understanding housing market dynamics, identifying areas of housing affordability concern, and formulating effective housing policies. Accurate predictions can aid in monitoring market trends, addressing housing shortages, and implementing measures to ensure sustainable and equitable housing markets. Insurance Companies: Insurance companies can utilize house price prediction models to assess the replacement cost and insurance coverage for residential properties. By estimating the market value of houses, insurers can determine appropriate coverage limits, premiums, and underwriting guidelines. Accurate predictions help insurance companies mitigate risks and offer competitive products to homeowners. Overall, house price prediction models provide valuable insights and decision support to various stakeholders in the real estate industry. By leveraging historical data, market trends, and relevant features, these models enable businesses and individuals to make informed decisions, optimize operations, and mitigate risks in the dynamic housing market.

Import Libraries

In [1]:
```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import numpy as np
```

Load the Data set

In [2]:
```
data=pd.read_csv("data.csv")
```

In [3]:
```
data.head()
```

Out[3]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	...	PoolArea	PoolQC	Fence	MiscFeat
0	1	60	RL	65.0	8450	Pave	NaN	Reg	Lvl	AllPub	...	0	NaN	NaN	N
1	2	20	RL	80.0	9600	Pave	NaN	Reg	Lvl	AllPub	...	0	NaN	NaN	N
2	3	60	RL	68.0	11250	Pave	NaN	IR1	Lvl	AllPub	...	0	NaN	NaN	N
3	4	70	RL	60.0	9550	Pave	NaN	IR1	Lvl	AllPub	...	0	NaN	NaN	N
4	5	60	RL	84.0	14260	Pave	NaN	IR1	Lvl	AllPub	...	0	NaN	NaN	N

5 rows × 81 columns

In [4]:
```
data.head(pd.set_option("display.max_columns",None))
```

Out[4]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborh
0	1	60	RL	65.0	8450	Pave	NaN	Reg	Lvl	AllPub	Inside	Gtl	Col
1	2	20	RL	80.0	9600	Pave	NaN	Reg	Lvl	AllPub	FR2	Gtl	Veer
2	3	60	RL	68.0	11250	Pave	NaN	IR1	Lvl	AllPub	Inside	Gtl	Col
3	4	70	RL	60.0	9550	Pave	NaN	IR1	Lvl	AllPub	Corner	Gtl	Cra
4	5	60	RL	84.0	14260	Pave	NaN	IR1	Lvl	AllPub	FR2	Gtl	NoRi
...	...	...	...	...	...	...	...	...	...	...	...	...	
1455	1456	60	RL	62.0	7917	Pave	NaN	Reg	Lvl	AllPub	Inside	Gtl	Gil
1456	1457	20	RL	85.0	13175	Pave	NaN	Reg	Lvl	AllPub	Inside	Gtl	NWA
1457	1458	70	RL	66.0	9042	Pave	NaN	Reg	Lvl	AllPub	Inside	Gtl	Cra
1458	1459	20	RL	68.0	9717	Pave	NaN	Reg	Lvl	AllPub	Inside	Gtl	NA
1459	1460	20	RL	75.0	9937	Pave	NaN	Reg	Lvl	AllPub	Inside	Gtl	Edw

1460 rows × 81 columns

Domain Analysis

SalePrice - the property's sale price in dollars. This is the target variable that you're trying to predict. MSSubClass: The building class MSZoning: The general zoning classification LotFrontage: Linear feet of street connected to property LotArea: Lot size in square feet Street: Type of road access Alley: Type of alley access LotShape: General shape of property LandContour: Flatness of the property Utilities: Type of utilities available LotConfig: Lot configuration LandSlope: Slope of property Neighborhood: Physical locations within Ames city limits Condition1: Proximity to main road or railroad Condition2: Proximity to main road or railroad (if a second is present) BldgType: Type of dwelling HouseStyle: Style of dwelling OverallQual: Overall material and finish quality OverallCond: Overall condition rating YearBuilt: Original construction date YearRemodAdd: Remodel date RoofStyle: Type of roof RoofMatl: Roof material Exterior1st: Exterior covering on house Exterior2nd: Exterior covering on house (if more than one material) MasVnrType: Masonry veneer type MasVnrArea: Masonry veneer area in square feet ExterQual: Exterior material quality ExterCond: Present condition of the material on the exterior Foundation: Type of foundation BsmtQual: Height of the basement BsmtCond: General condition of the basement BsmtExposure: Walkout or garden level basement walls BsmtFinType1: Quality of basement finished area BsmtFinSF1: Type 1 finished square feet BsmtFinType2: Quality of second finished area (if present) BsmtFinSF2: Type 2 finished square feet BsmtUnfSF: Unfinished square feet of basement area TotalBsmtSF: Total square feet of basement area Heating: Type of heating HeatingQC: Heating quality and condition CentralAir: Central air conditioning Electrical: Electrical system 1stFlrSF: First Floor square feet 2ndFlrSF: Second floor square feet LowQualFinSF: Low quality finished square feet (all floors) GrLivArea: Above grade (ground) living area square feet BsmtFullBath: Basement full bathrooms BsmtHalfBath: Basement half bathrooms FullBath: Full bathrooms above grade HalfBath: Half baths above grade Bedroom: Number of bedrooms above basement level Kitchen: Number of kitchens KitchenQual: Kitchen quality TotRmsAbvGrd: Total rooms above grade (does not include bathrooms) Functional: Home functionality rating Fireplaces: Number of fireplaces FireplaceQu: Fireplace quality GarageType: Garage location GarageYrBlt: Year garage was built GarageFinish: Interior finish of the garage GarageCars: Size of garage in car capacity GarageArea: Size of garage in square feet GarageQual: Garage quality GarageCond: Garage condition PavedDrive: Paved driveway WoodDeckSF: Wood deck area in square feet OpenPorchSF: Open porch area in square feet EnclosedPorch: Enclosed porch area in square feet 3SsnPorch: Three season porch area in square feet ScreenPorch: Screen porch area in square feet PoolArea: Pool area in square feet PoolQC: Pool quality Fence: Fence quality MiscFeature: Miscellaneous feature not covered in other categories MiscVal: $Value of miscellaneous feature MoSold: Month Sold YrSold: Year Sold SaleType: Type of sale SaleCondition: Condition of sale

Basic check

In [5]:
```
data.head()
```

Out[5]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborhood
0	1	60	RL	65.0	8450	Pave	NaN	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1	2	20	RL	80.0	9600	Pave	NaN	Reg	Lvl	AllPub	FR2	Gtl	Veenker
2	3	60	RL	68.0	11250	Pave	NaN	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
3	4	70	RL	60.0	9550	Pave	NaN	IR1	Lvl	AllPub	Corner	Gtl	Crawfor
4	5	60	RL	84.0	14260	Pave	NaN	IR1	Lvl	AllPub	FR2	Gtl	NoRidge

In [6]:
```
data.tail()
```

Out[6]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborh
1455	1456	60	RL	62.0	7917	Pave	NaN	Reg	Lvl	AllPub	Inside	Gtl	Gil
1456	1457	20	RL	85.0	13175	Pave	NaN	Reg	Lvl	AllPub	Inside	Gtl	NWA
1457	1458	70	RL	66.0	9042	Pave	NaN	Reg	Lvl	AllPub	Inside	Gtl	Cra
1458	1459	20	RL	68.0	9717	Pave	NaN	Reg	Lvl	AllPub	Inside	Gtl	NA
1459	1460	20	RL	75.0	9937	Pave	NaN	Reg	Lvl	AllPub	Inside	Gtl	Edw

In [7]:
```
data.rename({'1stFlrSF':'fristFlrSF','2ndFlrSF':'secondFlrSF'},axis=1,inplace=True)
```

In [8]:
```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1460 entries, 0 to 1459
Data columns (total 81 columns):
 #   Column         Non-Null Count  Dtype  
---  ------         --------------  -----  
 0   Id             1460 non-null   int64  
 1   MSSubClass     1460 non-null   int64  
 2   MSZoning       1460 non-null   object 
 3   LotFrontage    1201 non-null   float64
 4   LotArea        1460 non-null   int64  
 5   Street         1460 non-null   object 
 6   Alley          91 non-null     object 
 7   LotShape       1460 non-null   object 
 8   LandContour    1460 non-null   object 
 9   Utilities      1460 non-null   object 
 10  LotConfig      1460 non-null   object 
 11  LandSlope      1460 non-null   object 
 12  Neighborhood   1460 non-null   object 
 13  Condition1     1460 non-null   object 
 14  Condition2     1460 non-null   object 
 15  BldgType       1460 non-null   object 
 16  HouseStyle     1460 non-null   object 
 17  OverallQual    1460 non-null   int64  
 18  OverallCond    1460 non-null   int64  
 19  YearBuilt      1460 non-null   int64  
 20  YearRemodAdd   1460 non-null   int64  
 21  RoofStyle      1460 non-null   object 
 22  RoofMatl       1460 non-null   object 
 23  Exterior1st    1460 non-null   object 
 24  Exterior2nd    1460 non-null   object 
 25  MasVnrType     1452 non-null   object 
 26  MasVnrArea     1452 non-null   float64
 27  ExterQual      1460 non-null   object 
 28  ExterCond      1460 non-null   object 
 29  Foundation     1460 non-null   object 
 30  BsmtQual       1423 non-null   object 
 31  BsmtCond       1423 non-null   object 
 32  BsmtExposure   1422 non-null   object 
 33  BsmtFinType1   1423 non-null   object 
 34  BsmtFinSF1     1460 non-null   int64  
 35  BsmtFinType2   1422 non-null   object 
 36  BsmtFinSF2     1460 non-null   int64  
 37  BsmtUnfSF      1460 non-null   int64  
 38  TotalBsmtSF    1460 non-null   int64  
 39  Heating        1460 non-null   object 
 40  HeatingQC      1460 non-null   object 
 41  CentralAir     1460 non-null   object 
 42  Electrical     1459 non-null   object 
 43  fristFlrSF     1460 non-null   int64  
 44  secondFlrSF    1460 non-null   int64  
 45  LowQualFinSF   1460 non-null   int64  
 46  GrLivArea      1460 non-null   int64  
 47  BsmtFullBath   1460 non-null   int64  
 48  BsmtHalfBath   1460 non-null   int64  
 49  FullBath       1460 non-null   int64  
 50  HalfBath       1460 non-null   int64  
 51  BedroomAbvGr   1460 non-null   int64  
 52  KitchenAbvGr   1460 non-null   int64  
 53  KitchenQual    1460 non-null   object 
 54  TotRmsAbvGrd   1460 non-null   int64  
 55  Functional     1460 non-null   object 
 56  Fireplaces     1460 non-null   int64  
 57  FireplaceQu    770 non-null    object 
 58  GarageType     1379 non-null   object 
 59  GarageYrBlt    1379 non-null   float64
 60  GarageFinish   1379 non-null   object 
 61  GarageCars     1460 non-null   int64  
 62  GarageArea     1460 non-null   int64  
 63  GarageQual     1379 non-null   object 
 64  GarageCond     1379 non-null   object 
 65  PavedDrive     1460 non-null   object 
 66  WoodDeckSF     1460 non-null   int64  
 67  OpenPorchSF    1460 non-null   int64  
 68  EnclosedPorch  1460 non-null   int64  
 69  3SsnPorch      1460 non-null   int64  
 70  ScreenPorch    1460 non-null   int64  
 71  PoolArea       1460 non-null   int64  
 72  PoolQC         7 non-null      object 
 73  Fence          281 non-null    object 
 74  MiscFeature    54 non-null     object 
 75  MiscVal        1460 non-null   int64  
 76  MoSold         1460 non-null   int64  
 77  YrSold         1460 non-null   int64  
 78  SaleType       1460 non-null   object 
 79  SaleCondition  1460 non-null   object 
 80  SalePrice      1460 non-null   int64  
dtypes: float64(3), int64(35), object(43)
memory usage: 924.0+ KB
```

In [9]:
```
data.shape
```
Out[9]:
```
(1460, 81)
```

In [10]:
```
catagorical_columns=data.describe(include="O")
catagorical_columns
```
Out[10]:

	MSZoning	Street	Alley	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborhood	Condition1	Condition2	BldgType
count	1460	1460	91	1460	1460	1460	1460	1460	1460	1460	1460	1460
unique	5	2	2	4	4	2	5	3	25	9	8	5
top	RL	Pave	Grvl	Reg	Lvl	AllPub	Inside	Gtl	NAmes	Norm	Norm	1Fam
freq	1151	1454	50	925	1311	1459	1052	1382	225	1260	1445	1220

In [11]:
```
catagorical_columns.shape
```
Out[11]:
```
(4, 43)
```

In [12]:
```
numarical_columns=data.describe(exclude="O")
numarical_columns
```
Out[12]:

	Id	MSSubClass	LotFrontage	LotArea	OverallQual	OverallCond	YearBuilt	YearRemodAdd	MasVnrArea	BsmtFin
count	1460.000000	1460.000000	1201.000000	1460.000000	1460.000000	1460.000000	1460.000000	1460.000000	1452.000000	1460.000
mean	730.500000	56.897260	70.049958	10516.828082	6.099315	5.575342	1971.267808	1984.865753	103.685262	443.639
std	421.610009	42.300571	24.284752	9981.264932	1.382997	1.112799	30.202904	20.645407	181.066207	456.098
min	1.000000	20.000000	21.000000	1300.000000	1.000000	1.000000	1872.000000	1950.000000	0.000000	0.000
25%	365.750000	20.000000	59.000000	7553.500000	5.000000	5.000000	1954.000000	1967.000000	0.000000	0.000
50%	730.500000	50.000000	69.000000	9478.500000	6.000000	5.000000	1973.000000	1994.000000	0.000000	383.500
75%	1095.250000	70.000000	80.000000	11601.500000	7.000000	6.000000	2000.000000	2004.000000	166.000000	712.250
max	1460.000000	190.000000	313.000000	215245.000000	10.000000	9.000000	2010.000000	2010.000000	1600.000000	5644.000

In [13]:
```
numarical_columns.shape
```
Out[13]:
```
(8, 38)
```

In [14]:
```
data1=(['MSZoning', 'Street', 'Alley', 'LotShape', 'LandContour', 'Utilities','LotConfig', 'LandSlope', 'Neighb
       'Exterior2nd', 'MasVnrType', 'ExterQual', 'ExterCond', 'Foundation','BsmtQual', 'BsmtCond', 'BsmtExposur
       'Heating', 'HeatingQC', 'CentralAir', 'Electrical', 'KitchenQual','Functional', 'FireplaceQu', 'GarageTy
       'GarageCond', 'PavedDrive', 'PoolQC', 'Fence', 'MiscFeature','SaleType', 'SaleCondition'])
```

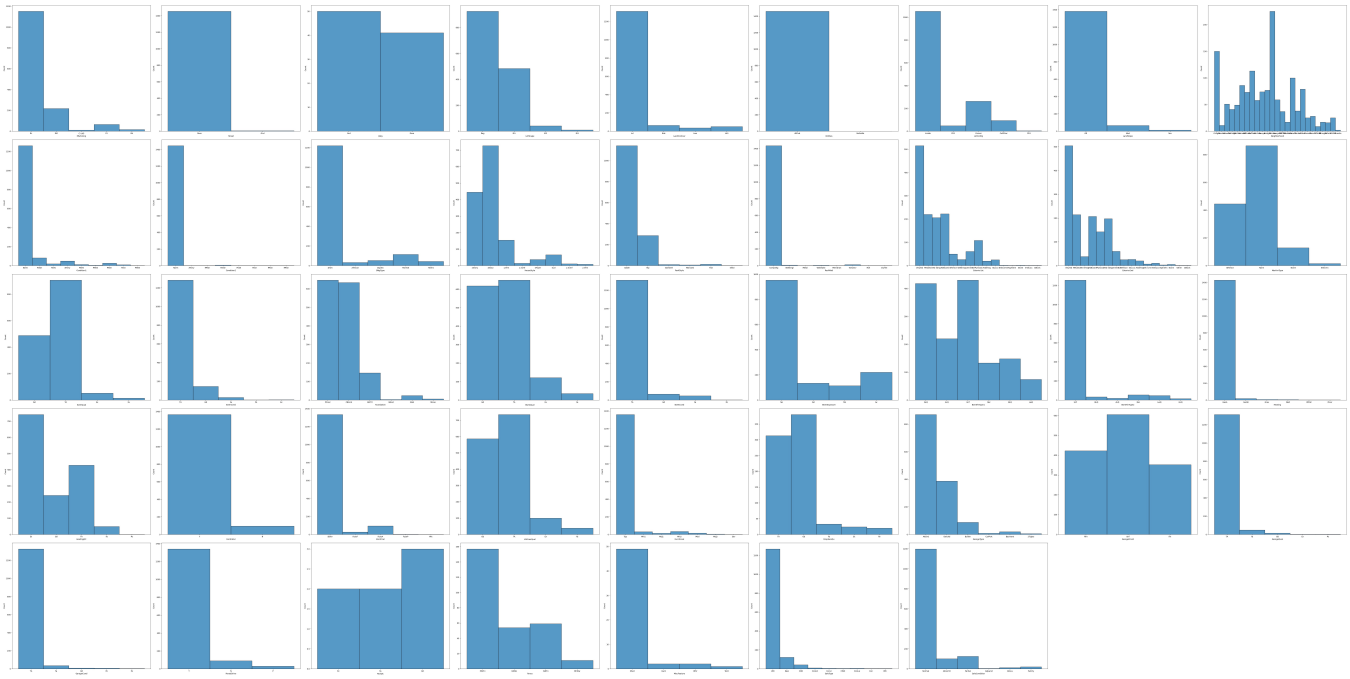
In [15]:
```
data2=(['Id', 'MSSubClass', 'LotFrontage', 'LotArea', 'OverallQual','OverallCond', 'YearBuilt', 'YearRemodAdd',
       'BsmtFinSF2', 'BsmtUnfSF', 'TotalBsmtSF', 'fristFlrSF', 'secondFlrSF','LowQualFinSF', 'GrLivArea', 'Bsmt
       'HalfBath', 'BedroomAbvGr', 'KitchenAbvGr', 'TotRmsAbvGrd','Fireplaces', 'GarageYrBlt', 'GarageCars', 'G
       'OpenPorchSF', 'EnclosedPorch', '3SsnPorch', 'ScreenPorch', 'PoolArea','MiscVal', 'MoSold', 'YrSold', 'S
```

In [ ]:

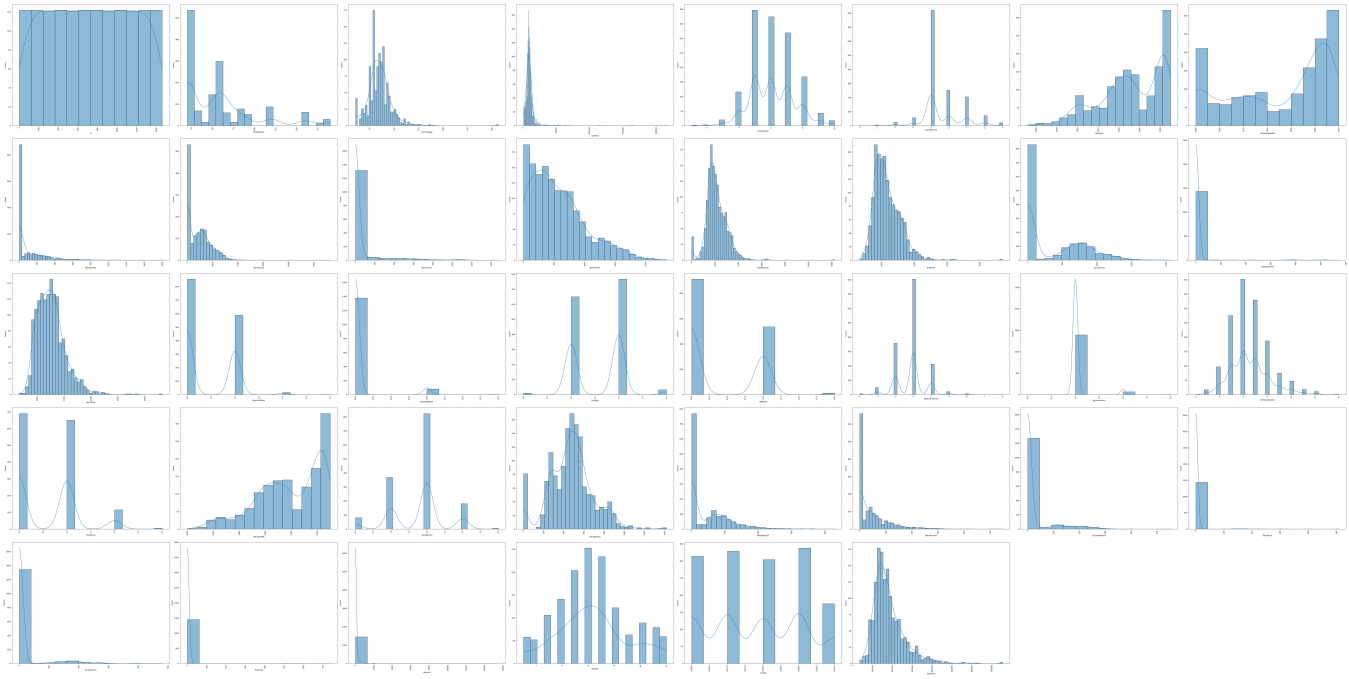
Explolatory data analysis

Univariant

In [16]:
```
#catagorical columns
plt.figure(figsize=(100,50))
plotnumber=1
for i in data1:
    plt.subplot(5,9,plotnumber)
    sns.histplot(x=data[i])
    plotnumber=plotnumber+1
plt.tight_layout()
```



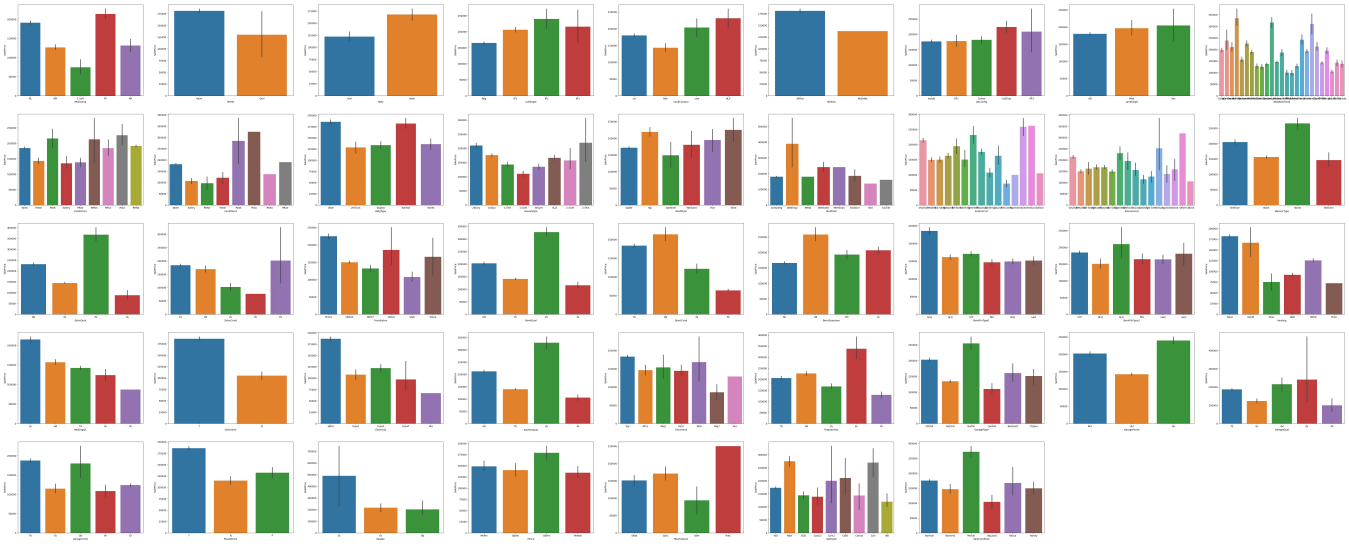
In [17]:
```
##numarical columns
plt.figure(figsize=(100,50))
plotnumber=1
for i in data2:
    plt.subplot(5,8,plotnumber)
    sns.histplot(x=data[i],kde=True)
    plotnumber=plotnumber+1
    plt.xticks(rotation=90)
plt.tight_layout()
```



Bivarient

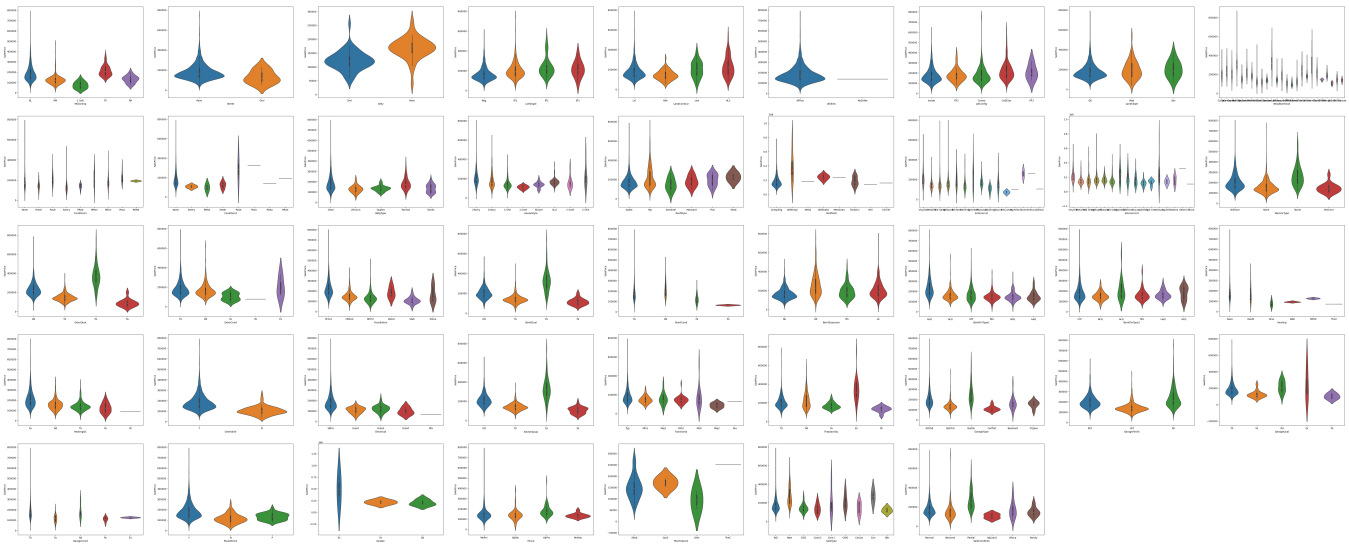
In [18]:
```
#catagorical columns
plt.figure(figsize=(100,40))
plotnumber=1
for i in data1:
    plt.subplot(5,9,plotnumber)
    sns.barplot(x=data[i],y="SalePrice",data=data)
    plotnumber=plotnumber+1
plt.tight_layout
```

Out[18]:
```
<function matplotlib.pyplot.tight_layout(*, pad=1.08, h_pad=None, w_pad=None, rect=None)>
```



In [19]:
```
plt.figure(figsize=(100,40))
plotnumber=1
for i in data1:
    plt.subplot(5,9,plotnumber)
    sns.violinplot(x=data[i],y="SalePrice",data=data)
    plotnumber=plotnumber+1
plt.tight_layout
```

Out[19]:
```
<function matplotlib.pyplot.tight_layout(*, pad=1.08, h_pad=None, w_pad=None, rect=None)>
```



In [20]:
```
#numarical
plt.figure(figsize=(100,40))
plotnumber=1
for i in data2:
    plt.subplot(5,9,plotnumber)
    sns.scatterplot(x=data[i],y="SalePrice",data=data)
    plotnumber=plotnumber+1
plt.tight_layout
```

Out[20]:
```
<function matplotlib.pyplot.tight_layout(*, pad=1.08, h_pad=None, w_pad=None, rect=None)>
```

Data Preprocessing

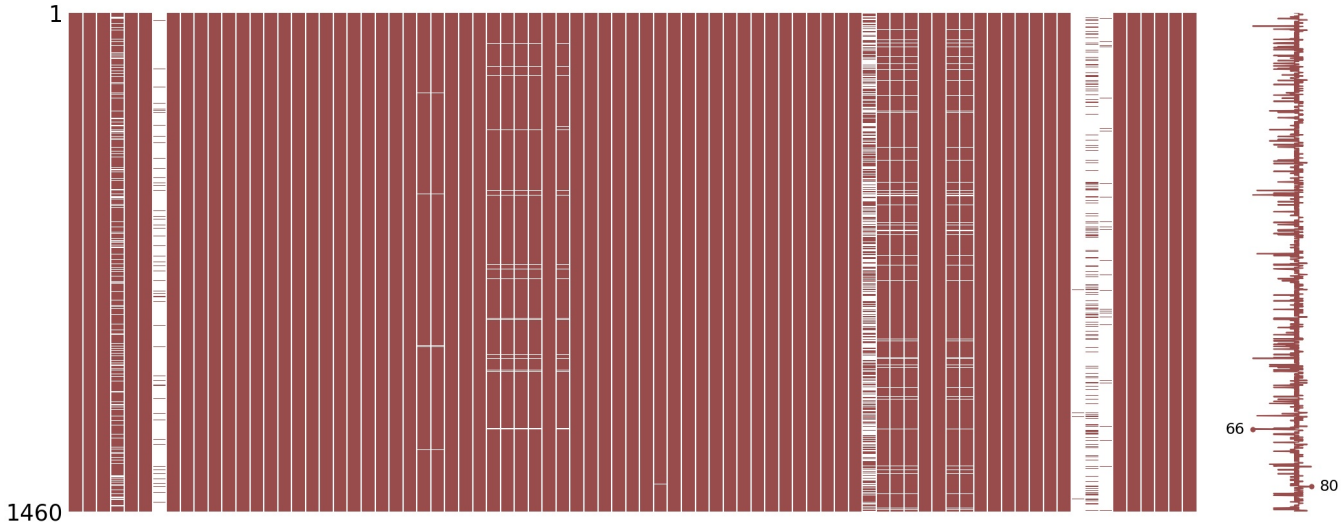
Steps in data preprocessing

```
i)   Handling null values
ii)  Handling Outliers
iii) Encoding (converting categorical variables into numerical)
iv)  Balancing the data
 v)   Scaling
```

In [21]:
```
## Alley ,PoolQC ,Fence ,MiscFeature
```

In [22]:
```
import missingno as msno
msno.matrix(data,color=(0.60,0.300,0.300),fontsize=20)
```

Out[22]:
```
<AxesSubplot:>
```



Insights

- This plot is used for to find the null values Graphically

In [23]:
```
data.drop_duplicates(inplace=True)
```

In [24]:
```
data.isnull().sum()
```

Out[24]:
```
Id                 0
MSSubClass         0
MSZoning           0
LotFrontage      259
LotArea            0
                 ...
MoSold             0
YrSold             0
SaleType           0
SaleCondition      0
SalePrice          0
Length: 81, dtype: int64
```

Insights for Handling null values

- According to data set the missing values are more in some cloumns ,that's why we delete the columns are 'Alley','PoolQC','Fence','MiscFeature'
- Remaining columns are we fill the nulls values ny using mean ,median,mode.
- Numarical data are fill the meanvalue or median
- Categorical data are fill in mode

In [25]:
```
data.drop(['Alley','PoolQC','Fence','MiscFeature'],axis=1,inplace=True)
```

In [26]:
```
data.head(pd.set_option("display.max_rows",None))
```

Out[26]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborhood
0	1	60	RL	65.0	8450	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1	2	20	RL	80.0	9600	Pave	Reg	Lvl	AllPub	FR2	Gtl	Veenker
2	3	60	RL	68.0	11250	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
3	4	70	RL	60.0	9550	Pave	IR1	Lvl	AllPub	Corner	Gtl	Crawfor
4	5	60	RL	84.0	14260	Pave	IR1	Lvl	AllPub	FR2	Gtl	NoRidge
5	6	50	RL	85.0	14115	Pave	IR1	Lvl	AllPub	Inside	Gtl	Mitchel
6	7	20	RL	75.0	10084	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
7	8	60	RL	NaN	10382	Pave	IR1	Lvl	AllPub	Corner	Gtl	NWAmes
8	9	50	RM	51.0	6120	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
9	10	190	RL	50.0	7420	Pave	Reg	Lvl	AllPub	Corner	Gtl	BrkSide
10	11	20	RL	70.0	11200	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
11	12	60	RL	85.0	11924	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
12	13	20	RL	NaN	12968	Pave	IR2	Lvl	AllPub	Inside	Gtl	Sawyer
13	14	20	RL	91.0	10652	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
14	15	20	RL	NaN	10920	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
15	16	45	RM	51.0	6120	Pave	Reg	Lvl	AllPub	Corner	Gtl	BrkSide
16	17	20	RL	NaN	11241	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NAmes
17	18	90	RL	72.0	10791	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
18	19	20	RL	66.0	13695	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
19	20	20	RL	70.0	7560	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
20	21	60	RL	101.0	14215	Pave	IR1	Lvl	AllPub	Corner	Gtl	NridgHt
21	22	45	RM	57.0	7449	Pave	Reg	Bnk	AllPub	Inside	Gtl	IDOTRR
22	23	20	RL	75.0	9742	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
23	24	120	RM	44.0	4224	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
24	25	20	RL	NaN	8246	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
25	26	20	RL	110.0	14230	Pave	Reg	Lvl	AllPub	Corner	Gtl	NridgHt
26	27	20	RL	60.0	7200	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
27	28	20	RL	98.0	11478	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
28	29	20	RL	47.0	16321	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NAmes
29	30	30	RM	60.0	6324	Pave	IR1	Lvl	AllPub	Inside	Gtl	BrkSide
30	31	70	C (all)	50.0	8500	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
31	32	20	RL	NaN	8544	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Sawyer
32	33	20	RL	85.0	11049	Pave	Reg	Lvl	AllPub	Corner	Gtl	CollgCr
33	34	20	RL	70.0	10552	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes

34	35	120	RL	60.0	7313	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
35	36	60	RL	108.0	13418	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
36	37	20	RL	112.0	10859	Pave	Reg	Lvl	AllPub	Corner	Gtl	CollgCr
37	38	20	RL	74.0	8532	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
38	39	20	RL	68.0	7922	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
39	40	90	RL	65.0	6040	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
40	41	20	RL	84.0	8658	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
41	42	20	RL	115.0	16905	Pave	Reg	Lvl	AllPub	Inside	Gtl	Timber
42	43	85	RL	NaN	9180	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	SawyerW
43	44	20	RL	NaN	9200	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	CollgCr
44	45	20	RL	70.0	7945	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
45	46	120	RL	61.0	7658	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
46	47	50	RL	48.0	12822	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Mitchel
47	48	20	FV	84.0	11096	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
48	49	190	RM	33.0	4456	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
49	50	20	RL	66.0	7742	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
50	51	60	RL	NaN	13869	Pave	IR2	Lvl	AllPub	Corner	Gtl	Gilbert
51	52	50	RM	52.0	6240	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
52	53	90	RM	110.0	8472	Grvl	IR2	Bnk	AllPub	Corner	Mod	IDOTRR
53	54	20	RL	68.0	50271	Pave	IR1	Low	AllPub	Inside	Gtl	Veenker
54	55	80	RL	60.0	7134	Pave	Reg	Bnk	AllPub	Inside	Mod	NAmes
55	56	20	RL	100.0	10175	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
56	57	160	FV	24.0	2645	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
57	58	60	RL	89.0	11645	Pave	IR1	Lvl	AllPub	Corner	Gtl	CollgCr
58	59	60	RL	66.0	13682	Pave	IR2	HLS	AllPub	CulDSac	Gtl	StoneBr
59	60	20	RL	60.0	7200	Pave	Reg	Bnk	AllPub	Inside	Gtl	CollgCr
60	61	20	RL	63.0	13072	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
61	62	75	RM	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
62	63	120	RL	44.0	6442	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
63	64	70	RM	50.0	10300	Pave	IR1	Bnk	AllPub	Inside	Gtl	OldTown
64	65	60	RL	NaN	9375	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
65	66	60	RL	76.0	9591	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
66	67	20	RL	NaN	19900	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
67	68	20	RL	72.0	10665	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
68	69	30	RM	47.0	4608	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
69	70	50	RL	81.0	15593	Pave	Reg	Lvl	AllPub	Corner	Gtl	ClearCr
70	71	20	RL	95.0	13651	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
71	72	20	RL	69.0	7599	Pave	Reg	Lvl	AllPub	Corner	Gtl	Mitchel
72	73	60	RL	74.0	10141	Pave	IR1	Lvl	AllPub	Corner	Gtl	Gilbert
73	74	20	RL	85.0	10200	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
74	75	50	RM	60.0	5790	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
75	76	180	RM	21.0	1596	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
76	77	20	RL	NaN	8475	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
77	78	50	RM	50.0	8635	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
78	79	90	RL	72.0	10778	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
79	80	50	RM	60.0	10440	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
80	81	60	RL	100.0	13000	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
81	82	120	RM	32.0	4500	Pave	Reg	Lvl	AllPub	FR2	Gtl	Mitchel
82	83	20	RL	78.0	10206	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
83	84	20	RL	80.0	8892	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
84	85	80	RL	NaN	8530	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
85	86	60	RL	121.0	16059	Pave	Reg	Lvl	AllPub	Corner	Gtl	NoRidge
86	87	60	RL	122.0	11911	Pave	IR2	Lvl	AllPub	Inside	Gtl	Gilbert
87	88	160	FV	40.0	3951	Pave	Reg	Lvl	AllPub	Corner	Gtl	Somerst
88	89	50	C (all)	105.0	8470	Pave	IR1	Lvl	AllPub	Corner	Gtl	IDOTRR

89	90	20	RL	60.0	8070	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
90	91	20	RL	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
91	92	20	RL	85.0	8500	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
92	93	30	RL	80.0	13360	Pave	IR1	HLS	AllPub	Inside	Gtl	Crawfor
93	94	190	C (all)	60.0	7200	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
94	95	60	RL	69.0	9337	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
95	96	60	RL	NaN	9765	Pave	IR2	Lvl	AllPub	Corner	Gtl	Gilbert
96	97	20	RL	78.0	10264	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
97	98	20	RL	73.0	10921	Pave	Reg	HLS	AllPub	Inside	Gtl	Edwards
98	99	30	RL	85.0	10625	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards
99	100	20	RL	77.0	9320	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
100	101	20	RL	NaN	10603	Pave	IR1	Lvl	AllPub	Inside	Gtl	NWAmes
101	102	60	RL	77.0	9206	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
102	103	90	RL	64.0	7018	Pave	Reg	Bnk	AllPub	Inside	Gtl	SawyerW
103	104	20	RL	94.0	10402	Pave	IR1	Lvl	AllPub	Corner	Gtl	CollgCr
104	105	50	RM	NaN	7758	Pave	Reg	Lvl	AllPub	Corner	Gtl	IDOTRR
105	106	60	FV	75.0	9375	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
106	107	30	RM	60.0	10800	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
107	108	20	RM	50.0	6000	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
108	109	50	RM	85.0	8500	Pave	Reg	Lvl	AllPub	Corner	Gtl	IDOTRR
109	110	20	RL	105.0	11751	Pave	IR1	Lvl	AllPub	Inside	Gtl	NWAmes
110	111	50	RL	75.0	9525	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
111	112	80	RL	NaN	7750	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
112	113	60	RL	77.0	9965	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
113	114	20	RL	NaN	21000	Pave	Reg	Bnk	AllPub	Corner	Gtl	Crawfor
114	115	70	RL	61.0	7259	Pave	IR1	Lvl	AllPub	Inside	Mod	Crawfor
115	116	160	FV	34.0	3230	Pave	Reg	Lvl	AllPub	Corner	Gtl	Somerst
116	117	20	RL	NaN	11616	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
117	118	20	RL	74.0	8536	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards
118	119	60	RL	90.0	12376	Pave	Reg	Lvl	AllPub	Corner	Gtl	SawyerW
119	120	60	RL	65.0	8461	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
120	121	80	RL	NaN	21453	Pave	IR1	Low	AllPub	CulDSac	Sev	ClearCr
121	122	50	RM	50.0	6060	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
122	123	20	RL	75.0	9464	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
123	124	120	RL	55.0	7892	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
124	125	20	RL	48.0	17043	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NWAmes
125	126	190	RM	60.0	6780	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
126	127	120	RL	NaN	4928	Pave	IR1	Lvl	AllPub	Inside	Gtl	NPkVill
127	128	45	RM	55.0	4388	Pave	IR1	Bnk	AllPub	Inside	Gtl	OldTown
128	129	60	RL	69.0	7590	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
129	130	20	RL	69.0	8973	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
130	131	60	RL	88.0	14200	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
131	132	60	RL	NaN	12224	Pave	IR1	Lvl	AllPub	Corner	Gtl	Gilbert
132	133	20	RL	75.0	7388	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
133	134	20	RL	NaN	6853	Pave	IR1	Lvl	AllPub	Inside	Gtl	Timber
134	135	20	RL	78.0	10335	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
135	136	20	RL	80.0	10400	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
136	137	20	RL	NaN	10355	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
137	138	90	RL	82.0	11070	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
138	139	60	RL	73.0	9066	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
139	140	60	RL	65.0	15426	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
140	141	20	RL	70.0	10500	Pave	Reg	Lvl	AllPub	FR2	Gtl	NAmes
141	142	20	RL	78.0	11645	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
142	143	50	RL	71.0	8520	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
143	144	20	RL	78.0	10335	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr

144	145	90	RM	70.0	9100	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
145	146	160	RM	24.0	2522	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
146	147	30	RM	51.0	6120	Pave	Reg	Lvl	AllPub	Corner	Gtl	BrkSide
147	148	60	RL	NaN	9505	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Gilbert
148	149	20	RL	63.0	7500	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
149	150	50	RM	NaN	6240	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
150	151	20	RL	120.0	10356	Pave	Reg	Lvl	AllPub	Corner	Gtl	CollgCr
151	152	20	RL	107.0	13891	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
152	153	60	RL	NaN	14803	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NWAmes
153	154	20	RL	NaN	13500	Pave	Reg	Lvl	AllPub	Inside	Gtl	ClearCr
154	155	30	RM	84.0	11340	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
155	156	50	RL	60.0	9600	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards
156	157	20	RL	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
157	158	60	RL	92.0	12003	Pave	Reg	Lvl	AllPub	Corner	Gtl	Timber
158	159	60	FV	100.0	12552	Pave	Reg	Lvl	AllPub	Corner	Gtl	Somerst
159	160	60	RL	134.0	19378	Pave	IR1	HLS	AllPub	Corner	Gtl	Gilbert
160	161	20	RL	NaN	11120	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Veenker
161	162	60	RL	110.0	13688	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
162	163	20	RL	95.0	12182	Pave	Reg	Lvl	AllPub	Corner	Gtl	NridgHt
163	164	45	RL	55.0	5500	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
164	165	40	RM	40.0	5400	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
165	166	190	RL	62.0	10106	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
166	167	20	RL	NaN	10708	Pave	IR1	Lvl	AllPub	Inside	Gtl	ClearCr
167	168	60	RL	86.0	10562	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
168	169	60	RL	62.0	8244	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
169	170	20	RL	NaN	16669	Pave	IR1	Lvl	AllPub	Corner	Gtl	Timber
170	171	50	RM	NaN	12358	Pave	IR1	Lvl	AllPub	Inside	Gtl	OldTown
171	172	20	RL	141.0	31770	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
172	173	160	RL	44.0	5306	Pave	IR1	Lvl	AllPub	Inside	Gtl	StoneBr
173	174	20	RL	80.0	10197	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
174	175	20	RL	47.0	12416	Pave	IR1	Lvl	AllPub	Inside	Gtl	Timber
175	176	20	RL	84.0	12615	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards
176	177	60	RL	97.0	10029	Pave	IR1	Lvl	AllPub	Corner	Gtl	ClearCr
177	178	50	RL	NaN	13650	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
178	179	20	RL	63.0	17423	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	StoneBr
179	180	30	RM	60.0	8520	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
180	181	160	FV	NaN	2117	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
181	182	70	RL	54.0	7588	Pave	Reg	Lvl	AllPub	Inside	Gtl	Crawfor
182	183	20	RL	60.0	9060	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
183	184	50	RM	63.0	11426	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
184	185	50	RL	92.0	7438	Pave	IR1	Lvl	AllPub	Inside	Gtl	BrkSide
185	186	75	RM	90.0	22950	Pave	IR2	Lvl	AllPub	Inside	Gtl	OldTown
186	187	80	RL	NaN	9947	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Mitchel
187	188	50	RL	60.0	10410	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
188	189	90	RL	64.0	7018	Pave	Reg	Bnk	AllPub	Inside	Gtl	SawyerW
189	190	120	RL	41.0	4923	Pave	Reg	Lvl	AllPub	Inside	Gtl	StoneBr
190	191	70	RL	70.0	10570	Pave	Reg	Bnk	AllPub	Inside	Mod	Crawfor
191	192	60	RL	NaN	7472	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NAmes
192	193	20	RL	68.0	9017	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
193	194	160	RM	24.0	2522	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
194	195	20	RL	60.0	7180	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
195	196	160	RL	24.0	2280	Pave	Reg	Lvl	AllPub	FR2	Gtl	NPkVill
196	197	20	RL	79.0	9416	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
197	198	75	RL	174.0	25419	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
198	199	75	RM	92.0	5520	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown

199	200	20	RL	76.0	9591	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
200	201	20	RM	80.0	8546	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards
201	202	20	RL	75.0	10125	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
202	203	50	RL	50.0	7000	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
203	204	120	RM	NaN	4438	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
204	205	50	RM	50.0	3500	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
205	206	20	RL	99.0	11851	Pave	Reg	Lvl	AllPub	Corner	Gtl	Gilbert
206	207	20	RL	40.0	13673	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Sawyer
207	208	20	RL	NaN	12493	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
208	209	60	RL	NaN	14364	Pave	IR1	Low	AllPub	Inside	Mod	SawyerW
209	210	20	RL	75.0	8250	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
210	211	30	RL	67.0	5604	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
211	212	20	RL	83.0	10420	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards
212	213	60	FV	72.0	8640	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
213	214	20	RL	43.0	13568	Pave	IR2	Lvl	AllPub	CulDSac	Gtl	CollgCr
214	215	60	RL	NaN	10900	Pave	IR1	Lvl	AllPub	FR2	Gtl	CollgCr
215	216	20	RL	72.0	10011	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
216	217	20	RL	65.0	8450	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
217	218	70	RM	57.0	9906	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
218	219	50	RL	NaN	15660	Pave	IR1	Lvl	AllPub	Corner	Gtl	Crawfor
219	220	120	RL	43.0	3010	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
220	221	20	RL	73.0	8990	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
221	222	60	RL	NaN	8068	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
222	223	60	RL	85.0	11475	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
223	224	20	RL	70.0	10500	Pave	Reg	Lvl	AllPub	FR2	Gtl	NAmes
224	225	20	RL	103.0	13472	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
225	226	160	RM	21.0	1680	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
226	227	60	RL	82.0	9950	Pave	IR1	Lvl	AllPub	Inside	Gtl	NoRidge
227	228	160	RM	21.0	1869	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
228	229	20	RL	70.0	8521	Pave	Reg	Lvl	AllPub	FR2	Gtl	Sawyer
229	230	120	RL	43.0	3182	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
230	231	20	RL	73.0	8760	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
231	232	60	RL	174.0	15138	Pave	IR1	Lvl	AllPub	Inside	Gtl	NoRidge
232	233	160	RM	21.0	1680	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
233	234	20	RL	75.0	10650	Pave	Reg	Lvl	AllPub	Corner	Gtl	CollgCr
234	235	60	RL	NaN	7851	Pave	Reg	Lvl	AllPub	Inside	Gtl	Gilbert
235	236	160	RM	21.0	1680	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
236	237	20	RL	65.0	8773	Pave	Reg	Lvl	AllPub	FR2	Gtl	CollgCr
237	238	60	RL	NaN	9453	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	SawyerW
238	239	20	RL	93.0	12030	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
239	240	50	RL	52.0	8741	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
240	241	20	FV	75.0	9000	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
241	242	30	RM	40.0	3880	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
242	243	50	RM	63.0	5000	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
243	244	160	RL	75.0	10762	Pave	Reg	Lvl	AllPub	Corner	Gtl	SawyerW
244	245	60	RL	NaN	8880	Pave	IR1	Lvl	AllPub	Inside	Gtl	SawyerW
245	246	20	RL	80.0	10400	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
246	247	190	RM	69.0	9142	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
247	248	20	RL	75.0	11310	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
248	249	60	RL	72.0	11317	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
249	250	50	RL	NaN	159000	Pave	IR2	Low	AllPub	CulDSac	Sev	ClearCr
250	251	30	RL	55.0	5350	Pave	IR1	Lvl	AllPub	Inside	Gtl	BrkSide
251	252	120	RM	44.0	4750	Pave	IR1	HLS	AllPub	Inside	Mod	Crawfor
252	253	60	RL	65.0	8366	Pave	IR1	Lvl	AllPub	Inside	Gtl	SawyerW

253	254	80	RL	85.0	9350	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
254	255	20	RL	70.0	8400	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
255	256	60	RL	66.0	8738	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
256	257	60	FV	64.0	8791	Pave	IR1	Lvl	AllPub	Inside	Gtl	Somerst
257	258	20	RL	68.0	8814	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
258	259	60	RL	80.0	12435	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
259	260	20	RM	70.0	12702	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
260	261	80	RL	120.0	19296	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
261	262	60	RL	69.0	9588	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
262	263	80	RL	88.0	8471	Pave	IR1	Lvl	AllPub	Corner	Gtl	Sawyer
263	264	50	RM	50.0	5500	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
264	265	30	RM	30.0	5232	Pave	IR3	Bnk	AllPub	Inside	Gtl	OldTown
265	266	20	RL	78.0	12090	Pave	IR1	Lvl	AllPub	Inside	Gtl	NWAmes
266	267	60	RL	70.0	11207	Pave	IR1	HLS	AllPub	FR2	Gtl	Gilbert
267	268	75	RL	60.0	8400	Pave	Reg	Bnk	AllPub	Inside	Mod	SWISU
268	269	30	RM	71.0	6900	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
269	270	20	RL	NaN	7917	Pave	IR1	Lvl	AllPub	Corner	Gtl	Edwards
270	271	60	FV	84.0	10728	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
271	272	20	RL	73.0	39104	Pave	IR1	Low	AllPub	CulDSac	Sev	ClearCr
272	273	60	RL	92.0	11764	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NoRidge
273	274	20	RL	80.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
274	275	20	RL	76.0	8314	Pave	Reg	Lvl	AllPub	Corner	Gtl	Mitchel
275	276	50	RL	55.0	7264	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
276	277	20	RL	129.0	9196	Pave	IR1	Lvl	AllPub	Inside	Gtl	Mitchel
277	278	20	RL	140.0	19138	Pave	Reg	Lvl	AllPub	Corner	Gtl	Gilbert
278	279	20	RL	107.0	14450	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
279	280	60	RL	83.0	10005	Pave	Reg	Lvl	AllPub	Inside	Gtl	ClearCr
280	281	60	RL	82.0	11287	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
281	282	20	FV	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
282	283	120	RL	34.0	5063	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
283	284	20	RL	74.0	9612	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
284	285	120	RL	50.0	8012	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
285	286	160	FV	35.0	4251	Pave	IR1	Lvl	AllPub	Inside	Gtl	Somerst
286	287	50	RL	77.0	9786	Pave	IR1	Bnk	AllPub	Inside	Gtl	NAmes
287	288	20	RL	NaN	8125	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
288	289	20	RL	NaN	9819	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
289	290	70	RL	60.0	8730	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
290	291	60	RL	120.0	15611	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
291	292	190	RL	55.0	5687	Pave	Reg	Bnk	AllPub	Inside	Gtl	SWISU
292	293	50	RL	60.0	11409	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
293	294	60	RL	NaN	16659	Pave	IR1	Lvl	AllPub	Corner	Gtl	NWAmes
294	295	20	RL	80.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
295	296	80	RL	37.0	7937	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Mitchel
296	297	50	RM	75.0	13710	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
297	298	60	FV	66.0	7399	Pave	IR1	Lvl	AllPub	Inside	Gtl	Somerst
298	299	60	RL	90.0	11700	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
299	300	20	RL	80.0	14000	Pave	Reg	Lvl	AllPub	Inside	Gtl	Crawfor
300	301	190	RL	90.0	15750	Pave	Reg	Lvl	AllPub	Corner	Gtl	Crawfor
301	302	60	RL	66.0	16226	Pave	IR3	Lvl	AllPub	Inside	Gtl	CollgCr
302	303	20	RL	118.0	13704	Pave	IR1	Lvl	AllPub	Corner	Gtl	CollgCr
303	304	20	RL	70.0	9800	Pave	Reg	Lvl	AllPub	Corner	Gtl	CollgCr
304	305	75	RM	87.0	18386	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
305	306	20	RL	80.0	10386	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
306	307	60	RL	116.0	13474	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
307	308	50	RM	NaN	7920	Pave	IR1	Lvl	AllPub	Inside	Gtl	IDOTRR

308	309	30	RL	NaN	12342	Pave	IR1	Lvl	AllPub	Inside	Gtl	Edwards
309	310	20	RL	90.0	12378	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
310	311	60	RL	NaN	7685	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
311	312	20	RL	50.0	8000	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
312	313	190	RM	65.0	7800	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
313	314	20	RL	150.0	215245	Pave	IR3	Low	AllPub	Inside	Sev	Timber
314	315	70	RM	60.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
315	316	60	RL	71.0	7795	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
316	317	60	RL	94.0	13005	Pave	IR1	Lvl	AllPub	Corner	Gtl	NWAmes
317	318	60	FV	75.0	9000	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
318	319	60	RL	90.0	9900	Pave	Reg	Low	AllPub	Inside	Mod	NoRidge
319	320	80	RL	NaN	14115	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
320	321	60	RL	111.0	16259	Pave	Reg	Lvl	AllPub	Corner	Gtl	NridgHt
321	322	60	RL	99.0	12099	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
322	323	60	RL	86.0	10380	Pave	IR1	Lvl	AllPub	Inside	Gtl	SawyerW
323	324	20	RM	49.0	5820	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
324	325	80	RL	96.0	11275	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
325	326	45	RM	50.0	5000	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
326	327	120	RL	32.0	10846	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Veenker
327	328	20	RL	80.0	11600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
328	329	75	RL	NaN	11888	Pave	IR1	Bnk	AllPub	Inside	Gtl	BrkSide
329	330	70	RM	60.0	6402	Pave	Reg	Lvl	AllPub	Corner	Gtl	IDOTRR
330	331	90	RL	NaN	10624	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
331	332	20	RL	70.0	8176	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
332	333	20	RL	85.0	10655	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
333	334	120	RM	59.0	8198	Pave	Reg	Lvl	AllPub	FR3	Gtl	NridgHt
334	335	60	RL	59.0	9042	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
335	336	190	RL	NaN	164660	Grvl	IR1	HLS	AllPub	Corner	Sev	Timber
336	337	20	RL	86.0	14157	Pave	IR1	HLS	AllPub	Corner	Gtl	StoneBr
337	338	20	RL	70.0	9135	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
338	339	20	RL	91.0	14145	Pave	Reg	Lvl	AllPub	Corner	Gtl	NWAmes
339	340	20	RL	66.0	12400	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
340	341	60	RL	85.0	14191	Pave	Reg	Lvl	AllPub	Inside	Gtl	Timber
341	342	20	RH	60.0	8400	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
342	343	90	RL	NaN	8544	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
343	344	120	RL	63.0	8849	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
344	345	160	RM	36.0	2592	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
345	346	50	RL	65.0	6435	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
346	347	20	RL	NaN	12772	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NAmes
347	348	20	RL	NaN	17600	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
348	349	160	RL	36.0	2448	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
349	350	60	RL	56.0	20431	Pave	IR2	Lvl	AllPub	Inside	Gtl	NridgHt
350	351	120	RL	68.0	7820	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
351	352	120	RL	NaN	5271	Pave	IR1	Low	AllPub	Inside	Mod	ClearCr
352	353	50	RL	60.0	9084	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
353	354	30	RM	60.0	8520	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
354	355	50	RL	60.0	8400	Pave	Reg	Bnk	AllPub	Inside	Gtl	SWISU
355	356	20	RL	105.0	11249	Pave	IR2	Lvl	AllPub	Inside	Gtl	CollgCr
356	357	20	RL	NaN	9248	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
357	358	120	RM	44.0	4224	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
358	359	80	RL	92.0	6930	Pave	IR1	Lvl	AllPub	Inside	Gtl	ClearCr
359	360	60	RL	78.0	12011	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NoRidge
360	361	85	RL	NaN	7540	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Mitchel
361	362	50	RL	NaN	9144	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
362	363	85	RL	64.0	7301	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards

363	364	160	RM	21.0	1680	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
364	365	60	RL	NaN	18800	Pave	IR1	Lvl	AllPub	FR2	Gtl	NWAmes
365	366	70	RM	59.0	10690	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
366	367	20	RL	NaN	9500	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
367	368	80	RL	101.0	9150	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
368	369	20	RL	78.0	7800	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
369	370	20	RL	NaN	9830	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
370	371	60	RL	NaN	8121	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
371	372	50	RL	80.0	17120	Pave	Reg	Lvl	AllPub	Inside	Gtl	ClearCr
372	373	120	RL	50.0	7175	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
373	374	20	RL	79.0	10634	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
374	375	60	RL	65.0	8200	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
375	376	30	RL	NaN	10020	Pave	IR1	Low	AllPub	Inside	Sev	Edwards
376	377	85	RL	57.0	8846	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	CollgCr
377	378	60	FV	102.0	11143	Pave	IR1	Lvl	AllPub	Corner	Gtl	Somerst
378	379	20	RL	88.0	11394	Pave	Reg	Lvl	AllPub	Corner	Gtl	StoneBr
379	380	60	RL	60.0	8123	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
380	381	50	RL	50.0	5000	Pave	Reg	Lvl	AllPub	Inside	Gtl	SWISU
381	382	20	FV	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
382	383	60	RL	79.0	9245	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
383	384	45	RH	60.0	9000	Pave	Reg	Lvl	AllPub	Corner	Gtl	SawyerW
384	385	60	RL	NaN	53107	Pave	IR2	Low	AllPub	Corner	Mod	ClearCr
385	386	120	RL	43.0	3182	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
386	387	50	RL	58.0	8410	Pave	Reg	Lvl	AllPub	FR2	Gtl	Edwards
387	388	80	RL	72.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
388	389	20	RL	93.0	9382	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	CollgCr
389	390	60	RL	96.0	12474	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
390	391	50	RL	50.0	8405	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
391	392	60	RL	71.0	12209	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Mitchel
392	393	20	RL	NaN	8339	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
393	394	30	RL	NaN	7446	Pave	Reg	Lvl	AllPub	Corner	Gtl	BrkSide
394	395	50	RL	60.0	10134	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
395	396	20	RL	68.0	9571	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
396	397	20	RL	60.0	7200	Pave	Reg	Low	AllPub	Inside	Gtl	CollgCr
397	398	60	RL	69.0	7590	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
398	399	30	RM	60.0	8967	Pave	Reg	Lvl	AllPub	Corner	Gtl	IDOTRR
399	400	60	FV	65.0	8125	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
400	401	120	RL	38.0	14963	Pave	IR2	Lvl	AllPub	Inside	Gtl	Veenker
401	402	20	RL	65.0	8767	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
402	403	30	RL	60.0	10200	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
403	404	60	RL	93.0	12090	Pave	Reg	Lvl	AllPub	Corner	Gtl	NoRidge
404	405	60	RL	NaN	10364	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
405	406	20	RL	NaN	9991	Pave	IR1	Lvl	AllPub	Corner	Gtl	Sawyer
406	407	50	RL	51.0	10480	Pave	Reg	Lvl	AllPub	Inside	Gtl	SWISU
407	408	70	RL	63.0	15576	Pave	Reg	Lvl	AllPub	Inside	Gtl	Crawfor
408	409	60	RL	109.0	14154	Pave	Reg	Lvl	AllPub	Corner	Gtl	NridgHt
409	410	60	FV	85.0	10800	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
410	411	20	RL	68.0	9571	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
411	412	190	RL	100.0	34650	Pave	Reg	Bnk	AllPub	Inside	Gtl	Gilbert
412	413	20	FV	NaN	4403	Pave	IR2	Lvl	AllPub	Inside	Gtl	Somerst
413	414	30	RM	56.0	8960	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
414	415	60	RL	59.0	11228	Pave	IR2	Lvl	AllPub	CulDSac	Gtl	SawyerW
415	416	20	RL	73.0	8899	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
416	417	60	RL	74.0	7844	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
417	418	70	RL	86.0	22420	Pave	IR1	Lvl	AllPub	Inside	Gtl	Crawfor

418	419	50	RL	60.0	8160	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
419	420	20	RL	65.0	8450	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
420	421	90	RM	78.0	7060	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
421	422	20	RL	NaN	16635	Pave	IR1	Lvl	AllPub	FR2	Gtl	NWAmes
422	423	20	RL	100.0	21750	Pave	Reg	HLS	AllPub	Inside	Mod	Mitchel
423	424	60	RL	80.0	9200	Pave	Reg	Lvl	AllPub	Inside	Gtl	NoRidge
424	425	20	RL	72.0	9000	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
425	426	60	RM	60.0	3378	Pave	Reg	HLS	AllPub	Inside	Gtl	OldTown
426	427	80	RL	NaN	12800	Pave	Reg	Low	AllPub	Inside	Mod	SawyerW
427	428	20	RL	77.0	8593	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
428	429	20	RL	64.0	6762	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
429	430	20	RL	130.0	11457	Pave	IR1	Lvl	AllPub	Corner	Gtl	Timber
430	431	160	RM	21.0	1680	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
431	432	50	RM	60.0	5586	Pave	IR1	Bnk	AllPub	Inside	Gtl	OldTown
432	433	160	RM	24.0	1920	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
433	434	60	RL	100.0	10839	Pave	IR1	Lvl	AllPub	Corner	Gtl	Gilbert
434	435	180	RM	21.0	1890	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
435	436	60	RL	43.0	10667	Pave	IR2	Lvl	AllPub	CulDSac	Gtl	CollgCr
436	437	50	RM	40.0	4400	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
437	438	45	RM	50.0	6000	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
438	439	30	RL	40.0	4280	Pave	Reg	Lvl	AllPub	Inside	Gtl	Crawfor
439	440	50	RL	67.0	12354	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards
440	441	20	RL	105.0	15431	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
441	442	90	RL	92.0	12108	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
442	443	50	RM	52.0	6240	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
443	444	120	RL	53.0	3922	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
444	445	60	RL	70.0	8750	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
445	446	20	RL	73.0	9855	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards
446	447	20	RL	137.0	16492	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
447	448	60	RL	NaN	11214	Pave	IR1	Lvl	AllPub	Corner	Gtl	Gilbert
448	449	50	RM	50.0	8600	Pave	Reg	Bnk	AllPub	Inside	Gtl	IDOTRR
449	450	50	RM	50.0	6000	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
450	451	30	RM	70.0	5684	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
451	452	20	RL	62.0	70761	Pave	IR1	Low	AllPub	Inside	Mod	ClearCr
452	453	60	RL	NaN	9303	Pave	IR1	Lvl	AllPub	Corner	Gtl	Timber
453	454	60	FV	75.0	9000	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
454	455	90	RL	63.0	9297	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
455	456	20	RL	80.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
456	457	70	RM	34.0	4571	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
457	458	20	RL	NaN	53227	Pave	IR1	Low	AllPub	CulDSac	Mod	ClearCr
458	459	70	RM	NaN	5100	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
459	460	50	RL	NaN	7015	Pave	IR1	Bnk	AllPub	Corner	Gtl	BrkSide
460	461	60	FV	75.0	8004	Pave	IR1	Lvl	AllPub	Inside	Gtl	Somerst
461	462	70	RL	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	SWISU
462	463	20	RL	60.0	8281	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
463	464	70	RL	74.0	11988	Pave	IR1	HLS	AllPub	Inside	Mod	Crawfor
464	465	20	RL	60.0	8430	Pave	Reg	HLS	AllPub	Inside	Mod	CollgCr
465	466	120	RM	NaN	3072	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
466	467	20	RL	85.0	10628	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
467	468	70	RL	79.0	9480	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
468	469	20	RL	98.0	11428	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
469	470	60	RL	76.0	9291	Pave	IR1	Lvl	AllPub	Corner	Gtl	SawyerW
470	471	120	RL	NaN	6820	Pave	IR1	Lvl	AllPub	Corner	Gtl	StoneBr
471	472	60	RL	92.0	11952	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes

472	473	180	RM	35.0	3675	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
473	474	20	RL	110.0	14977	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
474	475	120	RL	41.0	5330	Pave	Reg	Lvl	AllPub	Inside	Gtl	StoneBr
475	476	20	RL	80.0	8480	Pave	Reg	Lvl	AllPub	Corner	Gtl	Sawyer
476	477	20	RL	75.0	13125	Pave	Reg	Lvl	AllPub	Inside	Mod	CollgCr
477	478	60	RL	105.0	13693	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
478	479	20	RL	79.0	10637	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
479	480	30	RM	50.0	5925	Pave	Reg	Bnk	AllPub	Inside	Gtl	OldTown
480	481	20	RL	98.0	16033	Pave	IR1	Lvl	AllPub	FR2	Gtl	NridgHt
481	482	20	RL	72.0	11846	Pave	IR1	HLS	AllPub	Inside	Gtl	NridgHt
482	483	70	RM	50.0	2500	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
483	484	120	RM	32.0	4500	Pave	Reg	Lvl	AllPub	FR2	Gtl	Mitchel
484	485	20	RL	NaN	7758	Pave	IR1	Lvl	AllPub	Corner	Gtl	Sawyer
485	486	20	RL	80.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
486	487	20	RL	79.0	10289	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
487	488	20	RL	70.0	12243	Pave	IR1	Lvl	AllPub	Inside	Gtl	NWAmes
488	489	190	RL	60.0	10800	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
489	490	180	RM	21.0	1526	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
490	491	160	RM	NaN	2665	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
491	492	50	RL	79.0	9490	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
492	493	60	RL	105.0	15578	Pave	IR1	Lvl	AllPub	Corner	Gtl	Gilbert
493	494	20	RL	70.0	7931	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
494	495	30	RM	50.0	5784	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
495	496	30	C (all)	60.0	7879	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
496	497	20	RL	NaN	12692	Pave	IR1	Lvl	AllPub	Inside	Gtl	NoRidge
497	498	50	RL	60.0	9120	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
498	499	20	RL	65.0	7800	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
499	500	20	RL	70.0	7535	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
500	501	160	RM	21.0	1890	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
501	502	60	FV	75.0	9803	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
502	503	20	RL	70.0	9170	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards
503	504	20	RL	100.0	15602	Pave	IR1	Lvl	AllPub	Inside	Gtl	Crawfor
504	505	160	RL	24.0	2308	Pave	Reg	Lvl	AllPub	Inside	Gtl	NPkVill
505	506	90	RM	60.0	7596	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
506	507	60	RL	80.0	9554	Pave	IR1	Lvl	AllPub	Inside	Gtl	SawyerW
507	508	20	FV	75.0	7862	Pave	IR1	Lvl	AllPub	Inside	Gtl	Somerst
508	509	70	RM	60.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
509	510	20	RL	80.0	9600	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
510	511	20	RL	75.0	14559	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
511	512	120	RL	40.0	6792	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
512	513	20	RL	70.0	9100	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
513	514	20	RL	71.0	9187	Pave	Reg	Bnk	AllPub	Corner	Gtl	Mitchel
514	515	45	RL	55.0	10594	Pave	Reg	Lvl	AllPub	Inside	Gtl	Crawfor
515	516	20	RL	94.0	12220	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
516	517	80	RL	NaN	10448	Pave	IR1	Lvl	AllPub	Corner	Gtl	NWAmes
517	518	60	RL	79.0	10208	Pave	IR1	Lvl	AllPub	Inside	Gtl	NoRidge
518	519	60	RL	NaN	9531	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	CollgCr
519	520	70	RL	53.0	10918	Pave	Reg	Lvl	AllPub	Inside	Gtl	Crawfor
520	521	190	RL	60.0	10800	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
521	522	20	RL	90.0	11988	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
522	523	50	RM	50.0	5000	Pave	Reg	Lvl	AllPub	Corner	Gtl	BrkSide
523	524	60	RL	130.0	40094	Pave	IR1	Bnk	AllPub	Inside	Gtl	Edwards
524	525	60	RL	95.0	11787	Pave	IR1	Lvl	AllPub	Inside	Gtl	NoRidge
525	526	20	FV	62.0	7500	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
526	527	20	RL	70.0	13300	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes

527	528	60	RL	67.0	14948	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
528	529	30	RL	58.0	9098	Pave	IR1	Lvl	AllPub	Inside	Gtl	Edwards
529	530	20	RL	NaN	32668	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Crawfor
530	531	80	RL	85.0	10200	Pave	Reg	Lvl	AllPub	Inside	Gtl	Timber
531	532	70	RM	60.0	6155	Pave	IR1	Lvl	AllPub	FR3	Gtl	BrkSide
532	533	20	RL	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
533	534	20	RL	50.0	5000	Pave	Reg	Low	AllPub	Inside	Mod	BrkSide
534	535	60	RL	74.0	9056	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
535	536	190	RL	70.0	7000	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
536	537	60	RL	57.0	8924	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	CollgCr
537	538	20	RL	NaN	12735	Pave	IR1	Lvl	AllPub	FR2	Gtl	NAmes
538	539	20	RL	NaN	11553	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
539	540	20	RL	NaN	11423	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
540	541	20	RL	85.0	14601	Pave	Reg	Lvl	AllPub	Inside	Gtl	Timber
541	542	60	RL	NaN	11000	Pave	Reg	Lvl	AllPub	FR2	Gtl	NoRidge
542	543	20	RL	78.0	10140	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
543	544	120	RH	34.0	4058	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
544	545	60	RL	58.0	17104	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
545	546	50	RL	NaN	13837	Pave	IR1	Lvl	AllPub	Corner	Gtl	NWAmes
546	547	50	RL	70.0	8737	Pave	IR1	Bnk	AllPub	Inside	Gtl	BrkSide
547	548	85	RL	54.0	7244	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
548	549	20	RM	49.0	8235	Pave	IR1	HLS	AllPub	Inside	Gtl	OldTown
549	550	60	FV	75.0	9375	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
550	551	120	RL	53.0	4043	Pave	Reg	Lvl	AllPub	Inside	Gtl	NPkVill
551	552	20	RM	50.0	6000	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
552	553	20	RL	87.0	11146	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
553	554	20	RL	67.0	8777	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
554	555	60	RL	85.0	10625	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
555	556	45	RM	58.0	6380	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
556	557	20	RL	69.0	14850	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
557	558	50	C (all)	60.0	11040	Pave	Reg	Low	AllPub	Inside	Mod	IDOTRR
558	559	60	RL	57.0	21872	Pave	IR2	HLS	AllPub	FR2	Gtl	Gilbert
559	560	120	RL	NaN	3196	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
560	561	20	RL	NaN	11341	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
561	562	20	RL	77.0	10010	Pave	Reg	Lvl	AllPub	Inside	Mod	Mitchel
562	563	30	RL	63.0	13907	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
563	564	50	RL	66.0	21780	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
564	565	60	RL	NaN	13346	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NoRidge
565	566	70	RL	66.0	6858	Pave	Reg	Bnk	AllPub	Corner	Gtl	SWISU
566	567	60	RL	77.0	11198	Pave	IR1	Lvl	AllPub	Inside	Gtl	StoneBr
567	568	20	RL	70.0	10171	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
568	569	50	RL	79.0	12327	Pave	IR1	Low	AllPub	Inside	Mod	SawyerW
569	570	90	RL	NaN	7032	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
570	571	90	RL	74.0	13101	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
571	572	20	RL	60.0	7332	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
572	573	60	RL	83.0	13159	Pave	IR1	HLS	AllPub	Corner	Gtl	Timber
573	574	80	RL	76.0	9967	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
574	575	80	RL	70.0	10500	Pave	Reg	Lvl	AllPub	FR2	Gtl	NAmes
575	576	50	RL	80.0	8480	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
576	577	50	RL	52.0	6292	Pave	Reg	Lvl	AllPub	Inside	Gtl	SWISU
577	578	80	RL	96.0	11777	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
578	579	160	FV	34.0	3604	Pave	Reg	Lvl	AllPub	Corner	Gtl	Somerst
579	580	50	RM	81.0	12150	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
580	581	20	RL	NaN	14585	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NAmes
581	582	20	RL	98.0	12704	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt

582	583	90	RL	81.0	11841	Grvl	Reg	Lvl	AllPub	Inside	Gtl	Edwards
583	584	75	RM	75.0	13500	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
584	585	50	RM	51.0	6120	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
585	586	20	RL	88.0	11443	Pave	Reg	Lvl	AllPub	Inside	Gtl	Timber
586	587	30	RL	55.0	10267	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
587	588	85	RL	74.0	8740	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
588	589	20	RL	65.0	25095	Pave	IR1	Low	AllPub	Inside	Sev	ClearCr
589	590	40	RM	50.0	9100	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
590	591	60	RL	64.0	8320	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
591	592	60	RL	97.0	13478	Pave	IR1	Lvl	AllPub	Corner	Gtl	NridgHt
592	593	20	RL	60.0	6600	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
593	594	120	RM	NaN	4435	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
594	595	20	RL	88.0	7990	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
595	596	20	RL	69.0	11302	Pave	IR1	Lvl	AllPub	Inside	Gtl	StoneBr
596	597	70	RM	60.0	3600	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
597	598	120	RL	53.0	3922	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
598	599	20	RL	80.0	12984	Pave	Reg	Bnk	AllPub	Inside	Gtl	Crawfor
599	600	160	RM	24.0	1950	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blueste
600	601	60	RL	74.0	10927	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
601	602	50	RM	50.0	9000	Pave	Reg	Bnk	AllPub	Inside	Gtl	IDOTRR
602	603	60	RL	80.0	10041	Pave	IR1	Lvl	AllPub	Inside	Gtl	SawyerW
603	604	160	FV	30.0	3182	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
604	605	20	RL	88.0	12803	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
605	606	60	RL	85.0	13600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
606	607	20	RL	82.0	12464	Pave	IR2	Low	AllPub	Corner	Mod	CollgCr
607	608	20	RL	78.0	7800	Pave	Reg	Bnk	AllPub	Inside	Mod	Edwards
608	609	70	RL	78.0	12168	Pave	Reg	HLS	AllPub	Inside	Mod	Crawfor
609	610	20	RL	61.0	7943	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
610	611	60	RL	NaN	11050	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
611	612	80	RL	NaN	10395	Pave	IR1	Lvl	AllPub	FR2	Gtl	NWAmes
612	613	60	RL	NaN	11885	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
613	614	20	RL	70.0	8402	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
614	615	180	RM	21.0	1491	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
615	616	85	RL	80.0	8800	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
616	617	60	RL	NaN	7861	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
617	618	45	RL	59.0	7227	Pave	Reg	HLS	AllPub	Corner	Mod	NAmes
618	619	20	RL	90.0	11694	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
619	620	60	RL	85.0	12244	Pave	Reg	Lvl	AllPub	Inside	Gtl	Timber
620	621	30	RL	45.0	8248	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
621	622	60	RL	90.0	10800	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
622	623	20	RL	71.0	7064	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
623	624	160	FV	NaN	2117	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
624	625	60	RL	80.0	10400	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
625	626	20	RL	87.0	10000	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
626	627	20	RL	NaN	12342	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
627	628	80	RL	80.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
628	629	60	RL	70.0	11606	Pave	IR1	HLS	AllPub	Inside	Sev	NAmes
629	630	80	RL	82.0	9020	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
630	631	70	RM	50.0	9000	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
631	632	120	RL	34.0	4590	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
632	633	20	RL	85.0	11900	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
633	634	20	RL	80.0	9250	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
634	635	90	RL	64.0	6979	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
635	636	190	RH	60.0	10896	Pave	Reg	Bnk	AllPub	Inside	Gtl	SWISU
636	637	30	RM	51.0	6120	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide

637	638	190	RM	50.0	6000	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
638	639	30	RL	67.0	8777	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
639	640	120	RL	53.0	3982	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
640	641	120	RL	62.0	12677	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
641	642	60	FV	NaN	7050	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
642	643	80	RL	75.0	13860	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
643	644	60	RL	80.0	10793	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
644	645	20	FV	85.0	9187	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
645	646	20	RL	NaN	10530	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
646	647	20	RL	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
647	648	20	RL	85.0	10452	Pave	IR1	Lvl	AllPub	Inside	Gtl	Edwards
648	649	60	RL	70.0	7700	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
649	650	180	RM	21.0	1936	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
650	651	60	FV	65.0	8125	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
651	652	70	RL	60.0	9084	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
652	653	60	RL	70.0	8750	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
653	654	50	RM	60.0	10320	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
654	655	20	RL	91.0	10437	Pave	IR1	Lvl	AllPub	Inside	Gtl	NoRidge
655	656	160	RM	21.0	1680	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
656	657	20	RL	72.0	10007	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
657	658	70	RL	60.0	7200	Pave	Reg	HLS	AllPub	Inside	Mod	Crawfor
658	659	50	RL	78.0	17503	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
659	660	20	RL	75.0	9937	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards
660	661	60	RL	NaN	12384	Pave	Reg	Lvl	AllPub	CulDSac	Gtl	NWAmes
661	662	60	RL	52.0	46589	Pave	IR2	Lvl	AllPub	CulDSac	Gtl	NoRidge
662	663	20	RL	120.0	13560	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
663	664	85	RL	90.0	10012	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
664	665	20	RL	49.0	20896	Pave	IR2	Lvl	AllPub	CulDSac	Gtl	Somerst
665	666	60	RL	106.0	11194	Pave	IR1	Lvl	AllPub	Corner	Gtl	Gilbert
666	667	60	RL	NaN	18450	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
667	668	20	RL	65.0	8125	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
668	669	20	RL	NaN	14175	Pave	Reg	Bnk	AllPub	Corner	Mod	Sawyer
669	670	30	RL	80.0	11600	Pave	Reg	Lvl	AllPub	Inside	Gtl	Crawfor
670	671	60	RL	64.0	8633	Pave	Reg	Lvl	AllPub	FR2	Gtl	CollgCr
671	672	70	RH	54.0	6629	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
672	673	20	RL	NaN	11250	Pave	IR1	Lvl	AllPub	Inside	Gtl	Veenker
673	674	20	RL	110.0	14442	Pave	Reg	Lvl	AllPub	Inside	Gtl	Crawfor
674	675	20	RL	80.0	9200	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
675	676	160	RL	24.0	2289	Pave	Reg	Lvl	AllPub	Inside	Gtl	NPkVill
676	677	70	RM	60.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
677	678	30	RL	52.0	9022	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
678	679	20	RL	80.0	11844	Pave	IR1	Lvl	AllPub	Inside	Gtl	StoneBr
679	680	20	RL	NaN	9945	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
680	681	120	RL	50.0	8012	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
681	682	50	RH	55.0	4500	Pave	IR2	Bnk	AllPub	Inside	Gtl	SWISU
682	683	120	RL	NaN	2887	Pave	Reg	HLS	AllPub	Inside	Gtl	ClearCr
683	684	20	RL	90.0	11248	Pave	IR1	Lvl	AllPub	Corner	Gtl	CollgCr
684	685	60	RL	58.0	16770	Pave	IR2	Lvl	AllPub	CulDSac	Gtl	NoRidge
685	686	160	RL	NaN	5062	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	StoneBr
686	687	60	FV	84.0	10207	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
687	688	160	FV	NaN	5105	Pave	IR2	Lvl	AllPub	FR2	Gtl	Somerst
688	689	20	RL	60.0	8089	Pave	Reg	HLS	AllPub	Inside	Gtl	StoneBr
689	690	120	RL	61.0	7577	Pave	IR1	Lvl	AllPub	Corner	Gtl	NridgHt
690	691	120	RM	NaN	4426	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr

691	692	60	RL	104.0	21535	Pave	IR1	Lvl	AllPub	Corner	Gtl	NoRidge
692	693	60	RL	42.0	26178	Pave	IR1	Lvl	AllPub	Inside	Mod	Timber
693	694	30	RL	60.0	5400	Pave	Reg	Lvl	AllPub	Corner	Sev	OldTown
694	695	50	RM	51.0	6120	Pave	Reg	Lvl	AllPub	Corner	Gtl	BrkSide
695	696	20	RL	54.0	13811	Pave	IR1	Lvl	AllPub	Inside	Gtl	Timber
696	697	30	RM	50.0	6000	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
697	698	20	RL	57.0	6420	Pave	IR1	Lvl	AllPub	Inside	Gtl	Edwards
698	699	20	RL	65.0	8450	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
699	700	120	FV	59.0	4282	Pave	IR2	Lvl	AllPub	Inside	Gtl	Somerst
700	701	20	RL	85.0	14331	Pave	Reg	Lvl	AllPub	Inside	Gtl	Timber
701	702	20	RL	80.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
702	703	60	RL	82.0	12438	Pave	IR1	Lvl	AllPub	Inside	Gtl	StoneBr
703	704	190	RM	76.0	7630	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
704	705	20	RL	70.0	8400	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
705	706	190	RM	70.0	5600	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
706	707	20	RL	NaN	115149	Pave	IR2	Low	AllPub	CulDSac	Sev	ClearCr
707	708	120	RL	48.0	6240	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
708	709	60	RL	65.0	9018	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
709	710	20	RL	NaN	7162	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
710	711	30	RL	56.0	4130	Pave	IR1	Lvl	AllPub	Inside	Gtl	BrkSide
711	712	50	C (all)	66.0	8712	Pave	Reg	HLS	AllPub	Inside	Mod	IDOTRR
712	713	120	RL	40.0	4671	Pave	IR1	HLS	AllPub	Inside	Gtl	StoneBr
713	714	190	RL	60.0	9873	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
714	715	60	RL	NaN	13517	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Sawyer
715	716	20	RL	78.0	10140	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
716	717	70	RM	60.0	10800	Pave	Reg	Bnk	AllPub	Inside	Gtl	OldTown
717	718	20	RL	80.0	10000	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
718	719	60	RL	96.0	10542	Pave	Reg	Lvl	AllPub	Inside	Gtl	NoRidge
719	720	20	RL	69.0	9920	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
720	721	120	RL	NaN	6563	Pave	IR1	Low	AllPub	CulDSac	Mod	StoneBr
721	722	120	RM	NaN	4426	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
722	723	20	RL	70.0	8120	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
723	724	50	RL	60.0	8172	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
724	725	20	RL	86.0	13286	Pave	IR1	Lvl	AllPub	Inside	Gtl	Edwards
725	726	20	RL	60.0	6960	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
726	727	20	RL	NaN	21695	Pave	IR1	Lvl	AllPub	Corner	Gtl	Crawfor
727	728	20	RL	64.0	7314	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
728	729	90	RL	85.0	11475	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
729	730	30	RM	52.0	6240	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
730	731	120	RL	39.0	5389	Pave	IR1	Lvl	AllPub	Inside	Gtl	StoneBr
731	732	80	RL	73.0	9590	Pave	IR1	Lvl	AllPub	Corner	Gtl	Timber
732	733	60	RL	75.0	11404	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
733	734	20	RL	80.0	10000	Pave	Reg	Lvl	AllPub	Corner	Gtl	Sawyer
734	735	20	RL	NaN	8978	Pave	IR1	Lvl	AllPub	Corner	Gtl	Sawyer
735	736	75	RM	60.0	10800	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
736	737	90	RL	60.0	8544	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
737	738	60	RL	72.0	10463	Pave	IR1	HLS	AllPub	CulDSac	Gtl	Gilbert
738	739	90	RL	60.0	10800	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
739	740	60	RL	65.0	9313	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
740	741	70	RM	60.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
741	742	20	RL	65.0	6768	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
742	743	20	RL	65.0	8450	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
743	744	80	RL	70.0	12886	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
744	745	120	RL	41.0	5395	Pave	IR1	HLS	AllPub	Inside	Gtl	StoneBr
745	746	60	RL	NaN	8963	Pave	IR1	Lvl	AllPub	Inside	Gtl	NWAmes

746	747	60	RL	NaN	8795	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
747	748	70	RM	65.0	11700	Pave	IR1	Lvl	AllPub	Corner	Gtl	OldTown
748	749	20	RL	59.0	10593	Pave	IR1	Lvl	AllPub	Inside	Gtl	NoRidge
749	750	50	RL	50.0	8405	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
750	751	50	RM	55.0	8800	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
751	752	60	RL	NaN	7750	Pave	Reg	Lvl	AllPub	Inside	Gtl	Gilbert
752	753	20	RL	79.0	9236	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
753	754	60	RL	80.0	10240	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
754	755	20	RL	61.0	7930	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
755	756	160	FV	34.0	3230	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
756	757	60	RL	68.0	10769	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
757	758	60	RL	NaN	11616	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Sawyer
758	759	160	FV	24.0	2280	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
759	760	60	RL	65.0	12257	Pave	IR1	Lvl	AllPub	Inside	Gtl	NoRidge
760	761	20	RL	70.0	9100	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
761	762	30	RM	60.0	6911	Pave	Reg	Lvl	AllPub	FR2	Gtl	BrkSide
762	763	60	FV	72.0	8640	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
763	764	60	RL	82.0	9430	Pave	Reg	Lvl	AllPub	Inside	Gtl	NoRidge
764	765	120	RL	30.0	9549	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Veenker
765	766	20	RL	75.0	14587	Pave	IR1	Lvl	AllPub	Inside	Gtl	Somerst
766	767	60	RL	80.0	10421	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
767	768	50	RL	75.0	12508	Pave	IR1	Lvl	AllPub	Inside	Gtl	Mitchel
768	769	20	RL	70.0	9100	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
769	770	60	RL	47.0	53504	Pave	IR2	HLS	AllPub	CulDSac	Mod	StoneBr
770	771	85	RL	NaN	7252	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Sawyer
771	772	20	RL	67.0	8877	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
772	773	80	RL	94.0	7819	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
773	774	20	RL	70.0	10150	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
774	775	20	RL	110.0	14226	Pave	Reg	Lvl	AllPub	Corner	Gtl	NridgHt
775	776	120	RM	32.0	4500	Pave	Reg	Lvl	AllPub	FR2	Gtl	Mitchel
776	777	20	RL	86.0	11210	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
777	778	20	RL	100.0	13350	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
778	779	90	RH	60.0	8400	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
779	780	90	RL	78.0	10530	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
780	781	20	RL	63.0	7875	Pave	Reg	Lvl	AllPub	Inside	Gtl	Gilbert
781	782	60	RL	65.0	7153	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
782	783	20	RL	67.0	16285	Pave	IR2	Lvl	AllPub	Inside	Gtl	CollgCr
783	784	85	RL	NaN	9101	Pave	IR1	Lvl	AllPub	Corner	Gtl	Mitchel
784	785	75	RM	35.0	6300	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
785	786	20	RL	NaN	9790	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
786	787	50	RM	60.0	10800	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
787	788	60	RL	76.0	10142	Pave	IR1	Lvl	AllPub	Inside	Gtl	SawyerW
788	789	20	RM	50.0	6000	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
789	790	60	RL	NaN	12205	Pave	IR1	Low	AllPub	Inside	Gtl	ClearCr
790	791	120	RL	43.0	3182	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
791	792	80	RL	NaN	11333	Pave	IR1	Lvl	AllPub	Corner	Gtl	Mitchel
792	793	60	RL	92.0	9920	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NoRidge
793	794	20	RL	76.0	9158	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
794	795	60	RL	NaN	10832	Pave	IR1	Lvl	AllPub	Corner	Gtl	Gilbert
795	796	60	RL	70.0	8400	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
796	797	20	RL	71.0	8197	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
797	798	20	RL	57.0	7677	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
798	799	60	RL	104.0	13518	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
799	800	50	RL	60.0	7200	Pave	Reg	Lvl	AllPub	Corner	Gtl	SWISU
800	801	60	RL	79.0	12798	Pave	IR1	HLS	AllPub	Inside	Mod	ClearCr

801	802	30	RM	40.0	4800	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
802	803	60	RL	63.0	8199	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
803	804	60	RL	107.0	13891	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
804	805	20	RL	75.0	9000	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
805	806	20	RL	91.0	12274	Pave	IR1	Lvl	AllPub	FR2	Gtl	Somerst
806	807	80	RL	75.0	9750	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
807	808	70	RL	144.0	21384	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
808	809	80	RL	85.0	13400	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
809	810	75	RM	90.0	8100	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
810	811	20	RL	78.0	10140	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
811	812	120	RM	NaN	4438	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
812	813	20	C (all)	66.0	8712	Grvl	Reg	Bnk	AllPub	Inside	Mod	IDOTRR
813	814	20	RL	75.0	9750	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
814	815	50	RL	45.0	8248	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
815	816	20	RL	48.0	12137	Pave	IR2	Lvl	AllPub	CulDSac	Gtl	CollgCr
816	817	20	RL	NaN	11425	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
817	818	20	RL	NaN	13265	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Mitchel
818	819	80	RL	80.0	8816	Pave	Reg	Lvl	AllPub	Inside	Gtl	ClearCr
819	820	120	RL	44.0	6371	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
820	821	60	RL	72.0	7226	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	CollgCr
821	822	20	RM	60.0	6000	Pave	Reg	Bnk	AllPub	Inside	Mod	OldTown
822	823	60	RL	NaN	12394	Pave	IR1	Lvl	AllPub	Corner	Gtl	Gilbert
823	824	50	RL	60.0	9900	Pave	Reg	Lvl	AllPub	Inside	Gtl	SWISU
824	825	20	FV	81.0	11216	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
825	826	20	RL	114.0	14803	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
826	827	45	RM	50.0	6130	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
827	828	20	RL	65.0	8529	Pave	IR1	Lvl	AllPub	Inside	Gtl	SawyerW
828	829	60	RL	NaN	28698	Pave	IR2	Low	AllPub	CulDSac	Sev	ClearCr
829	830	160	FV	24.0	2544	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
830	831	20	RL	80.0	11900	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
831	832	160	FV	30.0	3180	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
832	833	60	RL	44.0	9548	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	CollgCr
833	834	20	RL	100.0	10004	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
834	835	20	RL	75.0	7875	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
835	836	20	RL	60.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
836	837	30	RM	90.0	8100	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
837	838	160	RM	21.0	1680	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
838	839	20	RL	75.0	9525	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
839	840	50	RL	70.0	11767	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
840	841	70	RH	NaN	12155	Pave	IR1	Lvl	AllPub	Inside	Gtl	SWISU
841	842	70	RM	60.0	10440	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
842	843	80	RL	82.0	9020	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
843	844	90	RL	80.0	8000	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
844	845	50	RM	100.0	12665	Pave	IR1	Lvl	AllPub	Inside	Gtl	OldTown
845	846	85	RL	NaN	16647	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Sawyer
846	847	60	RL	75.0	9317	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
847	848	20	RL	36.0	15523	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	CollgCr
848	849	50	RL	75.0	45600	Pave	IR2	Bnk	AllPub	Inside	Gtl	ClearCr
849	850	80	RL	80.0	9600	Pave	Reg	Lvl	AllPub	FR2	Gtl	Veenker
850	851	120	RM	36.0	4435	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
851	852	120	RL	NaN	3196	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
852	853	75	RL	53.0	7128	Pave	Reg	Lvl	AllPub	Inside	Gtl	Crawfor
853	854	80	RL	NaN	12095	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
854	855	20	RL	102.0	17920	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
855	856	20	RL	NaN	6897	Pave	IR1	Lvl	AllPub	Corner	Gtl	Sawyer

856	857	80	RL	NaN	10970	Pave	IR1	Low	AllPub	Inside	Mod	CollgCr
857	858	60	RL	65.0	8125	Pave	Reg	Lvl	AllPub	Inside	Gtl	Gilbert
858	859	20	RL	80.0	10400	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
859	860	60	RL	NaN	11029	Pave	IR1	Lvl	AllPub	Corner	Gtl	NWAmes
860	861	50	RL	55.0	7642	Pave	Reg	Lvl	AllPub	Corner	Gtl	Crawfor
861	862	190	RL	75.0	11625	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
862	863	20	RL	81.0	9672	Pave	Reg	Lvl	AllPub	Corner	Gtl	SawyerW
863	864	20	RL	70.0	7931	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
864	865	20	FV	72.0	8640	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
865	866	20	RL	NaN	8750	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
866	867	20	RL	67.0	10656	Pave	IR1	HLS	AllPub	Inside	Gtl	Timber
867	868	20	RL	85.0	6970	Pave	Reg	Lvl	AllPub	Corner	Gtl	Sawyer
868	869	60	RL	NaN	14762	Pave	IR2	Lvl	AllPub	Corner	Gtl	Gilbert
869	870	60	RL	80.0	9938	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
870	871	20	RL	60.0	6600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
871	872	60	RL	70.0	8750	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
872	873	20	RL	74.0	8892	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
873	874	40	RL	60.0	12144	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
874	875	50	RM	52.0	5720	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
875	876	60	FV	75.0	9000	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
876	877	20	RL	94.0	25286	Pave	Reg	HLS	AllPub	Inside	Mod	Mitchel
877	878	60	RL	74.0	8834	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
878	879	85	RL	88.0	11782	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
879	880	20	RL	NaN	7000	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	CollgCr
880	881	20	RL	60.0	7024	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
881	882	50	RL	44.0	13758	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Timber
882	883	60	RL	NaN	9636	Pave	IR1	Lvl	AllPub	Corner	Gtl	Gilbert
883	884	75	RL	60.0	6204	Pave	Reg	Bnk	AllPub	Inside	Gtl	SWISU
884	885	20	RL	65.0	7150	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
885	886	120	FV	50.0	5119	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Somerst
886	887	90	RL	70.0	8393	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
887	888	50	RL	59.0	16466	Pave	IR1	Lvl	AllPub	Inside	Gtl	Edwards
888	889	20	RL	95.0	15865	Pave	IR1	Lvl	AllPub	Inside	Mod	NAmes
889	890	20	RL	128.0	12160	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
890	891	50	RL	60.0	8064	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
891	892	60	RL	70.0	11184	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
892	893	20	RL	70.0	8414	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
893	894	20	RL	NaN	13284	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
894	895	90	RL	64.0	7018	Pave	Reg	Bnk	AllPub	Inside	Gtl	SawyerW
895	896	60	RL	71.0	7056	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
896	897	30	RM	50.0	8765	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
897	898	90	RL	64.0	7018	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
898	899	20	RL	100.0	12919	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
899	900	20	RL	65.0	6993	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
900	901	20	RL	NaN	7340	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
901	902	20	RL	64.0	8712	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
902	903	60	RL	63.0	7875	Pave	Reg	Lvl	AllPub	Inside	Gtl	Gilbert
903	904	20	RL	50.0	14859	Pave	IR1	HLS	AllPub	CulDSac	Gtl	Gilbert
904	905	20	RL	NaN	6173	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
905	906	20	RL	80.0	9920	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
906	907	20	RL	116.0	13501	Pave	IR1	Lvl	AllPub	Corner	Gtl	Somerst
907	908	50	RL	86.0	11500	Pave	IR1	Lvl	AllPub	Inside	Gtl	Crawfor
908	909	20	RL	NaN	8885	Pave	IR1	Low	AllPub	Inside	Mod	Mitchel
909	910	60	RL	149.0	12589	Pave	IR2	Lvl	AllPub	Inside	Gtl	Gilbert

910	911	90	RL	80.0	11600	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
911	912	20	RL	NaN	9286	Pave	IR1	Lvl	AllPub	CulDSac	Mod	CollgCr
912	913	30	RM	51.0	6120	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
913	914	90	RH	82.0	6270	Pave	Reg	HLS	AllPub	Inside	Gtl	Crawfor
914	915	160	FV	30.0	3000	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
915	916	160	RM	21.0	2001	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
916	917	20	C (all)	50.0	9000	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
917	918	20	RL	NaN	17140	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
918	919	60	RL	103.0	13125	Pave	IR1	Lvl	AllPub	Corner	Gtl	SawyerW
919	920	20	RL	87.0	11029	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
920	921	60	RL	70.0	8462	Pave	IR1	Lvl	AllPub	Inside	Gtl	SawyerW
921	922	90	RL	67.0	8777	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
922	923	20	RL	65.0	10237	Pave	Reg	Lvl	AllPub	Inside	Gtl	Gilbert
923	924	120	RL	50.0	8012	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
924	925	20	RL	79.0	10240	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
925	926	20	RL	NaN	15611	Pave	IR1	Lvl	AllPub	Corner	Gtl	NWAmes
926	927	60	RL	93.0	11999	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
927	928	60	RL	NaN	9900	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
928	929	20	RL	NaN	11838	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
929	930	60	RL	NaN	13006	Pave	IR1	Lvl	AllPub	Corner	Gtl	Gilbert
930	931	20	RL	73.0	8925	Pave	IR1	HLS	AllPub	Inside	Gtl	Timber
931	932	20	RL	70.0	9100	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
932	933	20	RL	84.0	11670	Pave	IR1	Lvl	AllPub	Corner	Gtl	Somerst
933	934	20	RL	63.0	8487	Pave	Reg	Lvl	AllPub	FR2	Gtl	CollgCr
934	935	20	RL	313.0	27650	Pave	IR2	HLS	AllPub	Inside	Mod	NAmes
935	936	30	RL	52.0	5825	Pave	IR1	Lvl	AllPub	Inside	Gtl	BrkSide
936	937	20	RL	67.0	10083	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
937	938	60	RL	75.0	9675	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
938	939	60	RL	73.0	8760	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
939	940	70	RL	NaN	24090	Pave	Reg	Lvl	AllPub	Inside	Gtl	ClearCr
940	941	90	RL	55.0	12640	Pave	IR1	Lvl	AllPub	Inside	Gtl	Mitchel
941	942	60	RL	NaN	8755	Pave	IR1	Lvl	AllPub	FR2	Gtl	Gilbert
942	943	90	RL	42.0	7711	Pave	IR1	Lvl	AllPub	Inside	Gtl	Edwards
943	944	90	RL	100.0	25000	Pave	Reg	Low	AllPub	Inside	Gtl	Mitchel
944	945	20	RL	NaN	14375	Pave	IR1	Lvl	NoSeWa	CulDSac	Gtl	Timber
945	946	50	RM	98.0	8820	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
946	947	80	RL	70.0	8163	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
947	948	20	RL	85.0	14536	Pave	Reg	Lvl	AllPub	Inside	Gtl	Timber
948	949	60	RL	65.0	14006	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
949	950	20	RL	78.0	9360	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
950	951	20	RL	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
951	952	20	RH	60.0	7800	Pave	Reg	Lvl	AllPub	Corner	Gtl	SawyerW
952	953	85	RL	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
953	954	60	RL	NaN	11075	Pave	IR1	Lvl	AllPub	Inside	Mod	Mitchel
954	955	90	RL	35.0	9400	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Edwards
955	956	90	RH	82.0	7136	Pave	IR1	HLS	AllPub	Inside	Gtl	Crawfor
956	957	160	RM	24.0	1300	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blueste
957	958	20	RL	70.0	7420	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
958	959	20	RL	65.0	8450	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
959	960	160	FV	24.0	2572	Pave	Reg	Lvl	AllPub	FR2	Gtl	Somerst
960	961	20	RL	50.0	7207	Pave	IR1	Lvl	AllPub	Inside	Gtl	BrkSide
961	962	60	RL	NaN	12227	Pave	IR1	Lvl	AllPub	Corner	Gtl	NWAmes
962	963	160	RL	24.0	2308	Pave	Reg	Lvl	AllPub	Corner	Gtl	NPkVill
963	964	20	RL	122.0	11923	Pave	IR1	Lvl	AllPub	Corner	Gtl	CollgCr
964	965	60	RL	80.0	11316	Pave	Reg	Lvl	AllPub	Corner	Gtl	Timber

965	966	60	RL	65.0	10237	Pave	Reg	Lvl	AllPub	Inside	Gtl	Gilbert
966	967	50	RL	130.0	9600	Pave	IR1	HLS	AllPub	Inside	Gtl	Crawfor
967	968	20	RL	NaN	7390	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
968	969	50	RM	50.0	5925	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
969	970	190	RL	75.0	10382	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
970	971	50	RL	60.0	10800	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
971	972	160	RL	36.0	2268	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
972	973	120	RL	55.0	7892	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
973	974	20	FV	95.0	11639	Pave	Reg	Lvl	AllPub	Corner	Gtl	Somerst
974	975	70	RL	60.0	11414	Pave	IR1	Lvl	AllPub	Corner	Gtl	BrkSide
975	976	160	FV	NaN	2651	Pave	Reg	Lvl	AllPub	FR2	Gtl	Somerst
976	977	30	RL	51.0	5900	Pave	IR1	Bnk	AllPub	Inside	Gtl	BrkSide
977	978	120	FV	35.0	4274	Pave	IR1	Lvl	AllPub	Inside	Gtl	Somerst
978	979	20	RL	68.0	9450	Pave	Reg	Bnk	AllPub	Inside	Mod	Edwards
979	980	20	RL	80.0	8816	Pave	Reg	Lvl	AllPub	Corner	Gtl	Sawyer
980	981	85	RL	NaN	12122	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
981	982	60	RL	98.0	12203	Pave	IR1	Lvl	AllPub	Corner	Gtl	NoRidge
982	983	20	RL	43.0	3182	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
983	984	60	RL	NaN	11250	Pave	Reg	Lvl	AllPub	Corner	Gtl	CollgCr
984	985	90	RL	75.0	10125	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
985	986	190	RL	68.0	10880	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
986	987	50	RM	59.0	5310	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
987	988	20	RL	83.0	10159	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
988	989	60	RL	NaN	12046	Pave	IR1	Lvl	AllPub	Inside	Gtl	NWAmes
989	990	60	FV	65.0	8125	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
990	991	60	RL	82.0	9452	Pave	Reg	Lvl	AllPub	Inside	Gtl	NoRidge
991	992	70	RM	121.0	17671	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
992	993	60	RL	80.0	9760	Pave	Reg	Lvl	AllPub	Inside	Mod	NAmes
993	994	60	RL	68.0	8846	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
994	995	20	RL	96.0	12456	Pave	Reg	Lvl	AllPub	FR2	Gtl	NridgHt
995	996	50	RL	51.0	4712	Pave	IR1	Lvl	AllPub	Inside	Mod	BrkSide
996	997	20	RL	NaN	10659	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
997	998	20	RL	NaN	11717	Pave	IR1	Lvl	AllPub	Inside	Gtl	NWAmes
998	999	30	RM	60.0	9786	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
999	1000	20	RL	64.0	6762	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1000	1001	20	RL	74.0	10206	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards
1001	1002	30	RL	60.0	5400	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
1002	1003	20	RL	75.0	11957	Pave	IR1	Lvl	AllPub	Inside	Gtl	Somerst
1003	1004	90	RL	NaN	11500	Pave	IR1	Lvl	AllPub	Corner	Gtl	NWAmes
1004	1005	120	RL	43.0	3182	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
1005	1006	80	RL	65.0	8385	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1006	1007	20	RL	NaN	12155	Pave	IR3	Lvl	AllPub	Inside	Gtl	NAmes
1007	1008	160	RM	21.0	2217	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
1008	1009	20	RL	43.0	12118	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Mitchel
1009	1010	50	RL	60.0	6000	Pave	Reg	Lvl	AllPub	Inside	Gtl	SWISU
1010	1011	50	RL	115.0	21286	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
1011	1012	90	RL	75.0	9825	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1012	1013	70	RL	55.0	10592	Pave	Reg	Lvl	AllPub	Inside	Gtl	Crawfor
1013	1014	30	RM	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1014	1015	20	RL	60.0	11664	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1015	1016	60	RL	70.0	8400	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1016	1017	20	RL	73.0	11883	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1017	1018	120	RL	NaN	5814	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	StoneBr
1018	1019	80	RL	NaN	10784	Pave	IR1	Lvl	AllPub	FR2	Gtl	Gilbert
1019	1020	120	RL	43.0	3013	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn

1020	1021	20	RL	60.0	7024	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1021	1022	20	RL	64.0	7406	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1022	1023	50	RM	52.0	9439	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1023	1024	120	RL	43.0	3182	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
1024	1025	20	RL	NaN	15498	Pave	IR1	Lvl	AllPub	Corner	Gtl	Timber
1025	1026	20	RL	70.0	7700	Pave	Reg	Lvl	AllPub	Corner	Gtl	CollgCr
1026	1027	20	RL	73.0	9300	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1027	1028	20	RL	71.0	9520	Pave	IR1	HLS	AllPub	Inside	Gtl	Timber
1028	1029	50	RL	79.0	9492	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1029	1030	160	RM	21.0	1680	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
1030	1031	190	RH	NaN	7082	Pave	Reg	Lvl	AllPub	Inside	Gtl	SWISU
1031	1032	75	RL	102.0	15863	Pave	Reg	Lvl	AllPub	Corner	Gtl	SWISU
1032	1033	60	RL	NaN	14541	Pave	IR1	Lvl	AllPub	Corner	Gtl	NoRidge
1033	1034	20	RL	NaN	8125	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1034	1035	30	RL	50.0	6305	Pave	Reg	Bnk	AllPub	Inside	Gtl	Crawfor
1035	1036	20	RL	NaN	11500	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Edwards
1036	1037	20	RL	89.0	12898	Pave	IR1	HLS	AllPub	Inside	Gtl	Timber
1037	1038	60	RL	NaN	9240	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1038	1039	160	RM	21.0	1533	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
1039	1040	180	RM	21.0	1477	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
1040	1041	20	RL	88.0	13125	Pave	Reg	Lvl	AllPub	Corner	Gtl	Sawyer
1041	1042	60	RL	NaN	9130	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1042	1043	120	RL	34.0	5381	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
1043	1044	60	RL	86.0	11839	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
1044	1045	20	RL	80.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1045	1046	20	RL	NaN	13680	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Edwards
1046	1047	60	RL	85.0	16056	Pave	IR1	Lvl	AllPub	Inside	Gtl	StoneBr
1047	1048	20	RL	57.0	9245	Pave	IR2	Lvl	AllPub	Inside	Gtl	CollgCr
1048	1049	20	RL	100.0	21750	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
1049	1050	20	RL	60.0	11100	Pave	Reg	Low	AllPub	Inside	Gtl	Edwards
1050	1051	20	RL	73.0	8993	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
1051	1052	20	RL	103.0	11175	Pave	IR1	Lvl	AllPub	Corner	Gtl	CollgCr
1052	1053	60	RL	100.0	9500	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
1053	1054	20	RL	68.0	8562	Pave	Reg	Lvl	AllPub	Inside	Mod	Edwards
1054	1055	60	RL	90.0	11367	Pave	Reg	Lvl	AllPub	Corner	Gtl	CollgCr
1055	1056	20	RL	104.0	11361	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1056	1057	120	RL	43.0	7052	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
1057	1058	60	RL	NaN	29959	Pave	IR2	Lvl	AllPub	FR2	Gtl	NoRidge
1058	1059	60	RL	96.0	11308	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
1059	1060	50	RL	NaN	11275	Pave	IR1	HLS	AllPub	Corner	Mod	Crawfor
1060	1061	120	RL	41.0	4920	Pave	Reg	Lvl	AllPub	Inside	Gtl	StoneBr
1061	1062	30	C (all)	120.0	18000	Grvl	Reg	Low	AllPub	Inside	Gtl	IDOTRR
1062	1063	190	RM	85.0	13600	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1063	1064	30	RM	50.0	6000	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1064	1065	20	RL	NaN	11000	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NAmes
1065	1066	60	RL	80.0	14000	Pave	Reg	Lvl	AllPub	Inside	Mod	ClearCr
1066	1067	60	RL	59.0	7837	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
1067	1068	60	RL	80.0	9760	Pave	Reg	Lvl	AllPub	Inside	Mod	NAmes
1068	1069	160	RM	42.0	3964	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
1069	1070	45	RL	60.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1070	1071	20	RL	72.0	10152	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1071	1072	60	RL	78.0	11700	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1072	1073	50	RL	50.0	7585	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1073	1074	60	RL	75.0	7950	Pave	IR1	Bnk	AllPub	Corner	Gtl	Edwards
1074	1075	20	RL	74.0	8556	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr

1075	1076	70	RL	75.0	13125	Pave	Reg	Lvl	AllPub	Inside	Gtl	Crawfor
1076	1077	50	RL	60.0	10800	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1077	1078	20	RL	NaN	15870	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
1078	1079	120	RM	37.0	4435	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1079	1080	20	RL	65.0	8775	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1080	1081	20	RL	80.0	11040	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1081	1082	20	RL	75.0	7500	Pave	Reg	Lvl	AllPub	Corner	Gtl	Sawyer
1082	1083	20	RL	70.0	8749	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1083	1084	20	RL	80.0	8800	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1084	1085	60	RL	NaN	13031	Pave	IR2	Lvl	AllPub	Corner	Gtl	Gilbert
1085	1086	85	RL	73.0	9069	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
1086	1087	160	RM	NaN	1974	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
1087	1088	60	FV	85.0	10574	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1088	1089	160	RM	24.0	2522	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1089	1090	120	FV	37.0	3316	Pave	IR1	Lvl	AllPub	Inside	Gtl	Somerst
1090	1091	90	RL	60.0	8544	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
1091	1092	160	FV	24.0	2160	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1092	1093	50	RL	60.0	8400	Pave	Reg	Bnk	AllPub	Inside	Gtl	SWISU
1093	1094	20	RL	71.0	9230	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
1094	1095	20	RL	74.0	5868	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1095	1096	20	RL	78.0	9317	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
1096	1097	70	RM	60.0	6882	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
1097	1098	120	RL	NaN	3696	Pave	Reg	Lvl	AllPub	Inside	Gtl	StoneBr
1098	1099	50	RM	50.0	6000	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
1099	1100	20	RL	82.0	11880	Pave	IR1	Lvl	AllPub	Inside	Gtl	NWAmes
1100	1101	30	RL	60.0	8400	Pave	Reg	Bnk	AllPub	Inside	Gtl	SWISU
1101	1102	20	RL	61.0	9758	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
1102	1103	20	RL	70.0	7000	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1103	1104	20	RL	79.0	8910	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
1104	1105	160	RM	24.0	2016	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
1105	1106	60	RL	98.0	12256	Pave	IR1	Lvl	AllPub	Corner	Gtl	NoRidge
1106	1107	20	RL	114.0	10357	Pave	IR1	Lvl	AllPub	Corner	Gtl	SawyerW
1107	1108	60	RL	168.0	23257	Pave	IR3	HLS	AllPub	CulDSac	Gtl	Gilbert
1108	1109	60	RL	NaN	8063	Pave	Reg	Lvl	AllPub	Inside	Gtl	Gilbert
1109	1110	20	RL	107.0	11362	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
1110	1111	60	RL	NaN	8000	Pave	Reg	Lvl	AllPub	Inside	Gtl	Gilbert
1111	1112	60	RL	80.0	10480	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1112	1113	20	RL	73.0	7100	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
1113	1114	20	RL	66.0	8923	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1114	1115	20	RL	90.0	5400	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1115	1116	20	RL	93.0	12085	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
1116	1117	80	RL	NaN	7750	Pave	Reg	Lvl	AllPub	Inside	Gtl	Gilbert
1117	1118	20	RL	57.0	9764	Pave	IR1	Lvl	AllPub	FR2	Gtl	Sawyer
1118	1119	80	RL	85.0	13825	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
1119	1120	20	RL	70.0	7560	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1120	1121	30	RM	59.0	8263	Pave	Reg	Bnk	AllPub	Inside	Mod	IDOTRR
1121	1122	20	RL	84.0	10084	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1122	1123	20	RL	NaN	8926	Pave	IR1	Lvl	AllPub	Corner	Gtl	Edwards
1123	1124	20	RL	50.0	9405	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1124	1125	80	RL	NaN	9125	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
1125	1126	20	RL	60.0	10434	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1126	1127	120	RL	53.0	3684	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
1127	1128	20	RL	182.0	14572	Pave	IR3	Lvl	AllPub	Corner	Gtl	Gilbert
1128	1129	60	RL	59.0	11796	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert

1129	1130	90	RM	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1130	1131	50	RL	65.0	7804	Pave	Reg	Lvl	AllPub	Inside	Gtl	SWISU
1131	1132	20	RL	63.0	10712	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
1132	1133	70	RM	90.0	9900	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1133	1134	60	RL	80.0	9828	Pave	IR1	Lvl	AllPub	Inside	Gtl	SawyerW
1134	1135	60	RL	57.0	8773	Pave	IR1	HLS	AllPub	Inside	Gtl	Gilbert
1135	1136	30	RM	60.0	6180	Pave	Reg	Lvl	AllPub	Corner	Gtl	BrkSide
1136	1137	50	RL	80.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1137	1138	50	RL	54.0	6342	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
1138	1139	20	RL	NaN	9819	Pave	IR1	Lvl	AllPub	Inside	Mod	Mitchel
1139	1140	30	RL	98.0	8731	Pave	IR1	Lvl	AllPub	Inside	Gtl	BrkSide
1140	1141	20	RL	60.0	7350	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
1141	1142	60	RL	NaN	10304	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NWAmes
1142	1143	60	RL	77.0	9965	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1143	1144	20	RL	NaN	9000	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
1144	1145	190	RL	60.0	12180	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1145	1146	50	RM	52.0	6240	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
1146	1147	20	RL	NaN	11200	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
1147	1148	70	RL	75.0	12000	Pave	Reg	Bnk	AllPub	Inside	Gtl	Crawfor
1148	1149	50	RM	NaN	5700	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1149	1150	70	RM	50.0	9000	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1150	1151	20	RL	57.0	8280	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
1151	1152	20	RL	134.0	17755	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1152	1153	20	RL	90.0	14115	Pave	IR1	Lvl	AllPub	Inside	Gtl	Crawfor
1153	1154	30	RM	NaN	5890	Pave	Reg	Lvl	AllPub	Corner	Gtl	IDOTRR
1154	1155	60	RL	NaN	13700	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
1155	1156	20	RL	90.0	10768	Pave	IR1	Lvl	AllPub	Corner	Gtl	Veenker
1156	1157	80	RL	85.0	9350	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1157	1158	120	RL	34.0	5001	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
1158	1159	20	RL	92.0	11932	Pave	Reg	Lvl	AllPub	FR2	Gtl	Somerst
1159	1160	60	RL	76.0	9120	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1160	1161	160	RL	24.0	2280	Pave	Reg	Lvl	AllPub	Inside	Gtl	NPkVill
1161	1162	20	RL	NaN	14778	Pave	IR1	Low	AllPub	CulDSac	Gtl	Crawfor
1162	1163	20	RL	109.0	8724	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
1163	1164	90	RL	60.0	12900	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
1164	1165	80	RL	NaN	16157	Pave	IR1	Lvl	AllPub	FR2	Gtl	Veenker
1165	1166	20	RL	79.0	9541	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
1166	1167	20	RL	64.0	10475	Pave	IR1	Lvl	AllPub	Corner	Gtl	CollgCr
1167	1168	60	RL	58.0	10852	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
1168	1169	70	RL	120.0	13728	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards
1169	1170	60	RL	118.0	35760	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NoRidge
1170	1171	80	RL	76.0	9880	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
1171	1172	20	RL	76.0	9120	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1172	1173	160	FV	35.0	4017	Pave	IR1	Lvl	AllPub	Inside	Gtl	Somerst
1173	1174	50	RL	138.0	18030	Pave	IR1	Bnk	AllPub	Inside	Gtl	ClearCr
1174	1175	70	RL	80.0	16560	Pave	IR1	Lvl	AllPub	Inside	Gtl	Crawfor
1175	1176	50	RL	85.0	10678	Pave	Reg	Lvl	AllPub	Inside	Gtl	NoRidge
1176	1177	20	RL	37.0	6951	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Mitchel
1177	1178	50	RM	NaN	3950	Pave	Reg	Bnk	AllPub	Inside	Gtl	OldTown
1178	1179	50	RL	54.0	7681	Pave	IR1	Lvl	AllPub	FR2	Gtl	Crawfor
1179	1180	20	RL	77.0	8335	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards
1180	1181	60	RL	NaN	11170	Pave	IR2	Lvl	AllPub	Corner	Gtl	Timber
1181	1182	120	RM	64.0	5587	Pave	IR1	HLS	AllPub	Inside	Mod	Crawfor
1182	1183	60	RL	160.0	15623	Pave	IR1	Lvl	AllPub	Corner	Gtl	NoRidge
1183	1184	30	RL	60.0	10800	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown

1184	1185	20	RL	50.0	35133	Grvl	Reg	Lvl	AllPub	Inside	Mod	Timber
1185	1186	50	RL	60.0	9738	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1186	1187	190	RL	107.0	10615	Pave	IR1	Bnk	AllPub	Corner	Mod	OldTown
1187	1188	20	RL	89.0	12461	Pave	Reg	Lvl	AllPub	Corner	Gtl	NoRidge
1188	1189	60	RL	68.0	8935	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
1189	1190	60	RL	60.0	7500	Pave	Reg	Lvl	AllPub	Inside	Gtl	Gilbert
1190	1191	190	RL	NaN	32463	Pave	Reg	Low	AllPub	Inside	Mod	Mitchel
1191	1192	160	FV	24.0	2645	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1192	1193	50	RM	60.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1193	1194	120	RM	NaN	4500	Pave	Reg	Lvl	AllPub	FR2	Gtl	Mitchel
1194	1195	60	RL	80.0	9364	Pave	Reg	Lvl	AllPub	Corner	Gtl	Sawyer
1195	1196	60	RL	51.0	8029	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
1196	1197	60	RL	58.0	14054	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
1197	1198	75	RM	65.0	8850	Pave	IR1	Bnk	AllPub	Corner	Gtl	OldTown
1198	1199	20	RL	70.0	9100	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1199	1200	20	RL	75.0	11235	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
1200	1201	20	RL	71.0	9353	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1201	1202	60	RL	80.0	10400	Pave	Reg	Lvl	AllPub	Corner	Gtl	CollgCr
1202	1203	50	RM	50.0	6000	Pave	Reg	Lvl	AllPub	Corner	Gtl	BrkSide
1203	1204	20	RL	75.0	9750	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1204	1205	20	RL	78.0	10140	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1205	1206	20	RL	90.0	14684	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	SawyerW
1206	1207	20	RH	NaN	8900	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
1207	1208	20	RL	70.0	9135	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1208	1209	20	RL	70.0	7763	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1209	1210	20	RL	85.0	10182	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Somerst
1210	1211	60	RL	70.0	11218	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
1211	1212	50	RL	152.0	12134	Pave	IR1	Bnk	AllPub	Inside	Mod	Gilbert
1212	1213	30	RL	50.0	9340	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1213	1214	80	RL	NaN	10246	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Sawyer
1214	1215	85	RL	69.0	10205	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
1215	1216	20	RL	99.0	7094	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
1216	1217	90	RM	68.0	8930	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
1217	1218	20	FV	72.0	8640	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1218	1219	50	RM	52.0	6240	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
1219	1220	160	RM	21.0	1680	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
1220	1221	20	RL	66.0	7800	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
1221	1222	20	RL	55.0	8250	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
1222	1223	50	RL	78.0	10496	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1223	1224	20	RL	89.0	10680	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1224	1225	60	RL	60.0	15384	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
1225	1226	80	RL	65.0	10482	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1226	1227	60	RL	86.0	14598	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Somerst
1227	1228	20	RL	72.0	8872	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
1228	1229	120	RL	65.0	8769	Pave	Reg	Lvl	AllPub	Corner	Gtl	NridgHt
1229	1230	80	RL	70.0	7910	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1230	1231	90	RL	NaN	18890	Pave	IR1	Lvl	AllPub	Inside	Gtl	Sawyer
1231	1232	90	RL	70.0	7728	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1232	1233	90	RL	70.0	9842	Pave	Reg	Lvl	AllPub	FR2	Gtl	NAmes
1233	1234	20	RL	NaN	12160	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
1234	1235	70	RH	55.0	8525	Pave	Reg	Bnk	AllPub	Inside	Gtl	SWISU
1235	1236	70	RL	96.0	13132	Pave	Reg	Lvl	AllPub	Inside	Gtl	Crawfor
1236	1237	160	RL	36.0	2628	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
1237	1238	60	RL	41.0	12393	Pave	IR2	Lvl	AllPub	FR2	Gtl	CollgCr
1238	1239	20	RL	63.0	13072	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW

1239	1240	20	RL	64.0	9037	Pave	IR1	HLS	AllPub	Inside	Gtl	Timber
1240	1241	60	RL	65.0	8158	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1241	1242	20	RL	83.0	9849	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1242	1243	85	RL	85.0	10625	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1243	1244	20	RL	107.0	13891	Pave	Reg	Lvl	AllPub	Inside	Gtl	NridgHt
1244	1245	70	RL	NaN	11435	Pave	IR1	HLS	AllPub	Corner	Mod	Crawfor
1245	1246	80	RL	78.0	12090	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1246	1247	60	FV	65.0	8125	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1247	1248	80	RL	NaN	12328	Pave	IR1	Lvl	AllPub	Inside	Gtl	Mitchel
1248	1249	75	RM	60.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1249	1250	20	RL	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1250	1251	20	RL	93.0	11160	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
1251	1252	120	RL	NaN	3136	Pave	IR1	Lvl	AllPub	Corner	Gtl	NridgHt
1252	1253	20	RL	62.0	9858	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
1253	1254	60	RL	NaN	17542	Pave	IR1	Lvl	AllPub	Inside	Gtl	Veenker
1254	1255	60	RL	60.0	6931	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1255	1256	50	RM	52.0	6240	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
1256	1257	20	RL	91.0	14303	Pave	IR1	Lvl	AllPub	Corner	Gtl	NoRidge
1257	1258	30	RL	56.0	4060	Pave	Reg	Lvl	AllPub	Corner	Gtl	Edwards
1258	1259	80	RL	59.0	9587	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
1259	1260	20	RL	65.0	9750	Pave	Reg	Lvl	AllPub	FR2	Gtl	NAmes
1260	1261	60	RL	NaN	24682	Pave	IR3	Lvl	AllPub	CulDSac	Gtl	Gilbert
1261	1262	20	RL	80.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1262	1263	50	RL	NaN	11250	Pave	Reg	Lvl	AllPub	Inside	Gtl	ClearCr
1263	1264	70	RL	60.0	13515	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
1264	1265	120	RH	34.0	4060	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1265	1266	160	FV	35.0	3735	Pave	Reg	Lvl	AllPub	FR3	Gtl	Somerst
1266	1267	190	RM	60.0	10120	Pave	IR1	Bnk	AllPub	Inside	Gtl	OldTown
1267	1268	20	RL	89.0	13214	Pave	IR1	HLS	AllPub	Inside	Gtl	Timber
1268	1269	50	RL	NaN	14100	Pave	IR1	Lvl	AllPub	Inside	Mod	Crawfor
1269	1270	50	RL	78.0	11344	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1270	1271	40	RL	NaN	23595	Pave	Reg	Low	AllPub	Inside	Sev	ClearCr
1271	1272	20	RL	NaN	9156	Pave	IR1	Lvl	AllPub	Inside	Gtl	NWAmes
1272	1273	20	RL	NaN	13526	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Sawyer
1273	1274	80	RL	124.0	11512	Pave	IR1	Lvl	AllPub	Corner	Gtl	Edwards
1274	1275	50	RL	53.0	5362	Pave	Reg	Lvl	AllPub	Corner	Gtl	Crawfor
1275	1276	90	RL	95.0	11345	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
1276	1277	60	RL	NaN	12936	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NWAmes
1277	1278	80	RL	NaN	17871	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NWAmes
1278	1279	60	RL	75.0	9473	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1279	1280	50	C (all)	60.0	7500	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
1280	1281	20	RL	67.0	9808	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
1281	1282	20	RL	50.0	8049	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Timber
1282	1283	20	RL	61.0	8800	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
1283	1284	90	RL	94.0	9400	Pave	Reg	Low	AllPub	Corner	Gtl	Mitchel
1284	1285	50	RL	50.0	9638	Pave	Reg	Lvl	AllPub	Inside	Gtl	SWISU
1285	1286	50	RM	50.0	6000	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
1286	1287	20	RL	NaN	9790	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1287	1288	20	RL	NaN	36500	Pave	IR1	Low	AllPub	Inside	Mod	ClearCr
1288	1289	120	RL	40.0	5664	Pave	IR1	Lvl	AllPub	Inside	Gtl	StoneBr
1289	1290	60	RL	86.0	11065	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
1290	1291	80	RL	NaN	14112	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
1291	1292	160	RM	21.0	1680	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
1292	1293	70	RM	60.0	6600	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
1293	1294	60	RL	78.0	10140	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes

1294	1295	20	RL	60.0	8172	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1295	1296	20	RL	70.0	8400	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1296	1297	20	RL	80.0	8700	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1297	1298	180	RM	35.0	3675	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1298	1299	60	RL	313.0	63887	Pave	IR3	Bnk	AllPub	Corner	Gtl	Edwards
1299	1300	20	RL	75.0	7500	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1300	1301	60	RL	NaN	10762	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Gilbert
1301	1302	70	RL	NaN	7500	Pave	IR1	Bnk	AllPub	Inside	Gtl	Crawfor
1302	1303	60	RL	92.0	10120	Pave	Reg	Lvl	AllPub	Inside	Gtl	NoRidge
1303	1304	20	RL	73.0	8688	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1304	1305	160	RM	32.0	3363	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1305	1306	20	RL	108.0	13173	Pave	IR1	Lvl	AllPub	Corner	Gtl	NridgHt
1306	1307	120	RL	48.0	6955	Pave	IR1	Lvl	AllPub	Inside	Gtl	NridgHt
1307	1308	20	RL	60.0	8072	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1308	1309	20	RM	100.0	12000	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1309	1310	20	RL	NaN	7153	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
1310	1311	20	RL	100.0	17500	Pave	Reg	Lvl	AllPub	Inside	Gtl	Crawfor
1311	1312	20	RL	68.0	8814	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1312	1313	60	RL	NaN	9572	Pave	IR1	Lvl	AllPub	Inside	Gtl	NoRidge
1313	1314	60	RL	108.0	14774	Pave	IR1	Lvl	AllPub	Corner	Gtl	NoRidge
1314	1315	20	RL	60.0	8190	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1315	1316	60	RL	85.0	11075	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1316	1317	20	RL	61.0	10226	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
1317	1318	120	FV	47.0	4230	Pave	Reg	Lvl	AllPub	Corner	Gtl	Somerst
1318	1319	20	RL	NaN	14781	Pave	IR2	Lvl	AllPub	CulDSac	Gtl	CollgCr
1319	1320	20	RL	75.0	10215	Pave	Reg	Bnk	AllPub	Inside	Gtl	Edwards
1320	1321	20	RL	70.0	8400	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1321	1322	20	RL	NaN	6627	Pave	IR1	Lvl	AllPub	Corner	Gtl	BrkSide
1322	1323	60	RL	107.0	10186	Pave	IR1	Lvl	AllPub	Inside	Gtl	NoRidge
1323	1324	30	RL	50.0	5330	Pave	Reg	HLS	AllPub	Inside	Gtl	BrkSide
1324	1325	20	RL	75.0	9986	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1325	1326	30	RM	40.0	3636	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
1326	1327	30	RH	70.0	4270	Pave	Reg	Bnk	AllPub	Inside	Mod	Edwards
1327	1328	20	RL	60.0	6600	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
1328	1329	50	RM	60.0	10440	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
1329	1330	60	RL	63.0	9084	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
1330	1331	20	RL	85.0	10000	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1331	1332	80	RL	55.0	10780	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
1332	1333	20	RL	67.0	8877	Pave	Reg	Lvl	AllPub	Inside	Mod	Edwards
1333	1334	50	RM	60.0	7200	Pave	Reg	Lvl	AllPub	Corner	Gtl	IDOTRR
1334	1335	160	RM	24.0	2368	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
1335	1336	20	RL	80.0	9650	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1336	1337	90	RL	87.0	9246	Pave	IR1	Lvl	AllPub	Inside	Gtl	NWAmes
1337	1338	30	RM	153.0	4118	Pave	IR1	Bnk	AllPub	Corner	Mod	OldTown
1338	1339	60	RL	95.0	13450	Pave	IR1	Lvl	AllPub	Corner	Gtl	CollgCr
1339	1340	20	RL	120.0	9560	Pave	IR1	Lvl	AllPub	Corner	Gtl	CollgCr
1340	1341	20	RL	70.0	8294	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1341	1342	20	RL	66.0	13695	Pave	Reg	Lvl	AllPub	Inside	Gtl	SawyerW
1342	1343	60	RL	NaN	9375	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1343	1344	50	RL	57.0	7558	Pave	Reg	Bnk	AllPub	Inside	Gtl	Crawfor
1344	1345	60	RL	85.0	11103	Pave	IR1	Lvl	AllPub	Corner	Gtl	CollgCr
1345	1346	30	RM	50.0	6000	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1346	1347	20	RL	NaN	20781	Pave	IR2	Lvl	AllPub	CulDSac	Gtl	NWAmes
1347	1348	20	RL	93.0	15306	Pave	IR1	HLS	AllPub	Corner	Gtl	Timber

1348	1349	20	RL	NaN	16196	Pave	IR3	Low	AllPub	Inside	Gtl	SawyerW
1349	1350	70	RM	50.0	5250	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1350	1351	90	RL	91.0	11643	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1351	1352	60	RL	70.0	9247	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
1352	1353	50	RM	50.0	6000	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
1353	1354	50	RL	56.0	14720	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NoRidge
1354	1355	60	RL	NaN	10316	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
1355	1356	80	RL	102.0	10192	Pave	IR1	Lvl	AllPub	Inside	Gtl	NWAmes
1356	1357	20	RL	NaN	9477	Pave	Reg	Lvl	AllPub	Corner	Gtl	NAmes
1357	1358	20	RL	NaN	12537	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NAmes
1358	1359	160	FV	NaN	2117	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1359	1360	20	RL	129.0	16737	Pave	Reg	Lvl	AllPub	FR3	Gtl	NridgHt
1360	1361	70	RL	51.0	9842	Pave	Reg	Lvl	AllPub	Inside	Gtl	SWISU
1361	1362	20	RL	124.0	16158	Pave	IR1	Low	AllPub	Inside	Mod	StoneBr
1362	1363	50	RL	NaN	12513	Pave	IR1	Lvl	AllPub	FR2	Gtl	NAmes
1363	1364	60	RL	73.0	8499	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
1364	1365	160	FV	30.0	3180	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1365	1366	60	FV	NaN	7500	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1366	1367	60	RL	68.0	9179	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr
1367	1368	160	RM	41.0	2665	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
1368	1369	120	RM	NaN	4435	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1369	1370	20	RL	48.0	10635	Pave	IR2	Lvl	AllPub	FR2	Gtl	CollgCr
1370	1371	50	RL	90.0	5400	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
1371	1372	80	RL	80.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1372	1373	60	RL	75.0	9750	Pave	Reg	Lvl	AllPub	Corner	Gtl	CollgCr
1373	1374	20	RL	NaN	11400	Pave	Reg	Lvl	AllPub	Inside	Gtl	NoRidge
1374	1375	60	FV	85.0	10625	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1375	1376	20	RL	89.0	10991	Pave	IR1	HLS	AllPub	Inside	Gtl	Timber
1376	1377	30	RL	52.0	6292	Pave	Reg	Bnk	AllPub	Inside	Gtl	SWISU
1377	1378	50	RL	60.0	10998	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1378	1379	160	RM	21.0	1953	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrDale
1379	1380	80	RL	73.0	9735	Pave	Reg	Lvl	AllPub	Inside	Gtl	Timber
1380	1381	30	RL	45.0	8212	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1381	1382	20	RL	NaN	12925	Pave	IR1	Lvl	AllPub	Corner	Gtl	NAmes
1382	1383	70	RM	60.0	7200	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
1383	1384	30	RL	NaN	25339	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
1384	1385	50	RL	60.0	9060	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1385	1386	50	RM	40.0	5436	Pave	Reg	Lvl	AllPub	Inside	Gtl	IDOTRR
1386	1387	60	RL	80.0	16692	Pave	IR1	Lvl	AllPub	Inside	Gtl	NWAmes
1387	1388	50	RM	60.0	8520	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1388	1389	20	RL	42.0	14892	Pave	IR1	HLS	AllPub	CulDSac	Gtl	Gilbert
1389	1390	50	RM	60.0	6000	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
1390	1391	20	RL	70.0	9100	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1391	1392	90	RL	65.0	8944	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1392	1393	85	RL	68.0	7838	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1393	1394	190	RM	60.0	10800	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1394	1395	120	RL	53.0	4045	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
1395	1396	60	RL	88.0	12665	Pave	IR1	Lvl	AllPub	Inside	Gtl	Timber
1396	1397	20	RL	NaN	57200	Pave	IR1	Bnk	AllPub	Inside	Sev	Timber
1397	1398	70	RM	51.0	6120	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
1398	1399	50	RL	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1399	1400	50	RL	51.0	6171	Pave	Reg	Lvl	AllPub	Inside	Gtl	SWISU
1400	1401	50	RM	50.0	6000	Pave	Reg	Lvl	AllPub	Corner	Gtl	BrkSide
1401	1402	60	RL	62.0	7415	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
1402	1403	20	RL	64.0	6762	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr

1403	1404	20	RL	49.0	15256	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Somerst
1404	1405	50	RL	60.0	10410	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
1405	1406	120	RM	44.0	3842	Pave	IR1	HLS	AllPub	Inside	Mod	Crawfor
1406	1407	85	RL	70.0	8445	Pave	Reg	Lvl	AllPub	Corner	Gtl	CollgCr
1407	1408	20	RL	NaN	8780	Pave	IR1	Lvl	AllPub	Corner	Gtl	Mitchel
1408	1409	70	RM	60.0	7740	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1409	1410	60	RL	46.0	20544	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	NWAmes
1410	1411	60	RL	79.0	12420	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1411	1412	50	RL	80.0	9600	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1412	1413	90	RL	60.0	7200	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1413	1414	20	RL	88.0	10994	Pave	IR1	Lvl	AllPub	Corner	Gtl	SawyerW
1414	1415	50	RL	64.0	13053	Pave	Reg	Bnk	AllPub	Inside	Gtl	BrkSide
1415	1416	120	RL	51.0	3635	Pave	Reg	Lvl	AllPub	Inside	Gtl	Blmngtn
1416	1417	190	RM	60.0	11340	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1417	1418	60	RL	NaN	16545	Pave	IR1	Lvl	AllPub	Inside	Gtl	NoRidge
1418	1419	20	RL	71.0	9204	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1419	1420	20	RL	NaN	16381	Pave	IR1	Lvl	AllPub	Inside	Gtl	Crawfor
1420	1421	60	RL	90.0	11700	Pave	Reg	Lvl	AllPub	Corner	Gtl	NWAmes
1421	1422	120	RL	53.0	4043	Pave	Reg	Lvl	AllPub	Inside	Gtl	NPkVill
1422	1423	120	RM	37.0	4435	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1423	1424	80	RL	NaN	19690	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Edwards
1424	1425	20	RL	NaN	9503	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1425	1426	20	RL	80.0	10721	Pave	IR1	Lvl	AllPub	Inside	Gtl	NAmes
1426	1427	60	RL	81.0	10944	Pave	IR1	Lvl	AllPub	Inside	Gtl	NoRidge
1427	1428	50	RL	60.0	10930	Pave	Reg	Bnk	AllPub	Inside	Gtl	NAmes
1428	1429	30	RM	60.0	7200	Pave	Reg	Lvl	AllPub	Corner	Gtl	OldTown
1429	1430	20	RL	NaN	12546	Pave	IR1	Lvl	AllPub	Corner	Gtl	NWAmes
1430	1431	60	RL	60.0	21930	Pave	IR3	Lvl	AllPub	Inside	Gtl	Gilbert
1431	1432	120	RL	NaN	4928	Pave	IR1	Lvl	AllPub	Inside	Gtl	NPkVill
1432	1433	30	RL	60.0	10800	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1433	1434	60	RL	93.0	10261	Pave	IR1	Lvl	AllPub	Inside	Gtl	Gilbert
1434	1435	20	RL	80.0	17400	Pave	Reg	Low	AllPub	Inside	Mod	Mitchel
1435	1436	20	RL	80.0	8400	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1436	1437	20	RL	60.0	9000	Pave	Reg	Lvl	AllPub	FR2	Gtl	NAmes
1437	1438	20	RL	96.0	12444	Pave	Reg	Lvl	AllPub	FR2	Gtl	NridgHt
1438	1439	20	RM	90.0	7407	Pave	Reg	Lvl	AllPub	Inside	Gtl	OldTown
1439	1440	60	RL	80.0	11584	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1440	1441	70	RL	79.0	11526	Pave	IR1	Bnk	AllPub	Inside	Mod	Crawfor
1441	1442	120	RM	NaN	4426	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1442	1443	60	FV	85.0	11003	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1443	1444	30	RL	NaN	8854	Pave	Reg	Lvl	AllPub	Inside	Gtl	BrkSide
1444	1445	20	RL	63.0	8500	Pave	Reg	Lvl	AllPub	FR2	Gtl	CollgCr
1445	1446	85	RL	70.0	8400	Pave	Reg	Lvl	AllPub	Inside	Gtl	Sawyer
1446	1447	20	RL	NaN	26142	Pave	IR1	Lvl	AllPub	CulDSac	Gtl	Mitchel
1447	1448	60	RL	80.0	10000	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr
1448	1449	50	RL	70.0	11767	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1449	1450	180	RM	21.0	1533	Pave	Reg	Lvl	AllPub	Inside	Gtl	MeadowV
1450	1451	90	RL	60.0	9000	Pave	Reg	Lvl	AllPub	FR2	Gtl	NAmes
1451	1452	20	RL	78.0	9262	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1452	1453	180	RM	35.0	3675	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards
1453	1454	20	RL	90.0	17217	Pave	Reg	Lvl	AllPub	Inside	Gtl	Mitchel
1454	1455	20	FV	62.0	7500	Pave	Reg	Lvl	AllPub	Inside	Gtl	Somerst
1455	1456	60	RL	62.0	7917	Pave	Reg	Lvl	AllPub	Inside	Gtl	Gilbert
1456	1457	20	RL	85.0	13175	Pave	Reg	Lvl	AllPub	Inside	Gtl	NWAmes
1457	1458	70	RL	66.0	9042	Pave	Reg	Lvl	AllPub	Inside	Gtl	Crawfor

1458	1459	20	RL	68.0	9717	Pave	Reg	Lvl	AllPub	Inside	Gtl	NAmes
1459	1460	20	RL	75.0	9937	Pave	Reg	Lvl	AllPub	Inside	Gtl	Edwards

In [27]:
```
data.isnull().sum()
```

Out[27]:
```
Id                 0
MSSubClass         0
MSZoning           0
LotFrontage      259
LotArea            0
Street             0
LotShape           0
LandContour        0
Utilities          0
LotConfig          0
LandSlope          0
Neighborhood       0
Condition1         0
Condition2         0
BldgType           0
HouseStyle         0
OverallQual        0
OverallCond        0
YearBuilt          0
YearRemodAdd       0
RoofStyle          0
RoofMatl           0
Exterior1st        0
Exterior2nd        0
MasVnrType         8
MasVnrArea         8
ExterQual          0
ExterCond          0
Foundation         0
BsmtQual          37
BsmtCond          37
BsmtExposure      38
BsmtFinType1      37
BsmtFinSF1         0
BsmtFinType2      38
BsmtFinSF2         0
BsmtUnfSF          0
TotalBsmtSF        0
Heating            0
HeatingQC          0
CentralAir         0
Electrical         1
fristFlrSF         0
secondFlrSF        0
LowQualFinSF       0
GrLivArea          0
BsmtFullBath       0
BsmtHalfBath       0
FullBath           0
HalfBath           0
BedroomAbvGr       0
KitchenAbvGr       0
KitchenQual        0
TotRmsAbvGrd       0
Functional         0
Fireplaces         0
FireplaceQu      690
GarageType        81
GarageYrBlt       81
GarageFinish      81
GarageCars         0
GarageArea         0
GarageQual        81
GarageCond        81
PavedDrive         0
WoodDeckSF         0
OpenPorchSF        0
EnclosedPorch      0
3SsnPorch          0
ScreenPorch        0
PoolArea           0
MiscVal            0
MoSold             0
YrSold             0
SaleType           0
SaleCondition      0
SalePrice          0
dtype: int64
```

In [28]:
```
data.shape
```

Out[28]: (1460, 77)

In [29]:
```
data['LotFrontage'].fillna(data['LotFrontage'].median(),inplace=True)
```

In [30]:
```
data.BsmtQual.mode()
```

Out[30]:
```
0    TA
Name: BsmtQual, dtype: object
```

In [31]:
```
data.BsmtQual.fillna('TA',inplace=True)
```

In [32]:
```
data.BsmtCond.mode()
```

Out[32]:
```
0    TA
Name: BsmtCond, dtype: object
```

In [33]:
```
data.BsmtCond.fillna('TA',inplace=True)
```

In [34]:
```
data.BsmtExposure.mode()
```

Out[34]:
```
0    No
Name: BsmtExposure, dtype: object
```

In [35]:
```
data.BsmtExposure.fillna('No',inplace=True)
```

In [36]:
```
data.BsmtFinType1.mode()
```

Out[36]:
```
0    Unf
Name: BsmtFinType1, dtype: object
```

In [37]:
```
data.BsmtFinType1.fillna('Unf',inplace=True)
```

In [38]:
```
data.BsmtFinType2.mode()
```

Out[38]:
```
0    Unf
Name: BsmtFinType2, dtype: object
```

In [39]:
```
data.BsmtFinType2.fillna('Unf',inplace=True)
```

In [40]:
```
data.Electrical.value_counts()
```

Out[40]:
```
SBrkr    1334
FuseA      94
FuseF      27
FuseP       3
Mix         1
Name: Electrical, dtype: int64
```

In [41]:
```
data.Electrical.mode()
```

Out[41]:
```
0    SBrkr
Name: Electrical, dtype: object
```

In [42]:
```
data.Electrical.fillna('SBrkr',inplace=True)
```

In [43]:
```
data.FireplaceQu.mode()
```

Out[43]:
```
0    Gd
Name: FireplaceQu, dtype: object
```

In [44]:
```
data.FireplaceQu.fillna('Gd',inplace=True)
```

In [45]:
```
data.GarageType.mode()
```

Out[45]:
```
0    Attchd
Name: GarageType, dtype: object
```

In [46]:
```
data.GarageType.fillna('Attchd',inplace=True)
```

In [47]:
```
data['GarageYrBlt'].fillna(data['GarageYrBlt'].median(),inplace=True)
```

In [48]:
```
data.GarageFinish.mode()
```

Out[48]:
```
0    Unf
Name: GarageFinish, dtype: object
```

In [49]:
```
data.GarageFinish.fillna('Unf',inplace=True)
```

In [50]:
```
data.GarageQual.mode()
```

Out[50]:
```
0    TA
Name: GarageQual, dtype: object
```

In [51]:
```
data.GarageQual.fillna('TA',inplace=True)
```

In [52]:
```
data.GarageCond.mode()
```

Out[52]:
```
0    TA
Name: GarageCond, dtype: object
```

In [53]:
```
data.GarageCond.fillna('TA',inplace=True)
```

In [54]:
```
data.MasVnrType.mode()
```

Out[54]:
```
0    None
Name: MasVnrType, dtype: object
```

In [55]:
```
data.MasVnrType.fillna('None',inplace=True)
```

In [56]:
```
data['MasVnrArea'].fillna(data['MasVnrArea'].median(),inplace=True)
```

In [57]:
```
data.isnull().sum()
```

Out[57]:

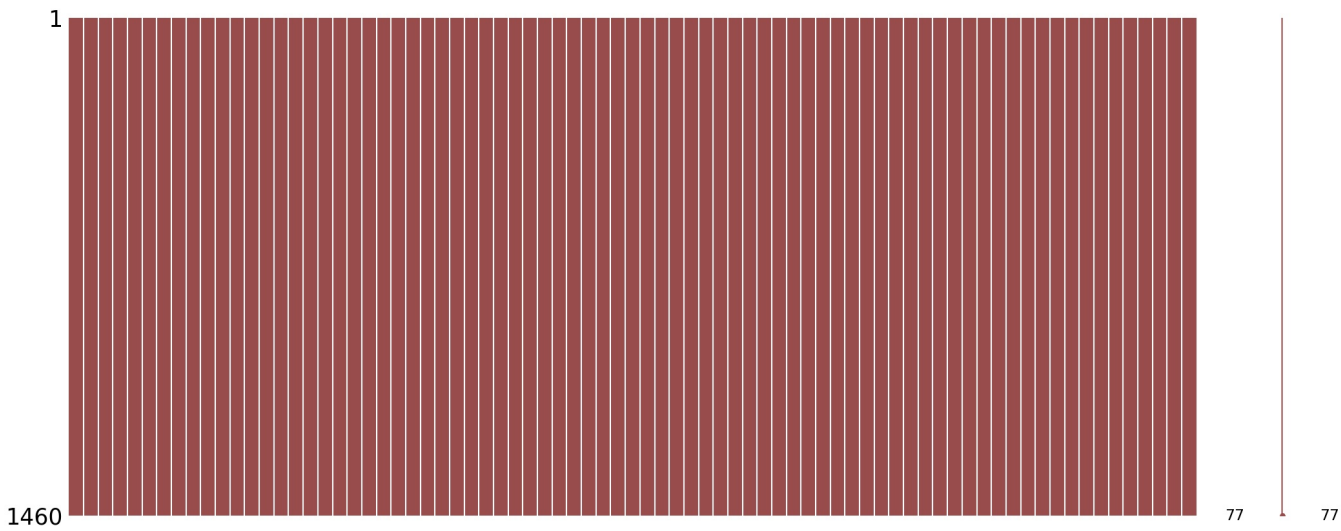
```
Id               0
MSSubClass       0
MSZoning         0
LotFrontage      0
LotArea          0
Street           0
LotShape         0
LandContour      0
Utilities        0
LotConfig        0
LandSlope        0
Neighborhood     0
Condition1       0
Condition2       0
BldgType         0
HouseStyle       0
OverallQual      0
OverallCond      0
YearBuilt        0
YearRemodAdd     0
RoofStyle        0
RoofMatl         0
Exterior1st      0
Exterior2nd      0
MasVnrType       0
MasVnrArea       0
ExterQual        0
ExterCond        0
Foundation       0
BsmtQual         0
BsmtCond         0
BsmtExposure     0
BsmtFinType1     0
BsmtFinSF1       0
BsmtFinType2     0
BsmtFinSF2       0
BsmtUnfSF        0
TotalBsmtSF      0
Heating          0
HeatingQC        0
CentralAir       0
Electrical       0
fristFlrSF       0
secondFlrSF      0
LowQualFinSF     0
GrLivArea        0
BsmtFullBath     0
BsmtHalfBath     0
FullBath         0
HalfBath         0
BedroomAbvGr     0
KitchenAbvGr     0
KitchenQual      0
TotRmsAbvGrd     0
Functional       0
Fireplaces       0
FireplaceQu      0
GarageType       0
GarageYrBlt      0
GarageFinish     0
GarageCars       0
GarageArea       0
GarageQual       0
GarageCond       0
PavedDrive       0
WoodDeckSF       0
OpenPorchSF      0
EnclosedPorch    0
3SsnPorch        0
ScreenPorch      0
PoolArea         0
MiscVal          0
MoSold           0
YrSold           0
SaleType         0
SaleCondition    0
SalePrice        0
dtype: int64
```

In [58]:

```python
import missingno as msno
msno.matrix(data,color=(0.60,0.300,0.300),fontsize=20)
```

Out[58]:

```
<AxesSubplot:>
```



Given data set numarical null values are filled by median and catagorical null values are filled by mode.

Finally we remove null values in the dataset

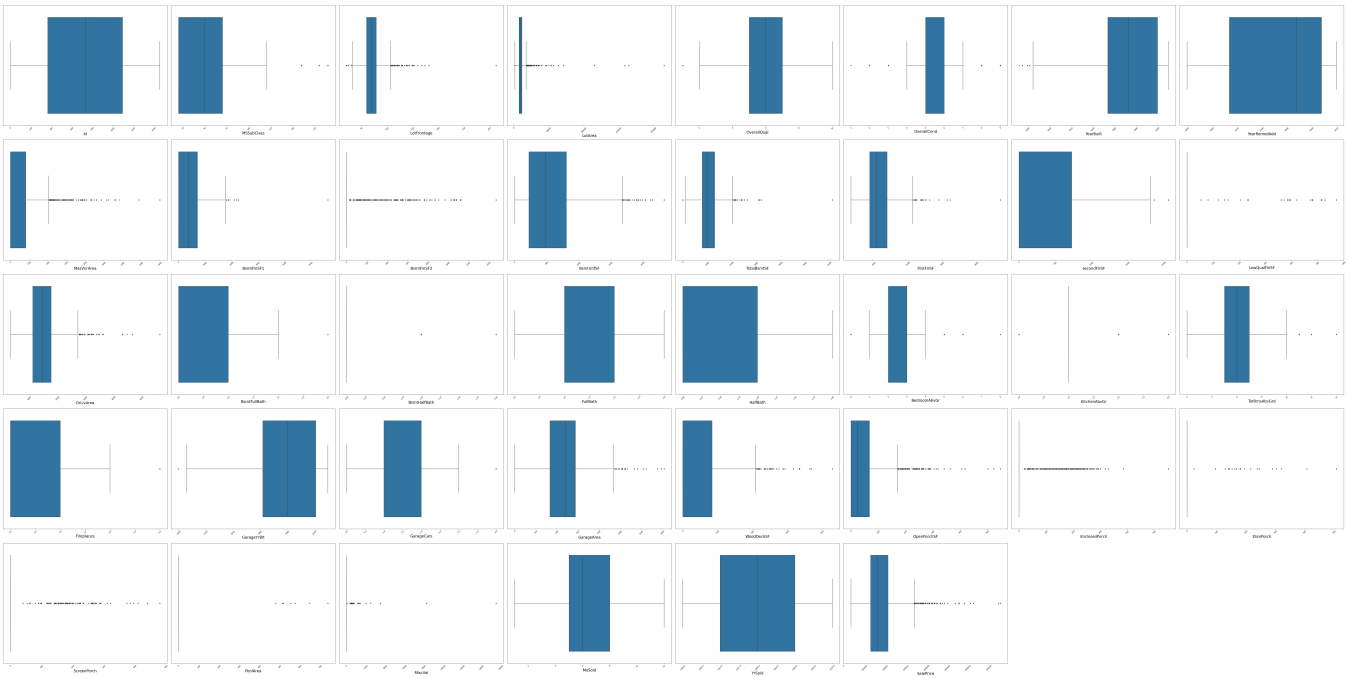
Removing Outliers

In [59]:
```
data.head()
```

Out[59]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborhood	Conditi
0	1	60	RL	65.0	8450	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr	N
1	2	20	RL	80.0	9600	Pave	Reg	Lvl	AllPub	FR2	Gtl	Veenker	Fe
2	3	60	RL	68.0	11250	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr	N
3	4	70	RL	60.0	9550	Pave	IR1	Lvl	AllPub	Corner	Gtl	Crawfor	N
4	5	60	RL	84.0	14260	Pave	IR1	Lvl	AllPub	FR2	Gtl	NoRidge	N

In [60]:
```
plt.figure(figsize=(100,50))
plotnumber=1
for i in data2:
    plt.subplot(5,8,plotnumber)
    sns.boxplot(x=data[i])
    plotnumber=plotnumber+1
    plt.xticks(rotation=45)
    plt.xlabel(i,fontsize=20)
plt.tight_layout()
```



Insights

- By using boxplot we find out the outliers Columns
- Columns are

```
1)MSSubClass
2)LotFrontage
3)LotArea
4)OverallCond
5)YearBuilt
6)MasVnrArea
7)BsmtFinSF1
8)BsmtUnfSF
9)TotalBsmtSF
10)fristFlrS
11)secondFlrSF
12)LowQualFinSF
13)GrLivArea
14)GarageArea
15)SalePrice
```

- The outliers are filling the median values

In [61]:
```
def find_boundaries(data,variables):
    Q1=data[variables].quantile(0.25)
    Q3=data[variables].quantile(0.75)
    IQR=Q3-Q1
    lowerboundary=Q1-1.5*IQR
    upperboundary=Q3+1.5*IQR
    return  lowerboundary,upperboundary
```

In [62]:
```
lower_MSSubClass,upper_MSSubClass=find_boundaries(data,'MSSubClass')
print('upper bondary for MSSubClass',upper_MSSubClass)
print('lower boundary for MSSubClass',lower_MSSubClass)
```

```
upper bondary for MSSubClass 145.0
lower boundary for MSSubClass -55.0
```

In [63]:
```
data.loc[data['MSSubClass']>145.0,'MSSubClass']=np.median(data.MSSubClass)
data.loc[data['MSSubClass']<-55.0,'MSSubClass']=np.median(data.MSSubClass)
```

In [64]:
```
lower_LotFrontage,upper_LotFrontage=find_boundaries(data,'LotFrontage')
print('upper bondary for LotFrontage',upper_LotFrontage)
print('lower boundary for LotFrontage',lower_LotFrontage)
```

```
upper bondary for LotFrontage 107.5
lower boundary for LotFrontage 31.5
```

In [65]:
```
data.loc[data['LotFrontage']>107.5,'LotFrontage']=np.median(data.LotFrontage)
data.loc[data['LotFrontage']<31.5,'LotFrontage']=np.median(data.LotFrontage)
```

In [66]:
```
lower_LotArea,upper_LotArea=find_boundaries(data,'LotArea')
print('upper bondary for LotArea',upper_LotArea)
print('lower boundary for LotArea',lower_LotArea)
```

```
upper bondary for LotArea 17673.5
lower boundary for LotArea 1481.5
```

In [67]:
```
data.loc[data['LotArea']>17673.5,'LotArea']=np.median(data.LotArea)
data.loc[data['LotArea']<1481.5,'LotArea']=np.median(data.LotArea)
```

In [68]:
```
lower_OverallCond,upper_OverallCond=find_boundaries(data,'OverallCond')
print('upper bondary for OverallCond',upper_OverallCond)
print('lower boundary for OverallCond',lower_OverallCond)
```

```
upper bondary for OverallCond 7.5
lower boundary for OverallCond 3.5
```

In [69]:
```
data.loc[data['OverallCond']>7.5,'OverallCond']=np.median(data.OverallCond)
data.loc[data['OverallCond']<3.5,'OverallCond']=np.median(data.OverallCond)
```

In [70]:
```
lower_YearBuilt,upper_YearBuilt=find_boundaries(data,'YearBuilt')
print('upper bondary for YearBuilt',upper_YearBuilt)
print('lower boundary for YearBuilt',lower_YearBuilt)
```

```
upper bondary for YearBuilt 2069.0
lower boundary for YearBuilt 1885.0
```

In [71]:
```
data.loc[data['YearBuilt']>2069.0,'YearBuilt']=np.median(data.YearBuilt)
data.loc[data['YearBuilt']<1885.0,'YearBuilt']=np.median(data.YearBuilt)
```

In [72]:
```
lower_MasVnrArea,upper_MasVnrArea=find_boundaries(data,'MasVnrArea')
print('upper bondary for MasVnrArea',upper_MasVnrArea)
print('lower boundary for MasVnrArea',lower_MasVnrArea)
```

```
upper bondary for MasVnrArea 410.625
lower boundary for MasVnrArea -246.375
```

In [73]:
```
data.loc[data['MasVnrArea']>410.625,'MasVnrArea']=np.median(data.MasVnrArea)
data.loc[data['MasVnrArea']<-246.375,'MasVnrArea']=np.median(data.MasVnrArea)
```

In [74]:
```
lower_BsmtFinSF1,upper_BsmtFinSF1=find_boundaries(data,'BsmtFinSF1')
print('upper bondary for BsmtFinSF1',upper_BsmtFinSF1)
print('lower boundary for BsmtFinSF1',lower_BsmtFinSF1)
```

```
upper bondary for BsmtFinSF1 1780.625
lower boundary for BsmtFinSF1 -1068.375
```

In [75]:
```
data.loc[data['BsmtFinSF1']>1780.625,'BsmtFinSF1']=np.median(data.BsmtFinSF1)
data.loc[data['BsmtFinSF1']<-1068.375,'BsmtFinSF1']=np.median(data.BsmtFinSF1)
```

lower_BsmtFinSF2,upper_BsmtFinSF2=find_boundaries(data,'BsmtFinSF2') print('upper bondary for BsmtFinSF2',upper_BsmtFinSF2) print('lower boundary for BsmtFinSF2',lower_BsmtFinSF2)data.loc[data['BsmtFinSF2']>1780.625,'BsmtFinSF2']=np.median(data.BsmtFinSF2) data.loc[data['BsmtFinSF2']<-1068.375,'BsmtFinSF2']=np.median(data.BsmtFinSF2)

In [76]:
```
lower_BsmtUnfSF,upper_BsmtUnfSF=find_boundaries(data,'BsmtUnfSF')
print('upper bondary for BsmtUnfSF',upper_BsmtUnfSF)
print('lower boundary for BsmtUnfSF',lower_BsmtUnfSF)
```

```
upper bondary for BsmtUnfSF 1685.5
lower boundary for BsmtUnfSF -654.5
```

In [77]:
```
data.loc[data['BsmtUnfSF']>1685.5,'BsmtUnfSF']=np.median(data.BsmtUnfSF)
data.loc[data['BsmtUnfSF']<-654.5,'BsmtUnfSF']=np.median(data.BsmtUnfSF)
```

In [78]:
```
lower_TotalBsmtSF,upper_TotalBsmtSF=find_boundaries(data,'TotalBsmtSF')
print('upper bondary for TotalBsmtSF',upper_TotalBsmtSF)
print('lower boundary for TotalBsmtSF',lower_TotalBsmtSF)
```

```
upper bondary for TotalBsmtSF 2052.0
lower boundary for TotalBsmtSF 42.0
```

In [79]:
```
data.loc[data['TotalBsmtSF']>2052.0,'TotalBsmtSF']=np.median(data.TotalBsmtSF)
data.loc[data['TotalBsmtSF']<42.0,'TotalBsmtSF']=np.median(data.TotalBsmtSF)
```

In [80]:
```
lower_fristFlrSF,upper_fristFlrSF=find_boundaries(data,'fristFlrSF')
print('upper bondary for fristFlrSF',upper_fristFlrSF)
print('lower boundary for fristFlrSF',lower_fristFlrSF)
```

```
upper bondary for fristFlrSF 2155.125
lower boundary for fristFlrSF 118.125
```

In [81]:
```
data.loc[data['fristFlrSF']>2155.125,'fristFlrSF']=np.median(data.fristFlrSF)
data.loc[data['fristFlrSF']<118.125,'fristFlrSF']=np.median(data.fristFlrSF)
```

In [82]:
```
lower_secondFlrSF,upper_secondFlrSF=find_boundaries(data,'secondFlrSF')
print('upper bondary for secondFlrSF',upper_secondFlrSF)
print('lower boundary for secondFlrSF',lower_secondFlrSF)
```

```
upper bondary for secondFlrSF 1820.0
lower boundary for secondFlrSF -1092.0
```

In [83]:
```
data.loc[data['secondFlrSF']>1820.0,'secondFlrSF']=np.median(data.secondFlrSF)
data.loc[data['secondFlrSF']<-1092.0,'secondFlrSF']=np.median(data.secondFlrSF)
```

lower_LowQualFinSF,upper_LowQualFinSF=find_boundaries(data,'LowQualFinSF') print('upper bondary for LowQualFinSF',upper_LowQualFinSF) print('lower boundary for LowQualFinSF',lower_LowQualFinSF)data.loc[data['LowQualFinSF']>1820.0,'LowQualFinSF']=np.median(data.LowQualFinSF) data.loc[data['LowQualFinSF']<-1092.0,'LowQualFinSF']=np.median(data.LowQualFinSF)

In [84]:
```
lower_GrLivArea,upper_GrLivArea=find_boundaries(data,'GrLivArea')
print('upper bondary for GrLivArea',upper_GrLivArea)
print('lower boundary for GrLivArea',lower_GrLivArea)
```

```
upper bondary for GrLivArea 2747.625
lower boundary for GrLivArea 158.625
```

In [85]:
```
data.loc[data['GrLivArea']>2747.625,'GrLivArea']=np.median(data.GrLivArea)
data.loc[data['GrLivArea']<158.625,'GrLivArea']=np.median(data.GrLivArea)
```

In [86]:
```
lower_GarageArea,upper_GarageArea=find_boundaries(data,'GarageArea')
print('upper bondary for GarageArea',upper_GarageArea)
print('lower boundary for GarageArea',lower_GarageArea)
```

```
upper bondary for GarageArea 938.25
lower boundary for GarageArea -27.75
```

In [87]:
```
data.loc[data['GarageArea']>938.25,'GarageArea']=np.median(data.GarageArea)
data.loc[data['GarageArea']<-27.75,'GarageArea']=np.median(data.GarageArea)
```

In [88]:
```
lower_WoodDeckSF,upper_WoodDeckSF=find_boundaries(data,'WoodDeckSF')
print('upper bondary for WoodDeckSF',upper_WoodDeckSF)
print('lower boundary for WoodDeckSF',lower_WoodDeckSF)
```

```
upper bondary for WoodDeckSF 420.0
lower boundary for WoodDeckSF -252.0
```

In [89]:
```
data.loc[data['WoodDeckSF']>420.0,'WoodDeckSF']=np.median(data.WoodDeckSF)
data.loc[data['WoodDeckSF']<-252.0,'WoodDeckSF']=np.median(data.WoodDeckSF)
```

In [90]:
```
lower_OpenPorchSF,upper_OpenPorchSF=find_boundaries(data,'OpenPorchSF')
print('upper bondary for OpenPorchSF',upper_OpenPorchSF)
print('lower boundary for OpenPorchSF',lower_OpenPorchSF)
```

```
upper bondary for OpenPorchSF 170.0
lower boundary for OpenPorchSF -102.0
```

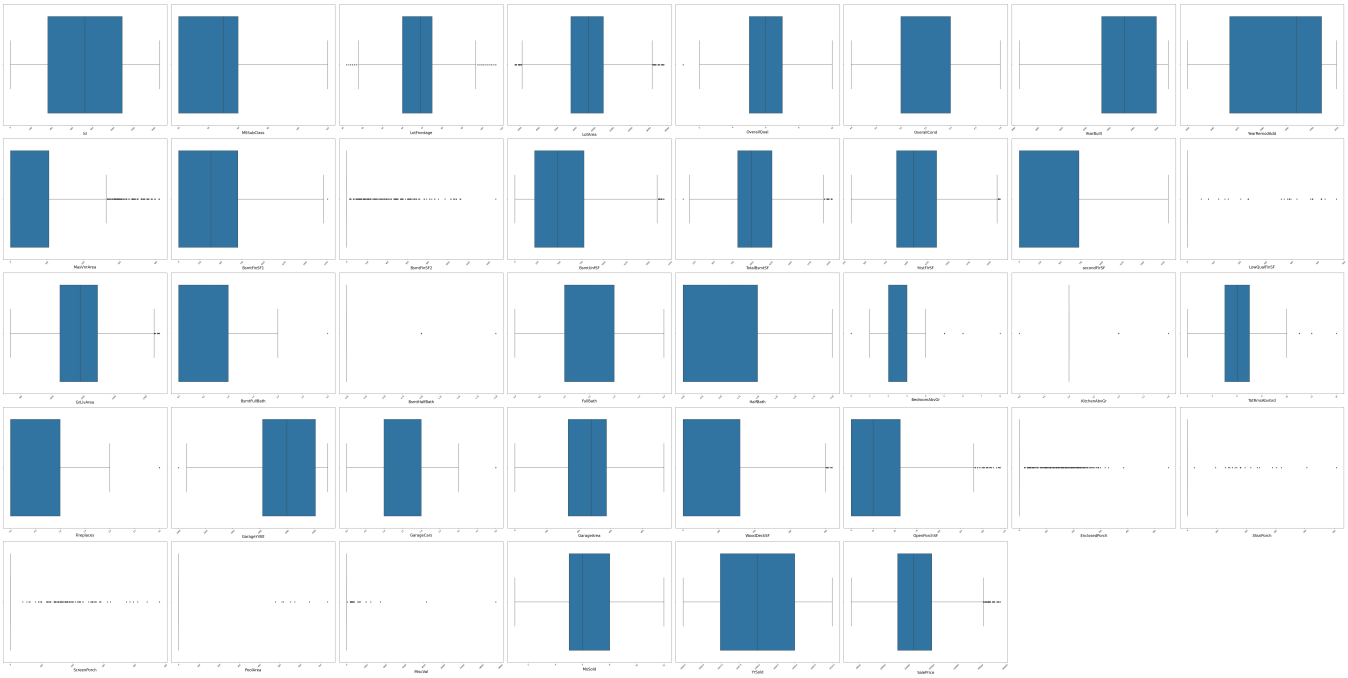
In [91]:
```
data.loc[data['OpenPorchSF']>170.0,'OpenPorchSF']=np.median(data.OpenPorchSF)
data.loc[data['OpenPorchSF']<-102.0,'OpenPorchSF']=np.median(data.OpenPorchSF)
```

In [92]:
```
lower_SalePrice,upper_SalePrice=find_boundaries(data,'SalePrice')
print('upper bondary for SalePrice',upper_SalePrice)
print('lower boundary for SalePrice',lower_SalePrice)
```

```
upper bondary for SalePrice 340037.5
lower boundary for SalePrice 3937.5
```

In [93]:
```
data.loc[data['SalePrice']>340037.5,'SalePrice']=np.median(data.SalePrice)
data.loc[data['SalePrice']<3937.5,'SalePrice']=np.median(data.SalePrice)
```

In [94]:
```
plt.figure(figsize=(100,50))
plotnumber=1
for i in data2:
    plt.subplot(5,8,plotnumber)
    sns.boxplot(x=data[i])
    plotnumber=plotnumber+1
    plt.xticks(rotation=45)
    plt.xlabel(i,fontsize=20)
plt.tight_layout()
```



Insights

- Finally we remove the outliers
- Remaning data point are not outliers ,They are near the maximum values,minimum value

In [95]:
```
data.head()
```

Out[95]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborhood	Conditi
0	1	60	RL	65.0	8450.0	Pave	Reg	Lvl	AllPub	Inside	Gtl	CollgCr	N
1	2	20	RL	80.0	9600.0	Pave	Reg	Lvl	AllPub	FR2	Gtl	Veenker	Fe
2	3	60	RL	68.0	11250.0	Pave	IR1	Lvl	AllPub	Inside	Gtl	CollgCr	N
3	4	70	RL	60.0	9550.0	Pave	IR1	Lvl	AllPub	Corner	Gtl	Crawfor	N
4	5	60	RL	84.0	14260.0	Pave	IR1	Lvl	AllPub	FR2	Gtl	NoRidge	N

Catagorical data convert into Numarical data

In [96]:
```
from sklearn.preprocessing import LabelEncoder
le=LabelEncoder()
```

In [97]:
```
def encoding(data):
    le=LabelEncoder()
    for i in data.select_dtypes('object'):
        data[i]=le.fit_transform(data[i])
    return data
```

In [98]:
```
data3=encoding(data)
data3.head()
```

Out[98]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborhood	Conditi
0	1	60	3	65.0	8450.0	1	3	3	0	4	0	5	
1	2	20	3	80.0	9600.0	1	3	3	0	2	0	24	
2	3	60	3	68.0	11250.0	1	0	3	0	4	0	5	
3	4	70	3	60.0	9550.0	1	0	3	0	0	0	6	
4	5	60	3	84.0	14260.0	1	0	3	0	2	0	15	

Insights

- The LabelEncoder class in scikit-learn (sklearn) is a utility class that can be used to encode categorical labels into numerical values.
- It is commonly used for converting labels or target variables into a numeric representation, which can be easier to work with for certain machine learning algorithms.

Scaling

In [99]:
```
from sklearn.preprocessing import MinMaxScaler
scaler=MinMaxScaler()
```

In [100…
```
data3[['LotArea','LotFrontage','YearBuilt','YearRemodAdd','MasVnrArea','BsmtFinSF1','BsmtUnfSF','TotalBsmtSF','
```

In [101…
```
data3.head()
```

Out[101]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborhood	Condi
0	1	60	3	0.440000	0.430099	1	3	3	0	4	0	5	
1	2	20	3	0.640000	0.501174	1	3	3	0	2	0	24	
2	3	60	3	0.480000	0.603152	1	0	3	0	4	0	5	
3	4	70	3	0.373333	0.498084	1	0	3	0	0	0	6	
4	5	60	3	0.693333	0.789184	1	0	3	0	2	0	15	

Insights

- The MinMaxScaler class in scikit-learn (sklearn) is a data preprocessing technique that transforms features by scaling them to a specified range, typically between 0 and 1.
- It is commonly used to normalize numeric features before applying machine learning algorithms.

Feacture Selection

In [102…
```
data3.drop(['SalePrice'],axis=1)
```

Out[102]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborhood
0	1	60	3	0.440000	0.430099	1	3	3	0	4	0	5
1	2	20	3	0.640000	0.501174	1	3	3	0	2	0	24
2	3	60	3	0.480000	0.603152	1	0	3	0	4	0	5
3	4	70	3	0.373333	0.498084	1	0	3	0	0	0	6
4	5	60	3	0.693333	0.789184	1	0	3	0	2	0	15
5	6	50	3	0.706667	0.780222	1	0	3	0	4	0	11
6	7	20	3	0.573333	0.531088	1	3	3	0	4	0	21
7	8	60	3	0.493333	0.549506	1	0	3	0	0	0	14
8	9	50	4	0.253333	0.286094	1	3	3	0	4	0	17

9	10	50	3	0.240000	0.366440	1	3	3	0	0	0	3
10	11	20	3	0.506667	0.600062	1	3	3	0	4	0	19
11	12	60	3	0.706667	0.644808	1	0	3	0	4	0	16
12	13	20	3	0.493333	0.709333	1	1	3	0	4	0	19
13	14	20	3	0.786667	0.566193	1	0	3	0	4	0	5
14	15	20	3	0.493333	0.582756	1	0	3	0	0	0	12
15	16	45	4	0.253333	0.286094	1	3	3	0	0	0	3
16	17	20	3	0.493333	0.602596	1	0	3	0	1	0	12
17	18	90	3	0.533333	0.574784	1	3	3	0	4	0	19
18	19	20	3	0.453333	0.754265	1	3	3	0	4	0	20
19	20	20	3	0.506667	0.375093	1	3	3	0	4	0	12
20	21	60	3	0.920000	0.786403	1	0	3	0	0	0	16
21	22	45	4	0.333333	0.368232	1	3	0	0	4	0	9
22	23	20	3	0.573333	0.509951	1	3	3	0	4	0	5
23	24	120	4	0.160000	0.168912	1	3	3	0	4	0	10
24	25	20	3	0.493333	0.417491	1	0	3	0	4	0	19
25	26	20	3	0.493333	0.787330	1	3	3	0	0	0	16
26	27	20	3	0.373333	0.352843	1	3	3	0	0	0	12
27	28	20	3	0.880000	0.617244	1	3	3	0	4	0	16
28	29	20	3	0.200000	0.916564	1	0	3	0	1	0	12
29	30	30	4	0.373333	0.298702	1	0	3	0	4	0	3
30	31	70	0	0.240000	0.433189	1	3	3	0	4	0	9
31	32	20	3	0.493333	0.435909	1	0	3	0	1	0	19
32	33	20	3	0.706667	0.590729	1	3	3	0	0	0	5
33	34	20	3	0.506667	0.560012	1	0	3	0	4	0	12
34	35	120	3	0.373333	0.359827	1	3	3	0	4	0	16
35	36	60	3	0.493333	0.737145	1	3	3	0	4	0	16
36	37	20	3	0.493333	0.578986	1	3	3	0	0	0	5
37	38	20	3	0.560000	0.435167	1	3	3	0	4	0	12
38	39	20	3	0.480000	0.397466	1	3	3	0	4	0	12
39	40	90	3	0.440000	0.281150	1	3	3	0	4	0	7
40	41	20	3	0.693333	0.442954	1	3	3	0	4	0	12
41	42	20	3	0.493333	0.952658	1	3	3	0	4	0	23
42	43	85	3	0.493333	0.475216	1	0	3	0	1	0	20
43	44	20	3	0.493333	0.476452	1	0	3	0	1	0	5
44	45	20	3	0.506667	0.398888	1	3	3	0	4	0	12
45	46	120	3	0.386667	0.381150	1	3	3	0	4	0	16
46	47	50	3	0.213333	0.700309	1	0	3	0	1	0	11
47	48	20	1	0.693333	0.593634	1	3	3	0	4	0	21
48	49	50	4	0.013333	0.183251	1	3	3	0	4	0	17
49	50	20	3	0.453333	0.386341	1	3	3	0	4	0	19
50	51	60	3	0.493333	0.765019	1	1	3	0	0	0	8
51	52	50	4	0.266667	0.293511	1	3	3	0	4	0	3
52	53	90	4	0.493333	0.431459	0	1	0	0	0	1	9
53	54	20	3	0.480000	0.493665	1	0	2	0	4	0	24
54	55	80	3	0.373333	0.348764	1	3	0	0	4	1	12
55	56	20	3	0.906667	0.536712	1	0	3	0	4	0	12
56	57	50	1	0.493333	0.071323	1	3	3	0	4	0	21
57	58	60	3	0.760000	0.627565	1	0	3	0	0	0	5
58	59	60	3	0.453333	0.753461	1	1	1	0	1	0	22
59	60	20	3	0.373333	0.352843	1	3	0	0	4	0	5
60	61	20	3	0.413333	0.715760	1	3	3	0	4	0	20
61	62	75	4	0.373333	0.352843	1	3	3	0	4	0	9
62	63	120	3	0.160000	0.305995	1	0	3	0	4	0	16
63	64	70	4	0.240000	0.544438	1	0	0	0	4	0	17

64	65	60	3	0.493333	0.487268	1	3	3	0	4	0	5
65	66	60	3	0.586667	0.500618	1	3	3	0	4	0	16
66	67	20	3	0.493333	0.493665	1	3	3	0	4	0	12
67	68	20	3	0.533333	0.566996	1	0	3	0	4	0	5
68	69	30	4	0.200000	0.192645	1	3	3	0	0	0	17
69	70	50	3	0.653333	0.871570	1	3	3	0	0	0	4
70	71	20	3	0.840000	0.751545	1	0	3	0	4	0	12
71	72	20	3	0.493333	0.377503	1	3	3	0	0	0	11
72	73	60	3	0.560000	0.534611	1	0	3	0	0	0	8
73	74	20	3	0.706667	0.538257	1	3	3	0	4	0	12
74	75	50	4	0.373333	0.265698	1	3	3	0	0	0	17
75	76	50	4	0.493333	0.006489	1	3	3	0	4	0	10
76	77	20	3	0.493333	0.431644	1	0	3	0	4	0	12
77	78	50	4	0.240000	0.441533	1	3	3	0	4	0	3
78	79	90	3	0.533333	0.573980	1	3	3	0	4	0	19
79	80	50	4	0.373333	0.553090	1	3	3	0	0	0	17
80	81	60	3	0.906667	0.711310	1	3	3	0	0	0	12
81	82	120	4	0.000000	0.185970	1	3	3	0	2	0	11
82	83	20	3	0.613333	0.538628	1	3	3	0	4	0	21
83	84	20	3	0.640000	0.457417	1	0	3	0	4	0	12
84	85	80	3	0.493333	0.435043	1	0	3	0	4	0	8
85	86	60	3	0.493333	0.900371	1	3	3	0	0	0	15
86	87	60	3	0.493333	0.644005	1	1	3	0	4	0	8
87	88	50	1	0.106667	0.152040	1	3	3	0	0	0	21
88	89	50	0	0.973333	0.431335	1	0	3	0	0	0	9
89	90	20	3	0.373333	0.406613	1	3	3	0	4	0	5
90	91	20	3	0.373333	0.352843	1	3	3	0	4	0	12
91	92	20	3	0.706667	0.433189	1	3	3	0	4	0	12
92	93	30	3	0.640000	0.733560	1	0	1	0	4	0	6
93	94	50	0	0.373333	0.352843	1	3	3	0	0	0	17
94	95	60	3	0.493333	0.484920	1	0	3	0	4	0	5
95	96	60	3	0.493333	0.511372	1	1	3	0	0	0	8
96	97	20	3	0.613333	0.542213	1	0	3	0	4	0	5
97	98	20	3	0.546667	0.582818	1	3	1	0	4	0	7
98	99	30	3	0.706667	0.564524	1	3	3	0	0	0	7
99	100	20	3	0.600000	0.483869	1	0	3	0	4	0	12
100	101	20	3	0.493333	0.563164	1	0	3	0	4	0	14
101	102	60	3	0.600000	0.476823	1	3	3	0	4	0	20
102	103	90	3	0.426667	0.341595	1	3	0	0	4	0	20
103	104	20	3	0.826667	0.550742	1	0	3	0	0	0	5
104	105	50	4	0.493333	0.387330	1	3	3	0	0	0	9
105	106	60	1	0.573333	0.487268	1	3	3	0	4	0	21
106	107	30	4	0.373333	0.575340	1	3	3	0	4	0	17
107	108	20	4	0.240000	0.278677	1	3	3	0	4	0	17
108	109	50	4	0.706667	0.433189	1	3	3	0	0	0	9
109	110	20	3	0.973333	0.634116	1	0	3	0	4	0	14
110	111	50	3	0.573333	0.496539	1	3	3	0	4	0	7
111	112	80	3	0.493333	0.386836	1	0	3	0	4	0	8
112	113	60	3	0.600000	0.523733	1	3	3	0	4	0	5
113	114	20	3	0.493333	0.493665	1	3	0	0	0	0	6
114	115	70	3	0.386667	0.356489	1	0	3	0	4	1	6
115	116	50	1	0.026667	0.107478	1	3	3	0	0	0	21
116	117	20	3	0.493333	0.625773	1	3	3	0	4	0	19
117	118	20	3	0.560000	0.435414	1	3	3	0	0	0	7
118	119	60	3	0.773333	0.672744	1	3	3	0	0	0	20

119	120	60	3	0.440000	0.430779	1	3	3	0	4	0	5
120	121	80	3	0.493333	0.493665	1	0	2	0	1	2	4
121	122	50	4	0.240000	0.282386	1	3	3	0	4	0	9
122	123	20	3	0.573333	0.492769	1	3	3	0	0	0	12
123	124	120	3	0.306667	0.395612	1	3	3	0	4	0	20
124	125	20	3	0.213333	0.961187	1	0	3	0	1	0	14
125	126	50	4	0.373333	0.326885	1	3	3	0	4	0	9
126	127	120	3	0.493333	0.212423	1	0	3	0	4	0	13
127	128	45	4	0.306667	0.179048	1	0	0	0	4	0	17
128	129	60	3	0.493333	0.376947	1	3	3	0	4	0	12
129	130	20	3	0.493333	0.462423	1	3	3	0	4	0	12
130	131	60	3	0.746667	0.785476	1	3	3	0	0	0	12
131	132	60	3	0.493333	0.663350	1	0	3	0	0	0	8
132	133	20	3	0.573333	0.364462	1	3	3	0	0	0	12
133	134	20	3	0.493333	0.331397	1	0	3	0	4	0	23
134	135	20	3	0.613333	0.546601	1	0	3	0	4	0	19
135	136	20	3	0.640000	0.550618	1	3	3	0	4	0	14
136	137	20	3	0.493333	0.547837	1	0	3	0	0	0	12
137	138	90	3	0.666667	0.592027	1	3	3	0	4	0	11
138	139	60	3	0.546667	0.468171	1	0	3	0	4	0	5
139	140	60	3	0.440000	0.861248	1	0	3	0	4	0	5
140	141	20	3	0.506667	0.556799	1	3	3	0	2	0	12
141	142	20	3	0.613333	0.627565	1	3	3	0	4	0	5
142	143	50	3	0.520000	0.434425	1	3	3	0	0	0	12
143	144	20	3	0.613333	0.546601	1	0	3	0	4	0	5
144	145	90	4	0.506667	0.470272	1	3	3	0	4	0	19
145	146	50	4	0.493333	0.063721	1	3	3	0	4	0	7
146	147	30	4	0.253333	0.286094	1	3	3	0	0	0	3
147	148	60	3	0.493333	0.495303	1	0	3	0	1	0	8
148	149	20	3	0.413333	0.371384	1	3	3	0	4	0	20
149	150	50	4	0.493333	0.293511	1	3	3	0	4	0	3
150	151	20	3	0.493333	0.547899	1	3	3	0	0	0	5
151	152	20	3	1.000000	0.766378	1	3	3	0	4	0	16
152	153	60	3	0.493333	0.822744	1	0	3	0	1	0	14
153	154	20	3	0.493333	0.742213	1	3	3	0	4	0	4
154	155	30	4	0.693333	0.608714	1	3	3	0	0	0	17
155	156	50	3	0.373333	0.501174	1	3	3	0	0	0	7
156	157	20	3	0.373333	0.352843	1	3	3	0	4	0	12
157	158	60	3	0.800000	0.649691	1	3	3	0	0	0	23
158	159	60	1	0.906667	0.683622	1	3	3	0	0	0	21
159	160	60	3	0.493333	0.493665	1	0	1	0	0	0	8
160	161	20	3	0.493333	0.595117	1	0	3	0	1	0	24
161	162	60	3	0.493333	0.753832	1	0	3	0	4	0	16
162	163	20	3	0.840000	0.660754	1	3	3	0	0	0	16
163	164	45	3	0.306667	0.247775	1	3	3	0	4	0	17
164	165	40	4	0.106667	0.241595	1	3	3	0	0	0	17
165	166	50	3	0.400000	0.532447	1	3	3	0	4	0	7
166	167	20	3	0.493333	0.569654	1	0	3	0	4	0	4
167	168	60	3	0.720000	0.560630	1	3	3	0	4	0	16
168	169	60	3	0.400000	0.417367	1	0	3	0	4	0	8
169	170	20	3	0.493333	0.938072	1	0	3	0	0	0	23
170	171	50	4	0.493333	0.671632	1	0	3	0	4	0	17
171	172	20	3	0.493333	0.493665	1	0	3	0	0	0	12
172	173	50	3	0.160000	0.235785	1	0	3	0	4	0	22

173	174	20	3	0.640000	0.538072	1	0	3	0	4	0	12
174	175	20	3	0.200000	0.675216	1	0	3	0	4	0	23
175	176	20	3	0.693333	0.687515	1	3	3	0	0	0	7
176	177	60	3	0.866667	0.527689	1	0	3	0	0	0	4
177	178	50	3	0.493333	0.751483	1	3	3	0	4	0	19
178	179	20	3	0.413333	0.984672	1	0	3	0	1	0	22
179	180	30	4	0.373333	0.434425	1	3	3	0	4	0	17
180	181	50	1	0.493333	0.038690	1	3	3	0	4	0	21
181	182	70	3	0.293333	0.376823	1	3	3	0	4	0	6
182	183	20	3	0.373333	0.467800	1	3	3	0	4	0	7
183	184	50	4	0.413333	0.614030	1	3	3	0	4	0	17
184	185	50	3	0.800000	0.367553	1	0	3	0	4	0	3
185	186	75	4	0.773333	0.493665	1	1	3	0	4	0	17
186	187	80	3	0.493333	0.522621	1	0	3	0	1	0	11
187	188	50	3	0.373333	0.551236	1	3	3	0	4	0	17
188	189	90	3	0.426667	0.341595	1	3	0	0	4	0	20
189	190	120	3	0.120000	0.212114	1	3	3	0	4	0	22
190	191	70	3	0.506667	0.561125	1	3	0	0	4	1	6
191	192	60	3	0.493333	0.369654	1	0	3	0	1	0	12
192	193	20	3	0.480000	0.465142	1	0	3	0	4	0	5
193	194	50	4	0.493333	0.063721	1	3	3	0	4	0	7
194	195	20	3	0.373333	0.351607	1	0	3	0	4	0	5
195	196	50	3	0.493333	0.048764	1	3	3	0	2	0	13
196	197	20	3	0.626667	0.489802	1	3	3	0	4	0	21
197	198	75	3	0.493333	0.493665	1	3	3	0	0	0	12
198	199	75	4	0.800000	0.249011	1	3	3	0	0	0	17
199	200	20	3	0.586667	0.500618	1	3	3	0	4	0	16
200	201	20	4	0.640000	0.436032	1	3	3	0	0	0	7
201	202	20	3	0.573333	0.533622	1	3	3	0	4	0	11
202	203	50	3	0.240000	0.340482	1	3	3	0	0	0	17
203	204	120	4	0.493333	0.182138	1	3	3	0	4	0	5
204	205	50	4	0.240000	0.124166	1	3	3	0	4	0	17
205	206	20	3	0.893333	0.640297	1	3	3	0	0	0	8
206	207	20	3	0.106667	0.752905	1	0	3	0	1	0	19
207	208	20	3	0.493333	0.679975	1	0	3	0	4	0	12
208	209	60	3	0.493333	0.795612	1	0	2	0	4	1	20
209	210	20	3	0.573333	0.417738	1	3	3	0	4	0	12
210	211	30	3	0.466667	0.254203	1	3	3	0	4	0	7
211	212	20	3	0.680000	0.551854	1	3	3	0	0	0	7
212	213	60	1	0.533333	0.441842	1	3	3	0	4	0	21
213	214	20	3	0.146667	0.746415	1	1	3	0	1	0	5
214	215	60	3	0.493333	0.581520	1	0	3	0	2	0	5
215	216	20	3	0.533333	0.526576	1	0	3	0	4	0	12
216	217	20	3	0.440000	0.430099	1	3	3	0	4	0	5
217	218	70	4	0.333333	0.520087	1	3	3	0	4	0	17
218	219	50	3	0.493333	0.875711	1	0	3	0	0	0	6
219	220	120	3	0.146667	0.093881	1	3	3	0	4	0	0
220	221	20	3	0.546667	0.463473	1	0	3	0	4	0	5
221	222	60	3	0.493333	0.406489	1	0	3	0	4	0	8
222	223	60	3	0.706667	0.617058	1	3	3	0	4	0	14
223	224	20	3	0.506667	0.556799	1	3	3	0	2	0	12
224	225	20	3	0.946667	0.740482	1	3	3	0	4	0	16
225	226	50	4	0.493333	0.011681	1	3	3	0	4	0	2
226	227	60	3	0.666667	0.522806	1	0	3	0	4	0	15
227	228	50	4	0.493333	0.023362	1	3	3	0	4	0	2

228	229	20	3	0.506667	0.434487	1	3	3	0	2	0	19
229	230	120	3	0.146667	0.104512	1	3	3	0	4	0	0
230	231	20	3	0.546667	0.449258	1	3	3	0	4	0	12
231	232	60	3	0.493333	0.843449	1	0	3	0	4	0	15
232	233	50	4	0.493333	0.011681	1	3	3	0	4	0	2
233	234	20	3	0.573333	0.566069	1	3	3	0	0	0	5
234	235	60	3	0.493333	0.393078	1	3	3	0	4	0	8
235	236	50	4	0.493333	0.011681	1	3	3	0	4	0	2
236	237	20	3	0.440000	0.450062	1	3	3	0	2	0	5
237	238	60	3	0.493333	0.492089	1	0	3	0	1	0	20
238	239	20	3	0.813333	0.651360	1	3	3	0	4	0	16
239	240	50	3	0.266667	0.448084	1	3	3	0	4	0	7
240	241	20	1	0.573333	0.464091	1	3	3	0	4	0	21
241	242	30	4	0.106667	0.147651	1	3	3	0	4	0	17
242	243	50	4	0.413333	0.216873	1	3	3	0	0	0	17
243	244	50	3	0.573333	0.572991	1	3	3	0	0	0	20
244	245	60	3	0.493333	0.456675	1	0	3	0	4	0	20
245	246	20	3	0.640000	0.550618	1	3	3	0	4	0	14
246	247	50	4	0.493333	0.472868	1	3	3	0	4	0	17
247	248	20	3	0.573333	0.606860	1	3	3	0	4	0	12
248	249	60	3	0.533333	0.607293	1	3	3	0	4	0	5
249	250	50	3	0.493333	0.493665	1	1	2	0	1	2	4
250	251	30	3	0.306667	0.238504	1	0	3	0	4	0	3
251	252	120	4	0.160000	0.201422	1	0	1	0	4	1	6
252	253	60	3	0.440000	0.424907	1	0	3	0	4	0	20
253	254	80	3	0.706667	0.485723	1	3	3	0	4	0	12
254	255	20	3	0.506667	0.427009	1	3	3	0	4	0	12
255	256	60	3	0.453333	0.447899	1	0	3	0	4	0	8
256	257	60	1	0.426667	0.451174	1	0	3	0	4	0	21
257	258	20	3	0.480000	0.452596	1	3	3	0	4	0	5
258	259	60	3	0.640000	0.676391	1	3	3	0	4	0	5
259	260	20	4	0.506667	0.692892	1	3	3	0	4	0	17
260	261	80	3	0.493333	0.493665	1	3	3	0	0	0	12
261	262	60	3	0.493333	0.500433	1	0	3	0	4	0	5
262	263	80	3	0.746667	0.431397	1	0	3	0	0	0	19
263	264	50	4	0.240000	0.247775	1	3	3	0	0	0	17
264	265	30	4	0.493333	0.231211	1	2	0	0	4	0	17
265	266	20	3	0.613333	0.655068	1	0	3	0	4	0	14
266	267	60	3	0.506667	0.600494	1	0	1	0	2	0	8
267	268	75	3	0.373333	0.427009	1	3	0	0	4	1	18
268	269	30	4	0.520000	0.334302	1	3	3	0	4	0	9
269	270	20	3	0.493333	0.397157	1	0	3	0	0	0	7
270	271	60	1	0.693333	0.570890	1	3	3	0	4	0	21
271	272	20	3	0.546667	0.493665	1	0	2	0	1	2	4
272	273	60	3	0.800000	0.634920	1	0	3	0	1	0	15
273	274	20	3	0.640000	0.501174	1	3	3	0	4	0	12
274	275	20	3	0.586667	0.421693	1	3	3	0	0	0	11
275	276	50	3	0.306667	0.356799	1	3	3	0	4	0	3
276	277	20	3	0.493333	0.476205	1	0	3	0	4	0	11
277	278	20	3	0.493333	0.493665	1	3	3	0	0	0	8
278	279	20	3	1.000000	0.800927	1	3	3	0	4	0	16
279	280	60	3	0.680000	0.526205	1	3	3	0	4	0	4
280	281	60	3	0.666667	0.605439	1	3	3	0	4	0	20
281	282	20	1	0.373333	0.352843	1	3	3	0	4	0	21
282	283	120	3	0.026667	0.220766	1	3	3	0	4	0	16

283	284	20	3	0.560000	0.501916	1	3	3	0	4	0	21
284	285	120	3	0.240000	0.403028	1	3	3	0	4	0	20
285	286	50	1	0.040000	0.170581	1	0	3	0	4	0	21
286	287	50	3	0.600000	0.512670	1	0	0	0	4	0	12
287	288	20	3	0.493333	0.410012	1	0	3	0	0	0	12
288	289	20	3	0.493333	0.514710	1	0	3	0	4	0	19
289	290	70	3	0.373333	0.447404	1	3	3	0	4	0	3
290	291	60	3	0.493333	0.872682	1	3	3	0	4	0	5
291	292	50	3	0.306667	0.259333	1	3	0	0	4	0	18
292	293	50	3	0.373333	0.612979	1	3	3	0	4	0	7
293	294	60	3	0.493333	0.937454	1	0	3	0	0	0	14
294	295	20	3	0.640000	0.501174	1	3	3	0	4	0	12
295	296	80	3	0.066667	0.398393	1	0	3	0	1	0	11
296	297	50	4	0.573333	0.755192	1	3	3	0	4	0	9
297	298	60	1	0.453333	0.365142	1	0	3	0	4	0	21
298	299	60	3	0.773333	0.630964	1	3	3	0	4	0	14
299	300	20	3	0.640000	0.773115	1	3	3	0	4	0	6
300	301	50	3	0.773333	0.881273	1	3	3	0	0	0	6
301	302	60	3	0.453333	0.910692	1	2	3	0	4	0	5
302	303	20	3	0.493333	0.754821	1	0	3	0	0	0	5
303	304	20	3	0.506667	0.513535	1	3	3	0	0	0	5
304	305	75	4	0.733333	0.493665	1	3	3	0	4	0	17
305	306	20	3	0.640000	0.549753	1	3	3	0	4	0	5
306	307	60	3	0.493333	0.740606	1	3	3	0	4	0	20
307	308	50	4	0.493333	0.397342	1	0	3	0	4	0	9
308	309	30	3	0.493333	0.670643	1	0	3	0	4	0	7
309	310	20	3	0.773333	0.672868	1	0	3	0	4	0	16
310	311	60	3	0.493333	0.382818	1	0	3	0	4	0	8
311	312	20	3	0.240000	0.402287	1	3	3	0	4	0	12
312	313	50	4	0.440000	0.389926	1	3	3	0	4	0	17
313	314	20	3	0.493333	0.493665	1	2	2	0	4	2	23
314	315	70	4	0.373333	0.501174	1	3	3	0	4	0	17
315	316	60	3	0.520000	0.389617	1	0	3	0	4	0	8
316	317	60	3	0.826667	0.711619	1	0	3	0	0	0	14
317	318	60	1	0.573333	0.464091	1	3	3	0	4	0	21
318	319	60	3	0.773333	0.519716	1	3	2	0	4	1	15
319	320	80	3	0.493333	0.780222	1	3	3	0	4	0	14
320	321	60	3	0.493333	0.912732	1	3	3	0	0	0	16
321	322	60	3	0.893333	0.655624	1	0	3	0	4	0	16
322	323	60	3	0.720000	0.549382	1	0	3	0	4	0	20
323	324	20	4	0.226667	0.267553	1	3	3	0	4	0	17
324	325	80	3	0.853333	0.604697	1	3	3	0	0	0	12
325	326	45	4	0.240000	0.216873	1	3	3	0	4	0	9
326	327	120	3	0.000000	0.578183	1	0	3	0	1	0	24
327	328	20	3	0.640000	0.624784	1	3	3	0	4	0	12
328	329	75	3	0.493333	0.642583	1	0	0	0	4	0	3
329	330	70	4	0.373333	0.303523	1	3	3	0	0	0	9
330	331	90	3	0.493333	0.564462	1	0	3	0	4	0	12
331	332	20	3	0.506667	0.413164	1	3	3	0	4	0	12
332	333	20	3	0.706667	0.566378	1	0	3	0	4	0	16
333	334	120	4	0.360000	0.414524	1	3	3	0	3	0	16
334	335	60	3	0.360000	0.466687	1	0	3	0	4	0	8
335	336	50	3	0.493333	0.493665	0	0	1	0	0	2	23
336	337	20	3	0.720000	0.782818	1	0	1	0	0	0	22
337	338	20	3	0.506667	0.472435	1	3	3	0	4	0	5

338	339	20	3	0.786667	0.782077	1	3	3	0	0	0	14
339	340	20	3	0.453333	0.674227	1	0	3	0	4	0	12
340	341	60	3	0.706667	0.784920	1	3	3	0	4	0	23
341	342	20	2	0.373333	0.427009	1	3	3	0	4	0	20
342	343	90	3	0.493333	0.435909	1	3	3	0	4	0	12
343	344	120	3	0.413333	0.454759	1	0	3	0	4	0	16
344	345	50	4	0.053333	0.068047	1	3	3	0	4	0	10
345	346	50	3	0.440000	0.305562	1	3	3	0	4	0	3
346	347	20	3	0.493333	0.697219	1	0	3	0	1	0	12
347	348	20	3	0.493333	0.995612	1	0	3	0	4	0	12
348	349	50	3	0.053333	0.059147	1	3	3	0	4	0	16
349	350	60	3	0.320000	0.493665	1	1	3	0	4	0	16
350	351	120	3	0.480000	0.391162	1	0	3	0	4	0	16
351	352	120	3	0.493333	0.233622	1	0	2	0	4	1	4
352	353	50	3	0.373333	0.469283	1	3	3	0	4	0	7
353	354	30	4	0.373333	0.434425	1	3	3	0	4	0	17
354	355	50	3	0.373333	0.427009	1	3	0	0	4	0	18
355	356	20	3	0.973333	0.603090	1	1	3	0	4	0	5
356	357	20	3	0.493333	0.479419	1	0	3	0	4	0	8
357	358	120	4	0.160000	0.168912	1	3	3	0	4	0	10
358	359	80	3	0.800000	0.336156	1	0	3	0	4	0	4
359	360	60	3	0.613333	0.650185	1	0	3	0	1	0	15
360	361	85	3	0.493333	0.373857	1	0	3	0	1	0	11
361	362	50	3	0.493333	0.472991	1	3	3	0	4	0	3
362	363	85	3	0.426667	0.359085	1	3	3	0	0	0	7
363	364	50	4	0.493333	0.011681	1	3	3	0	4	0	2
364	365	60	3	0.493333	0.493665	1	0	3	0	2	0	14
365	366	70	4	0.360000	0.568541	1	3	3	0	4	0	9
366	367	20	3	0.493333	0.494994	1	0	3	0	4	0	12
367	368	80	3	0.920000	0.473362	1	0	3	0	0	0	12
368	369	20	3	0.613333	0.389926	1	3	3	0	4	0	12
369	370	20	3	0.493333	0.515389	1	0	3	0	0	0	12
370	371	60	3	0.493333	0.409765	1	0	3	0	4	0	8
371	372	50	3	0.640000	0.965946	1	3	3	0	4	0	4
372	373	120	3	0.240000	0.351298	1	3	3	0	4	0	20
373	374	20	3	0.626667	0.565080	1	3	3	0	4	0	12
374	375	60	3	0.440000	0.414648	1	3	3	0	4	0	5
375	376	30	3	0.493333	0.527132	1	0	2	0	4	2	7
376	377	85	3	0.333333	0.454574	1	0	3	0	1	0	5
377	378	60	1	0.933333	0.596539	1	0	3	0	0	0	21
378	379	20	3	0.746667	0.612052	1	3	3	0	0	0	22
379	380	60	3	0.373333	0.409889	1	0	3	0	4	0	8
380	381	50	3	0.240000	0.216873	1	3	3	0	4	0	18
381	382	20	1	0.373333	0.352843	1	3	3	0	4	0	21
382	383	60	3	0.626667	0.479234	1	0	3	0	4	0	5
383	384	45	2	0.373333	0.464091	1	3	3	0	0	0	20
384	385	60	3	0.493333	0.493665	1	1	2	0	0	1	4
385	386	120	3	0.146667	0.104512	1	3	3	0	4	0	0
386	387	50	3	0.346667	0.427627	1	3	3	0	2	0	7
387	388	80	3	0.533333	0.352843	1	3	3	0	4	0	7
388	389	20	3	0.813333	0.487701	1	0	3	0	1	0	5
389	390	60	3	0.853333	0.678801	1	3	3	0	4	0	16
390	391	50	3	0.240000	0.427318	1	3	3	0	4	0	7
391	392	60	3	0.520000	0.662423	1	0	3	0	1	0	11

392	393	20	3	0.493333	0.423239	1	0	3	0	4	0	12
393	394	30	3	0.493333	0.368047	1	3	3	0	0	0	3
394	395	50	3	0.373333	0.534178	1	3	3	0	4	0	17
395	396	20	3	0.480000	0.499382	1	3	3	0	4	0	7
396	397	20	3	0.373333	0.352843	1	3	2	0	4	0	5
397	398	60	3	0.493333	0.376947	1	3	3	0	4	0	12
398	399	30	4	0.373333	0.462052	1	3	3	0	0	0	9
399	400	60	1	0.440000	0.410012	1	3	3	0	4	0	21
400	401	120	3	0.080000	0.832633	1	1	3	0	4	0	24
401	402	20	3	0.440000	0.449691	1	0	3	0	4	0	5
402	403	30	3	0.373333	0.538257	1	3	3	0	4	0	19
403	404	60	3	0.813333	0.655068	1	3	3	0	0	0	15
404	405	60	3	0.493333	0.548393	1	0	3	0	4	0	8
405	406	20	3	0.493333	0.525340	1	0	3	0	0	0	19
406	407	50	3	0.253333	0.555562	1	3	3	0	4	0	18
407	408	70	3	0.413333	0.870519	1	3	3	0	4	0	6
408	409	60	3	0.493333	0.782633	1	3	3	0	0	0	16
409	410	60	1	0.706667	0.575340	1	3	3	0	4	0	21
410	411	20	3	0.480000	0.499382	1	3	3	0	4	0	7
411	412	50	3	0.906667	0.493665	1	3	0	0	4	0	8
412	413	20	1	0.493333	0.179975	1	1	3	0	4	0	21
413	414	30	4	0.320000	0.461619	1	3	3	0	4	0	17
414	415	60	3	0.360000	0.601792	1	1	3	0	1	0	20
415	416	20	3	0.546667	0.457849	1	0	3	0	4	0	8
416	417	60	3	0.560000	0.392645	1	3	3	0	4	0	19
417	418	70	3	0.720000	0.493665	1	0	3	0	4	0	6
418	419	50	3	0.373333	0.412176	1	3	3	0	4	0	7
419	420	20	3	0.440000	0.430099	1	3	3	0	4	0	12
420	421	90	4	0.613333	0.344190	1	3	3	0	4	0	11
421	422	20	3	0.493333	0.935970	1	0	3	0	2	0	14
422	423	20	3	0.906667	0.493665	1	3	1	0	4	1	11
423	424	60	3	0.640000	0.476452	1	3	3	0	4	0	15
424	425	20	3	0.533333	0.464091	1	3	3	0	4	0	12
425	426	60	4	0.373333	0.116625	1	3	1	0	4	0	17
426	427	80	3	0.493333	0.698949	1	3	2	0	4	1	20
427	428	20	3	0.600000	0.438937	1	0	3	0	4	0	12
428	429	20	3	0.426667	0.325773	1	3	3	0	4	0	5
429	430	20	3	0.493333	0.615946	1	0	3	0	0	0	23
430	431	50	4	0.493333	0.011681	1	3	3	0	4	0	2
431	432	50	4	0.373333	0.253090	1	0	0	0	4	0	17
432	433	50	4	0.493333	0.026514	1	3	3	0	4	0	2
433	434	60	3	0.906667	0.577750	1	0	3	0	0	0	8
434	435	50	4	0.493333	0.024660	1	3	3	0	4	0	10
435	436	60	3	0.146667	0.567120	1	1	3	0	1	0	5
436	437	50	4	0.106667	0.179790	1	3	3	0	4	0	17
437	438	45	4	0.240000	0.278677	1	3	3	0	4	0	3
438	439	30	3	0.106667	0.172373	1	3	3	0	4	0	6
439	440	50	3	0.466667	0.671384	1	3	3	0	0	0	7
440	441	20	3	0.973333	0.861557	1	3	3	0	4	0	16
441	442	90	3	0.800000	0.656180	1	3	3	0	4	0	7
442	443	50	4	0.266667	0.293511	1	3	3	0	4	0	3
443	444	120	3	0.280000	0.150247	1	3	3	0	4	0	0
444	445	60	3	0.506667	0.448640	1	3	3	0	4	0	5
445	446	20	3	0.546667	0.516934	1	3	3	0	0	0	7
446	447	20	3	0.493333	0.927132	1	0	3	0	0	0	12

447	448	60	3	0.493333	0.600927	1	0	3	0	0	0	8
448	449	50	4	0.240000	0.439370	1	3	0	0	4	0	9
449	450	50	4	0.240000	0.278677	1	3	3	0	4	0	17
450	451	30	4	0.506667	0.259147	1	3	3	0	4	0	17
451	452	20	3	0.400000	0.493665	1	0	2	0	4	1	4
452	453	60	3	0.493333	0.482818	1	0	3	0	0	0	23
453	454	60	1	0.573333	0.464091	1	3	3	0	4	0	21
454	455	90	3	0.413333	0.482447	1	3	3	0	4	0	11
455	456	20	3	0.640000	0.501174	1	3	3	0	4	0	14
456	457	70	4	0.026667	0.190358	1	3	3	0	4	0	17
457	458	20	3	0.493333	0.493665	1	0	2	0	1	1	4
458	459	70	4	0.493333	0.223053	1	3	3	0	4	0	17
459	460	50	3	0.493333	0.341409	1	0	0	0	0	0	3
460	461	60	1	0.573333	0.402534	1	0	3	0	4	0	21
461	462	70	3	0.373333	0.352843	1	3	3	0	4	0	18
462	463	20	3	0.373333	0.419654	1	0	3	0	4	0	19
463	464	70	3	0.560000	0.648764	1	0	1	0	4	1	6
464	465	20	3	0.373333	0.428863	1	3	1	0	4	1	5
465	466	120	4	0.493333	0.097713	1	3	3	0	4	0	0
466	467	20	3	0.706667	0.564710	1	3	3	0	4	0	12
467	468	70	3	0.626667	0.493758	1	3	3	0	4	0	12
468	469	20	3	0.880000	0.614153	1	0	3	0	4	0	16
469	470	60	3	0.586667	0.482077	1	0	3	0	0	0	20
470	471	120	3	0.493333	0.329357	1	0	3	0	0	0	22
471	472	60	3	0.800000	0.646539	1	3	3	0	4	0	14
472	473	50	4	0.040000	0.134981	1	3	3	0	4	0	7
473	474	20	3	0.493333	0.833498	1	0	3	0	4	0	16
474	475	120	3	0.120000	0.237268	1	3	3	0	4	0	22
475	476	20	3	0.640000	0.431953	1	3	3	0	0	0	19
476	477	20	3	0.573333	0.719036	1	3	3	0	4	1	5
477	478	60	3	0.973333	0.754141	1	3	3	0	4	0	16
478	479	20	3	0.626667	0.565266	1	3	3	0	4	0	5
479	480	30	4	0.240000	0.274042	1	3	0	0	4	0	17
480	481	20	3	0.880000	0.898764	1	0	3	0	2	0	16
481	482	20	3	0.533333	0.639988	1	0	1	0	4	0	16
482	483	70	4	0.240000	0.062361	1	3	3	0	0	0	17
483	484	120	4	0.000000	0.185970	1	3	3	0	2	0	11
484	485	20	3	0.493333	0.387330	1	0	3	0	0	0	19
485	486	20	3	0.640000	0.501174	1	3	3	0	4	0	12
486	487	20	3	0.626667	0.543758	1	3	3	0	4	0	12
487	488	20	3	0.506667	0.664524	1	0	3	0	4	0	14
488	489	50	3	0.373333	0.575340	1	3	3	0	0	0	17
489	490	50	4	0.493333	0.002163	1	3	3	0	4	0	10
490	491	50	4	0.493333	0.072559	1	3	3	0	4	0	10
491	492	50	3	0.626667	0.494376	1	3	3	0	4	0	12
492	493	60	3	0.973333	0.870643	1	0	3	0	0	0	8
493	494	20	3	0.506667	0.398022	1	3	3	0	4	0	12
494	495	30	4	0.240000	0.265328	1	3	3	0	4	0	17
495	496	30	0	0.373333	0.394808	1	3	3	0	4	0	9
496	497	20	3	0.493333	0.692274	1	0	3	0	4	0	15
497	498	50	3	0.373333	0.471508	1	3	3	0	4	0	3
498	499	20	3	0.440000	0.389926	1	3	3	0	4	0	19
499	500	20	3	0.506667	0.373548	1	0	3	0	4	0	12
500	501	50	4	0.493333	0.024660	1	3	3	0	4	0	2
501	502	60	1	0.573333	0.513721	1	3	3	0	4	0	21

502	503	20	3	0.506667	0.474598	1	3	3	0	0	0	7
503	504	20	3	0.906667	0.872126	1	0	3	0	4	0	6
504	505	50	3	0.493333	0.050494	1	3	3	0	4	0	13
505	506	90	4	0.373333	0.377318	1	3	3	0	4	0	17
506	507	60	3	0.640000	0.498331	1	0	3	0	4	0	20
507	508	20	1	0.573333	0.393758	1	0	3	0	4	0	21
508	509	70	4	0.373333	0.501174	1	3	3	0	4	0	17
509	510	20	3	0.640000	0.501174	1	3	3	0	0	0	12
510	511	20	3	0.573333	0.807664	1	3	3	0	4	0	12
511	512	120	3	0.106667	0.327627	1	0	3	0	4	0	16
512	513	20	3	0.506667	0.470272	1	3	3	0	0	0	12
513	514	20	3	0.520000	0.475649	1	3	0	0	0	0	11
514	515	45	3	0.306667	0.562608	1	3	3	0	4	0	6
515	516	20	3	0.826667	0.663103	1	3	3	0	4	0	16
516	517	80	3	0.493333	0.553585	1	0	3	0	0	0	14
517	518	60	3	0.626667	0.538752	1	0	3	0	4	0	15
518	519	60	3	0.493333	0.496910	1	0	3	0	1	0	5
519	520	70	3	0.280000	0.582633	1	3	3	0	4	0	6
520	521	50	3	0.373333	0.575340	1	3	3	0	4	0	17
521	522	20	3	0.773333	0.648764	1	0	3	0	0	0	12
522	523	50	4	0.240000	0.216873	1	3	3	0	0	0	3
523	524	60	3	0.493333	0.493665	1	0	0	0	4	0	7
524	525	60	3	0.840000	0.636341	1	0	3	0	4	0	15
525	526	20	1	0.400000	0.371384	1	3	3	0	4	0	21
526	527	20	3	0.506667	0.729852	1	3	3	0	4	0	12
527	528	60	3	0.466667	0.831706	1	0	3	0	4	0	16
528	529	30	3	0.346667	0.470148	1	0	3	0	4	0	7
529	530	20	3	0.493333	0.493665	1	0	3	0	1	0	6
530	531	80	3	0.706667	0.538257	1	3	3	0	4	0	23
531	532	70	4	0.373333	0.288257	1	0	3	0	3	0	3
532	533	20	3	0.373333	0.352843	1	3	3	0	4	0	12
533	534	20	3	0.240000	0.216873	1	3	2	0	4	1	3
534	535	60	3	0.560000	0.467553	1	0	3	0	4	0	8
535	536	50	3	0.506667	0.340482	1	3	3	0	4	0	7
536	537	60	3	0.333333	0.459394	1	0	3	0	1	0	5
537	538	20	3	0.493333	0.694932	1	0	3	0	2	0	12
538	539	20	3	0.493333	0.621879	1	0	3	0	4	0	19
539	540	20	3	0.493333	0.613844	1	3	3	0	4	0	5
540	541	20	3	0.706667	0.810260	1	3	3	0	4	0	23
541	542	60	3	0.493333	0.587701	1	3	3	0	2	0	15
542	543	20	3	0.613333	0.534549	1	3	3	0	4	0	14
543	544	120	2	0.026667	0.158653	1	3	3	0	4	0	12
544	545	60	3	0.346667	0.964957	1	0	3	0	4	0	8
545	546	50	3	0.493333	0.763041	1	0	3	0	0	0	14
546	547	50	3	0.506667	0.447837	1	0	0	0	4	0	3
547	548	85	3	0.293333	0.355562	1	3	3	0	4	0	11
548	549	20	4	0.226667	0.416811	1	0	1	0	4	0	17
549	550	60	1	0.573333	0.487268	1	3	3	0	4	0	21
550	551	120	3	0.280000	0.157726	1	3	3	0	4	0	13
551	552	20	4	0.240000	0.278677	1	3	3	0	4	0	17
552	553	20	3	0.733333	0.596724	1	0	3	0	4	0	16
553	554	20	3	0.466667	0.450309	1	3	3	0	4	0	7
554	555	60	3	0.706667	0.564524	1	3	3	0	4	0	16
555	556	45	4	0.346667	0.302163	1	3	3	0	4	0	3
556	557	20	3	0.493333	0.825649	1	0	3	0	4	0	12

557	558	50	0	0.373333	0.590173	1	3	2	0	4	1	9
558	559	60	3	0.333333	0.493665	1	1	1	0	2	0	8
559	560	120	3	0.493333	0.105377	1	3	3	0	4	0	0
560	561	20	3	0.493333	0.608776	1	0	3	0	4	0	19
561	562	20	3	0.600000	0.526514	1	3	3	0	4	1	11
562	563	30	3	0.413333	0.767367	1	3	3	0	4	0	7
563	564	50	3	0.453333	0.493665	1	3	3	0	4	0	7
564	565	60	3	0.493333	0.732695	1	0	3	0	1	0	15
565	566	70	3	0.453333	0.331706	1	3	0	0	0	0	18
566	567	60	3	0.600000	0.599938	1	0	3	0	4	0	22
567	568	20	3	0.506667	0.536465	1	0	3	0	4	0	16
568	569	50	3	0.626667	0.669716	1	0	2	0	4	1	20
569	570	90	3	0.493333	0.342460	1	0	3	0	0	0	12
570	571	90	3	0.560000	0.717553	1	0	3	0	4	0	12
571	572	20	3	0.373333	0.361001	1	3	3	0	4	0	12
572	573	60	3	0.680000	0.721137	1	0	1	0	0	0	23
573	574	80	3	0.586667	0.523857	1	0	3	0	4	0	8
574	575	80	3	0.506667	0.556799	1	3	3	0	2	0	12
575	576	50	3	0.640000	0.431953	1	3	3	0	4	0	12
576	577	50	3	0.266667	0.296724	1	3	3	0	4	0	18
577	578	80	3	0.853333	0.635723	1	0	3	0	4	0	19
578	579	50	1	0.026667	0.130593	1	3	3	0	0	0	21
579	580	50	4	0.653333	0.658776	1	3	3	0	4	0	17
580	581	20	3	0.493333	0.809271	1	0	3	0	1	0	12
581	582	20	3	0.880000	0.693016	1	3	3	0	4	0	16
582	583	90	3	0.653333	0.639679	0	3	3	0	4	0	7
583	584	75	4	0.573333	0.742213	1	3	3	0	4	0	17
584	585	50	4	0.253333	0.286094	1	3	3	0	4	0	3
585	586	20	3	0.746667	0.615080	1	3	3	0	4	0	23
586	587	30	3	0.306667	0.542398	1	3	3	0	4	0	3
587	588	85	3	0.560000	0.448022	1	0	3	0	4	0	19
588	589	20	3	0.440000	0.493665	1	0	2	0	4	2	4
589	590	40	4	0.240000	0.470272	1	3	3	0	4	0	3
590	591	60	3	0.426667	0.422064	1	3	3	0	4	0	5
591	592	60	3	0.866667	0.740853	1	0	3	0	0	0	16
592	593	20	3	0.373333	0.315760	1	3	3	0	4	0	11
593	594	120	4	0.493333	0.181953	1	3	3	0	4	0	5
594	595	20	3	0.746667	0.401669	1	0	3	0	4	0	5
595	596	20	3	0.493333	0.606366	1	0	3	0	4	0	22
596	597	70	4	0.373333	0.130346	1	3	3	0	4	0	17
597	598	120	3	0.280000	0.150247	1	3	3	0	4	0	0
598	599	20	3	0.640000	0.710321	1	3	0	0	4	0	6
599	600	50	4	0.493333	0.028368	1	3	3	0	4	0	1
600	601	60	3	0.560000	0.583189	1	3	3	0	4	0	16
601	602	50	4	0.240000	0.464091	1	3	0	0	4	0	9
602	603	60	3	0.640000	0.528430	1	0	3	0	4	0	20
603	604	50	1	0.493333	0.104512	1	3	3	0	4	0	21
604	605	20	3	0.746667	0.699135	1	0	3	0	4	0	5
605	606	60	3	0.706667	0.748393	1	3	3	0	4	0	12
606	607	20	3	0.666667	0.678183	1	1	2	0	0	1	5
607	608	20	3	0.613333	0.389926	1	3	0	0	4	1	7
608	609	70	3	0.613333	0.659889	1	3	1	0	4	1	6
609	610	20	3	0.386667	0.398764	1	3	3	0	4	0	19
610	611	60	3	0.493333	0.590791	1	3	3	0	4	0	5

611	612	80	3	0.493333	0.550309	1	0	3	0	2	0	14
612	613	60	3	0.493333	0.642398	1	3	3	0	4	0	5
613	614	20	3	0.506667	0.427132	1	3	3	0	4	0	11
614	615	50	4	0.493333	0.000000	1	3	3	0	4	0	10
615	616	85	3	0.640000	0.451731	1	3	3	0	4	0	12
616	617	60	3	0.493333	0.393696	1	0	3	0	4	0	8
617	618	45	3	0.360000	0.354512	1	3	1	0	0	1	12
618	619	20	3	0.773333	0.630593	1	3	3	0	4	0	16
619	620	60	3	0.706667	0.664586	1	3	3	0	4	0	23
620	621	30	3	0.173333	0.417614	1	3	3	0	4	0	7
621	622	60	3	0.773333	0.575340	1	3	3	0	4	0	14
622	623	20	3	0.520000	0.344438	1	3	3	0	4	0	19
623	624	50	1	0.493333	0.038690	1	3	3	0	4	0	21
624	625	60	3	0.640000	0.550618	1	3	3	0	4	0	14
625	626	20	3	0.733333	0.525896	1	0	3	0	0	0	12
626	627	20	3	0.493333	0.670643	1	0	3	0	4	0	12
627	628	80	3	0.640000	0.501174	1	3	3	0	4	0	12
628	629	60	3	0.506667	0.625155	1	0	1	0	4	2	12
629	630	80	3	0.666667	0.465328	1	3	3	0	0	0	12
630	631	70	4	0.240000	0.464091	1	3	3	0	0	0	17
631	632	120	3	0.026667	0.191533	1	3	3	0	4	0	16
632	633	20	3	0.706667	0.643325	1	3	3	0	4	0	14
633	634	20	3	0.640000	0.479543	1	3	3	0	0	0	12
634	635	90	3	0.426667	0.339184	1	3	3	0	4	0	17
635	636	50	2	0.373333	0.581273	1	3	0	0	4	0	18
636	637	30	4	0.253333	0.286094	1	3	3	0	4	0	3
637	638	50	4	0.240000	0.278677	1	3	3	0	4	0	17
638	639	30	3	0.466667	0.450309	1	3	3	0	4	0	7
639	640	120	3	0.280000	0.153956	1	3	3	0	4	0	0
640	641	120	3	0.400000	0.691347	1	0	3	0	4	0	16
641	642	60	1	0.493333	0.343572	1	3	3	0	4	0	21
642	643	80	3	0.573333	0.764462	1	3	3	0	4	0	12
643	644	60	3	0.640000	0.574907	1	3	3	0	4	0	14
644	645	20	1	0.706667	0.475649	1	3	3	0	4	0	21
645	646	20	3	0.493333	0.558653	1	0	3	0	0	0	12
646	647	20	3	0.373333	0.352843	1	3	3	0	4	0	12
647	648	20	3	0.706667	0.553832	1	0	3	0	4	0	7
648	649	60	3	0.506667	0.383745	1	3	3	0	4	0	12
649	650	50	4	0.493333	0.027503	1	3	3	0	4	0	10
650	651	60	1	0.440000	0.410012	1	3	3	0	4	0	21
651	652	70	3	0.373333	0.469283	1	3	3	0	4	0	7
652	653	60	3	0.506667	0.448640	1	3	3	0	4	0	5
653	654	50	4	0.373333	0.545674	1	3	3	0	4	0	9
654	655	20	3	0.786667	0.552905	1	0	3	0	4	0	15
655	656	50	4	0.493333	0.011681	1	3	3	0	4	0	2
656	657	20	3	0.533333	0.526329	1	0	3	0	4	0	12
657	658	70	3	0.373333	0.352843	1	3	1	0	4	1	6
658	659	50	3	0.613333	0.989617	1	3	3	0	4	0	12
659	660	20	3	0.573333	0.522002	1	3	3	0	0	0	7
660	661	60	3	0.493333	0.673239	1	3	3	0	1	0	14
661	662	60	3	0.266667	0.493665	1	1	3	0	1	0	15
662	663	20	3	0.493333	0.745921	1	3	3	0	0	0	12
663	664	85	3	0.773333	0.526638	1	3	3	0	4	0	7
664	665	20	3	0.226667	0.493665	1	1	3	0	1	0	21
665	666	60	3	0.986667	0.599691	1	0	3	0	0	0	8

666	667	60	3	0.493333	0.493665	1	0	3	0	4	0	12
667	668	20	3	0.440000	0.410012	1	3	3	0	4	0	20
668	669	20	3	0.493333	0.783931	1	3	0	0	0	1	19
669	670	30	3	0.640000	0.624784	1	3	3	0	4	0	6
670	671	60	3	0.426667	0.441409	1	3	3	0	2	0	5
671	672	70	2	0.293333	0.317553	1	3	3	0	4	0	7
672	673	20	3	0.493333	0.603152	1	0	3	0	4	0	24
673	674	20	3	0.493333	0.800433	1	3	3	0	4	0	6
674	675	20	3	0.640000	0.476452	1	3	3	0	4	0	12
675	676	50	3	0.493333	0.049320	1	3	3	0	4	0	13
676	677	70	4	0.373333	0.501174	1	3	3	0	4	0	17
677	678	30	3	0.266667	0.465451	1	3	3	0	4	0	17
678	679	20	3	0.640000	0.639864	1	0	3	0	4	0	22
679	680	20	3	0.493333	0.522497	1	0	3	0	4	0	19
680	681	120	3	0.240000	0.403028	1	3	3	0	4	0	20
681	682	50	2	0.306667	0.185970	1	1	0	0	4	0	18
682	683	120	3	0.493333	0.086279	1	3	1	0	4	0	4
683	684	20	3	0.773333	0.603028	1	0	3	0	0	0	5
684	685	60	3	0.346667	0.944314	1	1	3	0	1	0	15
685	686	50	3	0.493333	0.220705	1	0	3	0	1	0	22
686	687	60	1	0.693333	0.538690	1	3	3	0	4	0	21
687	688	50	1	0.493333	0.223362	1	1	3	0	2	0	21
688	689	20	3	0.373333	0.407787	1	3	1	0	4	0	22
689	690	120	3	0.386667	0.376143	1	0	3	0	0	0	16
690	691	120	4	0.493333	0.181397	1	3	3	0	4	0	5
691	692	60	3	0.960000	0.493665	1	0	3	0	0	0	15
692	693	60	3	0.133333	0.493665	1	0	3	0	4	1	23
693	694	30	3	0.373333	0.241595	1	3	3	0	0	2	17
694	695	50	4	0.253333	0.286094	1	3	3	0	0	0	3
695	696	20	3	0.293333	0.761434	1	0	3	0	4	0	23
696	697	30	4	0.240000	0.278677	1	3	3	0	4	0	3
697	698	20	3	0.333333	0.304635	1	0	3	0	4	0	7
698	699	20	3	0.440000	0.430099	1	3	3	0	4	0	19
699	700	120	1	0.360000	0.172497	1	1	3	0	4	0	21
700	701	20	3	0.706667	0.793572	1	3	3	0	4	0	23
701	702	20	3	0.640000	0.501174	1	3	3	0	4	0	14
702	703	60	3	0.666667	0.676576	1	0	3	0	4	0	22
703	704	50	4	0.586667	0.379419	1	3	3	0	4	0	17
704	705	20	3	0.506667	0.427009	1	3	3	0	4	0	5
705	706	50	4	0.506667	0.253956	1	3	3	0	4	0	9
706	707	20	3	0.493333	0.493665	1	1	2	0	1	2	4
707	708	120	3	0.213333	0.293511	1	3	3	0	4	0	16
708	709	60	3	0.440000	0.465204	1	0	3	0	4	0	8
709	710	20	3	0.493333	0.350494	1	0	3	0	4	0	19
710	711	30	3	0.320000	0.163103	1	0	3	0	4	0	3
711	712	50	0	0.453333	0.446292	1	3	1	0	4	1	9
712	713	120	3	0.106667	0.196539	1	0	1	0	4	0	22
713	714	50	3	0.373333	0.518047	1	3	3	0	4	0	3
714	715	60	3	0.493333	0.743263	1	0	3	0	1	0	19
715	716	20	3	0.613333	0.534549	1	3	3	0	4	0	14
716	717	70	4	0.373333	0.575340	1	3	0	0	4	0	17
717	718	20	3	0.640000	0.525896	1	3	3	0	4	0	14
718	719	60	3	0.853333	0.559394	1	3	3	0	4	0	15
719	720	20	3	0.493333	0.520952	1	0	3	0	4	0	5
720	721	120	3	0.493333	0.313473	1	0	2	0	1	1	22

721	722	120	4	0.493333	0.181397	1	3	3	0	4	0	5
722	723	20	3	0.506667	0.409703	1	3	3	0	4	0	12
723	724	50	3	0.373333	0.412917	1	3	3	0	4	0	7
724	725	20	3	0.720000	0.728986	1	0	3	0	4	0	7
725	726	20	3	0.373333	0.338010	1	3	3	0	4	0	12
726	727	20	3	0.493333	0.493665	1	0	3	0	0	0	6
727	728	20	3	0.426667	0.359889	1	3	3	0	4	0	5
728	729	90	3	0.706667	0.617058	1	3	3	0	0	0	12
729	730	30	4	0.266667	0.293511	1	3	3	0	4	0	9
730	731	120	3	0.093333	0.240915	1	0	3	0	4	0	22
731	732	80	3	0.546667	0.500556	1	0	3	0	0	0	23
732	733	60	3	0.573333	0.612670	1	0	3	0	4	0	5
733	734	20	3	0.640000	0.525896	1	3	3	0	0	0	19
734	735	20	3	0.493333	0.462732	1	0	3	0	0	0	19
735	736	75	4	0.373333	0.575340	1	3	3	0	4	0	17
736	737	90	3	0.373333	0.435909	1	3	3	0	4	0	12
737	738	60	3	0.533333	0.554512	1	0	1	0	1	0	8
738	739	90	3	0.373333	0.575340	1	3	3	0	4	0	7
739	740	60	3	0.440000	0.483436	1	0	3	0	4	0	5
740	741	70	4	0.373333	0.501174	1	3	3	0	4	0	17
741	742	20	3	0.440000	0.326143	1	0	3	0	4	0	19
742	743	20	3	0.440000	0.430099	1	3	3	0	4	0	20
743	744	80	3	0.506667	0.704265	1	0	3	0	4	0	19
744	745	120	3	0.120000	0.241286	1	0	1	0	4	0	22
745	746	60	3	0.493333	0.461805	1	0	3	0	4	0	14
746	747	60	3	0.493333	0.451422	1	0	3	0	4	0	8
747	748	70	4	0.440000	0.630964	1	0	3	0	0	0	17
748	749	20	3	0.360000	0.562546	1	0	3	0	4	0	15
749	750	50	3	0.240000	0.427318	1	3	3	0	4	0	7
750	751	50	4	0.306667	0.451731	1	3	3	0	0	0	17
751	752	60	3	0.493333	0.386836	1	3	3	0	4	0	8
752	753	20	3	0.626667	0.478677	1	0	3	0	4	0	5
753	754	60	3	0.640000	0.540729	1	3	3	0	4	0	16
754	755	20	3	0.386667	0.397960	1	3	3	0	4	0	12
755	756	50	1	0.026667	0.107478	1	3	3	0	4	0	21
756	757	60	3	0.480000	0.573424	1	0	3	0	4	0	5
757	758	60	3	0.493333	0.625773	1	0	3	0	1	0	19
758	759	50	1	0.493333	0.048764	1	3	3	0	4	0	21
759	760	60	3	0.440000	0.665389	1	0	3	0	4	0	15
760	761	20	3	0.506667	0.470272	1	3	3	0	4	0	12
761	762	30	4	0.373333	0.334981	1	3	3	0	2	0	3
762	763	60	1	0.533333	0.441842	1	3	3	0	4	0	21
763	764	60	3	0.666667	0.490667	1	3	3	0	4	0	15
764	765	120	3	0.493333	0.498022	1	0	3	0	1	0	24
765	766	20	3	0.573333	0.809394	1	0	3	0	4	0	21
766	767	60	3	0.640000	0.551916	1	3	3	0	4	0	14
767	768	50	3	0.573333	0.680902	1	0	3	0	4	0	11
768	769	20	3	0.506667	0.470272	1	3	3	0	4	0	5
769	770	60	3	0.200000	0.493665	1	1	1	0	1	1	22
770	771	85	3	0.493333	0.356057	1	0	3	0	1	0	19
771	772	20	3	0.466667	0.456489	1	3	3	0	4	0	7
772	773	80	3	0.826667	0.391100	1	3	3	0	4	0	7
773	774	20	3	0.506667	0.535167	1	3	3	0	4	0	12
774	775	20	3	0.493333	0.787083	1	3	3	0	0	0	16
775	776	120	4	0.000000	0.185970	1	3	3	0	2	0	11

776	777	20	3	0.720000	0.600680	1	0	3	0	4	0	5
777	778	20	3	0.906667	0.732942	1	0	3	0	4	0	19
778	779	90	2	0.373333	0.427009	1	3	3	0	4	0	20
779	780	90	3	0.613333	0.558653	1	3	3	0	4	0	11
780	781	20	3	0.413333	0.394561	1	3	3	0	4	0	8
781	782	60	3	0.440000	0.349938	1	3	3	0	4	0	20
782	783	20	3	0.466667	0.914339	1	1	3	0	4	0	5
783	784	85	3	0.493333	0.470334	1	0	3	0	0	0	11
784	785	75	4	0.040000	0.297219	1	3	3	0	4	0	17
785	786	20	3	0.493333	0.512917	1	3	3	0	4	0	14
786	787	50	4	0.373333	0.575340	1	3	3	0	4	0	17
787	788	60	3	0.586667	0.534672	1	0	3	0	4	0	20
788	789	20	4	0.240000	0.278677	1	3	3	0	0	0	17
789	790	60	3	0.493333	0.662176	1	0	2	0	4	0	4
790	791	120	3	0.146667	0.104512	1	3	3	0	4	0	0
791	792	80	3	0.493333	0.608282	1	0	3	0	0	0	11
792	793	60	3	0.800000	0.520952	1	0	3	0	1	0	15
793	794	20	3	0.586667	0.473857	1	3	3	0	4	0	21
794	795	60	3	0.493333	0.577318	1	0	3	0	0	0	8
795	796	60	3	0.506667	0.427009	1	3	3	0	4	0	20
796	797	20	3	0.520000	0.414462	1	3	3	0	4	0	19
797	798	20	3	0.333333	0.382324	1	3	3	0	4	0	12
798	799	60	3	0.960000	0.743325	1	3	3	0	4	0	16
799	800	50	3	0.373333	0.352843	1	3	3	0	0	0	18
800	801	60	3	0.626667	0.698826	1	0	1	0	4	1	4
801	802	30	4	0.106667	0.204512	1	3	3	0	4	0	9
802	803	60	3	0.413333	0.414586	1	3	3	0	4	0	5
803	804	60	3	1.000000	0.766378	1	3	3	0	4	0	16
804	805	20	3	0.573333	0.464091	1	3	3	0	4	0	12
805	806	20	3	0.786667	0.666440	1	0	3	0	2	0	21
806	807	80	3	0.573333	0.510445	1	3	3	0	4	0	12
807	808	70	3	0.493333	0.493665	1	3	3	0	4	0	3
808	809	80	3	0.706667	0.736032	1	3	3	0	4	0	12
809	810	75	4	0.773333	0.408467	1	3	3	0	0	0	17
810	811	20	3	0.613333	0.534549	1	3	3	0	4	0	14
811	812	120	4	0.493333	0.182138	1	3	3	0	4	0	5
812	813	20	0	0.453333	0.446292	0	3	0	0	4	1	9
813	814	20	3	0.573333	0.510445	1	3	3	0	4	0	12
814	815	50	3	0.173333	0.417614	1	3	3	0	4	0	7
815	816	20	3	0.213333	0.657973	1	1	3	0	1	0	5
816	817	20	3	0.493333	0.613968	1	0	3	0	0	0	12
817	818	20	3	0.493333	0.727689	1	0	3	0	1	0	11
818	819	80	3	0.640000	0.452719	1	3	3	0	4	0	4
819	820	120	3	0.160000	0.301607	1	0	3	0	4	0	16
820	821	60	3	0.533333	0.354450	1	0	3	0	1	0	5
821	822	20	4	0.373333	0.278677	1	3	0	0	4	1	17
822	823	60	3	0.493333	0.673857	1	0	3	0	0	0	8
823	824	50	3	0.373333	0.519716	1	3	3	0	4	0	18
824	825	20	1	0.653333	0.601051	1	3	3	0	4	0	21
825	826	20	3	0.493333	0.822744	1	3	3	0	4	0	16
826	827	45	4	0.240000	0.286712	1	3	3	0	4	0	3
827	828	20	3	0.440000	0.434981	1	0	3	0	4	0	20
828	829	60	3	0.493333	0.493665	1	1	2	0	1	2	4
829	830	50	1	0.493333	0.065080	1	3	3	0	4	0	21

830	831	20	3	0.640000	0.643325	1	0	3	0	0	0	12
831	832	50	1	0.493333	0.104388	1	3	3	0	4	0	21
832	833	60	3	0.160000	0.497960	1	0	3	0	1	0	5
833	834	20	3	0.906667	0.526143	1	3	3	0	4	0	12
834	835	20	3	0.573333	0.394561	1	3	3	0	4	0	12
835	836	20	3	0.373333	0.501174	1	3	3	0	4	0	19
836	837	30	4	0.773333	0.408467	1	3	3	0	4	0	17
837	838	50	4	0.493333	0.011681	1	3	3	0	4	0	2
838	839	20	3	0.573333	0.496539	1	3	3	0	4	0	5
839	840	50	3	0.506667	0.635105	1	3	3	0	4	0	7
840	841	70	2	0.493333	0.659085	1	0	3	0	4	0	18
841	842	70	4	0.373333	0.553090	1	3	3	0	4	0	17
842	843	80	3	0.666667	0.465328	1	3	3	0	4	0	12
843	844	90	3	0.640000	0.402287	1	3	3	0	0	0	12
844	845	50	4	0.906667	0.690606	1	0	3	0	4	0	17
845	846	85	3	0.493333	0.936712	1	0	3	0	1	0	19
846	847	60	3	0.573333	0.483684	1	3	3	0	4	0	20
847	848	20	3	0.053333	0.867244	1	0	3	0	1	0	5
848	849	50	3	0.573333	0.493665	1	1	0	0	4	0	4
849	850	80	3	0.640000	0.501174	1	3	3	0	2	0	24
850	851	120	4	0.053333	0.181953	1	3	3	0	4	0	5
851	852	120	3	0.493333	0.105377	1	3	3	0	4	0	0
852	853	75	3	0.280000	0.348393	1	3	3	0	4	0	6
853	854	80	3	0.493333	0.655377	1	0	3	0	0	0	12
854	855	20	3	0.933333	0.493665	1	3	3	0	4	0	19
855	856	20	3	0.493333	0.334116	1	0	3	0	0	0	19
856	857	80	3	0.493333	0.585847	1	0	2	0	4	1	5
857	858	60	3	0.440000	0.410012	1	3	3	0	4	0	8
858	859	20	3	0.640000	0.550618	1	3	3	0	4	0	14
859	860	60	3	0.493333	0.589493	1	0	3	0	0	0	14
860	861	50	3	0.306667	0.380161	1	3	3	0	0	0	6
861	862	50	3	0.573333	0.626329	1	3	3	0	4	0	19
862	863	20	3	0.653333	0.505624	1	3	3	0	0	0	20
863	864	20	3	0.506667	0.398022	1	3	3	0	4	0	12
864	865	20	1	0.533333	0.441842	1	3	3	0	4	0	21
865	866	20	3	0.493333	0.448640	1	0	3	0	4	0	12
866	867	20	3	0.466667	0.566440	1	0	1	0	4	0	23
867	868	20	3	0.706667	0.338628	1	3	3	0	0	0	19
868	869	60	3	0.493333	0.820210	1	1	3	0	0	0	8
869	870	60	3	0.640000	0.522064	1	3	3	0	4	0	20
870	871	20	3	0.373333	0.315760	1	3	3	0	4	0	12
871	872	60	3	0.506667	0.448640	1	3	3	0	4	0	5
872	873	20	3	0.560000	0.457417	1	3	3	0	0	0	12
873	874	40	3	0.373333	0.658405	1	3	3	0	4	0	12
874	875	50	4	0.266667	0.261372	1	3	3	0	4	0	17
875	876	60	1	0.573333	0.464091	1	3	3	0	4	0	21
876	877	20	3	0.826667	0.493665	1	3	1	0	4	1	11
877	878	60	3	0.560000	0.453832	1	3	3	0	4	0	16
878	879	85	3	0.746667	0.636032	1	0	3	0	4	0	19
879	880	20	3	0.493333	0.340482	1	0	3	0	1	0	5
880	881	20	3	0.373333	0.341965	1	3	3	0	4	0	7
881	882	50	3	0.160000	0.758158	1	0	3	0	1	0	23
882	883	60	3	0.493333	0.503399	1	0	3	0	0	0	8
883	884	75	3	0.373333	0.291286	1	3	0	0	4	0	18
884	885	20	3	0.440000	0.349753	1	3	3	0	4	0	12

885	886	120	1	0.240000	0.224227	1	0	3	0	1	0	21
886	887	90	3	0.506667	0.426576	1	3	3	0	0	0	12
887	888	50	3	0.360000	0.925525	1	0	3	0	4	0	7
888	889	20	3	0.840000	0.888381	1	0	3	0	4	1	12
889	890	20	3	0.493333	0.659394	1	3	3	0	4	0	12
890	891	50	3	0.373333	0.406242	1	3	3	0	0	0	12
891	892	60	3	0.506667	0.599073	1	3	3	0	4	0	19
892	893	20	3	0.506667	0.427874	1	3	3	0	4	0	19
893	894	20	3	0.493333	0.728863	1	3	3	0	4	0	19
894	895	90	3	0.426667	0.341595	1	3	0	0	4	0	20
895	896	60	3	0.520000	0.343943	1	3	3	0	4	0	12
896	897	30	4	0.240000	0.449567	1	3	3	0	4	0	9
897	898	90	3	0.426667	0.341595	1	3	3	0	4	0	20
898	899	20	3	0.906667	0.706304	1	0	3	0	4	0	16
899	900	20	3	0.440000	0.340049	1	3	3	0	4	0	19
900	901	20	3	0.493333	0.361496	1	0	3	0	4	0	12
901	902	20	3	0.426667	0.446292	1	0	3	0	4	0	12
902	903	60	3	0.413333	0.394561	1	3	3	0	4	0	8
903	904	20	3	0.240000	0.826205	1	0	1	0	1	0	8
904	905	20	3	0.493333	0.289370	1	0	3	0	4	0	19
905	906	20	3	0.640000	0.520952	1	3	3	0	4	0	12
906	907	20	3	0.493333	0.742274	1	0	3	0	0	0	21
907	908	50	3	0.720000	0.618603	1	0	3	0	4	0	6
908	909	20	3	0.493333	0.456984	1	0	2	0	4	1	11
909	910	60	3	0.493333	0.685909	1	1	3	0	4	0	8
910	911	90	3	0.640000	0.624784	1	3	3	0	0	0	12
911	912	20	3	0.493333	0.481768	1	0	3	0	1	1	5
912	913	30	4	0.253333	0.286094	1	3	3	0	4	0	3
913	914	90	2	0.666667	0.295365	1	3	1	0	4	0	6
914	915	50	1	0.493333	0.093263	1	3	3	0	4	0	21
915	916	50	4	0.493333	0.031520	1	3	3	0	4	0	10
916	917	20	0	0.240000	0.464091	1	3	3	0	4	0	9
917	918	20	3	0.493333	0.967182	1	3	3	0	4	0	7
918	919	60	3	0.946667	0.719036	1	0	3	0	0	0	20
919	920	20	3	0.733333	0.589493	1	0	3	0	0	0	12
920	921	60	3	0.506667	0.430841	1	0	3	0	4	0	20
921	922	90	3	0.466667	0.450309	1	3	3	0	4	0	7
922	923	20	3	0.440000	0.540544	1	3	3	0	4	0	8
923	924	120	3	0.240000	0.403028	1	3	3	0	4	0	20
924	925	20	3	0.626667	0.540729	1	3	3	0	4	0	14
925	926	20	3	0.493333	0.872682	1	0	3	0	0	0	14
926	927	60	3	0.813333	0.649444	1	3	3	0	4	0	16
927	928	60	3	0.493333	0.519716	1	3	3	0	4	0	14
928	929	20	3	0.493333	0.639493	1	3	3	0	4	0	5
929	930	60	3	0.493333	0.711681	1	0	3	0	0	0	8
930	931	20	3	0.546667	0.459456	1	0	1	0	4	0	23
931	932	20	3	0.506667	0.470272	1	3	3	0	4	0	12
932	933	20	3	0.693333	0.629110	1	0	3	0	0	0	21
933	934	20	3	0.413333	0.432386	1	3	3	0	2	0	5
934	935	20	3	0.493333	0.493665	1	1	1	0	4	1	12
935	936	30	3	0.266667	0.267862	1	0	3	0	4	0	3
936	937	20	3	0.466667	0.531026	1	3	3	0	4	0	20
937	938	60	3	0.573333	0.505810	1	3	3	0	4	0	21
938	939	60	3	0.546667	0.449258	1	3	3	0	4	0	5
939	940	70	3	0.493333	0.493665	1	3	3	0	4	0	4

940	941	90	3	0.306667	0.689061	1	0	3	0	4	0	11
941	942	60	3	0.493333	0.448949	1	0	3	0	2	0	8
942	943	90	3	0.133333	0.384425	1	0	3	0	4	0	7
943	944	90	3	0.906667	0.493665	1	3	2	0	4	0	11
944	945	20	3	0.493333	0.796292	1	0	3	1	1	0	23
945	946	50	4	0.880000	0.452967	1	3	3	0	0	0	17
946	947	80	3	0.506667	0.412361	1	3	3	0	4	0	12
947	948	20	3	0.706667	0.806242	1	3	3	0	4	0	23
948	949	60	3	0.440000	0.773486	1	0	3	0	4	0	5
949	950	20	3	0.613333	0.486341	1	3	3	0	4	0	14
950	951	20	3	0.373333	0.352843	1	3	3	0	4	0	12
951	952	20	2	0.373333	0.389926	1	3	3	0	0	0	20
952	953	85	3	0.373333	0.352843	1	3	3	0	4	0	5
953	954	60	3	0.493333	0.592336	1	0	3	0	4	1	11
954	955	90	3	0.040000	0.488813	1	0	3	0	1	0	7
955	956	90	2	0.666667	0.348888	1	0	1	0	4	0	6
956	957	50	4	0.493333	0.493619	1	3	3	0	4	0	1
957	958	20	3	0.506667	0.366440	1	3	3	0	4	0	19
958	959	20	3	0.440000	0.430099	1	3	3	0	4	0	5
959	960	50	1	0.493333	0.066811	1	3	3	0	2	0	21
960	961	20	3	0.240000	0.353276	1	0	3	0	4	0	3
961	962	60	3	0.493333	0.663535	1	0	3	0	0	0	14
962	963	50	3	0.493333	0.050494	1	3	3	0	0	0	13
963	964	20	3	0.493333	0.644747	1	0	3	0	0	0	5
964	965	60	3	0.640000	0.607231	1	3	3	0	0	0	23
965	966	60	3	0.440000	0.540544	1	3	3	0	4	0	8
966	967	50	3	0.493333	0.501174	1	0	1	0	4	0	6
967	968	20	3	0.493333	0.364586	1	0	3	0	4	0	12
968	969	50	4	0.240000	0.274042	1	3	3	0	4	0	17
969	970	50	3	0.573333	0.549506	1	3	3	0	4	0	12
970	971	50	3	0.373333	0.575340	1	3	3	0	4	0	12
971	972	50	3	0.053333	0.048022	1	3	3	0	4	0	16
972	973	120	3	0.306667	0.395612	1	3	3	0	4	0	20
973	974	20	1	0.840000	0.627194	1	3	3	0	0	0	21
974	975	70	3	0.373333	0.613288	1	0	3	0	0	0	3
975	976	50	1	0.493333	0.071693	1	3	3	0	2	0	21
976	977	30	3	0.253333	0.272497	1	0	0	0	4	0	3
977	978	120	1	0.040000	0.172002	1	0	3	0	4	0	21
978	979	20	3	0.480000	0.491904	1	3	0	0	4	1	7
979	980	20	3	0.640000	0.452719	1	3	3	0	0	0	19
980	981	85	3	0.493333	0.657046	1	0	3	0	0	0	12
981	982	60	3	0.880000	0.662052	1	0	3	0	0	0	15
982	983	20	3	0.146667	0.104512	1	3	3	0	4	0	0
983	984	60	3	0.493333	0.603152	1	3	3	0	0	0	5
984	985	90	3	0.573333	0.533622	1	3	3	0	4	0	11
985	986	50	3	0.480000	0.580284	1	3	3	0	4	0	7
986	987	50	4	0.360000	0.236032	1	3	3	0	0	0	17
987	988	20	3	0.680000	0.535723	1	0	3	0	4	0	16
988	989	60	3	0.493333	0.652349	1	0	3	0	4	0	14
989	990	60	1	0.440000	0.410012	1	3	3	0	4	0	21
990	991	60	3	0.666667	0.492027	1	3	3	0	4	0	15
991	992	70	4	0.493333	1.000000	1	3	3	0	0	0	17
992	993	60	3	0.640000	0.511063	1	3	3	0	4	1	12
993	994	60	3	0.480000	0.454574	1	3	3	0	4	0	5
994	995	20	3	0.853333	0.677689	1	3	3	0	2	0	16

995	996	50	3	0.253333	0.199073	1	0	3	0	4	1	3
996	997	20	3	0.493333	0.566625	1	0	3	0	4	0	12
997	998	20	3	0.493333	0.632015	1	0	3	0	4	0	14
998	999	30	4	0.373333	0.512670	1	3	3	0	4	0	9
999	1000	20	3	0.426667	0.325773	1	3	3	0	4	0	5
1000	1001	20	3	0.560000	0.538628	1	3	3	0	0	0	7
1001	1002	30	3	0.373333	0.241595	1	3	3	0	0	0	17
1002	1003	20	3	0.573333	0.646848	1	0	3	0	4	0	21
1003	1004	90	3	0.493333	0.618603	1	0	3	0	0	0	14
1004	1005	120	3	0.146667	0.104512	1	3	3	0	4	0	0
1005	1006	80	3	0.440000	0.426082	1	3	3	0	4	0	5
1006	1007	20	3	0.493333	0.659085	1	2	3	0	4	0	12
1007	1008	50	4	0.493333	0.044870	1	3	3	0	4	0	10
1008	1009	20	3	0.146667	0.656799	1	0	3	0	1	0	11
1009	1010	50	3	0.373333	0.278677	1	3	3	0	4	0	18
1010	1011	50	3	0.493333	0.493665	1	3	3	0	4	0	19
1011	1012	90	3	0.573333	0.515080	1	3	3	0	4	0	7
1012	1013	70	3	0.306667	0.562485	1	3	3	0	4	0	6
1013	1014	30	4	0.373333	0.352843	1	3	3	0	4	0	17
1014	1015	20	3	0.373333	0.628739	1	3	3	0	4	0	12
1015	1016	60	3	0.506667	0.427009	1	3	3	0	4	0	14
1016	1017	20	3	0.546667	0.642274	1	3	3	0	4	0	5
1017	1018	120	3	0.493333	0.267182	1	0	3	0	1	0	22
1018	1019	80	3	0.493333	0.574351	1	0	3	0	2	0	8
1019	1020	120	3	0.146667	0.094067	1	3	3	0	4	0	0
1020	1021	20	3	0.373333	0.341965	1	3	3	0	4	0	7
1021	1022	20	3	0.426667	0.365575	1	3	3	0	4	0	5
1022	1023	50	4	0.266667	0.491224	1	3	3	0	4	0	17
1023	1024	120	3	0.146667	0.104512	1	3	3	0	4	0	0
1024	1025	20	3	0.493333	0.865698	1	0	3	0	0	0	23
1025	1026	20	3	0.506667	0.383745	1	3	3	0	0	0	5
1026	1027	20	3	0.546667	0.482633	1	3	3	0	4	0	12
1027	1028	20	3	0.520000	0.496230	1	0	1	0	4	0	23
1028	1029	50	3	0.626667	0.494499	1	3	3	0	4	0	12
1029	1030	50	4	0.493333	0.011681	1	3	3	0	4	0	2
1030	1031	50	2	0.493333	0.345550	1	3	3	0	4	0	18
1031	1032	75	3	0.933333	0.888257	1	3	3	0	0	0	18
1032	1033	60	3	0.493333	0.806551	1	0	3	0	0	0	15
1033	1034	20	3	0.493333	0.410012	1	3	3	0	4	0	5
1034	1035	30	3	0.240000	0.297528	1	3	0	0	4	0	6
1035	1036	20	3	0.493333	0.618603	1	0	3	0	1	0	7
1036	1037	20	3	0.760000	0.705006	1	0	1	0	4	0	23
1037	1038	60	3	0.493333	0.478925	1	3	3	0	4	0	5
1038	1039	50	4	0.493333	0.002596	1	3	3	0	4	0	10
1039	1040	50	4	0.493333	0.493619	1	3	3	0	4	0	10
1040	1041	20	3	0.746667	0.719036	1	3	3	0	0	0	19
1041	1042	60	3	0.493333	0.472126	1	3	3	0	4	0	14
1042	1043	120	3	0.026667	0.240420	1	0	3	0	4	0	16
1043	1044	60	3	0.720000	0.639555	1	3	3	0	4	0	20
1044	1045	20	3	0.640000	0.501174	1	3	3	0	4	0	14
1045	1046	20	3	0.493333	0.753337	1	0	3	0	1	0	7
1046	1047	60	3	0.706667	0.900185	1	0	3	0	4	0	22
1047	1048	20	3	0.333333	0.479234	1	1	3	0	4	0	5
1048	1049	20	3	0.906667	0.493665	1	3	3	0	4	0	11

1049	1050	20	3	0.373333	0.593881	1	3	2	0	4	0	7
1050	1051	20	3	0.546667	0.463659	1	0	3	0	4	0	8
1051	1052	20	3	0.946667	0.598517	1	0	3	0	0	0	5
1052	1053	60	3	0.906667	0.494994	1	3	3	0	0	0	12
1053	1054	20	3	0.480000	0.437021	1	3	3	0	4	1	7
1054	1055	60	3	0.773333	0.610383	1	3	3	0	0	0	5
1055	1056	20	3	0.960000	0.610012	1	3	3	0	4	0	14
1056	1057	120	3	0.146667	0.343696	1	0	3	0	4	0	16
1057	1058	60	3	0.493333	0.493665	1	1	3	0	2	0	15
1058	1059	60	3	0.853333	0.606737	1	0	3	0	4	0	16
1059	1060	50	3	0.493333	0.604697	1	0	1	0	0	1	6
1060	1061	120	3	0.120000	0.211928	1	3	3	0	4	0	22
1061	1062	30	0	0.493333	0.493665	0	3	2	0	4	0	9
1062	1063	50	4	0.706667	0.748393	1	3	3	0	4	0	17
1063	1064	30	4	0.240000	0.278677	1	3	3	0	4	0	17
1064	1065	20	3	0.493333	0.587701	1	0	3	0	1	0	12
1065	1066	60	3	0.640000	0.773115	1	3	3	0	4	1	4
1066	1067	60	3	0.360000	0.392213	1	0	3	0	4	0	8
1067	1068	60	3	0.640000	0.511063	1	3	3	0	4	1	12
1068	1069	50	4	0.133333	0.152843	1	3	3	0	4	0	10
1069	1070	45	3	0.373333	0.501174	1	3	3	0	4	0	12
1070	1071	20	3	0.533333	0.535290	1	3	3	0	4	0	12
1071	1072	60	3	0.613333	0.630964	1	3	3	0	4	0	14
1072	1073	50	3	0.240000	0.376638	1	3	3	0	4	0	7
1073	1074	60	3	0.573333	0.399197	1	0	0	0	0	0	7
1074	1075	20	3	0.560000	0.436650	1	3	3	0	4	0	5
1075	1076	70	3	0.573333	0.719036	1	3	3	0	4	0	6
1076	1077	50	3	0.373333	0.575340	1	3	3	0	4	0	17
1077	1078	20	3	0.493333	0.888690	1	0	3	0	0	0	12
1078	1079	120	4	0.066667	0.181953	1	3	3	0	4	0	5
1079	1080	20	3	0.440000	0.450185	1	3	3	0	4	0	5
1080	1081	20	3	0.640000	0.590173	1	3	3	0	4	0	14
1081	1082	20	3	0.573333	0.371384	1	3	3	0	0	0	19
1082	1083	20	3	0.506667	0.448578	1	3	3	0	4	0	5
1083	1084	20	3	0.640000	0.451731	1	3	3	0	4	0	12
1084	1085	60	3	0.493333	0.713226	1	1	3	0	0	0	8
1085	1086	85	3	0.546667	0.468356	1	3	3	0	4	0	20
1086	1087	50	4	0.493333	0.029852	1	3	3	0	4	0	10
1087	1088	60	1	0.706667	0.561372	1	3	3	0	4	0	21
1088	1089	50	4	0.493333	0.063721	1	3	3	0	4	0	7
1089	1090	120	1	0.066667	0.112794	1	0	3	0	4	0	21
1090	1091	90	3	0.373333	0.435909	1	3	3	0	0	0	12
1091	1092	50	1	0.493333	0.041347	1	3	3	0	4	0	21
1092	1093	50	3	0.373333	0.427009	1	3	0	0	4	0	18
1093	1094	20	3	0.520000	0.478307	1	3	3	0	0	0	12
1094	1095	20	3	0.560000	0.270519	1	3	3	0	4	0	12
1095	1096	20	3	0.613333	0.483684	1	0	3	0	4	0	5
1096	1097	70	4	0.373333	0.333189	1	3	3	0	4	0	9
1097	1098	120	3	0.493333	0.136279	1	3	3	0	4	0	22
1098	1099	50	4	0.240000	0.278677	1	3	3	0	4	0	3
1099	1100	20	3	0.666667	0.642089	1	0	3	0	4	0	14
1100	1101	30	3	0.373333	0.427009	1	3	0	0	4	0	18
1101	1102	20	3	0.386667	0.510939	1	0	3	0	4	0	12
1102	1103	20	3	0.506667	0.340482	1	3	3	0	4	0	12
1103	1104	20	3	0.626667	0.458529	1	3	3	0	0	0	12

1104	1105	50	4	0.493333	0.032447	1	3	3	0	4	0	2
1105	1106	60	3	0.880000	0.665328	1	0	3	0	0	0	15
1106	1107	20	3	0.493333	0.547960	1	0	3	0	0	0	20
1107	1108	60	3	0.493333	0.493665	1	2	1	0	1	0	8
1108	1109	60	3	0.493333	0.406180	1	3	3	0	4	0	8
1109	1110	20	3	1.000000	0.610074	1	0	3	0	4	0	16
1110	1111	60	3	0.493333	0.402287	1	3	3	0	4	0	8
1111	1112	60	3	0.640000	0.555562	1	3	3	0	4	0	14
1112	1113	20	3	0.546667	0.346663	1	0	3	0	0	0	12
1113	1114	20	3	0.453333	0.459333	1	3	3	0	4	0	12
1114	1115	20	3	0.773333	0.241595	1	3	3	0	4	0	17
1115	1116	20	3	0.813333	0.654759	1	3	3	0	4	0	16
1116	1117	80	3	0.493333	0.386836	1	3	3	0	4	0	8
1117	1118	20	3	0.333333	0.511310	1	0	3	0	2	0	19
1118	1119	80	3	0.706667	0.762299	1	3	3	0	4	0	19
1119	1120	20	3	0.506667	0.375093	1	3	3	0	4	0	12
1120	1121	30	4	0.360000	0.418541	1	3	0	0	4	1	9
1121	1122	20	3	0.693333	0.531088	1	3	3	0	4	0	5
1122	1123	20	3	0.493333	0.459518	1	0	3	0	0	0	7
1123	1124	20	3	0.240000	0.489122	1	3	3	0	4	0	7
1124	1125	80	3	0.493333	0.471817	1	0	3	0	4	0	8
1125	1126	20	3	0.373333	0.552719	1	3	3	0	4	0	12
1126	1127	120	3	0.280000	0.135538	1	3	3	0	4	0	0
1127	1128	20	3	0.493333	0.808467	1	2	3	0	0	0	8
1128	1129	60	3	0.360000	0.636897	1	0	3	0	4	0	8
1129	1130	90	4	0.373333	0.352843	1	3	3	0	4	0	17
1130	1131	50	3	0.440000	0.390173	1	3	3	0	4	0	18
1131	1132	20	3	0.413333	0.569901	1	3	3	0	4	0	11
1132	1133	70	4	0.773333	0.519716	1	3	3	0	4	0	17
1133	1134	60	3	0.640000	0.515266	1	0	3	0	4	0	20
1134	1135	60	3	0.333333	0.450062	1	0	1	0	4	0	8
1135	1136	30	4	0.373333	0.289802	1	3	3	0	0	0	3
1136	1137	50	3	0.640000	0.501174	1	3	3	0	4	0	12
1137	1138	50	3	0.293333	0.299815	1	3	3	0	4	0	19
1138	1139	20	3	0.493333	0.514710	1	0	3	0	4	1	11
1139	1140	30	3	0.880000	0.447466	1	0	3	0	4	0	3
1140	1141	20	3	0.373333	0.362114	1	3	3	0	0	0	12
1141	1142	60	3	0.493333	0.544685	1	0	3	0	1	0	14
1142	1143	60	3	0.600000	0.523733	1	3	3	0	4	0	5
1143	1144	20	3	0.493333	0.464091	1	3	3	0	4	0	19
1144	1145	50	3	0.373333	0.660630	1	3	3	0	4	0	7
1145	1146	50	4	0.266667	0.293511	1	3	3	0	4	0	3
1146	1147	20	3	0.493333	0.600062	1	3	3	0	4	0	20
1147	1148	70	3	0.573333	0.649506	1	3	0	0	4	0	6
1148	1149	50	4	0.493333	0.260136	1	3	3	0	4	0	17
1149	1150	70	4	0.240000	0.464091	1	3	3	0	4	0	17
1150	1151	20	3	0.333333	0.419592	1	0	3	0	4	0	12
1151	1152	20	3	0.493333	0.493665	1	3	3	0	4	0	7
1152	1153	20	3	0.773333	0.780222	1	0	3	0	4	0	6
1153	1154	30	4	0.493333	0.271879	1	3	3	0	0	0	9
1154	1155	60	3	0.493333	0.754574	1	0	3	0	4	0	12
1155	1156	20	3	0.773333	0.573362	1	0	3	0	0	0	24
1156	1157	80	3	0.706667	0.485723	1	3	3	0	4	0	12
1157	1158	120	3	0.026667	0.216934	1	0	3	0	4	0	16
1158	1159	20	3	0.800000	0.645303	1	3	3	0	2	0	21

1159	1160	60	3	0.586667	0.471508	1	3	3	0	4	0	14
1160	1161	50	3	0.493333	0.048764	1	3	3	0	4	0	13
1161	1162	20	3	0.493333	0.821199	1	0	2	0	1	0	6
1162	1163	20	3	0.493333	0.447033	1	3	3	0	4	0	19
1163	1164	90	3	0.373333	0.705130	1	3	3	0	4	0	19
1164	1165	80	3	0.493333	0.906428	1	0	3	0	2	0	24
1165	1166	20	3	0.626667	0.497528	1	0	3	0	4	0	16
1166	1167	20	3	0.426667	0.555253	1	0	3	0	0	0	5
1167	1168	60	3	0.346667	0.578554	1	0	3	0	4	0	8
1168	1169	70	3	0.493333	0.756304	1	3	3	0	0	0	7
1169	1170	60	3	0.493333	0.493665	1	0	3	0	1	0	15
1170	1171	80	3	0.586667	0.518480	1	3	3	0	4	0	11
1171	1172	20	3	0.586667	0.471508	1	3	3	0	4	0	12
1172	1173	50	1	0.040000	0.156119	1	0	3	0	4	0	21
1173	1174	50	3	0.493333	0.493665	1	0	0	0	4	0	4
1174	1175	70	3	0.640000	0.931335	1	0	3	0	4	0	6
1175	1176	50	3	0.706667	0.567800	1	3	3	0	4	0	15
1176	1177	20	3	0.066667	0.337454	1	0	3	0	1	0	11
1177	1178	50	4	0.493333	0.151978	1	3	0	0	4	0	17
1178	1179	50	3	0.293333	0.382571	1	0	3	0	2	0	6
1179	1180	20	3	0.600000	0.422991	1	3	3	0	0	0	7
1180	1181	60	3	0.493333	0.598208	1	1	3	0	0	0	23
1181	1182	120	4	0.426667	0.253152	1	0	1	0	4	1	6
1182	1183	60	3	0.493333	0.873424	1	0	3	0	0	0	15
1183	1184	30	3	0.373333	0.575340	1	3	3	0	4	0	17
1184	1185	20	3	0.240000	0.493665	0	3	3	0	4	1	23
1185	1186	50	3	0.373333	0.509703	1	3	3	0	4	0	7
1186	1187	50	3	1.000000	0.563906	1	0	0	0	0	1	17
1187	1188	20	3	0.760000	0.677998	1	3	3	0	0	0	15
1188	1189	60	3	0.480000	0.460074	1	0	3	0	4	0	5
1189	1190	60	3	0.373333	0.371384	1	3	3	0	4	0	8
1190	1191	50	3	0.493333	0.493665	1	3	2	0	4	1	11
1191	1192	50	1	0.493333	0.071323	1	3	3	0	4	0	21
1192	1193	50	4	0.373333	0.501174	1	3	3	0	4	0	17
1193	1194	120	4	0.493333	0.185970	1	3	3	0	2	0	11
1194	1195	60	3	0.640000	0.486588	1	3	3	0	0	0	19
1195	1196	60	3	0.253333	0.404079	1	0	3	0	4	0	8
1196	1197	60	3	0.346667	0.776452	1	0	3	0	4	0	8
1197	1198	75	4	0.440000	0.454821	1	0	0	0	0	0	17
1198	1199	20	3	0.506667	0.470272	1	3	3	0	4	0	5
1199	1200	20	3	0.573333	0.602225	1	3	3	0	4	0	19
1200	1201	20	3	0.520000	0.485909	1	3	3	0	4	0	12
1201	1202	60	3	0.640000	0.550618	1	3	3	0	0	0	5
1202	1203	50	4	0.240000	0.278677	1	3	3	0	0	0	3
1203	1204	20	3	0.573333	0.510445	1	3	3	0	4	0	5
1204	1205	20	3	0.613333	0.534549	1	3	3	0	4	0	14
1205	1206	20	3	0.773333	0.815389	1	0	3	0	1	0	20
1206	1207	20	2	0.493333	0.457911	1	3	3	0	4	0	20
1207	1208	20	3	0.506667	0.472435	1	3	3	0	4	0	5
1208	1209	20	3	0.506667	0.387639	1	3	3	0	4	0	12
1209	1210	20	3	0.706667	0.537145	1	0	3	0	1	0	21
1210	1211	60	3	0.506667	0.601174	1	3	3	0	4	0	20
1211	1212	50	3	0.493333	0.657787	1	0	0	0	4	1	8
1212	1213	30	3	0.240000	0.485105	1	3	3	0	4	0	7
1213	1214	80	3	0.493333	0.541100	1	0	3	0	1	0	19

1214	1215	85	3	0.493333	0.538566	1	0	3	0	4	0	12
1215	1216	20	3	0.893333	0.346292	1	0	3	0	4	0	19
1216	1217	90	4	0.480000	0.459765	1	3	3	0	4	0	19
1217	1218	20	1	0.533333	0.441842	1	3	3	0	4	0	21
1218	1219	50	4	0.266667	0.293511	1	3	3	0	4	0	3
1219	1220	50	4	0.493333	0.011681	1	3	3	0	4	0	2
1220	1221	20	3	0.453333	0.389926	1	0	3	0	4	0	12
1221	1222	20	3	0.306667	0.417738	1	3	3	0	4	0	19
1222	1223	50	3	0.613333	0.556551	1	3	3	0	4	0	12
1223	1224	20	3	0.760000	0.567923	1	3	3	0	4	0	12
1224	1225	60	3	0.373333	0.858653	1	0	3	0	4	0	8
1225	1226	80	3	0.440000	0.555686	1	3	3	0	4	0	12
1226	1227	60	3	0.720000	0.810074	1	0	3	0	1	0	21
1227	1228	20	3	0.533333	0.456180	1	3	3	0	0	0	12
1228	1229	120	3	0.440000	0.449815	1	3	3	0	0	0	16
1229	1230	80	3	0.506667	0.396724	1	3	3	0	4	0	12
1230	1231	90	3	0.493333	0.493665	1	0	3	0	4	0	19
1231	1232	90	3	0.506667	0.385476	1	3	3	0	4	0	12
1232	1233	90	3	0.506667	0.516131	1	3	3	0	2	0	12
1233	1234	20	3	0.493333	0.659394	1	0	3	0	4	0	12
1234	1235	70	2	0.306667	0.434734	1	3	0	0	4	0	18
1235	1236	70	3	0.853333	0.719468	1	3	3	0	4	0	6
1236	1237	50	3	0.053333	0.070272	1	3	3	0	4	0	16
1237	1238	60	3	0.120000	0.673795	1	1	3	0	2	0	5
1238	1239	20	3	0.413333	0.715760	1	3	3	0	4	0	20
1239	1240	20	3	0.426667	0.466378	1	0	1	0	4	0	23
1240	1241	60	3	0.440000	0.412052	1	3	3	0	4	0	5
1241	1242	20	3	0.680000	0.516564	1	3	3	0	4	0	21
1242	1243	85	3	0.706667	0.564524	1	3	3	0	4	0	14
1243	1244	20	3	1.000000	0.766378	1	3	3	0	4	0	16
1244	1245	70	3	0.493333	0.614586	1	0	1	0	0	1	6
1245	1246	80	3	0.613333	0.655068	1	3	3	0	4	0	14
1246	1247	60	1	0.440000	0.410012	1	3	3	0	4	0	21
1247	1248	80	3	0.493333	0.669778	1	0	3	0	4	0	11
1248	1249	75	4	0.373333	0.501174	1	3	3	0	4	0	17
1249	1250	20	3	0.373333	0.352843	1	3	3	0	4	0	12
1250	1251	20	3	0.813333	0.597590	1	3	3	0	0	0	12
1251	1252	120	3	0.493333	0.101669	1	0	3	0	0	0	16
1252	1253	20	3	0.400000	0.517120	1	3	3	0	4	0	11
1253	1254	60	3	0.493333	0.992027	1	0	3	0	4	0	24
1254	1255	60	3	0.373333	0.336218	1	3	3	0	4	0	7
1255	1256	50	4	0.266667	0.293511	1	3	3	0	4	0	3
1256	1257	20	3	0.786667	0.791842	1	0	3	0	0	0	15
1257	1258	30	3	0.320000	0.158776	1	3	3	0	0	0	7
1258	1259	80	3	0.360000	0.500371	1	0	3	0	4	0	8
1259	1260	20	3	0.440000	0.510445	1	3	3	0	2	0	12
1260	1261	60	3	0.493333	0.493665	1	2	3	0	1	0	8
1261	1262	20	3	0.640000	0.501174	1	3	3	0	4	0	12
1262	1263	50	3	0.493333	0.603152	1	3	3	0	4	0	4
1263	1264	70	3	0.373333	0.743140	1	3	3	0	4	0	3
1264	1265	120	2	0.026667	0.158776	1	3	3	0	4	0	12
1265	1266	50	1	0.040000	0.138690	1	3	3	0	3	0	21
1266	1267	50	4	0.373333	0.533313	1	0	0	0	4	0	17
1267	1268	20	3	0.760000	0.724536	1	0	1	0	4	0	23

1268	1269	50	3	0.493333	0.779295	1	0	3	0	4	1	6
1269	1270	50	3	0.613333	0.608962	1	3	3	0	4	0	12
1270	1271	40	3	0.493333	0.493665	1	3	2	0	4	2	4
1271	1272	20	3	0.493333	0.473733	1	0	3	0	4	0	14
1272	1273	20	3	0.493333	0.743820	1	0	3	0	1	0	19
1273	1274	80	3	0.493333	0.619345	1	0	3	0	0	0	7
1274	1275	50	3	0.280000	0.239246	1	3	3	0	0	0	6
1275	1276	90	3	0.840000	0.609023	1	3	3	0	0	0	12
1276	1277	60	3	0.493333	0.707355	1	0	3	0	1	0	14
1277	1278	80	3	0.493333	0.493665	1	0	3	0	1	0	14
1278	1279	60	3	0.573333	0.493325	1	3	3	0	4	0	5
1279	1280	50	0	0.373333	0.371384	1	3	3	0	4	0	9
1280	1281	20	3	0.466667	0.514030	1	0	3	0	4	0	5
1281	1282	20	3	0.240000	0.405315	1	0	3	0	1	0	23
1282	1283	20	3	0.386667	0.451731	1	0	3	0	4	0	5
1283	1284	90	3	0.826667	0.488813	1	3	2	0	0	0	11
1284	1285	50	3	0.240000	0.503523	1	3	3	0	4	0	18
1285	1286	50	4	0.240000	0.278677	1	3	3	0	4	0	3
1286	1287	20	3	0.493333	0.512917	1	3	3	0	4	0	14
1287	1288	20	3	0.493333	0.493665	1	0	2	0	4	1	4
1288	1289	120	3	0.106667	0.257911	1	0	3	0	4	0	22
1289	1290	60	3	0.720000	0.591718	1	0	3	0	4	0	16
1290	1291	80	3	0.493333	0.780037	1	0	3	0	0	0	12
1291	1292	50	4	0.493333	0.011681	1	3	3	0	4	0	2
1292	1293	70	4	0.373333	0.315760	1	3	3	0	0	0	17
1293	1294	60	3	0.613333	0.534549	1	3	3	0	4	0	14
1294	1295	20	3	0.373333	0.412917	1	3	3	0	4	0	7
1295	1296	20	3	0.506667	0.427009	1	3	3	0	4	0	12
1296	1297	20	3	0.640000	0.445550	1	3	3	0	4	0	12
1297	1298	50	4	0.040000	0.134981	1	3	3	0	4	0	7
1298	1299	60	3	0.493333	0.493665	1	2	0	0	0	0	7
1299	1300	20	3	0.573333	0.371384	1	3	3	0	4	0	12
1300	1301	60	3	0.493333	0.572991	1	0	3	0	1	0	8
1301	1302	70	3	0.493333	0.371384	1	0	0	0	4	0	6
1302	1303	60	3	0.800000	0.533313	1	3	3	0	4	0	15
1303	1304	20	3	0.546667	0.444808	1	3	3	0	4	0	21
1304	1305	50	4	0.000000	0.115698	1	3	3	0	4	0	7
1305	1306	20	3	0.493333	0.722002	1	0	3	0	0	0	16
1306	1307	120	3	0.213333	0.337701	1	0	3	0	4	0	16
1307	1308	20	3	0.373333	0.406737	1	3	3	0	4	0	5
1308	1309	20	4	0.906667	0.649506	1	3	3	0	4	0	17
1309	1310	20	3	0.493333	0.349938	1	3	3	0	4	0	20
1310	1311	20	3	0.906667	0.989431	1	3	3	0	4	0	6
1311	1312	20	3	0.480000	0.452596	1	3	3	0	4	0	5
1312	1313	60	3	0.493333	0.499444	1	0	3	0	4	0	15
1313	1314	60	3	0.493333	0.820952	1	0	3	0	0	0	15
1314	1315	20	3	0.373333	0.414030	1	3	3	0	4	0	7
1315	1316	60	3	0.706667	0.592336	1	3	3	0	4	0	12
1316	1317	20	3	0.386667	0.539864	1	0	3	0	4	0	5
1317	1318	120	1	0.200000	0.169283	1	3	3	0	0	0	21
1318	1319	20	3	0.493333	0.821384	1	1	3	0	1	0	5
1319	1320	20	3	0.573333	0.539184	1	3	0	0	4	0	7
1320	1321	20	3	0.506667	0.427009	1	3	3	0	4	0	12
1321	1322	20	3	0.493333	0.317429	1	0	3	0	0	0	3
1322	1323	60	3	1.000000	0.537392	1	0	3	0	4	0	15

1323	1324	30	3	0.240000	0.237268	1	3	1	0	4	0	3
1324	1325	20	3	0.573333	0.525031	1	3	3	0	4	0	21
1325	1326	30	4	0.106667	0.132571	1	3	3	0	4	0	9
1326	1327	30	2	0.506667	0.171755	1	3	0	0	4	1	7
1327	1328	20	3	0.373333	0.315760	1	3	3	0	4	0	11
1328	1329	50	4	0.373333	0.553090	1	3	3	0	0	0	17
1329	1330	60	3	0.413333	0.469283	1	0	3	0	4	0	8
1330	1331	20	3	0.706667	0.525896	1	3	3	0	4	0	21
1331	1332	80	3	0.306667	0.574104	1	0	3	0	4	0	5
1332	1333	20	3	0.466667	0.456489	1	3	3	0	4	1	7
1333	1334	50	4	0.373333	0.352843	1	3	3	0	0	0	9
1334	1335	50	4	0.493333	0.054203	1	3	3	0	4	0	2
1335	1336	20	3	0.640000	0.504265	1	3	3	0	4	0	14
1336	1337	90	3	0.733333	0.479295	1	0	3	0	4	0	14
1337	1338	30	4	0.493333	0.162361	1	0	0	0	0	1	17
1338	1339	60	3	0.840000	0.739122	1	0	3	0	0	0	5
1339	1340	20	3	0.493333	0.498702	1	0	3	0	0	0	5
1340	1341	20	3	0.506667	0.420457	1	3	3	0	4	0	12
1341	1342	20	3	0.453333	0.754265	1	3	3	0	4	0	20
1342	1343	60	3	0.493333	0.487268	1	3	3	0	4	0	5
1343	1344	50	3	0.333333	0.374969	1	3	0	0	4	0	6
1344	1345	60	3	0.706667	0.594067	1	0	3	0	0	0	5
1345	1346	30	4	0.240000	0.278677	1	3	3	0	4	0	17
1346	1347	20	3	0.493333	0.493665	1	1	3	0	1	0	14
1347	1348	20	3	0.813333	0.853832	1	0	1	0	0	0	23
1348	1349	20	3	0.493333	0.908838	1	2	2	0	4	0	20
1349	1350	70	4	0.240000	0.232324	1	3	3	0	4	0	17
1350	1351	90	3	0.786667	0.627441	1	3	3	0	4	0	12
1351	1352	60	3	0.506667	0.479357	1	0	3	0	4	0	12
1352	1353	50	4	0.240000	0.278677	1	3	3	0	4	0	3
1353	1354	50	3	0.320000	0.817614	1	0	3	0	1	0	15
1354	1355	60	3	0.493333	0.545426	1	0	3	0	4	0	5
1355	1356	80	3	0.933333	0.537763	1	0	3	0	4	0	14
1356	1357	20	3	0.493333	0.493572	1	3	3	0	0	0	12
1357	1358	20	3	0.493333	0.682695	1	0	3	0	1	0	12
1358	1359	50	1	0.493333	0.038690	1	3	3	0	4	0	21
1359	1360	20	3	0.493333	0.942274	1	3	3	0	3	0	16
1360	1361	70	3	0.253333	0.516131	1	3	3	0	4	0	18
1361	1362	20	3	0.493333	0.906489	1	0	2	0	4	1	22
1362	1363	50	3	0.493333	0.681211	1	0	3	0	2	0	12
1363	1364	60	3	0.546667	0.433127	1	0	3	0	4	0	8
1364	1365	50	1	0.493333	0.104388	1	3	3	0	4	0	21
1365	1366	60	1	0.493333	0.371384	1	3	3	0	4	0	21
1366	1367	60	3	0.480000	0.475155	1	0	3	0	4	0	5
1367	1368	50	4	0.120000	0.072559	1	3	3	0	4	0	10
1368	1369	120	4	0.493333	0.181953	1	3	3	0	4	0	5
1369	1370	20	3	0.213333	0.565142	1	1	3	0	2	0	5
1370	1371	50	3	0.773333	0.241595	1	3	3	0	0	0	17
1371	1372	80	3	0.640000	0.501174	1	3	3	0	4	0	12
1372	1373	60	3	0.573333	0.510445	1	3	3	0	0	0	5
1373	1374	20	3	0.493333	0.612423	1	3	3	0	4	0	15
1374	1375	60	1	0.706667	0.564524	1	3	3	0	4	0	21
1375	1376	20	3	0.760000	0.587145	1	0	1	0	4	0	23
1376	1377	30	3	0.266667	0.296724	1	3	0	0	4	0	18
1377	1378	50	3	0.373333	0.587577	1	3	3	0	4	0	7

1378	1379	50	4	0.493333	0.028554	1	3	3	0	4	0	2
1379	1380	80	3	0.546667	0.509518	1	3	3	0	4	0	23
1380	1381	30	3	0.173333	0.415389	1	3	3	0	4	0	7
1381	1382	20	3	0.493333	0.706675	1	0	3	0	0	0	12
1382	1383	70	4	0.373333	0.352843	1	3	3	0	0	0	17
1383	1384	30	3	0.493333	0.493665	1	3	3	0	4	0	19
1384	1385	50	3	0.373333	0.467800	1	3	3	0	4	0	7
1385	1386	50	4	0.106667	0.243820	1	3	3	0	4	0	9
1386	1387	60	3	0.640000	0.939493	1	0	3	0	4	0	14
1387	1388	50	4	0.373333	0.434425	1	3	3	0	4	0	17
1388	1389	20	3	0.133333	0.828245	1	0	1	0	1	0	8
1389	1390	50	4	0.373333	0.278677	1	3	3	0	4	0	3
1390	1391	20	3	0.506667	0.470272	1	3	3	0	4	0	5
1391	1392	90	3	0.440000	0.460630	1	3	3	0	4	0	12
1392	1393	85	3	0.480000	0.392274	1	3	3	0	4	0	12
1393	1394	50	4	0.373333	0.575340	1	3	3	0	4	0	17
1394	1395	120	3	0.280000	0.157849	1	3	3	0	4	0	0
1395	1396	60	3	0.746667	0.690606	1	0	3	0	4	0	23
1396	1397	20	3	0.493333	0.493665	1	0	0	0	4	2	23
1397	1398	70	4	0.253333	0.286094	1	3	3	0	4	0	3
1398	1399	50	3	0.373333	0.352843	1	3	3	0	4	0	12
1399	1400	50	3	0.253333	0.289246	1	3	3	0	4	0	18
1400	1401	50	4	0.240000	0.278677	1	3	3	0	0	0	3
1401	1402	60	3	0.400000	0.366131	1	0	3	0	4	0	8
1402	1403	20	3	0.426667	0.325773	1	3	3	0	4	0	5
1403	1404	20	3	0.226667	0.850742	1	0	3	0	1	0	21
1404	1405	50	3	0.373333	0.551236	1	3	3	0	0	0	17
1405	1406	120	4	0.160000	0.145303	1	0	1	0	4	1	6
1406	1407	85	3	0.506667	0.429790	1	3	3	0	0	0	5
1407	1408	20	3	0.493333	0.450494	1	0	3	0	0	0	11
1408	1409	70	4	0.373333	0.386218	1	3	3	0	4	0	17
1409	1410	60	3	0.186667	0.493665	1	0	3	0	1	0	14
1410	1411	60	3	0.626667	0.675464	1	3	3	0	4	0	5
1411	1412	50	3	0.640000	0.501174	1	3	3	0	4	0	12
1412	1413	90	3	0.373333	0.352843	1	3	3	0	4	0	12
1413	1414	20	3	0.746667	0.587330	1	0	3	0	0	0	20
1414	1415	50	3	0.426667	0.714586	1	3	0	0	4	0	3
1415	1416	120	3	0.253333	0.132509	1	3	3	0	4	0	0
1416	1417	50	4	0.373333	0.608714	1	3	3	0	4	0	17
1417	1418	60	3	0.493333	0.930408	1	0	3	0	4	0	15
1418	1419	20	3	0.520000	0.476700	1	3	3	0	4	0	12
1419	1420	20	3	0.493333	0.920272	1	0	3	0	4	0	6
1420	1421	60	3	0.773333	0.630964	1	3	3	0	0	0	14
1421	1422	120	3	0.280000	0.157726	1	3	3	0	4	0	13
1422	1423	120	4	0.066667	0.181953	1	3	3	0	4	0	5
1423	1424	80	3	0.493333	0.493665	1	0	3	0	1	0	7
1424	1425	20	3	0.493333	0.495179	1	3	3	0	4	0	12
1425	1426	20	3	0.640000	0.570457	1	0	3	0	4	0	12
1426	1427	60	3	0.653333	0.584240	1	0	3	0	4	0	15
1427	1428	50	3	0.373333	0.583375	1	3	0	0	4	0	12
1428	1429	30	4	0.373333	0.352843	1	3	3	0	0	0	17
1429	1430	20	3	0.493333	0.683251	1	0	3	0	0	0	14
1430	1431	60	3	0.373333	0.493665	1	2	3	0	4	0	8
1431	1432	120	3	0.493333	0.212423	1	0	3	0	4	0	13
1432	1433	30	3	0.373333	0.575340	1	3	3	0	4	0	17

1433	1434	60	3	0.813333	0.542027	1	0	3	0	4	0	8
1434	1435	20	3	0.640000	0.983251	1	3	2	0	4	1	11
1435	1436	20	3	0.640000	0.427009	1	3	3	0	4	0	12
1436	1437	20	3	0.373333	0.464091	1	3	3	0	2	0	12
1437	1438	20	3	0.853333	0.676947	1	3	3	0	2	0	16
1438	1439	20	4	0.773333	0.365637	1	3	3	0	4	0	17
1439	1440	60	3	0.640000	0.623795	1	3	3	0	4	0	14
1440	1441	70	3	0.626667	0.620210	1	0	0	0	4	1	6
1441	1442	120	4	0.493333	0.181397	1	3	3	0	4	0	5
1442	1443	60	1	0.706667	0.587886	1	3	3	0	4	0	21
1443	1444	30	3	0.493333	0.455068	1	3	3	0	4	0	3
1444	1445	20	3	0.413333	0.433189	1	3	3	0	2	0	5
1445	1446	85	3	0.506667	0.427009	1	3	3	0	4	0	19
1446	1447	20	3	0.493333	0.493665	1	0	3	0	1	0	11
1447	1448	60	3	0.640000	0.525896	1	3	3	0	4	0	5
1448	1449	50	3	0.506667	0.635105	1	3	3	0	4	0	7
1449	1450	50	4	0.493333	0.002596	1	3	3	0	4	0	10
1450	1451	90	3	0.373333	0.464091	1	3	3	0	2	0	12
1451	1452	20	3	0.613333	0.480284	1	3	3	0	4	0	21
1452	1453	50	4	0.040000	0.134981	1	3	3	0	4	0	7
1453	1454	20	3	0.773333	0.971941	1	3	3	0	4	0	11
1454	1455	20	1	0.400000	0.371384	1	3	3	0	4	0	21
1455	1456	60	3	0.400000	0.397157	1	3	3	0	4	0	8
1456	1457	20	3	0.706667	0.722126	1	3	3	0	4	0	14
1457	1458	70	3	0.453333	0.466687	1	3	3	0	4	0	6
1458	1459	20	3	0.480000	0.508405	1	3	3	0	4	0	12
1459	1460	20	3	0.573333	0.522002	1	3	3	0	4	0	7

In [103…

```
data3.drop(['SalePrice'],axis=1).corr()
```

Out[103]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	LotShape	LandContour	Utilities	LotConfig	LandSl
Id	1.000000	0.022669	-0.006096	-0.026904	-0.010489	0.008916	0.032122	-0.019659	0.013324	0.049756	0.005
MSSubClass	0.022669	1.000000	0.044591	-0.226659	-0.240228	-0.003689	0.000505	-0.012909	-0.026397	0.034354	-0.019
MSZoning	-0.006096	0.044591	1.000000	-0.115944	-0.085447	0.087654	0.061887	-0.017854	-0.001192	-0.009895	-0.022
LotFrontage	-0.026904	-0.226659	-0.115944	1.000000	0.437289	0.006778	-0.084038	0.047286	0.000390	-0.095981	0.001
LotArea	-0.010489	-0.240228	-0.085447	0.437289	1.000000	-0.006064	-0.293777	0.025698	0.042741	-0.183391	0.023
Street	0.008916	-0.003689	0.087654	0.006778	-0.006064	1.000000	-0.010224	0.115995	0.001682	0.013960	-0.179
LotShape	0.032122	0.000505	0.061887	-0.084038	-0.293777	-0.010224	1.000000	0.085434	-0.036101	0.221102	-0.099
LandContour	-0.019659	-0.012909	-0.017854	0.047286	0.025698	0.115995	0.085434	1.000000	0.008238	-0.025527	-0.374
Utilities	0.013324	-0.026397	-0.001192	0.000390	0.042741	0.001682	-0.036101	0.008238	1.000000	-0.032589	-0.005
LotConfig	0.049756	0.034354	-0.009895	-0.095981	-0.183391	0.013960	0.221102	-0.025527	-0.032589	1.000000	-0.007
LandSlope	0.005847	-0.019640	-0.022055	0.001928	0.023538	-0.179360	-0.099951	-0.374267	-0.005909	-0.007256	1.000
Neighborhood	-0.013735	-0.018281	-0.249679	0.102255	0.132240	-0.011561	-0.038894	0.019116	0.046809	-0.036597	-0.080
Condition1	-0.003815	-0.006604	-0.027874	-0.009377	0.079173	-0.071657	-0.115003	0.024801	-0.000950	0.021457	-0.016
Condition2	0.001839	-0.001466	0.044606	-0.033924	0.007597	0.002039	-0.043768	-0.016185	-0.000831	0.033868	-0.026
BldgType	0.021912	0.578155	0.005690	-0.326581	-0.529634	-0.018243	0.116262	0.051143	-0.010778	0.107229	-0.053
HouseStyle	0.018111	0.378664	-0.105315	0.149530	0.017684	0.023704	-0.104026	0.075234	0.054283	-0.032945	-0.031
OverallQual	-0.028365	0.161724	-0.160099	0.218761	0.234919	0.058823	-0.190497	0.028907	-0.001881	-0.031086	-0.066
OverallCond	-0.007037	-0.113781	0.132219	-0.050483	-0.010044	0.048124	0.001134	-0.051587	0.019767	-0.050959	0.004
YearBuilt	-0.006592	0.100362	-0.296172	0.171097	0.105490	0.022623	-0.224458	0.170275	-0.012179	0.007384	-0.078
YearRemodAdd	-0.021998	0.096634	-0.174728	0.066307	0.074317	0.065465	-0.153825	0.093374	-0.034080	-0.005161	-0.059
RoofStyle	0.038675	-0.106445	-0.000301	0.153157	0.140367	-0.019732	0.003182	-0.004246	-0.012868	-0.010364	-0.027
RoofMatl	-0.022562	-0.009026	0.005133	0.078547	0.052787	0.008081	-0.071174	-0.020229	-0.003293	-0.068465	0.178
Exterior1st	-0.034694	-0.014392	-0.008558	-0.015588	0.090030	0.002505	-0.020463	-0.011809	-0.029686	0.023316	-0.045
Exterior2nd	-0.042847	-0.027864	0.006963	-0.016928	0.099880	0.006166	-0.027951	-0.034082	-0.032100	0.005546	-0.032

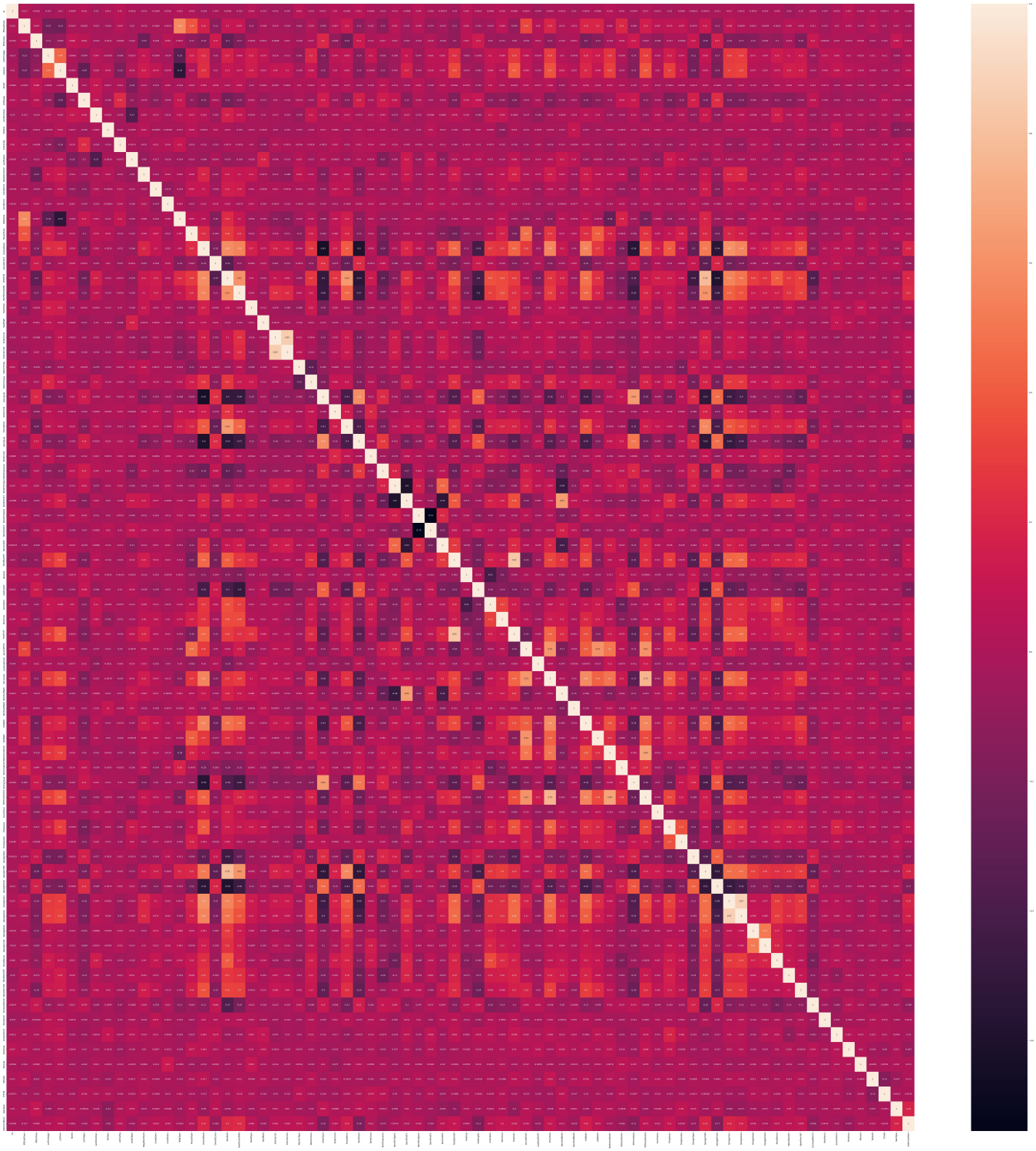
MasVnrType	0.051971	-0.061253	-0.028279	-0.091266	-0.026225	0.010007	0.007946	-0.076066	-0.032501	0.001826	0.034
MasVnrArea	-0.019109	0.027770	0.016645	0.204629	0.096281	0.004231	-0.057326	0.112876	-0.015580	0.002582	-0.036
ExterQual	0.001689	-0.092807	0.200536	-0.160027	-0.146863	0.049976	0.148818	-0.003613	0.017369	-0.002503	0.021
ExterCond	0.029826	0.042612	-0.096041	0.073582	0.029547	0.005874	-0.029497	0.009804	0.009535	0.034898	0.000
Foundation	0.008514	0.121661	-0.235174	0.086982	0.062116	0.035277	-0.135124	0.053478	-0.014377	-0.011755	-0.027
BsmtQual	0.051070	-0.113710	0.128245	-0.136030	-0.146451	-0.028731	0.161208	-0.003311	0.021807	0.022063	0.010
BsmtCond	0.006762	-0.022121	-0.010528	0.105932	-0.000914	-0.018054	-0.012226	0.023160	0.007358	0.033823	0.002
BsmtExposure	-0.024613	-0.129753	0.037209	-0.093198	-0.124710	0.072488	0.140506	0.044562	0.016465	0.015969	-0.165
BsmtFinType1	0.014204	0.054820	0.024688	-0.055798	-0.041422	-0.013182	0.090615	-0.073443	-0.011255	0.018824	-0.063
BsmtFinSF1	-0.008841	-0.041045	-0.051844	0.104471	0.174015	-0.018433	-0.122864	0.025076	-0.019949	-0.008044	0.128
BsmtFinType2	0.045159	0.048381	-0.031718	-0.047324	-0.042806	0.061285	0.026349	-0.030755	-0.020259	-0.002301	-0.064
BsmtFinSF2	-0.005968	-0.073659	0.028086	0.065369	0.058005	-0.038487	-0.039738	0.008595	0.049913	-0.010357	0.085
BsmtUnfSF	-0.000725	-0.039179	-0.048375	0.062963	0.054740	0.034405	-0.018013	0.008611	-0.012128	-0.012542	-0.112
TotalBsmtSF	-0.030124	-0.115389	-0.103520	0.233338	0.330366	0.006419	-0.163614	0.048822	-0.018278	-0.033832	0.023
Heating	0.042120	0.051600	0.056866	-0.064589	-0.024008	0.007904	0.075894	0.015746	-0.003221	-0.000024	0.005
HeatingQC	0.002157	-0.052463	0.134279	-0.009190	-0.060901	-0.053995	0.096248	-0.066276	0.006950	-0.010217	0.035
CentralAir	0.009821	-0.039317	-0.049523	0.104009	0.088667	0.069869	-0.115256	0.105410	0.006907	-0.003729	-0.010
Electrical	0.037632	0.067602	-0.070818	0.083546	0.041667	0.021324	-0.097017	0.082650	-0.091728	-0.025353	-0.014
fristFlrSF	0.009622	-0.093620	-0.059990	0.278717	0.397363	0.002914	-0.163023	-0.008187	0.015393	-0.037543	0.082
secondFlrSF	0.002400	0.326800	-0.051671	0.084723	0.088781	0.047014	-0.052159	-0.036522	-0.020846	-0.040423	-0.007
LowQualFinSF	-0.044230	0.040470	0.011520	0.003370	-0.018666	0.007724	0.020626	-0.098352	-0.003148	-0.004992	0.013
GrLivArea	-0.009078	0.191271	-0.105432	0.289336	0.365683	0.046458	-0.168740	-0.015157	-0.007795	-0.058932	0.040
BsmtFullBath	0.002289	0.013546	-0.018526	0.030434	0.080963	-0.050524	-0.076178	0.009773	-0.021467	-0.012951	0.116
BsmtHalfBath	-0.020155	0.032702	0.007193	-0.004495	0.031829	0.015485	-0.026824	0.019061	0.103380	-0.009927	0.070
FullBath	0.005587	0.193002	-0.198290	0.176478	0.203050	0.046471	-0.159390	0.050363	-0.026862	-0.007531	-0.046
HalfBath	0.006784	0.195707	-0.133876	0.136356	0.096056	0.027628	-0.111072	0.029727	-0.019939	-0.025804	0.000
BedroomAbvGr	0.037719	0.005961	-0.016471	0.257088	0.294731	0.028865	-0.050214	-0.040851	0.004288	-0.056574	-0.048
KitchenAbvGr	0.002951	0.208767	0.049434	0.008541	-0.021169	0.013583	0.092520	-0.038959	-0.005536	-0.002500	-0.036
KitchenQual	-0.004432	-0.064157	0.128976	-0.136713	-0.151281	-0.025307	0.122182	0.030813	-0.010717	-0.010437	-0.002
TotRmsAbvGrd	0.027239	0.152245	-0.043200	0.294038	0.374779	0.046828	-0.119250	-0.053458	0.007769	-0.049246	-0.033
Functional	-0.001064	0.067289	-0.095722	0.018925	0.020358	-0.016444	-0.029321	0.036113	0.006702	-0.021119	-0.106
Fireplaces	-0.019772	0.075763	-0.011349	0.152613	0.296583	-0.005348	-0.194285	-0.052239	0.015721	-0.061043	0.123
FireplaceQu	0.004644	0.079443	-0.009943	0.074426	0.103562	0.003830	-0.125077	0.027726	-0.011258	-0.039807	0.060
GarageType	0.000195	-0.007449	0.116007	-0.211306	-0.215171	0.001517	0.168451	-0.076679	-0.003099	0.011562	-0.001
GarageYrBlt	-0.000122	0.117198	-0.263772	0.090824	0.043096	0.024339	-0.184599	0.118517	-0.022470	-0.001963	-0.072
GarageFinish	-0.011390	-0.120226	0.167501	-0.170371	-0.190405	-0.008277	0.231392	-0.084288	-0.007380	0.024764	0.025
GarageCars	0.016570	0.083879	-0.157042	0.280912	0.295312	-0.020025	-0.183906	0.045769	0.008161	-0.066967	-0.002
GarageArea	0.002206	0.009929	-0.170195	0.291102	0.318273	0.014807	-0.187183	0.058712	0.008007	-0.070431	-0.008
GarageQual	-0.003230	0.001136	-0.150802	0.071271	0.046680	-0.013853	-0.093127	0.008759	0.005646	0.023167	0.015
GarageCond	-0.018025	-0.004935	-0.083272	0.053616	0.025105	-0.011950	-0.067882	0.004346	0.004870	0.031285	-0.016
PavedDrive	0.005971	-0.002179	-0.100366	0.134143	0.079491	0.024521	-0.113698	0.140921	0.007586	-0.045058	-0.024
WoodDeckSF	-0.049580	0.046326	-0.014755	0.101961	0.156114	0.039173	-0.141731	0.024754	-0.020308	-0.012486	0.050
OpenPorchSF	-0.019737	0.036215	-0.176483	0.125540	0.141176	0.032983	-0.078426	0.062217	0.050459	-0.009916	-0.044
EnclosedPorch	0.002889	0.010866	0.115509	-0.061203	-0.022727	0.023082	0.078213	-0.058742	-0.009407	-0.070429	-0.008
3SsnPorch	-0.046635	-0.030646	0.000362	0.072964	0.046030	0.007473	-0.036459	-0.021404	-0.003046	-0.030479	0.008
ScreenPorch	0.001330	0.020007	0.019089	0.063185	0.093993	-0.033160	-0.053054	0.003836	0.102365	-0.004657	0.052
PoolArea	0.057044	0.033217	-0.003128	0.020210	0.047038	0.004413	-0.020051	-0.013098	-0.001798	-0.046798	-0.015
MiscVal	-0.006242	-0.013868	0.009293	0.003522	0.038581	-0.022733	-0.042061	0.020912	-0.002296	-0.018427	-0.003
MoSold	0.021172	0.050456	-0.031496	0.021218	0.005780	0.003690	-0.033455	-0.011599	-0.051552	0.018902	0.007
YrSold	0.000712	-0.019514	-0.020628	0.011053	-0.019429	-0.025043	0.036449	0.020507	0.023353	-0.005992	-0.002
SaleType	0.019773	0.016947	0.097437	-0.058064	-0.012186	0.014339	-0.000911	-0.025754	-0.126770	0.014325	0.054
SaleCondition	-0.005806	-0.016726	0.009494	0.035026	0.061989	0.006064	-0.038118	0.033809	-0.089701	0.051579	-0.043

In [104…

```
plt.figure(figsize=(100,100))
```

```
sns.heatmap(data3.drop(['SalePrice'],axis=1).corr(),annot=True)
```

Out[104]: <AxesSubplot:>



Model Selection

In [105…
```
data3.head()
```

Out[105]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborhood	Condi
0	1	60	3	0.440000	0.430099	1	3	3	0	4	0	5	
1	2	20	3	0.640000	0.501174	1	3	3	0	2	0	24	
2	3	60	3	0.480000	0.603152	1	0	3	0	4	0	5	
3	4	70	3	0.373333	0.498084	1	0	3	0	0	0	6	
4	5	60	3	0.693333	0.789184	1	0	3	0	2	0	15	

In [106…
```
x=data.drop(['SalePrice','Id'],axis=1)
```

In [107…
```
x
```

Out[107]:

	MSSubClass	MSZoning	LotFrontage	LotArea	Street	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborhood	Condi

0	60	3	0.440000	0.430099	1	3	3	0	4	0	5
1	20	3	0.640000	0.501174	1	3	3	0	2	0	24
2	60	3	0.480000	0.603152	1	0	3	0	4	0	5
3	70	3	0.373333	0.498084	1	0	3	0	0	0	6
4	60	3	0.693333	0.789184	1	0	3	0	2	0	15
5	50	3	0.706667	0.780222	1	0	3	0	4	0	11
6	20	3	0.573333	0.531088	1	3	3	0	4	0	21
7	60	3	0.493333	0.549506	1	0	3	0	0	0	14
8	50	4	0.253333	0.286094	1	3	3	0	4	0	17
9	50	3	0.240000	0.366440	1	3	3	0	0	0	3
10	20	3	0.506667	0.600062	1	3	3	0	4	0	19
11	60	3	0.706667	0.644808	1	0	3	0	4	0	16
12	20	3	0.493333	0.709333	1	1	3	0	4	0	19
13	20	3	0.786667	0.566193	1	0	3	0	4	0	5
14	20	3	0.493333	0.582756	1	0	3	0	0	0	12
15	45	4	0.253333	0.286094	1	3	3	0	0	0	3
16	20	3	0.493333	0.602596	1	0	3	0	1	0	12
17	90	3	0.533333	0.574784	1	3	3	0	4	0	19
18	20	3	0.453333	0.754265	1	3	3	0	4	0	20
19	20	3	0.506667	0.375093	1	3	3	0	4	0	12
20	60	3	0.920000	0.786403	1	0	3	0	0	0	16
21	45	4	0.333333	0.368232	1	3	0	0	4	0	9
22	20	3	0.573333	0.509951	1	3	3	0	4	0	5
23	120	4	0.160000	0.168912	1	3	3	0	4	0	10
24	20	3	0.493333	0.417491	1	0	3	0	4	0	19
25	20	3	0.493333	0.787330	1	3	3	0	0	0	16
26	20	3	0.373333	0.352843	1	3	3	0	0	0	12
27	20	3	0.880000	0.617244	1	3	3	0	4	0	16
28	20	3	0.200000	0.916564	1	0	3	0	1	0	12
29	30	4	0.373333	0.298702	1	0	3	0	4	0	3
30	70	0	0.240000	0.433189	1	3	3	0	4	0	9
31	20	3	0.493333	0.435909	1	0	3	0	1	0	19
32	20	3	0.706667	0.590729	1	3	3	0	0	0	5
33	20	3	0.506667	0.560012	1	0	3	0	4	0	12
34	120	3	0.373333	0.359827	1	3	3	0	4	0	16
35	60	3	0.493333	0.737145	1	3	3	0	4	0	16
36	20	3	0.493333	0.578986	1	3	3	0	0	0	5
37	20	3	0.560000	0.435167	1	3	3	0	4	0	12
38	20	3	0.480000	0.397466	1	3	3	0	4	0	12
39	90	3	0.440000	0.281150	1	3	3	0	4	0	7
40	20	3	0.693333	0.442954	1	3	3	0	4	0	12
41	20	3	0.493333	0.952658	1	3	3	0	4	0	23
42	85	3	0.493333	0.475216	1	0	3	0	1	0	20
43	20	3	0.493333	0.476452	1	0	3	0	1	0	5
44	20	3	0.506667	0.398888	1	3	3	0	4	0	12
45	120	3	0.386667	0.381150	1	3	3	0	4	0	16
46	50	3	0.213333	0.700309	1	0	3	0	1	0	11
47	20	1	0.693333	0.593634	1	3	3	0	4	0	21
48	50	4	0.013333	0.183251	1	3	3	0	4	0	17
49	20	3	0.453333	0.386341	1	3	3	0	4	0	19
50	60	3	0.493333	0.765019	1	1	3	0	0	0	8
51	50	4	0.266667	0.293511	1	3	3	0	4	0	3
52	90	4	0.493333	0.431459	0	1	0	0	0	1	9
53	20	3	0.480000	0.493665	1	0	2	0	4	0	24
54	80	3	0.373333	0.348764	1	3	0	0	4	1	12

55	20	3	0.906667	0.536712	1	0	3	0	4	0	12
56	50	1	0.493333	0.071323	1	3	3	0	4	0	21
57	60	3	0.760000	0.627565	1	0	3	0	0	0	5
58	60	3	0.453333	0.753461	1	1	1	0	1	0	22
59	20	3	0.373333	0.352843	1	3	0	0	4	0	5
60	20	3	0.413333	0.715760	1	3	3	0	4	0	20
61	75	4	0.373333	0.352843	1	3	3	0	4	0	9
62	120	3	0.160000	0.305995	1	0	3	0	4	0	16
63	70	4	0.240000	0.544438	1	0	0	0	4	0	17
64	60	3	0.493333	0.487268	1	3	3	0	4	0	5
65	60	3	0.586667	0.500618	1	3	3	0	4	0	16
66	20	3	0.493333	0.493665	1	3	3	0	4	0	12
67	20	3	0.533333	0.566996	1	0	3	0	4	0	5
68	30	4	0.200000	0.192645	1	3	3	0	0	0	17
69	50	3	0.653333	0.871570	1	3	3	0	0	0	4
70	20	3	0.840000	0.751545	1	0	3	0	4	0	12
71	20	3	0.493333	0.377503	1	3	3	0	0	0	11
72	60	3	0.560000	0.534611	1	0	3	0	0	0	8
73	20	3	0.706667	0.538257	1	3	3	0	4	0	12
74	50	4	0.373333	0.265698	1	3	3	0	0	0	17
75	50	4	0.493333	0.006489	1	3	3	0	4	0	10
76	20	3	0.493333	0.431644	1	0	3	0	4	0	12
77	50	4	0.240000	0.441533	1	3	3	0	4	0	3
78	90	3	0.533333	0.573980	1	3	3	0	4	0	19
79	50	4	0.373333	0.553090	1	3	3	0	0	0	17
80	60	3	0.906667	0.711310	1	3	3	0	0	0	12
81	120	4	0.000000	0.185970	1	3	3	0	2	0	11
82	20	3	0.613333	0.538628	1	3	3	0	4	0	21
83	20	3	0.640000	0.457417	1	0	3	0	4	0	12
84	80	3	0.493333	0.435043	1	0	3	0	4	0	8
85	60	3	0.493333	0.900371	1	3	3	0	0	0	15
86	60	3	0.493333	0.644005	1	1	3	0	4	0	8
87	50	1	0.106667	0.152040	1	3	3	0	0	0	21
88	50	0	0.973333	0.431335	1	0	3	0	0	0	9
89	20	3	0.373333	0.406613	1	3	3	0	4	0	5
90	20	3	0.373333	0.352843	1	3	3	0	4	0	12
91	20	3	0.706667	0.433189	1	3	3	0	4	0	12
92	30	3	0.640000	0.733560	1	0	1	0	4	0	6
93	50	0	0.373333	0.352843	1	3	3	0	0	0	17
94	60	3	0.493333	0.484920	1	0	3	0	4	0	5
95	60	3	0.493333	0.511372	1	1	3	0	0	0	8
96	20	3	0.613333	0.542213	1	0	3	0	4	0	5
97	20	3	0.546667	0.582818	1	3	1	0	4	0	7
98	30	3	0.706667	0.564524	1	3	3	0	0	0	7
99	20	3	0.600000	0.483869	1	0	3	0	4	0	12
100	20	3	0.493333	0.563164	1	0	3	0	4	0	14
101	60	3	0.600000	0.476823	1	3	3	0	4	0	20
102	90	3	0.426667	0.341595	1	3	0	0	4	0	20
103	20	3	0.826667	0.550742	1	0	3	0	0	0	5
104	50	4	0.493333	0.387330	1	3	3	0	0	0	9
105	60	1	0.573333	0.487268	1	3	3	0	4	0	21
106	30	4	0.373333	0.575340	1	3	3	0	4	0	17
107	20	4	0.240000	0.278677	1	3	3	0	4	0	17
108	50	4	0.706667	0.433189	1	3	3	0	0	0	9

109	20	3	0.973333	0.634116	1	0	3	0	4	0	14
110	50	3	0.573333	0.496539	1	3	3	0	4	0	7
111	80	3	0.493333	0.386836	1	0	3	0	4	0	8
112	60	3	0.600000	0.523733	1	3	3	0	4	0	5
113	20	3	0.493333	0.493665	1	3	0	0	0	0	6
114	70	3	0.386667	0.356489	1	0	3	0	4	1	6
115	50	1	0.026667	0.107478	1	3	3	0	0	0	21
116	20	3	0.493333	0.625773	1	3	3	0	4	0	19
117	20	3	0.560000	0.435414	1	3	3	0	0	0	7
118	60	3	0.773333	0.672744	1	3	3	0	0	0	20
119	60	3	0.440000	0.430779	1	3	3	0	4	0	5
120	80	3	0.493333	0.493665	1	0	2	0	1	2	4
121	50	4	0.240000	0.282386	1	3	3	0	4	0	9
122	20	3	0.573333	0.492769	1	3	3	0	0	0	12
123	120	3	0.306667	0.395612	1	3	3	0	4	0	20
124	20	3	0.213333	0.961187	1	0	3	0	1	0	14
125	50	4	0.373333	0.326885	1	3	3	0	4	0	9
126	120	3	0.493333	0.212423	1	0	3	0	4	0	13
127	45	4	0.306667	0.179048	1	0	0	0	4	0	17
128	60	3	0.493333	0.376947	1	3	3	0	4	0	12
129	20	3	0.493333	0.462423	1	3	3	0	4	0	12
130	60	3	0.746667	0.785476	1	3	3	0	0	0	12
131	60	3	0.493333	0.663350	1	0	3	0	0	0	8
132	20	3	0.573333	0.364462	1	3	3	0	0	0	12
133	20	3	0.493333	0.331397	1	0	3	0	4	0	23
134	20	3	0.613333	0.546601	1	0	3	0	4	0	19
135	20	3	0.640000	0.550618	1	3	3	0	4	0	14
136	20	3	0.493333	0.547837	1	0	3	0	0	0	12
137	90	3	0.666667	0.592027	1	3	3	0	4	0	11
138	60	3	0.546667	0.468171	1	0	3	0	4	0	5
139	60	3	0.440000	0.861248	1	0	3	0	4	0	5
140	20	3	0.506667	0.556799	1	3	3	0	2	0	12
141	20	3	0.613333	0.627565	1	3	3	0	4	0	5
142	50	3	0.520000	0.434425	1	3	3	0	0	0	12
143	20	3	0.613333	0.546601	1	0	3	0	4	0	5
144	90	4	0.506667	0.470272	1	3	3	0	4	0	19
145	50	4	0.493333	0.063721	1	3	3	0	4	0	7
146	30	4	0.253333	0.286094	1	3	3	0	0	0	3
147	60	3	0.493333	0.495303	1	0	3	0	1	0	8
148	20	3	0.413333	0.371384	1	3	3	0	4	0	20
149	50	4	0.493333	0.293511	1	3	3	0	4	0	3
150	20	3	0.493333	0.547899	1	3	3	0	0	0	5
151	20	3	1.000000	0.766378	1	3	3	0	4	0	16
152	60	3	0.493333	0.822744	1	0	3	0	1	0	14
153	20	3	0.493333	0.742213	1	3	3	0	4	0	4
154	30	4	0.693333	0.608714	1	3	3	0	0	0	17
155	50	3	0.373333	0.501174	1	3	3	0	0	0	7
156	20	3	0.373333	0.352843	1	3	3	0	4	0	12
157	60	3	0.800000	0.649691	1	3	3	0	0	0	23
158	60	1	0.906667	0.683622	1	3	3	0	0	0	21
159	60	3	0.493333	0.493665	1	0	1	0	0	0	8
160	20	3	0.493333	0.595117	1	0	3	0	1	0	24
161	60	3	0.493333	0.753832	1	0	3	0	4	0	16
162	20	3	0.840000	0.660754	1	3	3	0	0	0	16
163	45	3	0.306667	0.247775	1	3	3	0	4	0	17

164	40	4	0.106667	0.241595	1	3	3	0	0	0	17
165	50	3	0.400000	0.532447	1	3	3	0	4	0	7
166	20	3	0.493333	0.569654	1	0	3	0	4	0	4
167	60	3	0.720000	0.560630	1	3	3	0	4	0	16
168	60	3	0.400000	0.417367	1	0	3	0	4	0	8
169	20	3	0.493333	0.938072	1	0	3	0	0	0	23
170	50	4	0.493333	0.671632	1	0	3	0	4	0	17
171	20	3	0.493333	0.493665	1	0	3	0	0	0	12
172	50	3	0.160000	0.235785	1	0	3	0	4	0	22
173	20	3	0.640000	0.538072	1	0	3	0	4	0	12
174	20	3	0.200000	0.675216	1	0	3	0	4	0	23
175	20	3	0.693333	0.687515	1	3	3	0	0	0	7
176	60	3	0.866667	0.527689	1	0	3	0	0	0	4
177	50	3	0.493333	0.751483	1	3	3	0	4	0	19
178	20	3	0.413333	0.984672	1	0	3	0	1	0	22
179	30	4	0.373333	0.434425	1	3	3	0	4	0	17
180	50	1	0.493333	0.038690	1	3	3	0	4	0	21
181	70	3	0.293333	0.376823	1	3	3	0	4	0	6
182	20	3	0.373333	0.467800	1	3	3	0	4	0	7
183	50	4	0.413333	0.614030	1	3	3	0	4	0	17
184	50	3	0.800000	0.367553	1	0	3	0	4	0	3
185	75	4	0.773333	0.493665	1	1	3	0	4	0	17
186	80	3	0.493333	0.522621	1	0	3	0	1	0	11
187	50	3	0.373333	0.551236	1	3	3	0	4	0	17
188	90	3	0.426667	0.341595	1	3	0	0	4	0	20
189	120	3	0.120000	0.212114	1	3	3	0	4	0	22
190	70	3	0.506667	0.561125	1	3	0	0	4	1	6
191	60	3	0.493333	0.369654	1	0	3	0	1	0	12
192	20	3	0.480000	0.465142	1	0	3	0	4	0	5
193	50	4	0.493333	0.063721	1	3	3	0	4	0	7
194	20	3	0.373333	0.351607	1	0	3	0	4	0	5
195	50	3	0.493333	0.048764	1	3	3	0	2	0	13
196	20	3	0.626667	0.489802	1	3	3	0	4	0	21
197	75	3	0.493333	0.493665	1	3	3	0	0	0	12
198	75	4	0.800000	0.249011	1	3	3	0	0	0	17
199	20	3	0.586667	0.500618	1	3	3	0	4	0	16
200	20	4	0.640000	0.436032	1	3	3	0	0	0	7
201	20	3	0.573333	0.533622	1	3	3	0	4	0	11
202	50	3	0.240000	0.340482	1	3	3	0	0	0	17
203	120	4	0.493333	0.182138	1	3	3	0	4	0	5
204	50	4	0.240000	0.124166	1	3	3	0	4	0	17
205	20	3	0.893333	0.640297	1	3	3	0	0	0	8
206	20	3	0.106667	0.752905	1	0	3	0	1	0	19
207	20	3	0.493333	0.679975	1	0	3	0	4	0	12
208	60	3	0.493333	0.795612	1	0	2	0	4	1	20
209	20	3	0.573333	0.417738	1	3	3	0	4	0	12
210	30	3	0.466667	0.254203	1	3	3	0	4	0	7
211	20	3	0.680000	0.551854	1	3	3	0	0	0	7
212	60	1	0.533333	0.441842	1	3	3	0	4	0	21
213	20	3	0.146667	0.746415	1	1	3	0	1	0	5
214	60	3	0.493333	0.581520	1	0	3	0	2	0	5
215	20	3	0.533333	0.526576	1	0	3	0	4	0	12
216	20	3	0.440000	0.430099	1	3	3	0	4	0	5
217	70	4	0.333333	0.520087	1	3	3	0	4	0	17
218	50	3	0.493333	0.875711	1	0	3	0	0	0	6

219	120	3	0.146667	0.093881	1	3	3	0	4	0	0
220	20	3	0.546667	0.463473	1	0	3	0	4	0	5
221	60	3	0.493333	0.406489	1	0	3	0	4	0	8
222	60	3	0.706667	0.617058	1	3	3	0	4	0	14
223	20	3	0.506667	0.556799	1	3	3	0	2	0	12
224	20	3	0.946667	0.740482	1	3	3	0	4	0	16
225	50	4	0.493333	0.011681	1	3	3	0	4	0	2
226	60	3	0.666667	0.522806	1	0	3	0	4	0	15
227	50	4	0.493333	0.023362	1	3	3	0	4	0	2
228	20	3	0.506667	0.434487	1	3	3	0	2	0	19
229	120	3	0.146667	0.104512	1	3	3	0	4	0	0
230	20	3	0.546667	0.449258	1	3	3	0	4	0	12
231	60	3	0.493333	0.843449	1	0	3	0	4	0	15
232	50	4	0.493333	0.011681	1	3	3	0	4	0	2
233	20	3	0.573333	0.566069	1	3	3	0	0	0	5
234	60	3	0.493333	0.393078	1	3	3	0	4	0	8
235	50	4	0.493333	0.011681	1	3	3	0	4	0	2
236	20	3	0.440000	0.450062	1	3	3	0	2	0	5
237	60	3	0.493333	0.492089	1	0	3	0	1	0	20
238	20	3	0.813333	0.651360	1	3	3	0	4	0	16
239	50	3	0.266667	0.448084	1	3	3	0	4	0	7
240	20	1	0.573333	0.464091	1	3	3	0	4	0	21
241	30	4	0.106667	0.147651	1	3	3	0	4	0	17
242	50	4	0.413333	0.216873	1	3	3	0	0	0	17
243	50	3	0.573333	0.572991	1	3	3	0	0	0	20
244	60	3	0.493333	0.456675	1	0	3	0	4	0	20
245	20	3	0.640000	0.550618	1	3	3	0	4	0	14
246	50	4	0.493333	0.472868	1	3	3	0	4	0	17
247	20	3	0.573333	0.606860	1	3	3	0	4	0	12
248	60	3	0.533333	0.607293	1	3	3	0	4	0	5
249	50	3	0.493333	0.493665	1	1	2	0	1	2	4
250	30	3	0.306667	0.238504	1	0	3	0	4	0	3
251	120	4	0.160000	0.201422	1	0	1	0	4	1	6
252	60	3	0.440000	0.424907	1	0	3	0	4	0	20
253	80	3	0.706667	0.485723	1	3	3	0	4	0	12
254	20	3	0.506667	0.427009	1	3	3	0	4	0	12
255	60	3	0.453333	0.447899	1	0	3	0	4	0	8
256	60	1	0.426667	0.451174	1	0	3	0	4	0	21
257	20	3	0.480000	0.452596	1	3	3	0	4	0	5
258	60	3	0.640000	0.676391	1	3	3	0	4	0	5
259	20	4	0.506667	0.692892	1	3	3	0	4	0	17
260	80	3	0.493333	0.493665	1	3	3	0	0	0	12
261	60	3	0.493333	0.500433	1	0	3	0	4	0	5
262	80	3	0.746667	0.431397	1	0	3	0	0	0	19
263	50	4	0.240000	0.247775	1	3	3	0	0	0	17
264	30	4	0.493333	0.231211	1	2	0	0	4	0	17
265	20	3	0.613333	0.655068	1	0	3	0	4	0	14
266	60	3	0.506667	0.600494	1	0	1	0	2	0	8
267	75	3	0.373333	0.427009	1	3	0	0	4	1	18
268	30	4	0.520000	0.334302	1	3	3	0	4	0	9
269	20	3	0.493333	0.397157	1	0	3	0	0	0	7
270	60	1	0.693333	0.570890	1	3	3	0	4	0	21
271	20	3	0.546667	0.493665	1	0	2	0	1	2	4
272	60	3	0.800000	0.634920	1	0	3	0	1	0	15
273	20	3	0.640000	0.501174	1	3	3	0	4	0	12

274	20	3	0.586667	0.421693	1	3	3	0	0	0	11
275	50	3	0.306667	0.356799	1	3	3	0	4	0	3
276	20	3	0.493333	0.476205	1	0	3	0	4	0	11
277	20	3	0.493333	0.493665	1	3	3	0	0	0	8
278	20	3	1.000000	0.800927	1	3	3	0	4	0	16
279	60	3	0.680000	0.526205	1	3	3	0	4	0	4
280	60	3	0.666667	0.605439	1	3	3	0	4	0	20
281	20	1	0.373333	0.352843	1	3	3	0	4	0	21
282	120	3	0.026667	0.220766	1	3	3	0	4	0	16
283	20	3	0.560000	0.501916	1	3	3	0	4	0	21
284	120	3	0.240000	0.403028	1	3	3	0	4	0	20
285	50	1	0.040000	0.170581	1	0	3	0	4	0	21
286	50	3	0.600000	0.512670	1	0	0	0	4	0	12
287	20	3	0.493333	0.410012	1	0	3	0	0	0	12
288	20	3	0.493333	0.514710	1	0	3	0	4	0	19
289	70	3	0.373333	0.447404	1	3	3	0	4	0	3
290	60	3	0.493333	0.872682	1	3	3	0	4	0	5
291	50	3	0.306667	0.259333	1	3	0	0	4	0	18
292	50	3	0.373333	0.612979	1	3	3	0	4	0	7
293	60	3	0.493333	0.937454	1	0	3	0	0	0	14
294	20	3	0.640000	0.501174	1	3	3	0	4	0	12
295	80	3	0.066667	0.398393	1	0	3	0	1	0	11
296	50	4	0.573333	0.755192	1	3	3	0	4	0	9
297	60	1	0.453333	0.365142	1	0	3	0	4	0	21
298	60	3	0.773333	0.630964	1	3	3	0	4	0	14
299	20	3	0.640000	0.773115	1	3	3	0	4	0	6
300	50	3	0.773333	0.881273	1	3	3	0	0	0	6
301	60	3	0.453333	0.910692	1	2	3	0	4	0	5
302	20	3	0.493333	0.754821	1	0	3	0	0	0	5
303	20	3	0.506667	0.513535	1	3	3	0	0	0	5
304	75	4	0.733333	0.493665	1	3	3	0	4	0	17
305	20	3	0.640000	0.549753	1	3	3	0	4	0	5
306	60	3	0.493333	0.740606	1	3	3	0	4	0	20
307	50	4	0.493333	0.397342	1	0	3	0	4	0	9
308	30	3	0.493333	0.670643	1	0	3	0	4	0	7
309	20	3	0.773333	0.672868	1	0	3	0	4	0	16
310	60	3	0.493333	0.382818	1	0	3	0	4	0	8
311	20	3	0.240000	0.402287	1	3	3	0	4	0	12
312	50	4	0.440000	0.389926	1	3	3	0	4	0	17
313	20	3	0.493333	0.493665	1	2	2	0	4	2	23
314	70	4	0.373333	0.501174	1	3	3	0	4	0	17
315	60	3	0.520000	0.389617	1	0	3	0	4	0	8
316	60	3	0.826667	0.711619	1	0	3	0	0	0	14
317	60	1	0.573333	0.464091	1	3	3	0	4	0	21
318	60	3	0.773333	0.519716	1	3	2	0	4	1	15
319	80	3	0.493333	0.780222	1	3	3	0	4	0	14
320	60	3	0.493333	0.912732	1	3	3	0	0	0	16
321	60	3	0.893333	0.655624	1	0	3	0	4	0	16
322	60	3	0.720000	0.549382	1	0	3	0	4	0	20
323	20	4	0.226667	0.267553	1	3	3	0	4	0	17
324	80	3	0.853333	0.604697	1	3	3	0	0	0	12
325	45	4	0.240000	0.216873	1	3	3	0	4	0	9
326	120	3	0.000000	0.578183	1	0	3	0	1	0	24
327	20	3	0.640000	0.624784	1	3	3	0	4	0	12

328	75	3	0.493333	0.642583	1	0	0	0	4	0	3
329	70	4	0.373333	0.303523	1	3	3	0	0	0	9
330	90	3	0.493333	0.564462	1	0	3	0	4	0	12
331	20	3	0.506667	0.413164	1	3	3	0	4	0	12
332	20	3	0.706667	0.566378	1	0	3	0	4	0	16
333	120	4	0.360000	0.414524	1	3	3	0	3	0	16
334	60	3	0.360000	0.466687	1	0	3	0	4	0	8
335	50	3	0.493333	0.493665	0	0	1	0	0	2	23
336	20	3	0.720000	0.782818	1	0	1	0	0	0	22
337	20	3	0.506667	0.472435	1	3	3	0	4	0	5
338	20	3	0.786667	0.782077	1	3	3	0	0	0	14
339	20	3	0.453333	0.674227	1	0	3	0	4	0	12
340	60	3	0.706667	0.784920	1	3	3	0	4	0	23
341	20	2	0.373333	0.427009	1	3	3	0	4	0	20
342	90	3	0.493333	0.435909	1	3	3	0	4	0	12
343	120	3	0.413333	0.454759	1	0	3	0	4	0	16
344	50	4	0.053333	0.068047	1	3	3	0	4	0	10
345	50	3	0.440000	0.305562	1	3	3	0	4	0	3
346	20	3	0.493333	0.697219	1	0	3	0	1	0	12
347	20	3	0.493333	0.995612	1	0	3	0	4	0	12
348	50	3	0.053333	0.059147	1	3	3	0	4	0	16
349	60	3	0.320000	0.493665	1	1	3	0	4	0	16
350	120	3	0.480000	0.391162	1	0	3	0	4	0	16
351	120	3	0.493333	0.233622	1	0	2	0	4	1	4
352	50	3	0.373333	0.469283	1	3	3	0	4	0	7
353	30	4	0.373333	0.434425	1	3	3	0	4	0	17
354	50	3	0.373333	0.427009	1	3	0	0	4	0	18
355	20	3	0.973333	0.603090	1	1	3	0	4	0	5
356	20	3	0.493333	0.479419	1	0	3	0	4	0	8
357	120	4	0.160000	0.168912	1	3	3	0	4	0	10
358	80	3	0.800000	0.336156	1	0	3	0	4	0	4
359	60	3	0.613333	0.650185	1	0	3	0	1	0	15
360	85	3	0.493333	0.373857	1	0	3	0	1	0	11
361	50	3	0.493333	0.472991	1	3	3	0	4	0	3
362	85	3	0.426667	0.359085	1	3	3	0	0	0	7
363	50	4	0.493333	0.011681	1	3	3	0	4	0	2
364	60	3	0.493333	0.493665	1	0	3	0	2	0	14
365	70	4	0.360000	0.568541	1	3	3	0	4	0	9
366	20	3	0.493333	0.494994	1	0	3	0	4	0	12
367	80	3	0.920000	0.473362	1	0	3	0	0	0	12
368	20	3	0.613333	0.389926	1	3	3	0	4	0	12
369	20	3	0.493333	0.515389	1	0	3	0	0	0	12
370	60	3	0.493333	0.409765	1	0	3	0	4	0	8
371	50	3	0.640000	0.965946	1	3	3	0	4	0	4
372	120	3	0.240000	0.351298	1	3	3	0	4	0	20
373	20	3	0.626667	0.565080	1	3	3	0	4	0	12
374	60	3	0.440000	0.414648	1	3	3	0	4	0	5
375	30	3	0.493333	0.527132	1	0	2	0	4	2	7
376	85	3	0.333333	0.454574	1	0	3	0	1	0	5
377	60	1	0.933333	0.596539	1	0	3	0	0	0	21
378	20	3	0.746667	0.612052	1	3	3	0	0	0	22
379	60	3	0.373333	0.409889	1	0	3	0	4	0	8
380	50	3	0.240000	0.216873	1	3	3	0	4	0	18
381	20	1	0.373333	0.352843	1	3	3	0	4	0	21
382	60	3	0.626667	0.479234	1	0	3	0	4	0	5

383	45	2	0.373333	0.464091	1	3	3	0	0	0	20
384	60	3	0.493333	0.493665	1	1	2	0	0	1	4
385	120	3	0.146667	0.104512	1	3	3	0	4	0	0
386	50	3	0.346667	0.427627	1	3	3	0	2	0	7
387	80	3	0.533333	0.352843	1	3	3	0	4	0	7
388	20	3	0.813333	0.487701	1	0	3	0	1	0	5
389	60	3	0.853333	0.678801	1	3	3	0	4	0	16
390	50	3	0.240000	0.427318	1	3	3	0	4	0	7
391	60	3	0.520000	0.662423	1	0	3	0	1	0	11
392	20	3	0.493333	0.423239	1	0	3	0	4	0	12
393	30	3	0.493333	0.368047	1	3	3	0	0	0	3
394	50	3	0.373333	0.534178	1	3	3	0	4	0	17
395	20	3	0.480000	0.499382	1	3	3	0	4	0	7
396	20	3	0.373333	0.352843	1	3	2	0	4	0	5
397	60	3	0.493333	0.376947	1	3	3	0	4	0	12
398	30	4	0.373333	0.462052	1	3	3	0	0	0	9
399	60	1	0.440000	0.410012	1	3	3	0	4	0	21
400	120	3	0.080000	0.832633	1	1	3	0	4	0	24
401	20	3	0.440000	0.449691	1	0	3	0	4	0	5
402	30	3	0.373333	0.538257	1	3	3	0	4	0	19
403	60	3	0.813333	0.655068	1	3	3	0	0	0	15
404	60	3	0.493333	0.548393	1	0	3	0	4	0	8
405	20	3	0.493333	0.525340	1	0	3	0	0	0	19
406	50	3	0.253333	0.555562	1	3	3	0	4	0	18
407	70	3	0.413333	0.870519	1	3	3	0	4	0	6
408	60	3	0.493333	0.782633	1	3	3	0	0	0	16
409	60	1	0.706667	0.575340	1	3	3	0	4	0	21
410	20	3	0.480000	0.499382	1	3	3	0	4	0	7
411	50	3	0.906667	0.493665	1	3	0	0	4	0	8
412	20	1	0.493333	0.179975	1	1	3	0	4	0	21
413	30	4	0.320000	0.461619	1	3	3	0	4	0	17
414	60	3	0.360000	0.601792	1	1	3	0	1	0	20
415	20	3	0.546667	0.457849	1	0	3	0	4	0	8
416	60	3	0.560000	0.392645	1	3	3	0	4	0	19
417	70	3	0.720000	0.493665	1	0	3	0	4	0	6
418	50	3	0.373333	0.412176	1	3	3	0	4	0	7
419	20	3	0.440000	0.430099	1	3	3	0	4	0	12
420	90	4	0.613333	0.344190	1	3	3	0	4	0	11
421	20	3	0.493333	0.935970	1	0	3	0	2	0	14
422	20	3	0.906667	0.493665	1	3	1	0	4	1	11
423	60	3	0.640000	0.476452	1	3	3	0	4	0	15
424	20	3	0.533333	0.464091	1	3	3	0	4	0	12
425	60	4	0.373333	0.116625	1	3	1	0	4	0	17
426	80	3	0.493333	0.698949	1	3	2	0	4	1	20
427	20	3	0.600000	0.438937	1	0	3	0	4	0	12
428	20	3	0.426667	0.325773	1	3	3	0	4	0	5
429	20	3	0.493333	0.615946	1	0	3	0	0	0	23
430	50	4	0.493333	0.011681	1	3	3	0	4	0	2
431	50	4	0.373333	0.253090	1	0	0	0	4	0	17
432	50	4	0.493333	0.026514	1	3	3	0	4	0	2
433	60	3	0.906667	0.577750	1	0	3	0	0	0	8
434	50	4	0.493333	0.024660	1	3	3	0	4	0	10
435	60	3	0.146667	0.567120	1	1	3	0	1	0	5
436	50	4	0.106667	0.179790	1	3	3	0	4	0	17
437	45	4	0.240000	0.278677	1	3	3	0	4	0	3

438	30	3	0.106667	0.172373	1	3	3	0	4	0	6
439	50	3	0.466667	0.671384	1	3	3	0	0	0	7
440	20	3	0.973333	0.861557	1	3	3	0	4	0	16
441	90	3	0.800000	0.656180	1	3	3	0	4	0	7
442	50	4	0.266667	0.293511	1	3	3	0	4	0	3
443	120	3	0.280000	0.150247	1	3	3	0	4	0	0
444	60	3	0.506667	0.448640	1	3	3	0	4	0	5
445	20	3	0.546667	0.516934	1	3	3	0	0	0	7
446	20	3	0.493333	0.927132	1	0	3	0	0	0	12
447	60	3	0.493333	0.600927	1	0	3	0	0	0	8
448	50	4	0.240000	0.439370	1	3	0	0	4	0	9
449	50	4	0.240000	0.278677	1	3	3	0	4	0	17
450	30	4	0.506667	0.259147	1	3	3	0	4	0	17
451	20	3	0.400000	0.493665	1	0	2	0	4	1	4
452	60	3	0.493333	0.482818	1	0	3	0	0	0	23
453	60	1	0.573333	0.464091	1	3	3	0	4	0	21
454	90	3	0.413333	0.482447	1	3	3	0	4	0	11
455	20	3	0.640000	0.501174	1	3	3	0	4	0	14
456	70	4	0.026667	0.190358	1	3	3	0	4	0	17
457	20	3	0.493333	0.493665	1	0	2	0	1	1	4
458	70	4	0.493333	0.223053	1	3	3	0	4	0	17
459	50	3	0.493333	0.341409	1	0	0	0	0	0	3
460	60	1	0.573333	0.402534	1	0	3	0	4	0	21
461	70	3	0.373333	0.352843	1	3	3	0	4	0	18
462	20	3	0.373333	0.419654	1	0	3	0	4	0	19
463	70	3	0.560000	0.648764	1	0	1	0	4	1	6
464	20	3	0.373333	0.428863	1	3	1	0	4	1	5
465	120	4	0.493333	0.097713	1	3	3	0	4	0	0
466	20	3	0.706667	0.564710	1	3	3	0	4	0	12
467	70	3	0.626667	0.493758	1	3	3	0	4	0	12
468	20	3	0.880000	0.614153	1	0	3	0	4	0	16
469	60	3	0.586667	0.482077	1	0	3	0	0	0	20
470	120	3	0.493333	0.329357	1	0	3	0	0	0	22
471	60	3	0.800000	0.646539	1	3	3	0	4	0	14
472	50	4	0.040000	0.134981	1	3	3	0	4	0	7
473	20	3	0.493333	0.833498	1	0	3	0	4	0	16
474	120	3	0.120000	0.237268	1	3	3	0	4	0	22
475	20	3	0.640000	0.431953	1	3	3	0	0	0	19
476	20	3	0.573333	0.719036	1	3	3	0	4	1	5
477	60	3	0.973333	0.754141	1	3	3	0	4	0	16
478	20	3	0.626667	0.565266	1	3	3	0	4	0	5
479	30	4	0.240000	0.274042	1	3	0	0	4	0	17
480	20	3	0.880000	0.898764	1	0	3	0	2	0	16
481	20	3	0.533333	0.639988	1	0	1	0	4	0	16
482	70	4	0.240000	0.062361	1	3	3	0	0	0	17
483	120	4	0.000000	0.185970	1	3	3	0	2	0	11
484	20	3	0.493333	0.387330	1	0	3	0	0	0	19
485	20	3	0.640000	0.501174	1	3	3	0	4	0	12
486	20	3	0.626667	0.543758	1	3	3	0	4	0	12
487	20	3	0.506667	0.664524	1	0	3	0	4	0	14
488	50	3	0.373333	0.575340	1	3	3	0	0	0	17
489	50	4	0.493333	0.002163	1	3	3	0	4	0	10
490	50	4	0.493333	0.072559	1	3	3	0	4	0	10
491	50	3	0.626667	0.494376	1	3	3	0	4	0	12
492	60	3	0.973333	0.870643	1	0	3	0	0	0	8

493	20	3	0.506667	0.398022	1	3	3	0	4	0	12
494	30	4	0.240000	0.265328	1	3	3	0	4	0	17
495	30	0	0.373333	0.394808	1	3	3	0	4	0	9
496	20	3	0.493333	0.692274	1	0	3	0	4	0	15
497	50	3	0.373333	0.471508	1	3	3	0	4	0	3
498	20	3	0.440000	0.389926	1	3	3	0	4	0	19
499	20	3	0.506667	0.373548	1	0	3	0	4	0	12
500	50	4	0.493333	0.024660	1	3	3	0	4	0	2
501	60	1	0.573333	0.513721	1	3	3	0	4	0	21
502	20	3	0.506667	0.474598	1	3	3	0	0	0	7
503	20	3	0.906667	0.872126	1	0	3	0	4	0	6
504	50	3	0.493333	0.050494	1	3	3	0	4	0	13
505	90	4	0.373333	0.377318	1	3	3	0	4	0	17
506	60	3	0.640000	0.498331	1	0	3	0	4	0	20
507	20	1	0.573333	0.393758	1	0	3	0	4	0	21
508	70	4	0.373333	0.501174	1	3	3	0	4	0	17
509	20	3	0.640000	0.501174	1	3	3	0	0	0	12
510	20	3	0.573333	0.807664	1	3	3	0	4	0	12
511	120	3	0.106667	0.327627	1	0	3	0	4	0	16
512	20	3	0.506667	0.470272	1	3	3	0	0	0	12
513	20	3	0.520000	0.475649	1	3	0	0	0	0	11
514	45	3	0.306667	0.562608	1	3	3	0	4	0	6
515	20	3	0.826667	0.663103	1	3	3	0	4	0	16
516	80	3	0.493333	0.553585	1	0	3	0	0	0	14
517	60	3	0.626667	0.538752	1	0	3	0	4	0	15
518	60	3	0.493333	0.496910	1	0	3	0	1	0	5
519	70	3	0.280000	0.582633	1	3	3	0	4	0	6
520	50	3	0.373333	0.575340	1	3	3	0	4	0	17
521	20	3	0.773333	0.648764	1	0	3	0	0	0	12
522	50	4	0.240000	0.216873	1	3	3	0	0	0	3
523	60	3	0.493333	0.493665	1	0	0	0	4	0	7
524	60	3	0.840000	0.636341	1	0	3	0	4	0	15
525	20	1	0.400000	0.371384	1	3	3	0	4	0	21
526	20	3	0.506667	0.729852	1	3	3	0	4	0	12
527	60	3	0.466667	0.831706	1	0	3	0	4	0	16
528	30	3	0.346667	0.470148	1	0	3	0	4	0	7
529	20	3	0.493333	0.493665	1	0	3	0	1	0	6
530	80	3	0.706667	0.538257	1	3	3	0	4	0	23
531	70	4	0.373333	0.288257	1	0	3	0	3	0	3
532	20	3	0.373333	0.352843	1	3	3	0	4	0	12
533	20	3	0.240000	0.216873	1	3	2	0	4	1	3
534	60	3	0.560000	0.467553	1	0	3	0	4	0	8
535	50	3	0.506667	0.340482	1	3	3	0	4	0	7
536	60	3	0.333333	0.459394	1	0	3	0	1	0	5
537	20	3	0.493333	0.694932	1	0	3	0	2	0	12
538	20	3	0.493333	0.621879	1	0	3	0	4	0	19
539	20	3	0.493333	0.613844	1	3	3	0	4	0	5
540	20	3	0.706667	0.810260	1	3	3	0	4	0	23
541	60	3	0.493333	0.587701	1	3	3	0	2	0	15
542	20	3	0.613333	0.534549	1	3	3	0	4	0	14
543	120	2	0.026667	0.158653	1	3	3	0	4	0	12
544	60	3	0.346667	0.964957	1	0	3	0	4	0	8
545	50	3	0.493333	0.763041	1	0	3	0	0	0	14
546	50	3	0.506667	0.447837	1	0	0	0	4	0	3

547	85	3	0.293333	0.355562	1	3	3	0	4	0	11
548	20	4	0.226667	0.416811	1	0	1	0	4	0	17
549	60	1	0.573333	0.487268	1	3	3	0	4	0	21
550	120	3	0.280000	0.157726	1	3	3	0	4	0	13
551	20	4	0.240000	0.278677	1	3	3	0	4	0	17
552	20	3	0.733333	0.596724	1	0	3	0	4	0	16
553	20	3	0.466667	0.450309	1	3	3	0	4	0	7
554	60	3	0.706667	0.564524	1	3	3	0	4	0	16
555	45	4	0.346667	0.302163	1	3	3	0	4	0	3
556	20	3	0.493333	0.825649	1	0	3	0	4	0	12
557	50	0	0.373333	0.590173	1	3	2	0	4	1	9
558	60	3	0.333333	0.493665	1	1	1	0	2	0	8
559	120	3	0.493333	0.105377	1	3	3	0	4	0	0
560	20	3	0.493333	0.608776	1	0	3	0	4	0	19
561	20	3	0.600000	0.526514	1	3	3	0	4	1	11
562	30	3	0.413333	0.767367	1	3	3	0	4	0	7
563	50	3	0.453333	0.493665	1	3	3	0	4	0	7
564	60	3	0.493333	0.732695	1	0	3	0	1	0	15
565	70	3	0.453333	0.331706	1	3	0	0	0	0	18
566	60	3	0.600000	0.599938	1	0	3	0	4	0	22
567	20	3	0.506667	0.536465	1	0	3	0	4	0	16
568	50	3	0.626667	0.669716	1	0	2	0	4	1	20
569	90	3	0.493333	0.342460	1	0	3	0	0	0	12
570	90	3	0.560000	0.717553	1	0	3	0	4	0	12
571	20	3	0.373333	0.361001	1	3	3	0	4	0	12
572	60	3	0.680000	0.721137	1	0	1	0	0	0	23
573	80	3	0.586667	0.523857	1	0	3	0	4	0	8
574	80	3	0.506667	0.556799	1	3	3	0	2	0	12
575	50	3	0.640000	0.431953	1	3	3	0	4	0	12
576	50	3	0.266667	0.296724	1	3	3	0	4	0	18
577	80	3	0.853333	0.635723	1	0	3	0	4	0	19
578	50	1	0.026667	0.130593	1	3	3	0	0	0	21
579	50	4	0.653333	0.658776	1	3	3	0	4	0	17
580	20	3	0.493333	0.809271	1	0	3	0	1	0	12
581	20	3	0.880000	0.693016	1	3	3	0	4	0	16
582	90	3	0.653333	0.639679	0	3	3	0	4	0	7
583	75	4	0.573333	0.742213	1	3	3	0	4	0	17
584	50	4	0.253333	0.286094	1	3	3	0	4	0	3
585	20	3	0.746667	0.615080	1	3	3	0	4	0	23
586	30	3	0.306667	0.542398	1	3	3	0	4	0	3
587	85	3	0.560000	0.448022	1	0	3	0	4	0	19
588	20	3	0.440000	0.493665	1	0	2	0	4	2	4
589	40	4	0.240000	0.470272	1	3	3	0	4	0	3
590	60	3	0.426667	0.422064	1	3	3	0	4	0	5
591	60	3	0.866667	0.740853	1	0	3	0	0	0	16
592	20	3	0.373333	0.315760	1	3	3	0	4	0	11
593	120	4	0.493333	0.181953	1	3	3	0	4	0	5
594	20	3	0.746667	0.401669	1	0	3	0	4	0	5
595	20	3	0.493333	0.606366	1	0	3	0	4	0	22
596	70	4	0.373333	0.130346	1	3	3	0	4	0	17
597	120	3	0.280000	0.150247	1	3	3	0	4	0	0
598	20	3	0.640000	0.710321	1	3	0	0	4	0	6
599	50	4	0.493333	0.028368	1	3	3	0	4	0	1
600	60	3	0.560000	0.583189	1	3	3	0	4	0	16
601	50	4	0.240000	0.464091	1	3	0	0	4	0	9

602	60	3	0.640000	0.528430	1	0	3	0	4	0	20
603	50	1	0.493333	0.104512	1	3	3	0	4	0	21
604	20	3	0.746667	0.699135	1	0	3	0	4	0	5
605	60	3	0.706667	0.748393	1	3	3	0	4	0	12
606	20	3	0.666667	0.678183	1	1	2	0	0	1	5
607	20	3	0.613333	0.389926	1	3	0	0	4	1	7
608	70	3	0.613333	0.659889	1	3	1	0	4	1	6
609	20	3	0.386667	0.398764	1	3	3	0	4	0	19
610	60	3	0.493333	0.590791	1	3	3	0	4	0	5
611	80	3	0.493333	0.550309	1	0	3	0	2	0	14
612	60	3	0.493333	0.642398	1	3	3	0	4	0	5
613	20	3	0.506667	0.427132	1	3	3	0	4	0	11
614	50	4	0.493333	0.000000	1	3	3	0	4	0	10
615	85	3	0.640000	0.451731	1	3	3	0	4	0	12
616	60	3	0.493333	0.393696	1	0	3	0	4	0	8
617	45	3	0.360000	0.354512	1	3	1	0	0	1	12
618	20	3	0.773333	0.630593	1	3	3	0	4	0	16
619	60	3	0.706667	0.664586	1	3	3	0	4	0	23
620	30	3	0.173333	0.417614	1	3	3	0	4	0	7
621	60	3	0.773333	0.575340	1	3	3	0	4	0	14
622	20	3	0.520000	0.344438	1	3	3	0	4	0	19
623	50	1	0.493333	0.038690	1	3	3	0	4	0	21
624	60	3	0.640000	0.550618	1	3	3	0	4	0	14
625	20	3	0.733333	0.525896	1	0	3	0	0	0	12
626	20	3	0.493333	0.670643	1	0	3	0	4	0	12
627	80	3	0.640000	0.501174	1	3	3	0	4	0	12
628	60	3	0.506667	0.625155	1	0	1	0	4	2	12
629	80	3	0.666667	0.465328	1	3	3	0	0	0	12
630	70	4	0.240000	0.464091	1	3	3	0	0	0	17
631	120	3	0.026667	0.191533	1	3	3	0	4	0	16
632	20	3	0.706667	0.643325	1	3	3	0	4	0	14
633	20	3	0.640000	0.479543	1	3	3	0	0	0	12
634	90	3	0.426667	0.339184	1	3	3	0	4	0	17
635	50	2	0.373333	0.581273	1	3	0	0	4	0	18
636	30	4	0.253333	0.286094	1	3	3	0	4	0	3
637	50	4	0.240000	0.278677	1	3	3	0	4	0	17
638	30	3	0.466667	0.450309	1	3	3	0	4	0	7
639	120	3	0.280000	0.153956	1	3	3	0	4	0	0
640	120	3	0.400000	0.691347	1	0	3	0	4	0	16
641	60	1	0.493333	0.343572	1	3	3	0	4	0	21
642	80	3	0.573333	0.764462	1	3	3	0	4	0	12
643	60	3	0.640000	0.574907	1	3	3	0	4	0	14
644	20	1	0.706667	0.475649	1	3	3	0	4	0	21
645	20	3	0.493333	0.558653	1	0	3	0	0	0	12
646	20	3	0.373333	0.352843	1	3	3	0	4	0	12
647	20	3	0.706667	0.553832	1	0	3	0	4	0	7
648	60	3	0.506667	0.383745	1	3	3	0	4	0	12
649	50	4	0.493333	0.027503	1	3	3	0	4	0	10
650	60	1	0.440000	0.410012	1	3	3	0	4	0	21
651	70	3	0.373333	0.469283	1	3	3	0	4	0	7
652	60	3	0.506667	0.448640	1	3	3	0	4	0	5
653	50	4	0.373333	0.545674	1	3	3	0	4	0	9
654	20	3	0.786667	0.552905	1	0	3	0	4	0	15
655	50	4	0.493333	0.011681	1	3	3	0	4	0	2
656	20	3	0.533333	0.526329	1	0	3	0	4	0	12

657	70	3	0.373333	0.352843	1	3	1	0	4	1	6
658	50	3	0.613333	0.989617	1	3	3	0	4	0	12
659	20	3	0.573333	0.522002	1	3	3	0	0	0	7
660	60	3	0.493333	0.673239	1	3	3	0	1	0	14
661	60	3	0.266667	0.493665	1	1	3	0	1	0	15
662	20	3	0.493333	0.745921	1	3	3	0	0	0	12
663	85	3	0.773333	0.526638	1	3	3	0	4	0	7
664	20	3	0.226667	0.493665	1	1	3	0	1	0	21
665	60	3	0.986667	0.599691	1	0	3	0	0	0	8
666	60	3	0.493333	0.493665	1	0	3	0	4	0	12
667	20	3	0.440000	0.410012	1	3	3	0	4	0	20
668	20	3	0.493333	0.783931	1	3	0	0	0	1	19
669	30	3	0.640000	0.624784	1	3	3	0	4	0	6
670	60	3	0.426667	0.441409	1	3	3	0	2	0	5
671	70	2	0.293333	0.317553	1	3	3	0	4	0	7
672	20	3	0.493333	0.603152	1	0	3	0	4	0	24
673	20	3	0.493333	0.800433	1	3	3	0	4	0	6
674	20	3	0.640000	0.476452	1	3	3	0	4	0	12
675	50	3	0.493333	0.049320	1	3	3	0	4	0	13
676	70	4	0.373333	0.501174	1	3	3	0	4	0	17
677	30	3	0.266667	0.465451	1	3	3	0	4	0	17
678	20	3	0.640000	0.639864	1	0	3	0	4	0	22
679	20	3	0.493333	0.522497	1	0	3	0	4	0	19
680	120	3	0.240000	0.403028	1	3	3	0	4	0	20
681	50	2	0.306667	0.185970	1	1	0	0	4	0	18
682	120	3	0.493333	0.086279	1	3	1	0	4	0	4
683	20	3	0.773333	0.603028	1	0	3	0	0	0	5
684	60	3	0.346667	0.944314	1	1	3	0	1	0	15
685	50	3	0.493333	0.220705	1	0	3	0	1	0	22
686	60	1	0.693333	0.538690	1	3	3	0	4	0	21
687	50	1	0.493333	0.223362	1	1	3	0	2	0	21
688	20	3	0.373333	0.407787	1	3	1	0	4	0	22
689	120	3	0.386667	0.376143	1	0	3	0	0	0	16
690	120	4	0.493333	0.181397	1	3	3	0	4	0	5
691	60	3	0.960000	0.493665	1	0	3	0	0	0	15
692	60	3	0.133333	0.493665	1	0	3	0	4	1	23
693	30	3	0.373333	0.241595	1	3	3	0	0	2	17
694	50	4	0.253333	0.286094	1	3	3	0	0	0	3
695	20	3	0.293333	0.761434	1	0	3	0	4	0	23
696	30	4	0.240000	0.278677	1	3	3	0	4	0	3
697	20	3	0.333333	0.304635	1	0	3	0	4	0	7
698	20	3	0.440000	0.430099	1	3	3	0	4	0	19
699	120	1	0.360000	0.172497	1	1	3	0	4	0	21
700	20	3	0.706667	0.793572	1	3	3	0	4	0	23
701	20	3	0.640000	0.501174	1	3	3	0	4	0	14
702	60	3	0.666667	0.676576	1	0	3	0	4	0	22
703	50	4	0.586667	0.379419	1	3	3	0	4	0	17
704	20	3	0.506667	0.427009	1	3	3	0	4	0	5
705	50	4	0.506667	0.253956	1	3	3	0	4	0	9
706	20	3	0.493333	0.493665	1	1	2	0	1	2	4
707	120	3	0.213333	0.293511	1	3	3	0	4	0	16
708	60	3	0.440000	0.465204	1	0	3	0	4	0	8
709	20	3	0.493333	0.350494	1	0	3	0	4	0	19
710	30	3	0.320000	0.163103	1	0	3	0	4	0	3
711	50	0	0.453333	0.446292	1	3	1	0	4	1	9

712	120	3	0.106667	0.196539	1	0	1	0	4	0	22
713	50	3	0.373333	0.518047	1	3	3	0	4	0	3
714	60	3	0.493333	0.743263	1	0	3	0	1	0	19
715	20	3	0.613333	0.534549	1	3	3	0	4	0	14
716	70	4	0.373333	0.575340	1	3	0	0	4	0	17
717	20	3	0.640000	0.525896	1	3	3	0	4	0	14
718	60	3	0.853333	0.559394	1	3	3	0	4	0	15
719	20	3	0.493333	0.520952	1	0	3	0	4	0	5
720	120	3	0.493333	0.313473	1	0	2	0	1	1	22
721	120	4	0.493333	0.181397	1	3	3	0	4	0	5
722	20	3	0.506667	0.409703	1	3	3	0	4	0	12
723	50	3	0.373333	0.412917	1	3	3	0	4	0	7
724	20	3	0.720000	0.728986	1	0	3	0	4	0	7
725	20	3	0.373333	0.338010	1	3	3	0	4	0	12
726	20	3	0.493333	0.493665	1	0	3	0	0	0	6
727	20	3	0.426667	0.359889	1	3	3	0	4	0	5
728	90	3	0.706667	0.617058	1	3	3	0	0	0	12
729	30	4	0.266667	0.293511	1	3	3	0	4	0	9
730	120	3	0.093333	0.240915	1	0	3	0	4	0	22
731	80	3	0.546667	0.500556	1	0	3	0	0	0	23
732	60	3	0.573333	0.612670	1	0	3	0	4	0	5
733	20	3	0.640000	0.525896	1	3	3	0	0	0	19
734	20	3	0.493333	0.462732	1	0	3	0	0	0	19
735	75	4	0.373333	0.575340	1	3	3	0	4	0	17
736	90	3	0.373333	0.435909	1	3	3	0	4	0	12
737	60	3	0.533333	0.554512	1	0	1	0	1	0	8
738	90	3	0.373333	0.575340	1	3	3	0	4	0	7
739	60	3	0.440000	0.483436	1	0	3	0	4	0	5
740	70	4	0.373333	0.501174	1	3	3	0	4	0	17
741	20	3	0.440000	0.326143	1	0	3	0	4	0	19
742	20	3	0.440000	0.430099	1	3	3	0	4	0	20
743	80	3	0.506667	0.704265	1	0	3	0	4	0	19
744	120	3	0.120000	0.241286	1	0	1	0	4	0	22
745	60	3	0.493333	0.461805	1	0	3	0	4	0	14
746	60	3	0.493333	0.451422	1	0	3	0	4	0	8
747	70	4	0.440000	0.630964	1	0	3	0	0	0	17
748	20	3	0.360000	0.562546	1	0	3	0	4	0	15
749	50	3	0.240000	0.427318	1	3	3	0	4	0	7
750	50	4	0.306667	0.451731	1	3	3	0	0	0	17
751	60	3	0.493333	0.386836	1	3	3	0	4	0	8
752	20	3	0.626667	0.478677	1	0	3	0	4	0	5
753	60	3	0.640000	0.540729	1	3	3	0	4	0	16
754	20	3	0.386667	0.397960	1	3	3	0	4	0	12
755	50	1	0.026667	0.107478	1	3	3	0	4	0	21
756	60	3	0.480000	0.573424	1	0	3	0	4	0	5
757	60	3	0.493333	0.625773	1	0	3	0	1	0	19
758	50	1	0.493333	0.048764	1	3	3	0	4	0	21
759	60	3	0.440000	0.665389	1	0	3	0	4	0	15
760	20	3	0.506667	0.470272	1	3	3	0	4	0	12
761	30	4	0.373333	0.334981	1	3	3	0	2	0	3
762	60	1	0.533333	0.441842	1	3	3	0	4	0	21
763	60	3	0.666667	0.490667	1	3	3	0	4	0	15
764	120	3	0.493333	0.498022	1	0	3	0	1	0	24
765	20	3	0.573333	0.809394	1	0	3	0	4	0	21

766	60	3	0.640000	0.551916	1	3	3	0	4	0	14
767	50	3	0.573333	0.680902	1	0	3	0	4	0	11
768	20	3	0.506667	0.470272	1	3	3	0	4	0	5
769	60	3	0.200000	0.493665	1	1	1	0	1	1	22
770	85	3	0.493333	0.356057	1	0	3	0	1	0	19
771	20	3	0.466667	0.456489	1	3	3	0	4	0	7
772	80	3	0.826667	0.391100	1	3	3	0	4	0	7
773	20	3	0.506667	0.535167	1	3	3	0	4	0	12
774	20	3	0.493333	0.787083	1	3	3	0	0	0	16
775	120	4	0.000000	0.185970	1	3	3	0	2	0	11
776	20	3	0.720000	0.600680	1	0	3	0	4	0	5
777	20	3	0.906667	0.732942	1	0	3	0	4	0	19
778	90	2	0.373333	0.427009	1	3	3	0	4	0	20
779	90	3	0.613333	0.558653	1	3	3	0	4	0	11
780	20	3	0.413333	0.394561	1	3	3	0	4	0	8
781	60	3	0.440000	0.349938	1	3	3	0	4	0	20
782	20	3	0.466667	0.914339	1	1	3	0	4	0	5
783	85	3	0.493333	0.470334	1	0	3	0	0	0	11
784	75	4	0.040000	0.297219	1	3	3	0	4	0	17
785	20	3	0.493333	0.512917	1	3	3	0	4	0	14
786	50	4	0.373333	0.575340	1	3	3	0	4	0	17
787	60	3	0.586667	0.534672	1	0	3	0	4	0	20
788	20	4	0.240000	0.278677	1	3	3	0	0	0	17
789	60	3	0.493333	0.662176	1	0	2	0	4	0	4
790	120	3	0.146667	0.104512	1	3	3	0	4	0	0
791	80	3	0.493333	0.608282	1	0	3	0	0	0	11
792	60	3	0.800000	0.520952	1	0	3	0	1	0	15
793	20	3	0.586667	0.473857	1	3	3	0	4	0	21
794	60	3	0.493333	0.577318	1	0	3	0	0	0	8
795	60	3	0.506667	0.427009	1	3	3	0	4	0	20
796	20	3	0.520000	0.414462	1	3	3	0	4	0	19
797	20	3	0.333333	0.382324	1	3	3	0	4	0	12
798	60	3	0.960000	0.743325	1	3	3	0	4	0	16
799	50	3	0.373333	0.352843	1	3	3	0	0	0	18
800	60	3	0.626667	0.698826	1	0	1	0	4	1	4
801	30	4	0.106667	0.204512	1	3	3	0	4	0	9
802	60	3	0.413333	0.414586	1	3	3	0	4	0	5
803	60	3	1.000000	0.766378	1	3	3	0	4	0	16
804	20	3	0.573333	0.464091	1	3	3	0	4	0	12
805	20	3	0.786667	0.666440	1	0	3	0	2	0	21
806	80	3	0.573333	0.510445	1	3	3	0	4	0	12
807	70	3	0.493333	0.493665	1	3	3	0	4	0	3
808	80	3	0.706667	0.736032	1	3	3	0	4	0	12
809	75	4	0.773333	0.408467	1	3	3	0	0	0	17
810	20	3	0.613333	0.534549	1	3	3	0	4	0	14
811	120	4	0.493333	0.182138	1	3	3	0	4	0	5
812	20	0	0.453333	0.446292	0	3	0	0	4	1	9
813	20	3	0.573333	0.510445	1	3	3	0	4	0	12
814	50	3	0.173333	0.417614	1	3	3	0	4	0	7
815	20	3	0.213333	0.657973	1	1	3	0	1	0	5
816	20	3	0.493333	0.613968	1	0	3	0	0	0	12
817	20	3	0.493333	0.727689	1	0	3	0	1	0	11
818	80	3	0.640000	0.452719	1	3	3	0	4	0	4
819	120	3	0.160000	0.301607	1	0	3	0	4	0	16
820	60	3	0.533333	0.354450	1	0	3	0	1	0	5

821	20	4	0.373333	0.278677	1	3	0	0	4	1	17
822	60	3	0.493333	0.673857	1	0	3	0	0	0	8
823	50	3	0.373333	0.519716	1	3	3	0	4	0	18
824	20	1	0.653333	0.601051	1	3	3	0	4	0	21
825	20	3	0.493333	0.822744	1	3	3	0	4	0	16
826	45	4	0.240000	0.286712	1	3	3	0	4	0	3
827	20	3	0.440000	0.434981	1	0	3	0	4	0	20
828	60	3	0.493333	0.493665	1	1	2	0	1	2	4
829	50	1	0.493333	0.065080	1	3	3	0	4	0	21
830	20	3	0.640000	0.643325	1	0	3	0	0	0	12
831	50	1	0.493333	0.104388	1	3	3	0	4	0	21
832	60	3	0.160000	0.497960	1	0	3	0	1	0	5
833	20	3	0.906667	0.526143	1	3	3	0	4	0	12
834	20	3	0.573333	0.394561	1	3	3	0	4	0	12
835	20	3	0.373333	0.501174	1	3	3	0	4	0	19
836	30	4	0.773333	0.408467	1	3	3	0	4	0	17
837	50	4	0.493333	0.011681	1	3	3	0	4	0	2
838	20	3	0.573333	0.496539	1	3	3	0	4	0	5
839	50	3	0.506667	0.635105	1	3	3	0	4	0	7
840	70	2	0.493333	0.659085	1	0	3	0	4	0	18
841	70	4	0.373333	0.553090	1	3	3	0	4	0	17
842	80	3	0.666667	0.465328	1	3	3	0	4	0	12
843	90	3	0.640000	0.402287	1	3	3	0	0	0	12
844	50	4	0.906667	0.690606	1	0	3	0	4	0	17
845	85	3	0.493333	0.936712	1	0	3	0	1	0	19
846	60	3	0.573333	0.483684	1	3	3	0	4	0	20
847	20	3	0.053333	0.867244	1	0	3	0	1	0	5
848	50	3	0.573333	0.493665	1	1	0	0	4	0	4
849	80	3	0.640000	0.501174	1	3	3	0	2	0	24
850	120	4	0.053333	0.181953	1	3	3	0	4	0	5
851	120	3	0.493333	0.105377	1	3	3	0	4	0	0
852	75	3	0.280000	0.348393	1	3	3	0	4	0	6
853	80	3	0.493333	0.655377	1	0	3	0	0	0	12
854	20	3	0.933333	0.493665	1	3	3	0	4	0	19
855	20	3	0.493333	0.334116	1	0	3	0	0	0	19
856	80	3	0.493333	0.585847	1	0	2	0	4	1	5
857	60	3	0.440000	0.410012	1	3	3	0	4	0	8
858	20	3	0.640000	0.550618	1	3	3	0	4	0	14
859	60	3	0.493333	0.589493	1	0	3	0	0	0	14
860	50	3	0.306667	0.380161	1	3	3	0	0	0	6
861	50	3	0.573333	0.626329	1	3	3	0	4	0	19
862	20	3	0.653333	0.505624	1	3	3	0	0	0	20
863	20	3	0.506667	0.398022	1	3	3	0	4	0	12
864	20	1	0.533333	0.441842	1	3	3	0	4	0	21
865	20	3	0.493333	0.448640	1	0	3	0	4	0	12
866	20	3	0.466667	0.566440	1	0	1	0	4	0	23
867	20	3	0.706667	0.338628	1	3	3	0	0	0	19
868	60	3	0.493333	0.820210	1	1	3	0	0	0	8
869	60	3	0.640000	0.522064	1	3	3	0	4	0	20
870	20	3	0.373333	0.315760	1	3	3	0	4	0	12
871	60	3	0.506667	0.448640	1	3	3	0	4	0	5
872	20	3	0.560000	0.457417	1	3	3	0	0	0	12
873	40	3	0.373333	0.658405	1	3	3	0	4	0	12
874	50	4	0.266667	0.261372	1	3	3	0	4	0	17
875	60	1	0.573333	0.464091	1	3	3	0	4	0	21

876	20	3	0.826667	0.493665	1	3	1	0	4	1	11
877	60	3	0.560000	0.453832	1	3	3	0	4	0	16
878	85	3	0.746667	0.636032	1	0	3	0	4	0	19
879	20	3	0.493333	0.340482	1	0	3	0	1	0	5
880	20	3	0.373333	0.341965	1	3	3	0	4	0	7
881	50	3	0.160000	0.758158	1	0	3	0	1	0	23
882	60	3	0.493333	0.503399	1	0	3	0	0	0	8
883	75	3	0.373333	0.291286	1	3	0	0	4	0	18
884	20	3	0.440000	0.349753	1	3	3	0	4	0	12
885	120	1	0.240000	0.224227	1	0	3	0	1	0	21
886	90	3	0.506667	0.426576	1	3	3	0	0	0	12
887	50	3	0.360000	0.925525	1	0	3	0	4	0	7
888	20	3	0.840000	0.888381	1	0	3	0	4	1	12
889	20	3	0.493333	0.659394	1	3	3	0	4	0	12
890	50	3	0.373333	0.406242	1	3	3	0	0	0	12
891	60	3	0.506667	0.599073	1	3	3	0	4	0	19
892	20	3	0.506667	0.427874	1	3	3	0	4	0	19
893	20	3	0.493333	0.728863	1	3	3	0	4	0	19
894	90	3	0.426667	0.341595	1	3	0	0	4	0	20
895	60	3	0.520000	0.343943	1	3	3	0	4	0	12
896	30	4	0.240000	0.449567	1	3	3	0	4	0	9
897	90	3	0.426667	0.341595	1	3	3	0	4	0	20
898	20	3	0.906667	0.706304	1	0	3	0	4	0	16
899	20	3	0.440000	0.340049	1	3	3	0	4	0	19
900	20	3	0.493333	0.361496	1	0	3	0	4	0	12
901	20	3	0.426667	0.446292	1	0	3	0	4	0	12
902	60	3	0.413333	0.394561	1	3	3	0	4	0	8
903	20	3	0.240000	0.826205	1	0	1	0	1	0	8
904	20	3	0.493333	0.289370	1	0	3	0	4	0	19
905	20	3	0.640000	0.520952	1	3	3	0	4	0	12
906	20	3	0.493333	0.742274	1	0	3	0	0	0	21
907	50	3	0.720000	0.618603	1	0	3	0	4	0	6
908	20	3	0.493333	0.456984	1	0	2	0	4	1	11
909	60	3	0.493333	0.685909	1	1	3	0	4	0	8
910	90	3	0.640000	0.624784	1	3	3	0	0	0	12
911	20	3	0.493333	0.481768	1	0	3	0	1	1	5
912	30	4	0.253333	0.286094	1	3	3	0	4	0	3
913	90	2	0.666667	0.295365	1	3	1	0	4	0	6
914	50	1	0.493333	0.093263	1	3	3	0	4	0	21
915	50	4	0.493333	0.031520	1	3	3	0	4	0	10
916	20	0	0.240000	0.464091	1	3	3	0	4	0	9
917	20	3	0.493333	0.967182	1	3	3	0	4	0	7
918	60	3	0.946667	0.719036	1	0	3	0	0	0	20
919	20	3	0.733333	0.589493	1	0	3	0	0	0	12
920	60	3	0.506667	0.430841	1	0	3	0	4	0	20
921	90	3	0.466667	0.450309	1	3	3	0	4	0	7
922	20	3	0.440000	0.540544	1	3	3	0	4	0	8
923	120	3	0.240000	0.403028	1	3	3	0	4	0	20
924	20	3	0.626667	0.540729	1	3	3	0	4	0	14
925	20	3	0.493333	0.872682	1	0	3	0	0	0	14
926	60	3	0.813333	0.649444	1	3	3	0	4	0	16
927	60	3	0.493333	0.519716	1	3	3	0	4	0	14
928	20	3	0.493333	0.639493	1	3	3	0	4	0	5
929	60	3	0.493333	0.711681	1	0	3	0	0	0	8
930	20	3	0.546667	0.459456	1	0	1	0	4	0	23

931	20	3	0.506667	0.470272	1	3	3	0	4	0	12
932	20	3	0.693333	0.629110	1	0	3	0	0	0	21
933	20	3	0.413333	0.432386	1	3	3	0	2	0	5
934	20	3	0.493333	0.493665	1	1	1	0	4	1	12
935	30	3	0.266667	0.267862	1	0	3	0	4	0	3
936	20	3	0.466667	0.531026	1	3	3	0	4	0	20
937	60	3	0.573333	0.505810	1	3	3	0	4	0	21
938	60	3	0.546667	0.449258	1	3	3	0	4	0	5
939	70	3	0.493333	0.493665	1	3	3	0	4	0	4
940	90	3	0.306667	0.689061	1	0	3	0	4	0	11
941	60	3	0.493333	0.448949	1	0	3	0	2	0	8
942	90	3	0.133333	0.384425	1	0	3	0	4	0	7
943	90	3	0.906667	0.493665	1	3	2	0	4	0	11
944	20	3	0.493333	0.796292	1	0	3	1	1	0	23
945	50	4	0.880000	0.452967	1	3	3	0	0	0	17
946	80	3	0.506667	0.412361	1	3	3	0	4	0	12
947	20	3	0.706667	0.806242	1	3	3	0	4	0	23
948	60	3	0.440000	0.773486	1	0	3	0	4	0	5
949	20	3	0.613333	0.486341	1	3	3	0	4	0	14
950	20	3	0.373333	0.352843	1	3	3	0	4	0	12
951	20	2	0.373333	0.389926	1	3	3	0	0	0	20
952	85	3	0.373333	0.352843	1	3	3	0	4	0	5
953	60	3	0.493333	0.592336	1	0	3	0	4	1	11
954	90	3	0.040000	0.488813	1	0	3	0	1	0	7
955	90	2	0.666667	0.348888	1	0	1	0	4	0	6
956	50	4	0.493333	0.493619	1	3	3	0	4	0	1
957	20	3	0.506667	0.366440	1	3	3	0	4	0	19
958	20	3	0.440000	0.430099	1	3	3	0	4	0	5
959	50	1	0.493333	0.066811	1	3	3	0	2	0	21
960	20	3	0.240000	0.353276	1	0	3	0	4	0	3
961	60	3	0.493333	0.663535	1	0	3	0	0	0	14
962	50	3	0.493333	0.050494	1	3	3	0	0	0	13
963	20	3	0.493333	0.644747	1	0	3	0	0	0	5
964	60	3	0.640000	0.607231	1	3	3	0	0	0	23
965	60	3	0.440000	0.540544	1	3	3	0	4	0	8
966	50	3	0.493333	0.501174	1	0	1	0	4	0	6
967	20	3	0.493333	0.364586	1	0	3	0	4	0	12
968	50	4	0.240000	0.274042	1	3	3	0	4	0	17
969	50	3	0.573333	0.549506	1	3	3	0	4	0	12
970	50	3	0.373333	0.575340	1	3	3	0	4	0	12
971	50	3	0.053333	0.048022	1	3	3	0	4	0	16
972	120	3	0.306667	0.395612	1	3	3	0	4	0	20
973	20	1	0.840000	0.627194	1	3	3	0	0	0	21
974	70	3	0.373333	0.613288	1	0	3	0	0	0	3
975	50	1	0.493333	0.071693	1	3	3	0	2	0	21
976	30	3	0.253333	0.272497	1	0	0	0	4	0	3
977	120	1	0.040000	0.172002	1	0	3	0	4	0	21
978	20	3	0.480000	0.491904	1	3	0	0	4	1	7
979	20	3	0.640000	0.452719	1	3	3	0	0	0	19
980	85	3	0.493333	0.657046	1	0	3	0	0	0	12
981	60	3	0.880000	0.662052	1	0	3	0	0	0	15
982	20	3	0.146667	0.104512	1	3	3	0	4	0	0
983	60	3	0.493333	0.603152	1	3	3	0	0	0	5
984	90	3	0.573333	0.533622	1	3	3	0	4	0	11

985	50	3	0.480000	0.580284	1	3	3	0	4	0	7
986	50	4	0.360000	0.236032	1	3	3	0	0	0	17
987	20	3	0.680000	0.535723	1	0	3	0	4	0	16
988	60	3	0.493333	0.652349	1	0	3	0	4	0	14
989	60	1	0.440000	0.410012	1	3	3	0	4	0	21
990	60	3	0.666667	0.492027	1	3	3	0	4	0	15
991	70	4	0.493333	1.000000	1	3	3	0	0	0	17
992	60	3	0.640000	0.511063	1	3	3	0	4	1	12
993	60	3	0.480000	0.454574	1	3	3	0	4	0	5
994	20	3	0.853333	0.677689	1	3	3	0	2	0	16
995	50	3	0.253333	0.199073	1	0	3	0	4	1	3
996	20	3	0.493333	0.566625	1	0	3	0	4	0	12
997	20	3	0.493333	0.632015	1	0	3	0	4	0	14
998	30	4	0.373333	0.512670	1	3	3	0	4	0	9
999	20	3	0.426667	0.325773	1	3	3	0	4	0	5
1000	20	3	0.560000	0.538628	1	3	3	0	0	0	7
1001	30	3	0.373333	0.241595	1	3	3	0	0	0	17
1002	20	3	0.573333	0.646848	1	0	3	0	4	0	21
1003	90	3	0.493333	0.618603	1	0	3	0	0	0	14
1004	120	3	0.146667	0.104512	1	3	3	0	4	0	0
1005	80	3	0.440000	0.426082	1	3	3	0	4	0	5
1006	20	3	0.493333	0.659085	1	2	3	0	4	0	12
1007	50	4	0.493333	0.044870	1	3	3	0	4	0	10
1008	20	3	0.146667	0.656799	1	0	3	0	1	0	11
1009	50	3	0.373333	0.278677	1	3	3	0	4	0	18
1010	50	3	0.493333	0.493665	1	3	3	0	4	0	19
1011	90	3	0.573333	0.515080	1	3	3	0	4	0	7
1012	70	3	0.306667	0.562485	1	3	3	0	4	0	6
1013	30	4	0.373333	0.352843	1	3	3	0	4	0	17
1014	20	3	0.373333	0.628739	1	3	3	0	4	0	12
1015	60	3	0.506667	0.427009	1	3	3	0	4	0	14
1016	20	3	0.546667	0.642274	1	3	3	0	4	0	5
1017	120	3	0.493333	0.267182	1	0	3	0	1	0	22
1018	80	3	0.493333	0.574351	1	0	3	0	2	0	8
1019	120	3	0.146667	0.094067	1	3	3	0	4	0	0
1020	20	3	0.373333	0.341965	1	3	3	0	4	0	7
1021	20	3	0.426667	0.365575	1	3	3	0	4	0	5
1022	50	4	0.266667	0.491224	1	3	3	0	4	0	17
1023	120	3	0.146667	0.104512	1	3	3	0	4	0	0
1024	20	3	0.493333	0.865698	1	0	3	0	0	0	23
1025	20	3	0.506667	0.383745	1	3	3	0	0	0	5
1026	20	3	0.546667	0.482633	1	3	3	0	4	0	12
1027	20	3	0.520000	0.496230	1	0	1	0	4	0	23
1028	50	3	0.626667	0.494499	1	3	3	0	4	0	12
1029	50	4	0.493333	0.011681	1	3	3	0	4	0	2
1030	50	2	0.493333	0.345550	1	3	3	0	4	0	18
1031	75	3	0.933333	0.888257	1	3	3	0	0	0	18
1032	60	3	0.493333	0.806551	1	0	3	0	0	0	15
1033	20	3	0.493333	0.410012	1	3	3	0	4	0	5
1034	30	3	0.240000	0.297528	1	3	0	0	4	0	6
1035	20	3	0.493333	0.618603	1	0	3	0	1	0	7
1036	20	3	0.760000	0.705006	1	0	1	0	4	0	23
1037	60	3	0.493333	0.478925	1	3	3	0	4	0	5
1038	50	4	0.493333	0.002596	1	3	3	0	4	0	10
1039	50	4	0.493333	0.493619	1	3	3	0	4	0	10

1040	20	3	0.746667	0.719036	1	3	3	0	0	0	19
1041	60	3	0.493333	0.472126	1	3	3	0	4	0	14
1042	120	3	0.026667	0.240420	1	0	3	0	4	0	16
1043	60	3	0.720000	0.639555	1	3	3	0	4	0	20
1044	20	3	0.640000	0.501174	1	3	3	0	4	0	14
1045	20	3	0.493333	0.753337	1	0	3	0	1	0	7
1046	60	3	0.706667	0.900185	1	0	3	0	4	0	22
1047	20	3	0.333333	0.479234	1	1	3	0	4	0	5
1048	20	3	0.906667	0.493665	1	3	3	0	4	0	11
1049	20	3	0.373333	0.593881	1	3	2	0	4	0	7
1050	20	3	0.546667	0.463659	1	0	3	0	4	0	8
1051	20	3	0.946667	0.598517	1	0	3	0	0	0	5
1052	60	3	0.906667	0.494994	1	3	3	0	0	0	12
1053	20	3	0.480000	0.437021	1	3	3	0	4	1	7
1054	60	3	0.773333	0.610383	1	3	3	0	0	0	5
1055	20	3	0.960000	0.610012	1	3	3	0	4	0	14
1056	120	3	0.146667	0.343696	1	0	3	0	4	0	16
1057	60	3	0.493333	0.493665	1	1	3	0	2	0	15
1058	60	3	0.853333	0.606737	1	0	3	0	4	0	16
1059	50	3	0.493333	0.604697	1	0	1	0	0	1	6
1060	120	3	0.120000	0.211928	1	3	3	0	4	0	22
1061	30	0	0.493333	0.493665	0	3	2	0	4	0	9
1062	50	4	0.706667	0.748393	1	3	3	0	4	0	17
1063	30	4	0.240000	0.278677	1	3	3	0	4	0	17
1064	20	3	0.493333	0.587701	1	0	3	0	1	0	12
1065	60	3	0.640000	0.773115	1	3	3	0	4	1	4
1066	60	3	0.360000	0.392213	1	0	3	0	4	0	8
1067	60	3	0.640000	0.511063	1	3	3	0	4	1	12
1068	50	4	0.133333	0.152843	1	3	3	0	4	0	10
1069	45	3	0.373333	0.501174	1	3	3	0	4	0	12
1070	20	3	0.533333	0.535290	1	3	3	0	4	0	12
1071	60	3	0.613333	0.630964	1	3	3	0	4	0	14
1072	50	3	0.240000	0.376638	1	3	3	0	4	0	7
1073	60	3	0.573333	0.399197	1	0	0	0	0	0	7
1074	20	3	0.560000	0.436650	1	3	3	0	4	0	5
1075	70	3	0.573333	0.719036	1	3	3	0	4	0	6
1076	50	3	0.373333	0.575340	1	3	3	0	4	0	17
1077	20	3	0.493333	0.888690	1	0	3	0	0	0	12
1078	120	4	0.066667	0.181953	1	3	3	0	4	0	5
1079	20	3	0.440000	0.450185	1	3	3	0	4	0	5
1080	20	3	0.640000	0.590173	1	3	3	0	4	0	14
1081	20	3	0.573333	0.371384	1	3	3	0	0	0	19
1082	20	3	0.506667	0.448578	1	3	3	0	4	0	5
1083	20	3	0.640000	0.451731	1	3	3	0	4	0	12
1084	60	3	0.493333	0.713226	1	1	3	0	0	0	8
1085	85	3	0.546667	0.468356	1	3	3	0	4	0	20
1086	50	4	0.493333	0.029852	1	3	3	0	4	0	10
1087	60	1	0.706667	0.561372	1	3	3	0	4	0	21
1088	50	4	0.493333	0.063721	1	3	3	0	4	0	7
1089	120	1	0.066667	0.112794	1	0	3	0	4	0	21
1090	90	3	0.373333	0.435909	1	3	3	0	0	0	12
1091	50	1	0.493333	0.041347	1	3	3	0	4	0	21
1092	50	3	0.373333	0.427009	1	3	0	0	4	0	18
1093	20	3	0.520000	0.478307	1	3	3	0	0	0	12
1094	20	3	0.560000	0.270519	1	3	3	0	4	0	12

1095	20	3	0.613333	0.483684	1	0	3	0	4	0	5
1096	70	4	0.373333	0.333189	1	3	3	0	4	0	9
1097	120	3	0.493333	0.136279	1	3	3	0	4	0	22
1098	50	4	0.240000	0.278677	1	3	3	0	4	0	3
1099	20	3	0.666667	0.642089	1	0	3	0	4	0	14
1100	30	3	0.373333	0.427009	1	3	0	0	4	0	18
1101	20	3	0.386667	0.510939	1	0	3	0	4	0	12
1102	20	3	0.506667	0.340482	1	3	3	0	4	0	12
1103	20	3	0.626667	0.458529	1	3	3	0	0	0	12
1104	50	4	0.493333	0.032447	1	3	3	0	4	0	2
1105	60	3	0.880000	0.665328	1	0	3	0	0	0	15
1106	20	3	0.493333	0.547960	1	0	3	0	0	0	20
1107	60	3	0.493333	0.493665	1	2	1	0	1	0	8
1108	60	3	0.493333	0.406180	1	3	3	0	4	0	8
1109	20	3	1.000000	0.610074	1	0	3	0	4	0	16
1110	60	3	0.493333	0.402287	1	3	3	0	4	0	8
1111	60	3	0.640000	0.555562	1	3	3	0	4	0	14
1112	20	3	0.546667	0.346663	1	0	3	0	0	0	12
1113	20	3	0.453333	0.459333	1	3	3	0	4	0	12
1114	20	3	0.773333	0.241595	1	3	3	0	4	0	17
1115	20	3	0.813333	0.654759	1	3	3	0	4	0	16
1116	80	3	0.493333	0.386836	1	3	3	0	4	0	8
1117	20	3	0.333333	0.511310	1	0	3	0	2	0	19
1118	80	3	0.706667	0.762299	1	3	3	0	4	0	19
1119	20	3	0.506667	0.375093	1	3	3	0	4	0	12
1120	30	4	0.360000	0.418541	1	3	0	0	4	1	9
1121	20	3	0.693333	0.531088	1	3	3	0	4	0	5
1122	20	3	0.493333	0.459518	1	0	3	0	0	0	7
1123	20	3	0.240000	0.489122	1	3	3	0	4	0	7
1124	80	3	0.493333	0.471817	1	0	3	0	4	0	8
1125	20	3	0.373333	0.552719	1	3	3	0	4	0	12
1126	120	3	0.280000	0.135538	1	3	3	0	4	0	0
1127	20	3	0.493333	0.808467	1	2	3	0	0	0	8
1128	60	3	0.360000	0.636897	1	0	3	0	4	0	8
1129	90	4	0.373333	0.352843	1	3	3	0	4	0	17
1130	50	3	0.440000	0.390173	1	3	3	0	4	0	18
1131	20	3	0.413333	0.569901	1	3	3	0	4	0	11
1132	70	4	0.773333	0.519716	1	3	3	0	4	0	17
1133	60	3	0.640000	0.515266	1	0	3	0	4	0	20
1134	60	3	0.333333	0.450062	1	0	1	0	4	0	8
1135	30	4	0.373333	0.289802	1	3	3	0	0	0	3
1136	50	3	0.640000	0.501174	1	3	3	0	4	0	12
1137	50	3	0.293333	0.299815	1	3	3	0	4	0	19
1138	20	3	0.493333	0.514710	1	0	3	0	4	1	11
1139	30	3	0.880000	0.447466	1	0	3	0	4	0	3
1140	20	3	0.373333	0.362114	1	3	3	0	0	0	12
1141	60	3	0.493333	0.544685	1	0	3	0	1	0	14
1142	60	3	0.600000	0.523733	1	3	3	0	4	0	5
1143	20	3	0.493333	0.464091	1	3	3	0	4	0	19
1144	50	3	0.373333	0.660630	1	3	3	0	4	0	7
1145	50	4	0.266667	0.293511	1	3	3	0	4	0	3
1146	20	3	0.493333	0.600062	1	3	3	0	4	0	20
1147	70	3	0.573333	0.649506	1	3	0	0	4	0	6
1148	50	4	0.493333	0.260136	1	3	3	0	4	0	17
1149	70	4	0.240000	0.464091	1	3	3	0	4	0	17

1150	20	3	0.333333	0.419592	1	0	3	0	4	0	12
1151	20	3	0.493333	0.493665	1	3	3	0	4	0	7
1152	20	3	0.773333	0.780222	1	0	3	0	4	0	6
1153	30	4	0.493333	0.271879	1	3	3	0	0	0	9
1154	60	3	0.493333	0.754574	1	0	3	0	4	0	12
1155	20	3	0.773333	0.573362	1	0	3	0	0	0	24
1156	80	3	0.706667	0.485723	1	3	3	0	4	0	12
1157	120	3	0.026667	0.216934	1	0	3	0	4	0	16
1158	20	3	0.800000	0.645303	1	3	3	0	2	0	21
1159	60	3	0.586667	0.471508	1	3	3	0	4	0	14
1160	50	3	0.493333	0.048764	1	3	3	0	4	0	13
1161	20	3	0.493333	0.821199	1	0	2	0	1	0	6
1162	20	3	0.493333	0.447033	1	3	3	0	4	0	19
1163	90	3	0.373333	0.705130	1	3	3	0	4	0	19
1164	80	3	0.493333	0.906428	1	0	3	0	2	0	24
1165	20	3	0.626667	0.497528	1	0	3	0	4	0	16
1166	20	3	0.426667	0.555253	1	0	3	0	0	0	5
1167	60	3	0.346667	0.578554	1	0	3	0	4	0	8
1168	70	3	0.493333	0.756304	1	3	3	0	0	0	7
1169	60	3	0.493333	0.493665	1	0	3	0	1	0	15
1170	80	3	0.586667	0.518480	1	3	3	0	4	0	11
1171	20	3	0.586667	0.471508	1	3	3	0	4	0	12
1172	50	1	0.040000	0.156119	1	0	3	0	4	0	21
1173	50	3	0.493333	0.493665	1	0	0	0	4	0	4
1174	70	3	0.640000	0.931335	1	0	3	0	4	0	6
1175	50	3	0.706667	0.567800	1	3	3	0	4	0	15
1176	20	3	0.066667	0.337454	1	0	3	0	1	0	11
1177	50	4	0.493333	0.151978	1	3	0	0	4	0	17
1178	50	3	0.293333	0.382571	1	0	3	0	2	0	6
1179	20	3	0.600000	0.422991	1	3	3	0	0	0	7
1180	60	3	0.493333	0.598208	1	1	3	0	0	0	23
1181	120	4	0.426667	0.253152	1	0	1	0	4	1	6
1182	60	3	0.493333	0.873424	1	0	3	0	0	0	15
1183	30	3	0.373333	0.575340	1	3	3	0	4	0	17
1184	20	3	0.240000	0.493665	0	3	3	0	4	1	23
1185	50	3	0.373333	0.509703	1	3	3	0	4	0	7
1186	50	3	1.000000	0.563906	1	0	0	0	0	1	17
1187	20	3	0.760000	0.677998	1	3	3	0	0	0	15
1188	60	3	0.480000	0.460074	1	0	3	0	4	0	5
1189	60	3	0.373333	0.371384	1	3	3	0	4	0	8
1190	50	3	0.493333	0.493665	1	3	2	0	4	1	11
1191	50	1	0.493333	0.071323	1	3	3	0	4	0	21
1192	50	4	0.373333	0.501174	1	3	3	0	4	0	17
1193	120	4	0.493333	0.185970	1	3	3	0	2	0	11
1194	60	3	0.640000	0.486588	1	3	3	0	0	0	19
1195	60	3	0.253333	0.404079	1	0	3	0	4	0	8
1196	60	3	0.346667	0.776452	1	0	3	0	4	0	8
1197	75	4	0.440000	0.454821	1	0	0	0	0	0	17
1198	20	3	0.506667	0.470272	1	3	3	0	4	0	5
1199	20	3	0.573333	0.602225	1	3	3	0	4	0	19
1200	20	3	0.520000	0.485909	1	3	3	0	4	0	12
1201	60	3	0.640000	0.550618	1	3	3	0	0	0	5
1202	50	4	0.240000	0.278677	1	3	3	0	0	0	3
1203	20	3	0.573333	0.510445	1	3	3	0	4	0	5

1204	20	3	0.613333	0.534549	1	3	3	0	4	0	14
1205	20	3	0.773333	0.815389	1	0	3	0	1	0	20
1206	20	2	0.493333	0.457911	1	3	3	0	4	0	20
1207	20	3	0.506667	0.472435	1	3	3	0	4	0	5
1208	20	3	0.506667	0.387639	1	3	3	0	4	0	12
1209	20	3	0.706667	0.537145	1	0	3	0	1	0	21
1210	60	3	0.506667	0.601174	1	3	3	0	4	0	20
1211	50	3	0.493333	0.657787	1	0	0	0	4	1	8
1212	30	3	0.240000	0.485105	1	3	3	0	4	0	7
1213	80	3	0.493333	0.541100	1	0	3	0	1	0	19
1214	85	3	0.493333	0.538566	1	0	3	0	4	0	12
1215	20	3	0.893333	0.346292	1	0	3	0	4	0	19
1216	90	4	0.480000	0.459765	1	3	3	0	4	0	19
1217	20	1	0.533333	0.441842	1	3	3	0	4	0	21
1218	50	4	0.266667	0.293511	1	3	3	0	4	0	3
1219	50	4	0.493333	0.011681	1	3	3	0	4	0	2
1220	20	3	0.453333	0.389926	1	0	3	0	4	0	12
1221	20	3	0.306667	0.417738	1	3	3	0	4	0	19
1222	50	3	0.613333	0.556551	1	3	3	0	4	0	12
1223	20	3	0.760000	0.567923	1	3	3	0	4	0	12
1224	60	3	0.373333	0.858653	1	0	3	0	4	0	8
1225	80	3	0.440000	0.555686	1	3	3	0	4	0	12
1226	60	3	0.720000	0.810074	1	0	3	0	1	0	21
1227	20	3	0.533333	0.456180	1	3	3	0	0	0	12
1228	120	3	0.440000	0.449815	1	3	3	0	0	0	16
1229	80	3	0.506667	0.396724	1	3	3	0	4	0	12
1230	90	3	0.493333	0.493665	1	0	3	0	4	0	19
1231	90	3	0.506667	0.385476	1	3	3	0	4	0	12
1232	90	3	0.506667	0.516131	1	3	3	0	2	0	12
1233	20	3	0.493333	0.659394	1	0	3	0	4	0	12
1234	70	2	0.306667	0.434734	1	3	0	0	4	0	18
1235	70	3	0.853333	0.719468	1	3	3	0	4	0	6
1236	50	3	0.053333	0.070272	1	3	3	0	4	0	16
1237	60	3	0.120000	0.673795	1	1	3	0	2	0	5
1238	20	3	0.413333	0.715760	1	3	3	0	4	0	20
1239	20	3	0.426667	0.466378	1	0	1	0	4	0	23
1240	60	3	0.440000	0.412052	1	3	3	0	4	0	5
1241	20	3	0.680000	0.516564	1	3	3	0	4	0	21
1242	85	3	0.706667	0.564524	1	3	3	0	4	0	14
1243	20	3	1.000000	0.766378	1	3	3	0	4	0	16
1244	70	3	0.493333	0.614586	1	0	1	0	0	1	6
1245	80	3	0.613333	0.655068	1	3	3	0	4	0	14
1246	60	1	0.440000	0.410012	1	3	3	0	4	0	21
1247	80	3	0.493333	0.669778	1	0	3	0	4	0	11
1248	75	4	0.373333	0.501174	1	3	3	0	4	0	17
1249	20	3	0.373333	0.352843	1	3	3	0	4	0	12
1250	20	3	0.813333	0.597590	1	3	3	0	0	0	12
1251	120	3	0.493333	0.101669	1	0	3	0	0	0	16
1252	20	3	0.400000	0.517120	1	3	3	0	4	0	11
1253	60	3	0.493333	0.992027	1	0	3	0	4	0	24
1254	60	3	0.373333	0.336218	1	3	3	0	4	0	7
1255	50	4	0.266667	0.293511	1	3	3	0	4	0	3
1256	20	3	0.786667	0.791842	1	0	3	0	0	0	15
1257	30	3	0.320000	0.158776	1	3	3	0	0	0	7
1258	80	3	0.360000	0.500371	1	0	3	0	4	0	8

1259	20	3	0.440000	0.510445	1	3	3	0	2	0	12
1260	60	3	0.493333	0.493665	1	2	3	0	1	0	8
1261	20	3	0.640000	0.501174	1	3	3	0	4	0	12
1262	50	3	0.493333	0.603152	1	3	3	0	4	0	4
1263	70	3	0.373333	0.743140	1	3	3	0	4	0	3
1264	120	2	0.026667	0.158776	1	3	3	0	4	0	12
1265	50	1	0.040000	0.138690	1	3	3	0	3	0	21
1266	50	4	0.373333	0.533313	1	0	0	0	4	0	17
1267	20	3	0.760000	0.724536	1	0	1	0	4	0	23
1268	50	3	0.493333	0.779295	1	0	3	0	4	1	6
1269	50	3	0.613333	0.608962	1	3	3	0	4	0	12
1270	40	3	0.493333	0.493665	1	3	2	0	4	2	4
1271	20	3	0.493333	0.473733	1	0	3	0	4	0	14
1272	20	3	0.493333	0.743820	1	0	3	0	1	0	19
1273	80	3	0.493333	0.619345	1	0	3	0	0	0	7
1274	50	3	0.280000	0.239246	1	3	3	0	0	0	6
1275	90	3	0.840000	0.609023	1	3	3	0	0	0	12
1276	60	3	0.493333	0.707355	1	0	3	0	1	0	14
1277	80	3	0.493333	0.493665	1	0	3	0	1	0	14
1278	60	3	0.573333	0.493325	1	3	3	0	4	0	5
1279	50	0	0.373333	0.371384	1	3	3	0	4	0	9
1280	20	3	0.466667	0.514030	1	0	3	0	4	0	5
1281	20	3	0.240000	0.405315	1	0	3	0	1	0	23
1282	20	3	0.386667	0.451731	1	0	3	0	4	0	5
1283	90	3	0.826667	0.488813	1	3	2	0	0	0	11
1284	50	3	0.240000	0.503523	1	3	3	0	4	0	18
1285	50	4	0.240000	0.278677	1	3	3	0	4	0	3
1286	20	3	0.493333	0.512917	1	3	3	0	4	0	14
1287	20	3	0.493333	0.493665	1	0	2	0	4	1	4
1288	120	3	0.106667	0.257911	1	0	3	0	4	0	22
1289	60	3	0.720000	0.591718	1	0	3	0	4	0	16
1290	80	3	0.493333	0.780037	1	0	3	0	0	0	12
1291	50	4	0.493333	0.011681	1	3	3	0	4	0	2
1292	70	4	0.373333	0.315760	1	3	3	0	0	0	17
1293	60	3	0.613333	0.534549	1	3	3	0	4	0	14
1294	20	3	0.373333	0.412917	1	3	3	0	4	0	7
1295	20	3	0.506667	0.427009	1	3	3	0	4	0	12
1296	20	3	0.640000	0.445550	1	3	3	0	4	0	12
1297	50	4	0.040000	0.134981	1	3	3	0	4	0	7
1298	60	3	0.493333	0.493665	1	2	0	0	0	0	7
1299	20	3	0.573333	0.371384	1	3	3	0	4	0	12
1300	60	3	0.493333	0.572991	1	0	3	0	1	0	8
1301	70	3	0.493333	0.371384	1	0	0	0	4	0	6
1302	60	3	0.800000	0.533313	1	3	3	0	4	0	15
1303	20	3	0.546667	0.444808	1	3	3	0	4	0	21
1304	50	4	0.000000	0.115698	1	3	3	0	4	0	7
1305	20	3	0.493333	0.722002	1	0	3	0	0	0	16
1306	120	3	0.213333	0.337701	1	0	3	0	4	0	16
1307	20	3	0.373333	0.406737	1	3	3	0	4	0	5
1308	20	4	0.906667	0.649506	1	3	3	0	4	0	17
1309	20	3	0.493333	0.349938	1	3	3	0	4	0	20
1310	20	3	0.906667	0.989431	1	3	3	0	4	0	6
1311	20	3	0.480000	0.452596	1	3	3	0	4	0	5
1312	60	3	0.493333	0.499444	1	0	3	0	4	0	15
1313	60	3	0.493333	0.820952	1	0	3	0	0	0	15

1314	20	3	0.373333	0.414030	1	3	3	0	4	0	7
1315	60	3	0.706667	0.592336	1	3	3	0	4	0	12
1316	20	3	0.386667	0.539864	1	0	3	0	4	0	5
1317	120	1	0.200000	0.169283	1	3	3	0	0	0	21
1318	20	3	0.493333	0.821384	1	1	3	0	1	0	5
1319	20	3	0.573333	0.539184	1	3	0	0	4	0	7
1320	20	3	0.506667	0.427009	1	3	3	0	4	0	12
1321	20	3	0.493333	0.317429	1	0	3	0	0	0	3
1322	60	3	1.000000	0.537392	1	0	3	0	4	0	15
1323	30	3	0.240000	0.237268	1	3	1	0	4	0	3
1324	20	3	0.573333	0.525031	1	3	3	0	4	0	21
1325	30	4	0.106667	0.132571	1	3	3	0	4	0	9
1326	30	2	0.506667	0.171755	1	3	0	0	4	1	7
1327	20	3	0.373333	0.315760	1	3	3	0	4	0	11
1328	50	4	0.373333	0.553090	1	3	3	0	0	0	17
1329	60	3	0.413333	0.469283	1	0	3	0	4	0	8
1330	20	3	0.706667	0.525896	1	3	3	0	4	0	21
1331	80	3	0.306667	0.574104	1	0	3	0	4	0	5
1332	20	3	0.466667	0.456489	1	3	3	0	4	1	7
1333	50	4	0.373333	0.352843	1	3	3	0	0	0	9
1334	50	4	0.493333	0.054203	1	3	3	0	4	0	2
1335	20	3	0.640000	0.504265	1	3	3	0	4	0	14
1336	90	3	0.733333	0.479295	1	0	3	0	4	0	14
1337	30	4	0.493333	0.162361	1	0	0	0	0	1	17
1338	60	3	0.840000	0.739122	1	0	3	0	0	0	5
1339	20	3	0.493333	0.498702	1	0	3	0	0	0	5
1340	20	3	0.506667	0.420457	1	3	3	0	4	0	12
1341	20	3	0.453333	0.754265	1	3	3	0	4	0	20
1342	60	3	0.493333	0.487268	1	3	3	0	4	0	5
1343	50	3	0.333333	0.374969	1	3	0	0	4	0	6
1344	60	3	0.706667	0.594067	1	0	3	0	0	0	5
1345	30	4	0.240000	0.278677	1	3	3	0	4	0	17
1346	20	3	0.493333	0.493665	1	1	3	0	1	0	14
1347	20	3	0.813333	0.853832	1	0	1	0	0	0	23
1348	20	3	0.493333	0.908838	1	2	2	0	4	0	20
1349	70	4	0.240000	0.232324	1	3	3	0	4	0	17
1350	90	3	0.786667	0.627441	1	3	3	0	4	0	12
1351	60	3	0.506667	0.479357	1	0	3	0	4	0	12
1352	50	4	0.240000	0.278677	1	3	3	0	4	0	3
1353	50	3	0.320000	0.817614	1	0	3	0	1	0	15
1354	60	3	0.493333	0.545426	1	0	3	0	4	0	5
1355	80	3	0.933333	0.537763	1	0	3	0	4	0	14
1356	20	3	0.493333	0.493572	1	3	3	0	0	0	12
1357	20	3	0.493333	0.682695	1	0	3	0	1	0	12
1358	50	1	0.493333	0.038690	1	3	3	0	4	0	21
1359	20	3	0.493333	0.942274	1	3	3	0	3	0	16
1360	70	3	0.253333	0.516131	1	3	3	0	4	0	18
1361	20	3	0.493333	0.906489	1	0	2	0	4	1	22
1362	50	3	0.493333	0.681211	1	0	3	0	2	0	12
1363	60	3	0.546667	0.433127	1	0	3	0	4	0	8
1364	50	1	0.493333	0.104388	1	3	3	0	4	0	21
1365	60	1	0.493333	0.371384	1	3	3	0	4	0	21
1366	60	3	0.480000	0.475155	1	0	3	0	4	0	5
1367	50	4	0.120000	0.072559	1	3	3	0	4	0	10
1368	120	4	0.493333	0.181953	1	3	3	0	4	0	5

1369	20	3	0.213333	0.565142	1	1	3	0	2	0	5
1370	50	3	0.773333	0.241595	1	3	3	0	0	0	17
1371	80	3	0.640000	0.501174	1	3	3	0	4	0	12
1372	60	3	0.573333	0.510445	1	3	3	0	0	0	5
1373	20	3	0.493333	0.612423	1	3	3	0	4	0	15
1374	60	1	0.706667	0.564524	1	3	3	0	4	0	21
1375	20	3	0.760000	0.587145	1	0	1	0	4	0	23
1376	30	3	0.266667	0.296724	1	3	0	0	4	0	18
1377	50	3	0.373333	0.587577	1	3	3	0	4	0	7
1378	50	4	0.493333	0.028554	1	3	3	0	4	0	2
1379	80	3	0.546667	0.509518	1	3	3	0	4	0	23
1380	30	3	0.173333	0.415389	1	3	3	0	4	0	7
1381	20	3	0.493333	0.706675	1	0	3	0	0	0	12
1382	70	4	0.373333	0.352843	1	3	3	0	0	0	17
1383	30	3	0.493333	0.493665	1	3	3	0	4	0	19
1384	50	3	0.373333	0.467800	1	3	3	0	4	0	7
1385	50	4	0.106667	0.243820	1	3	3	0	4	0	9
1386	60	3	0.640000	0.939493	1	0	3	0	4	0	14
1387	50	4	0.373333	0.434425	1	3	3	0	4	0	17
1388	20	3	0.133333	0.828245	1	0	1	0	1	0	8
1389	50	4	0.373333	0.278677	1	3	3	0	4	0	3
1390	20	3	0.506667	0.470272	1	3	3	0	4	0	5
1391	90	3	0.440000	0.460630	1	3	3	0	4	0	12
1392	85	3	0.480000	0.392274	1	3	3	0	4	0	12
1393	50	4	0.373333	0.575340	1	3	3	0	4	0	17
1394	120	3	0.280000	0.157849	1	3	3	0	4	0	0
1395	60	3	0.746667	0.690606	1	0	3	0	4	0	23
1396	20	3	0.493333	0.493665	1	0	0	0	4	2	23
1397	70	4	0.253333	0.286094	1	3	3	0	4	0	3
1398	50	3	0.373333	0.352843	1	3	3	0	4	0	12
1399	50	3	0.253333	0.289246	1	3	3	0	4	0	18
1400	50	4	0.240000	0.278677	1	3	3	0	0	0	3
1401	60	3	0.400000	0.366131	1	0	3	0	4	0	8
1402	20	3	0.426667	0.325773	1	3	3	0	4	0	5
1403	20	3	0.226667	0.850742	1	0	3	0	1	0	21
1404	50	3	0.373333	0.551236	1	3	3	0	0	0	17
1405	120	4	0.160000	0.145303	1	0	1	0	4	1	6
1406	85	3	0.506667	0.429790	1	3	3	0	0	0	5
1407	20	3	0.493333	0.450494	1	0	3	0	0	0	11
1408	70	4	0.373333	0.386218	1	3	3	0	4	0	17
1409	60	3	0.186667	0.493665	1	0	3	0	1	0	14
1410	60	3	0.626667	0.675464	1	3	3	0	4	0	5
1411	50	3	0.640000	0.501174	1	3	3	0	4	0	12
1412	90	3	0.373333	0.352843	1	3	3	0	4	0	12
1413	20	3	0.746667	0.587330	1	0	3	0	0	0	20
1414	50	3	0.426667	0.714586	1	3	0	0	4	0	3
1415	120	3	0.253333	0.132509	1	3	3	0	4	0	0
1416	50	4	0.373333	0.608714	1	3	3	0	4	0	17
1417	60	3	0.493333	0.930408	1	0	3	0	4	0	15
1418	20	3	0.520000	0.476700	1	3	3	0	4	0	12
1419	20	3	0.493333	0.920272	1	0	3	0	4	0	6
1420	60	3	0.773333	0.630964	1	3	3	0	0	0	14
1421	120	3	0.280000	0.157726	1	3	3	0	4	0	13
1422	120	4	0.066667	0.181953	1	3	3	0	4	0	5

1423	80	3	0.493333	0.493665	1	0	3	0	1	0	7
1424	20	3	0.493333	0.495179	1	3	3	0	4	0	12
1425	20	3	0.640000	0.570457	1	0	3	0	4	0	12
1426	60	3	0.653333	0.584240	1	0	3	0	4	0	15
1427	50	3	0.373333	0.583375	1	3	0	0	4	0	12
1428	30	4	0.373333	0.352843	1	3	3	0	0	0	17
1429	20	3	0.493333	0.683251	1	0	3	0	0	0	14
1430	60	3	0.373333	0.493665	1	2	3	0	4	0	8
1431	120	3	0.493333	0.212423	1	0	3	0	4	0	13
1432	30	3	0.373333	0.575340	1	3	3	0	4	0	17
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1435	20	3	0.640000	0.427009	1	3	3	0	4	0	12
1436	20	3	0.373333	0.464091	1	3	3	0	2	0	12
1437	20	3	0.853333	0.676947	1	3	3	0	2	0	16
1438	20	4	0.773333	0.365637	1	3	3	0	4	0	17
1439	60	3	0.640000	0.623795	1	3	3	0	4	0	14
1440	70	3	0.626667	0.620210	1	0	0	0	4	1	6
1441	120	4	0.493333	0.181397	1	3	3	0	4	0	5
1442	60	1	0.706667	0.587886	1	3	3	0	4	0	21
1443	30	3	0.493333	0.455068	1	3	3	0	4	0	3
1444	20	3	0.413333	0.433189	1	3	3	0	2	0	5
1445	85	3	0.506667	0.427009	1	3	3	0	4	0	19
1446	20	3	0.493333	0.493665	1	0	3	0	1	0	11
1447	60	3	0.640000	0.525896	1	3	3	0	4	0	5
1448	50	3	0.506667	0.635105	1	3	3	0	4	0	7
1449	50	4	0.493333	0.002596	1	3	3	0	4	0	10
1450	90	3	0.373333	0.464091	1	3	3	0	2	0	12
1451	20	3	0.613333	0.480284	1	3	3	0	4	0	21
1452	50	4	0.040000	0.134981	1	3	3	0	4	0	7
1453	20	3	0.773333	0.971941	1	3	3	0	4	0	11
1454	20	1	0.400000	0.371384	1	3	3	0	4	0	21
1455	60	3	0.400000	0.397157	1	3	3	0	4	0	8
1456	20	3	0.706667	0.722126	1	3	3	0	4	0	14
1457	70	3	0.453333	0.466687	1	3	3	0	4	0	6
1458	20	3	0.480000	0.508405	1	3	3	0	4	0	12
1459	20	3	0.573333	0.522002	1	3	3	0	4	0	7

In [108…

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y=data3.SalePrice
y
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Out[108]:

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7       200000
8       129900
9       118000
10      129500
11      163000
12      144000
13      279500
14      157000
15      132000
16      149000
17       90000
18      159000
19      139000
20      325300
21      139400
22      230000
23      129900
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26	134800
27	306000
28	207500
29	68500
30	40000
31	149350
32	179900
33	165500
34	277500
35	309000
36	145000
37	153000
38	109000
39	82000
40	160000
41	170000
42	144000
43	130250
44	141000
45	319900
46	239686
47	249700
48	113000
49	127000
50	177000
51	114500
52	110000
53	163000
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60	158000
61	101000
62	202500
63	140000
64	219500
65	317000
66	180000
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68	80000
69	225000
70	244000
71	129500
72	185000
73	144900
74	107400
75	91000
76	135750
77	127000
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79	110000
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81	153500
82	245000
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93	133900
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95	185000
96	214000
97	94750
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104	169500
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106	100000
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112	163000

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839	130500
840	140000
841	157500
842	174900
843	141000
844	153900
845	171000
846	213000
847	133500
848	240000
849	187000
850	131500
851	215000
852	164000
853	158000
854	170000
855	127000
856	147000
857	174000
858	152000
859	250000
860	189950
861	131500
862	152000
863	132500
864	250580
865	148500
866	248900
867	129000
868	169000
869	236000
870	109500
871	200500
872	116000
873	133000
874	66500
875	303477
876	132250
877	163000
878	148000
879	136500
880	157000
881	187500
882	178000
883	118500
884	100000
885	328900
886	145000
887	135500
888	268000
889	149500
890	122900
891	172500
892	154500
893	165000
894	118858
895	140000
896	106500
897	142953
898	163000
899	135000
900	110000
901	153000
902	180000
903	240000
904	125500
905	128000
906	255000
907	250000
908	131000
909	174000
910	154300
911	143500
912	88000
913	145000

914	173733
915	75000
916	35311
917	135000
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922	169990
923	193000
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925	175000
926	285000
927	176000
928	236500
929	222000
930	201000
931	117500
932	320000
933	190000
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937	253000
938	239799
939	244400
940	150900
941	214000
942	150000
943	143000
944	137500
945	124900
946	143000
947	270000
948	192500
949	197500
950	129000
951	119900
952	133900
953	172000
954	127500
955	145000
956	124000
957	132000
958	185000
959	155000
960	116500
961	272000
962	155000
963	239000
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965	178900
966	160000
967	135000
968	37900
969	140000
970	135000
971	173000
972	99500
973	182000
974	167500
975	165000
976	85500
977	199900
978	110000
979	139000
980	178400
981	336000
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983	255900
984	126000
985	125000
986	117000
987	163000
988	195000
989	197000
990	163000
991	168000
992	187000
993	173900
994	337500
995	121600
996	136500
997	185000
998	91000
999	206000
1000	82000
1001	86000
1002	232000

1003	136905
1004	181000
1005	149900
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1007	88000
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1010	135000
1011	100000
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1013	85000
1014	119200
1015	227000
1016	203000
1017	187500
1018	160000
1019	213490
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1021	194000
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1023	191000
1024	287000
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1026	167500
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1028	105000
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1038	97000
1039	80000
1040	155000
1041	173000
1042	196000
1043	262280
1044	278000
1045	139600
1046	163000
1047	145000
1048	115000
1049	84900
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1051	200141
1052	165000
1053	144500
1054	255000
1055	180000
1056	185850
1057	248000
1058	335000
1059	220000
1060	213500
1061	81000
1062	90000
1063	110500
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1065	328000
1066	178000
1067	167900
1068	151400
1069	135000
1070	135000
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1073	159500
1074	194000
1075	219500
1076	170000
1077	138800
1078	155900
1079	126000
1080	145000
1081	133000
1082	192000
1083	160000
1084	187500
1085	147000
1086	83500
1087	252000
1088	137500
1089	197000
1090	92900
1091	160000

1092	136500
1093	146000
1094	129000
1095	176432
1096	127000
1097	170000
1098	128000
1099	157000
1100	60000
1101	119500
1102	135000
1103	159500
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1107	274725
1108	181000
1109	280000
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1111	205000
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1113	134500
1114	117000
1115	318000
1116	184100
1117	130000
1118	140000
1119	133700
1120	118400
1121	212900
1122	112000
1123	118000
1124	163900
1125	115000
1126	174000
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1128	215000
1129	140000
1130	135000
1131	93500
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1133	239500
1134	169000
1135	102000
1136	119000
1137	94000
1138	196000
1139	144000
1140	139000
1141	197500
1142	163000
1143	80000
1144	80000
1145	149000
1146	180000
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1148	116900
1149	143000
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1158	235128
1159	185000
1160	146000
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1168	235000
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1174	239000
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1176	119500
1177	115000
1178	154900
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1183	120000
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1191	174000
1192	125000
1193	165000
1194	158000
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1198	178000
1199	148000
1200	116050
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1204	153500
1205	271900
1206	107000
1207	200000
1208	140000
1209	290000
1210	189000
1211	164000
1212	113000
1213	145000
1214	134500
1215	125000
1216	112000
1217	229456
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1221	134000
1222	143000
1223	137900
1224	184000
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1226	214000
1227	147000
1228	163000
1229	127000
1230	190000
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1232	101800
1233	142000
1234	130000
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1237	195000
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1239	265900
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1241	248328
1242	170000
1243	163000
1244	230000
1245	178000
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1249	119000
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1252	130000
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1257	99900
1258	190000
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1260	181000
1261	128900
1262	161500
1263	180500
1264	181000
1265	183900
1266	122000
1267	163000
1268	163000
1269	144000

1270	260000
1271	185750
1272	137000
1273	177000
1274	139000
1275	137000
1276	162000
1277	197900
1278	237000
1279	68400
1280	227000
1281	180000
1282	150500
1283	139000
1284	169000
1285	132500
1286	143000
1287	190000
1288	278000
1289	281000
1290	180500
1291	119500
1292	107500
1293	162900
1294	115000
1295	138500
1296	155000
1297	140000
1298	160000
1299	154000
1300	225000
1301	177500
1302	290000
1303	232000
1304	130000
1305	325000
1306	202500
1307	138000
1308	147000
1309	179200
1310	335000
1311	203000
1312	302000
1313	333168
1314	119000
1315	206900
1316	295493
1317	208900
1318	275000
1319	111000
1320	156500
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1322	190000
1323	82500
1324	147000
1325	55000
1326	79000
1327	130500
1328	256000
1329	176500
1330	227000
1331	132500
1332	100000
1333	125500
1334	125000
1335	167900
1336	135000
1337	52500
1338	200000
1339	128500
1340	123000
1341	155000
1342	228500
1343	177000
1344	155835
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1346	262500
1347	283463
1348	215000
1349	122000
1350	200000
1351	171000
1352	134900
1353	163000
1354	235000
1355	170000
1356	110000
1357	149900
1358	177500

1359	315000
1360	189000
1361	260000
1362	104900
1363	156932
1364	144152
1365	216000
1366	193000
1367	127000
1368	144000
1369	232000
1370	105000
1371	165500
1372	274300
1373	163000
1374	250000
1375	239000
1376	91000
1377	117000
1378	83000
1379	167500
1380	58500
1381	237500
1382	157000
1383	112000
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1386	250000
1387	136000
1388	163000
1389	131000
1390	235000
1391	124000
1392	123000
1393	163000
1394	246578
1395	281213
1396	160000
1397	137500
1398	138000
1399	137450
1400	120000
1401	193000
1402	193879
1403	282922
1404	105000
1405	275000
1406	133000
1407	112000
1408	125500
1409	215000
1410	230000
1411	140000
1412	90000
1413	257000
1414	207000
1415	175900
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1418	124000
1419	223000
1420	179900
1421	127500
1422	136500
1423	274970
1424	144000
1425	142000
1426	271000
1427	140000
1428	119000
1429	182900
1430	192140
1431	143750
1432	64500
1433	186500
1434	160000
1435	174000
1436	120500
1437	163000
1438	149700
1439	197000
1440	191000
1441	149300
1442	310000
1443	121000
1444	179600
1445	129000
1446	157900
1447	240000

```
1448    112000
1449     92000
1450    136000
1451    287090
1452    145000
1453     84500
1454    185000
1455    175000
1456    210000
1457    266500
1458    142125
1459    147500
Name: SalePrice, dtype: int64
```

In [109…

```python
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(x,y,random_state=56,test_size=0.25)
```

In [110…

```python
x_train
```

Out[110]:

	MSSubClass	MSZoning	LotFrontage	LotArea	Street	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborhood	Condi
584	50	4	0.253333	0.286094	1	3	3	0	4	0	3	
401	20	3	0.440000	0.449691	1	0	3	0	4	0	5	
608	70	3	0.613333	0.659889	1	3	1	0	4	1	6	
450	30	4	0.506667	0.259147	1	3	3	0	4	0	17	
883	75	3	0.373333	0.291286	1	3	0	0	4	0	18	
395	20	3	0.480000	0.499382	1	3	3	0	4	0	7	
1043	60	3	0.720000	0.639555	1	3	3	0	4	0	20	
449	50	4	0.240000	0.278677	1	3	3	0	4	0	17	
1040	20	3	0.746667	0.719036	1	3	3	0	0	0	19	
373	20	3	0.626667	0.565080	1	3	3	0	4	0	12	
983	60	3	0.493333	0.603152	1	3	3	0	0	0	5	
1438	20	4	0.773333	0.365637	1	3	3	0	4	0	17	
1129	90	4	0.373333	0.352843	1	3	3	0	4	0	17	
207	20	3	0.493333	0.679975	1	0	3	0	4	0	12	
873	40	3	0.373333	0.658405	1	3	3	0	4	0	12	
979	20	3	0.640000	0.452719	1	3	3	0	0	0	19	
1161	20	3	0.493333	0.821199	1	0	2	0	1	0	6	
779	90	3	0.613333	0.558653	1	3	3	0	4	0	11	
807	70	3	0.493333	0.493665	1	3	3	0	4	0	3	
1163	90	3	0.373333	0.705130	1	3	3	0	4	0	19	
451	20	3	0.400000	0.493665	1	0	2	0	4	1	4	
888	20	3	0.840000	0.888381	1	0	3	0	4	1	12	
548	20	4	0.226667	0.416811	1	0	1	0	4	0	17	
270	60	1	0.693333	0.570890	1	3	3	0	4	0	21	
1256	20	3	0.786667	0.791842	1	0	3	0	0	0	15	
234	60	3	0.493333	0.393078	1	3	3	0	4	0	8	
205	20	3	0.893333	0.640297	1	3	3	0	0	0	8	
93	50	0	0.373333	0.352843	1	3	3	0	0	0	17	
565	70	3	0.453333	0.331706	1	3	0	0	0	0	18	
113	20	3	0.493333	0.493665	1	3	0	0	0	0	6	
746	60	3	0.493333	0.451422	1	0	3	0	4	0	8	
1453	20	3	0.773333	0.971941	1	3	3	0	4	0	11	
1383	30	3	0.493333	0.493665	1	3	3	0	4	0	19	
1417	60	3	0.493333	0.930408	1	0	3	0	4	0	15	
1322	60	3	1.000000	0.537392	1	0	3	0	4	0	15	
1450	90	3	0.373333	0.464091	1	3	3	0	2	0	12	
1017	120	3	0.493333	0.267182	1	0	3	0	1	0	22	
890	50	3	0.373333	0.406242	1	3	3	0	0	0	12	
591	60	3	0.866667	0.740853	1	0	3	0	0	0	16	
358	80	3	0.800000	0.336156	1	0	3	0	4	0	4	
255	60	3	0.453333	0.447899	1	0	3	0	4	0	8	
1084	60	3	0.493333	0.713226	1	1	3	0	0	0	8	

676	70	4	0.373333	0.501174	1	3	3	0	4	0	17
1162	20	3	0.493333	0.447033	1	3	3	0	4	0	19
274	20	3	0.586667	0.421693	1	3	3	0	0	0	11
512	20	3	0.506667	0.470272	1	3	3	0	0	0	12
842	80	3	0.666667	0.465328	1	3	3	0	4	0	12
589	40	4	0.240000	0.470272	1	3	3	0	4	0	3
390	50	3	0.240000	0.427318	1	3	3	0	4	0	7
1137	50	3	0.293333	0.299815	1	3	3	0	4	0	19
83	20	3	0.640000	0.457417	1	0	3	0	4	0	12
446	20	3	0.493333	0.927132	1	0	3	0	0	0	12
298	60	3	0.773333	0.630964	1	3	3	0	4	0	14
1340	20	3	0.506667	0.420457	1	3	3	0	4	0	12
292	50	3	0.373333	0.612979	1	3	3	0	4	0	7
41	20	3	0.493333	0.952658	1	3	3	0	4	0	23
267	75	3	0.373333	0.427009	1	3	0	0	4	1	18
1083	20	3	0.640000	0.451731	1	3	3	0	4	0	12
220	20	3	0.546667	0.463473	1	0	3	0	4	0	5
1224	60	3	0.373333	0.858653	1	0	3	0	4	0	8
387	80	3	0.533333	0.352843	1	3	3	0	4	0	7
24	20	3	0.493333	0.417491	1	0	3	0	4	0	19
1352	50	4	0.240000	0.278677	1	3	3	0	4	0	3
836	30	4	0.773333	0.408467	1	3	3	0	4	0	17
218	50	3	0.493333	0.875711	1	0	3	0	0	0	6
239	50	3	0.266667	0.448084	1	3	3	0	4	0	7
454	90	3	0.413333	0.482447	1	3	3	0	4	0	11
334	60	3	0.360000	0.466687	1	0	3	0	4	0	8
613	20	3	0.506667	0.427132	1	3	3	0	4	0	11
1024	20	3	0.493333	0.865698	1	0	3	0	0	0	23
1345	30	4	0.240000	0.278677	1	3	3	0	4	0	17
433	60	3	0.906667	0.577750	1	0	3	0	0	0	8
975	50	1	0.493333	0.071693	1	3	3	0	2	0	21
876	20	3	0.826667	0.493665	1	3	1	0	4	1	11
855	20	3	0.493333	0.334116	1	0	3	0	0	0	19
1227	20	3	0.533333	0.456180	1	3	3	0	0	0	12
360	85	3	0.493333	0.373857	1	0	3	0	1	0	11
1358	50	1	0.493333	0.038690	1	3	3	0	4	0	21
1127	20	3	0.493333	0.808467	1	2	3	0	0	0	8
722	20	3	0.506667	0.409703	1	3	3	0	4	0	12
368	20	3	0.613333	0.389926	1	3	3	0	4	0	12
1401	60	3	0.400000	0.366131	1	0	3	0	4	0	8
773	20	3	0.506667	0.535167	1	3	3	0	4	0	12
1278	60	3	0.573333	0.493325	1	3	3	0	4	0	5
320	60	3	0.493333	0.912732	1	3	3	0	0	0	16
577	80	3	0.853333	0.635723	1	0	3	0	4	0	19
699	120	1	0.360000	0.172497	1	1	3	0	4	0	21
907	50	3	0.720000	0.618603	1	0	3	0	4	0	6
348	50	3	0.053333	0.059147	1	3	3	0	4	0	16
367	80	3	0.920000	0.473362	1	0	3	0	0	0	12
1058	60	3	0.853333	0.606737	1	0	3	0	4	0	16
556	20	3	0.493333	0.825649	1	0	3	0	4	0	12
557	50	0	0.373333	0.590173	1	3	2	0	4	1	9
688	20	3	0.373333	0.407787	1	3	1	0	4	0	22
1141	60	3	0.493333	0.544685	1	0	3	0	1	0	14
521	20	3	0.773333	0.648764	1	0	3	0	0	0	12
1399	50	3	0.253333	0.289246	1	3	3	0	4	0	18

344	50	4	0.053333	0.068047	1	3	3	0	4	0	10
764	120	3	0.493333	0.498022	1	0	3	0	1	0	24
920	60	3	0.506667	0.430841	1	0	3	0	4	0	20
1289	60	3	0.720000	0.591718	1	0	3	0	4	0	16
158	60	1	0.906667	0.683622	1	3	3	0	0	0	21
237	60	3	0.493333	0.492089	1	0	3	0	1	0	20
323	20	4	0.226667	0.267553	1	3	3	0	4	0	17
82	20	3	0.613333	0.538628	1	3	3	0	4	0	21
1073	60	3	0.573333	0.399197	1	0	0	0	0	0	7
1172	50	1	0.040000	0.156119	1	0	3	0	4	0	21
704	20	3	0.506667	0.427009	1	3	3	0	4	0	5
1382	70	4	0.373333	0.352843	1	3	3	0	0	0	17
1267	20	3	0.760000	0.724536	1	0	1	0	4	0	23
70	20	3	0.840000	0.751545	1	0	3	0	4	0	12
707	120	3	0.213333	0.293511	1	3	3	0	4	0	16
925	20	3	0.493333	0.872682	1	0	3	0	0	0	14
902	60	3	0.413333	0.394561	1	3	3	0	4	0	8
961	60	3	0.493333	0.663535	1	0	3	0	0	0	14
1384	50	3	0.373333	0.467800	1	3	3	0	4	0	7
524	60	3	0.840000	0.636341	1	0	3	0	4	0	15
870	20	3	0.373333	0.315760	1	3	3	0	4	0	12
1337	30	4	0.493333	0.162361	1	0	0	0	0	1	17
125	50	4	0.373333	0.326885	1	3	3	0	4	0	9
525	20	1	0.400000	0.371384	1	3	3	0	4	0	21
590	60	3	0.426667	0.422064	1	3	3	0	4	0	5
974	70	3	0.373333	0.613288	1	0	3	0	0	0	3
1361	20	3	0.493333	0.906489	1	0	2	0	4	1	22
578	50	1	0.026667	0.130593	1	3	3	0	0	0	21
549	60	1	0.573333	0.487268	1	3	3	0	4	0	21
460	60	1	0.573333	0.402534	1	0	3	0	4	0	21
116	20	3	0.493333	0.625773	1	3	3	0	4	0	19
852	75	3	0.280000	0.348393	1	3	3	0	4	0	6
347	20	3	0.493333	0.995612	1	0	3	0	4	0	12
228	20	3	0.506667	0.434487	1	3	3	0	2	0	19
29	30	4	0.373333	0.298702	1	0	3	0	4	0	3
886	90	3	0.506667	0.426576	1	3	3	0	0	0	12
9	50	3	0.240000	0.366440	1	3	3	0	0	0	3
1105	60	3	0.880000	0.665328	1	0	3	0	0	0	15
10	20	3	0.506667	0.600062	1	3	3	0	4	0	19
1175	50	3	0.706667	0.567800	1	3	3	0	4	0	15
520	50	3	0.373333	0.575340	1	3	3	0	4	0	17
209	20	3	0.573333	0.417738	1	3	3	0	4	0	12
396	20	3	0.373333	0.352843	1	3	2	0	4	0	5
275	50	3	0.306667	0.356799	1	3	3	0	4	0	3
998	30	4	0.373333	0.512670	1	3	3	0	4	0	9
413	30	4	0.320000	0.461619	1	3	3	0	4	0	17
407	70	3	0.413333	0.870519	1	3	3	0	4	0	6
216	20	3	0.440000	0.430099	1	3	3	0	4	0	5
20	60	3	0.920000	0.786403	1	0	3	0	0	0	16
559	120	3	0.493333	0.105377	1	3	3	0	4	0	0
922	20	3	0.440000	0.540544	1	3	3	0	4	0	8
1280	20	3	0.466667	0.514030	1	0	3	0	4	0	5
1095	20	3	0.613333	0.483684	1	0	3	0	4	0	5
103	20	3	0.826667	0.550742	1	0	3	0	0	0	5

1277	80	3	0.493333	0.493665	1	0	3	0	1	0	14
214	60	3	0.493333	0.581520	1	0	3	0	2	0	5
328	75	3	0.493333	0.642583	1	0	0	0	4	0	3
124	20	3	0.213333	0.961187	1	0	3	0	1	0	14
939	70	3	0.493333	0.493665	1	3	3	0	4	0	4
1431	120	3	0.493333	0.212423	1	0	3	0	4	0	13
652	60	3	0.506667	0.448640	1	3	3	0	4	0	5
984	90	3	0.573333	0.533622	1	3	3	0	4	0	11
382	60	3	0.626667	0.479234	1	0	3	0	4	0	5
1176	20	3	0.066667	0.337454	1	0	3	0	1	0	11
249	50	3	0.493333	0.493665	1	1	2	0	1	2	4
3	70	3	0.373333	0.498084	1	0	3	0	0	0	6
655	50	4	0.493333	0.011681	1	3	3	0	4	0	2
763	60	3	0.666667	0.490667	1	3	3	0	4	0	15
1052	60	3	0.906667	0.494994	1	3	3	0	0	0	12
539	20	3	0.493333	0.613844	1	3	3	0	4	0	5
405	20	3	0.493333	0.525340	1	0	3	0	0	0	19
934	20	3	0.493333	0.493665	1	1	1	0	4	1	12
316	60	3	0.826667	0.711619	1	0	3	0	0	0	14
1380	30	3	0.173333	0.415389	1	3	3	0	4	0	7
293	60	3	0.493333	0.937454	1	0	3	0	0	0	14
122	20	3	0.573333	0.492769	1	3	3	0	0	0	12
1241	20	3	0.680000	0.516564	1	3	3	0	4	0	21
563	50	3	0.453333	0.493665	1	3	3	0	4	0	7
169	20	3	0.493333	0.938072	1	0	3	0	0	0	23
957	20	3	0.506667	0.366440	1	3	3	0	4	0	19
572	60	3	0.680000	0.721137	1	0	1	0	0	0	23
1378	50	4	0.493333	0.028554	1	3	3	0	4	0	2
1323	30	3	0.240000	0.237268	1	3	1	0	4	0	3
84	80	3	0.493333	0.435043	1	0	3	0	4	0	8
302	20	3	0.493333	0.754821	1	0	3	0	0	0	5
429	20	3	0.493333	0.615946	1	0	3	0	0	0	23
857	60	3	0.440000	0.410012	1	3	3	0	4	0	8
1145	50	4	0.266667	0.293511	1	3	3	0	4	0	3
1288	120	3	0.106667	0.257911	1	0	3	0	4	0	22
462	20	3	0.373333	0.419654	1	0	3	0	4	0	19
435	60	3	0.146667	0.567120	1	1	3	0	1	0	5
1122	20	3	0.493333	0.459518	1	0	3	0	0	0	7
121	50	4	0.240000	0.282386	1	3	3	0	4	0	9
901	20	3	0.426667	0.446292	1	0	3	0	4	0	12
1457	70	3	0.453333	0.466687	1	3	3	0	4	0	6
1454	20	1	0.400000	0.371384	1	3	3	0	4	0	21
12	20	3	0.493333	0.709333	1	1	3	0	4	0	19
895	60	3	0.520000	0.343943	1	3	3	0	4	0	12
1168	70	3	0.493333	0.756304	1	3	3	0	0	0	7
641	60	1	0.493333	0.343572	1	3	3	0	4	0	21
1390	20	3	0.506667	0.470272	1	3	3	0	4	0	5
751	60	3	0.493333	0.386836	1	3	3	0	4	0	8
503	20	3	0.906667	0.872126	1	0	3	0	4	0	6
728	90	3	0.706667	0.617058	1	3	3	0	0	0	12
937	60	3	0.573333	0.505810	1	3	3	0	4	0	21
128	60	3	0.493333	0.376947	1	3	3	0	4	0	12
1342	60	3	0.493333	0.487268	1	3	3	0	4	0	5
1112	20	3	0.546667	0.346663	1	0	3	0	0	0	12
733	20	3	0.640000	0.525896	1	3	3	0	0	0	19

310	60	3	0.493333	0.382818	1	0	3	0	4	0	8
408	60	3	0.493333	0.782633	1	3	3	0	0	0	16
926	60	3	0.813333	0.649444	1	3	3	0	4	0	16
1099	20	3	0.666667	0.642089	1	0	3	0	4	0	14
1307	20	3	0.373333	0.406737	1	3	3	0	4	0	5
1107	60	3	0.493333	0.493665	1	2	1	0	1	0	8
564	60	3	0.493333	0.732695	1	0	3	0	1	0	15
1316	20	3	0.386667	0.539864	1	0	3	0	4	0	5
411	50	3	0.906667	0.493665	1	3	0	0	4	0	8
802	60	3	0.413333	0.414586	1	3	3	0	4	0	5
404	60	3	0.493333	0.548393	1	0	3	0	4	0	8
1068	50	4	0.133333	0.152843	1	3	3	0	4	0	10
1037	60	3	0.493333	0.478925	1	3	3	0	4	0	5
1221	20	3	0.306667	0.417738	1	3	3	0	4	0	19
1197	75	4	0.440000	0.454821	1	0	0	0	0	0	17
967	20	3	0.493333	0.364586	1	0	3	0	4	0	12
202	50	3	0.240000	0.340482	1	3	3	0	0	0	17
242	50	4	0.413333	0.216873	1	3	3	0	0	0	17
402	30	3	0.373333	0.538257	1	3	3	0	4	0	19
1254	60	3	0.373333	0.336218	1	3	3	0	4	0	7
60	20	3	0.413333	0.715760	1	3	3	0	4	0	20
1207	20	3	0.506667	0.472435	1	3	3	0	4	0	5
317	60	1	0.573333	0.464091	1	3	3	0	4	0	21
783	85	3	0.493333	0.470334	1	0	3	0	0	0	11
735	75	4	0.373333	0.575340	1	3	3	0	4	0	17
481	20	3	0.533333	0.639988	1	0	1	0	4	0	16
898	20	3	0.906667	0.706304	1	0	3	0	4	0	16
370	60	3	0.493333	0.409765	1	0	3	0	4	0	8
1198	20	3	0.506667	0.470272	1	3	3	0	4	0	5
1294	20	3	0.373333	0.412917	1	3	3	0	4	0	7
53	20	3	0.480000	0.493665	1	0	2	0	4	0	24
610	60	3	0.493333	0.590791	1	3	3	0	4	0	5
866	20	3	0.466667	0.566440	1	0	1	0	4	0	23
867	20	3	0.706667	0.338628	1	3	3	0	0	0	19
662	20	3	0.493333	0.745921	1	3	3	0	0	0	12
708	60	3	0.440000	0.465204	1	0	3	0	4	0	8
79	50	4	0.373333	0.553090	1	3	3	0	0	0	17
1193	120	4	0.493333	0.185970	1	3	3	0	2	0	11
1392	85	3	0.480000	0.392274	1	3	3	0	4	0	12
1191	50	1	0.493333	0.071323	1	3	3	0	4	0	21
1008	20	3	0.146667	0.656799	1	0	3	0	1	0	11
596	70	4	0.373333	0.130346	1	3	3	0	4	0	17
697	20	3	0.333333	0.304635	1	0	3	0	4	0	7
1301	70	3	0.493333	0.371384	1	0	0	0	4	0	6
78	90	3	0.533333	0.573980	1	3	3	0	4	0	19
489	50	4	0.493333	0.002163	1	3	3	0	4	0	10
1324	20	3	0.573333	0.525031	1	3	3	0	4	0	21
375	30	3	0.493333	0.527132	1	0	2	0	4	2	7
1430	60	3	0.373333	0.493665	1	2	3	0	4	0	8
877	60	3	0.560000	0.453832	1	3	3	0	4	0	16
616	60	3	0.493333	0.393696	1	0	3	0	4	0	8
755	50	1	0.026667	0.107478	1	3	3	0	4	0	21
871	60	3	0.506667	0.448640	1	3	3	0	4	0	5
874	50	4	0.266667	0.261372	1	3	3	0	4	0	17
107	20	4	0.240000	0.278677	1	3	3	0	4	0	17

476	20	3	0.573333	0.719036	1	3	3	0	4	1	5
1143	20	3	0.493333	0.464091	1	3	3	0	4	0	19
1314	20	3	0.373333	0.414030	1	3	3	0	4	0	7
670	60	3	0.426667	0.441409	1	3	3	0	2	0	5
988	60	3	0.493333	0.652349	1	0	3	0	4	0	14
1427	50	3	0.373333	0.583375	1	3	0	0	4	0	12
421	20	3	0.493333	0.935970	1	0	3	0	2	0	14
864	20	1	0.533333	0.441842	1	3	3	0	4	0	21
1393	50	4	0.373333	0.575340	1	3	3	0	4	0	17
831	50	1	0.493333	0.104388	1	3	3	0	4	0	21
1379	80	3	0.546667	0.509518	1	3	3	0	4	0	23
1029	50	4	0.493333	0.011681	1	3	3	0	4	0	2
129	20	3	0.493333	0.462423	1	3	3	0	4	0	12
1425	20	3	0.640000	0.570457	1	0	3	0	4	0	12
750	50	4	0.306667	0.451731	1	3	3	0	0	0	17
1302	60	3	0.800000	0.533313	1	3	3	0	4	0	15
947	20	3	0.706667	0.806242	1	3	3	0	4	0	23
893	20	3	0.493333	0.728863	1	3	3	0	4	0	19
762	60	1	0.533333	0.441842	1	3	3	0	4	0	21
132	20	3	0.573333	0.364462	1	3	3	0	0	0	12
127	45	4	0.306667	0.179048	1	0	0	0	4	0	17
296	50	4	0.573333	0.755192	1	3	3	0	4	0	9
581	20	3	0.880000	0.693016	1	3	3	0	4	0	16
1338	60	3	0.840000	0.739122	1	0	3	0	0	0	5
841	70	4	0.373333	0.553090	1	3	3	0	4	0	17
686	60	1	0.693333	0.538690	1	3	3	0	4	0	21
1032	60	3	0.493333	0.806551	1	0	3	0	0	0	15
321	60	3	0.893333	0.655624	1	0	3	0	4	0	16
761	30	4	0.373333	0.334981	1	3	3	0	2	0	3
803	60	3	1.000000	0.766378	1	3	3	0	4	0	16
200	20	4	0.640000	0.436032	1	3	3	0	0	0	7
181	70	3	0.293333	0.376823	1	3	3	0	4	0	6
33	20	3	0.506667	0.560012	1	0	3	0	4	0	12
510	20	3	0.573333	0.807664	1	3	3	0	4	0	12
466	20	3	0.706667	0.564710	1	3	3	0	4	0	12
949	20	3	0.613333	0.486341	1	3	3	0	4	0	14
576	50	3	0.266667	0.296724	1	3	3	0	4	0	18
1258	80	3	0.360000	0.500371	1	0	3	0	4	0	8
752	20	3	0.626667	0.478677	1	0	3	0	4	0	5
455	20	3	0.640000	0.501174	1	3	3	0	4	0	14
1066	60	3	0.360000	0.392213	1	0	3	0	4	0	8
1353	50	3	0.320000	0.817614	1	0	3	0	1	0	15
1121	20	3	0.693333	0.531088	1	3	3	0	4	0	5
46	50	3	0.213333	0.700309	1	0	3	0	1	0	11
509	20	3	0.640000	0.501174	1	3	3	0	0	0	12
1459	20	3	0.573333	0.522002	1	3	3	0	4	0	7
336	20	3	0.720000	0.782818	1	0	1	0	0	0	22
223	20	3	0.506667	0.556799	1	3	3	0	2	0	12
483	120	4	0.000000	0.185970	1	3	3	0	2	0	11
170	50	4	0.493333	0.671632	1	0	3	0	4	0	17
701	20	3	0.640000	0.501174	1	3	3	0	4	0	14
88	50	0	0.973333	0.431335	1	0	3	0	0	0	9
1367	50	4	0.120000	0.072559	1	3	3	0	4	0	10
1167	60	3	0.346667	0.578554	1	0	3	0	4	0	8
1136	50	3	0.640000	0.501174	1	3	3	0	4	0	12

271	20	3	0.546667	0.493665	1	0	2	0	1	2	4
1343	50	3	0.333333	0.374969	1	3	0	0	4	0	6
260	80	3	0.493333	0.493665	1	3	3	0	0	0	12
1005	80	3	0.440000	0.426082	1	3	3	0	4	0	5
1263	70	3	0.373333	0.743140	1	3	3	0	4	0	3
753	60	3	0.640000	0.540729	1	3	3	0	4	0	16
1308	20	4	0.906667	0.649506	1	3	3	0	4	0	17
1055	20	3	0.960000	0.610012	1	3	3	0	4	0	14
805	20	3	0.786667	0.666440	1	0	3	0	2	0	21
1170	80	3	0.586667	0.518480	1	3	3	0	4	0	11
27	20	3	0.880000	0.617244	1	3	3	0	4	0	16
464	20	3	0.373333	0.428863	1	3	1	0	4	1	5
1196	60	3	0.346667	0.776452	1	0	3	0	4	0	8
748	20	3	0.360000	0.562546	1	0	3	0	4	0	15
288	20	3	0.493333	0.514710	1	0	3	0	4	0	19
593	120	4	0.493333	0.181953	1	3	3	0	4	0	5
246	50	4	0.493333	0.472868	1	3	3	0	4	0	17
1213	80	3	0.493333	0.541100	1	0	3	0	1	0	19
123	120	3	0.306667	0.395612	1	3	3	0	4	0	20
258	60	3	0.640000	0.676391	1	3	3	0	4	0	5
1386	60	3	0.640000	0.939493	1	0	3	0	4	0	14
772	80	3	0.826667	0.391100	1	3	3	0	4	0	7
493	20	3	0.506667	0.398022	1	3	3	0	4	0	12
1185	50	3	0.373333	0.509703	1	3	3	0	4	0	7
1214	85	3	0.493333	0.538566	1	0	3	0	4	0	12
247	20	3	0.573333	0.606860	1	3	3	0	4	0	12
37	20	3	0.560000	0.435167	1	3	3	0	4	0	12
422	20	3	0.906667	0.493665	1	3	1	0	4	1	11
283	20	3	0.560000	0.501916	1	3	3	0	4	0	21
969	50	3	0.573333	0.549506	1	3	3	0	4	0	12
980	85	3	0.493333	0.657046	1	0	3	0	0	0	12
661	60	3	0.266667	0.493665	1	1	3	0	1	0	15
230	20	3	0.546667	0.449258	1	3	3	0	4	0	12
770	85	3	0.493333	0.356057	1	0	3	0	1	0	19
1171	20	3	0.586667	0.471508	1	3	3	0	4	0	12
588	20	3	0.440000	0.493665	1	0	2	0	4	2	4
1007	50	4	0.493333	0.044870	1	3	3	0	4	0	10
644	20	1	0.706667	0.475649	1	3	3	0	4	0	21
68	30	4	0.200000	0.192645	1	3	3	0	0	0	17
350	120	3	0.480000	0.391162	1	0	3	0	4	0	16
958	20	3	0.440000	0.430099	1	3	3	0	4	0	5
397	60	3	0.493333	0.376947	1	3	3	0	4	0	12
1445	85	3	0.506667	0.427009	1	3	3	0	4	0	19
702	60	3	0.666667	0.676576	1	0	3	0	4	0	22
1123	20	3	0.240000	0.489122	1	3	3	0	4	0	7
713	50	3	0.373333	0.518047	1	3	3	0	4	0	3
555	45	4	0.346667	0.302163	1	3	3	0	4	0	3
1451	20	3	0.613333	0.480284	1	3	3	0	4	0	21
138	60	3	0.546667	0.468171	1	0	3	0	4	0	5
605	60	3	0.706667	0.748393	1	3	3	0	4	0	12
729	30	4	0.266667	0.293511	1	3	3	0	4	0	9
513	20	3	0.520000	0.475649	1	3	0	0	0	0	11
194	20	3	0.373333	0.351607	1	0	3	0	4	0	5
1239	20	3	0.426667	0.466378	1	0	1	0	4	0	23

400	120	3	0.080000	0.832633	1	1	3	0	4	0	24
542	20	3	0.613333	0.534549	1	3	3	0	4	0	14
1114	20	3	0.773333	0.241595	1	3	3	0	4	0	17
1420	60	3	0.773333	0.630964	1	3	3	0	0	0	14
1268	50	3	0.493333	0.779295	1	0	3	0	4	1	6
684	60	3	0.346667	0.944314	1	1	3	0	1	0	15
1092	50	3	0.373333	0.427009	1	3	0	0	4	0	18
377	60	1	0.933333	0.596539	1	0	3	0	0	0	21
309	20	3	0.773333	0.672868	1	0	3	0	4	0	16
573	80	3	0.586667	0.523857	1	0	3	0	4	0	8
700	20	3	0.706667	0.793572	1	3	3	0	4	0	23
266	60	3	0.506667	0.600494	1	0	1	0	2	0	8
148	20	3	0.413333	0.371384	1	3	3	0	4	0	20
601	50	4	0.240000	0.464091	1	3	0	0	4	0	9
157	60	3	0.800000	0.649691	1	3	3	0	0	0	23
817	20	3	0.493333	0.727689	1	0	3	0	1	0	11
786	50	4	0.373333	0.575340	1	3	3	0	4	0	17
1283	90	3	0.826667	0.488813	1	3	2	0	0	0	11
1022	50	4	0.266667	0.491224	1	3	3	0	4	0	17
1305	20	3	0.493333	0.722002	1	0	3	0	0	0	16
1031	75	3	0.933333	0.888257	1	3	3	0	0	0	18
227	50	4	0.493333	0.023362	1	3	3	0	4	0	2
745	60	3	0.493333	0.461805	1	0	3	0	4	0	14
611	80	3	0.493333	0.550309	1	0	3	0	2	0	14
308	30	3	0.493333	0.670643	1	0	3	0	4	0	7
724	20	3	0.720000	0.728986	1	0	3	0	4	0	7
966	50	3	0.493333	0.501174	1	0	1	0	4	0	6
840	70	2	0.493333	0.659085	1	0	3	0	4	0	18
1439	60	3	0.640000	0.623795	1	3	3	0	4	0	14
1433	60	3	0.813333	0.542027	1	0	3	0	4	0	8
1257	30	3	0.320000	0.158776	1	3	3	0	0	0	7
1266	50	4	0.373333	0.533313	1	0	0	0	4	0	17
519	70	3	0.280000	0.582633	1	3	3	0	4	0	6
632	20	3	0.706667	0.643325	1	3	3	0	4	0	14
1097	120	3	0.493333	0.136279	1	3	3	0	4	0	22
977	120	1	0.040000	0.172002	1	0	3	0	4	0	21
854	20	3	0.933333	0.493665	1	3	3	0	4	0	19
810	20	3	0.613333	0.534549	1	3	3	0	4	0	14
1377	50	3	0.373333	0.587577	1	3	3	0	4	0	7
1281	20	3	0.240000	0.405315	1	0	3	0	1	0	23
790	120	3	0.146667	0.104512	1	3	3	0	4	0	0
681	50	2	0.306667	0.185970	1	1	0	0	4	0	18
470	120	3	0.493333	0.329357	1	0	3	0	0	0	22
1179	20	3	0.600000	0.422991	1	3	3	0	0	0	7
106	30	4	0.373333	0.575340	1	3	3	0	4	0	17
2	60	3	0.480000	0.603152	1	0	3	0	4	0	5
784	75	4	0.040000	0.297219	1	3	3	0	4	0	17
609	20	3	0.386667	0.398764	1	3	3	0	4	0	19
1057	60	3	0.493333	0.493665	1	1	3	0	2	0	15
1132	70	4	0.773333	0.519716	1	3	3	0	4	0	17
354	50	3	0.373333	0.427009	1	3	0	0	4	0	18
592	20	3	0.373333	0.315760	1	3	3	0	4	0	11
741	20	3	0.440000	0.326143	1	0	3	0	4	0	19
1313	60	3	0.493333	0.820952	1	0	3	0	0	0	15
756	60	3	0.480000	0.573424	1	0	3	0	4	0	5

131	60	3	0.493333	0.663350	1	0	3	0	0	0	8
617	45	3	0.360000	0.354512	1	3	1	0	0	1	12
971	50	3	0.053333	0.048022	1	3	3	0	4	0	16
1348	20	3	0.493333	0.908838	1	2	2	0	4	0	20
381	20	1	0.373333	0.352843	1	3	3	0	4	0	21
1230	90	3	0.493333	0.493665	1	0	3	0	4	0	19
1408	70	4	0.373333	0.386218	1	3	3	0	4	0	17
522	50	4	0.240000	0.216873	1	3	3	0	0	0	3
252	60	3	0.440000	0.424907	1	0	3	0	4	0	20
1368	120	4	0.493333	0.181953	1	3	3	0	4	0	5
782	20	3	0.466667	0.914339	1	1	3	0	4	0	5
956	50	4	0.493333	0.493619	1	3	3	0	4	0	1
673	20	3	0.493333	0.800433	1	3	3	0	4	0	6
1054	60	3	0.773333	0.610383	1	3	3	0	0	0	5
903	20	3	0.240000	0.826205	1	0	1	0	1	0	8
1300	60	3	0.493333	0.572991	1	0	3	0	1	0	8
560	20	3	0.493333	0.608776	1	0	3	0	4	0	19
1051	20	3	0.946667	0.598517	1	0	3	0	0	0	5
461	70	3	0.373333	0.352843	1	3	3	0	4	0	18
1018	80	3	0.493333	0.574351	1	0	3	0	2	0	8
1371	80	3	0.640000	0.501174	1	3	3	0	4	0	12
139	60	3	0.440000	0.861248	1	0	3	0	4	0	5
1062	50	4	0.706667	0.748393	1	3	3	0	4	0	17
1158	20	3	0.800000	0.645303	1	3	3	0	2	0	21
263	50	4	0.240000	0.247775	1	3	3	0	0	0	17
899	20	3	0.440000	0.340049	1	3	3	0	4	0	19
1238	20	3	0.413333	0.715760	1	3	3	0	4	0	20
1215	20	3	0.893333	0.346292	1	0	3	0	4	0	19
35	60	3	0.493333	0.737145	1	3	3	0	4	0	16
1265	50	1	0.040000	0.138690	1	3	3	0	3	0	21
1435	20	3	0.640000	0.427009	1	3	3	0	4	0	12
243	50	3	0.573333	0.572991	1	3	3	0	0	0	20
365	70	4	0.360000	0.568541	1	3	3	0	4	0	9
796	20	3	0.520000	0.414462	1	3	3	0	4	0	19
1458	20	3	0.480000	0.508405	1	3	3	0	4	0	12
96	20	3	0.613333	0.542213	1	0	3	0	4	0	5
1023	120	3	0.146667	0.104512	1	3	3	0	4	0	0
705	50	4	0.506667	0.253956	1	3	3	0	4	0	9
1044	20	3	0.640000	0.501174	1	3	3	0	4	0	14
1117	20	3	0.333333	0.511310	1	0	3	0	2	0	19
394	50	3	0.373333	0.534178	1	3	3	0	4	0	17
636	30	4	0.253333	0.286094	1	3	3	0	4	0	3
1426	60	3	0.653333	0.584240	1	0	3	0	4	0	15
927	60	3	0.493333	0.519716	1	3	3	0	4	0	14
953	60	3	0.493333	0.592336	1	0	3	0	4	1	11
815	20	3	0.213333	0.657973	1	1	3	0	1	0	5
477	60	3	0.973333	0.754141	1	3	3	0	4	0	16
420	90	4	0.613333	0.344190	1	3	3	0	4	0	11
232	50	4	0.493333	0.011681	1	3	3	0	4	0	2
251	120	4	0.160000	0.201422	1	0	1	0	4	1	6
1299	20	3	0.573333	0.371384	1	3	3	0	4	0	12
32	20	3	0.706667	0.590729	1	3	3	0	0	0	5
206	20	3	0.106667	0.752905	1	0	3	0	1	0	19
821	20	4	0.373333	0.278677	1	3	0	0	4	1	17
1045	20	3	0.493333	0.753337	1	0	3	0	1	0	7

1090	90	3	0.373333	0.435909	1	3	3	0	0	0	12
973	20	1	0.840000	0.627194	1	3	3	0	0	0	21
626	20	3	0.493333	0.670643	1	0	3	0	4	0	12
853	80	3	0.493333	0.655377	1	0	3	0	0	0	12
312	50	4	0.440000	0.389926	1	3	3	0	4	0	17
996	20	3	0.493333	0.566625	1	0	3	0	4	0	12
1047	20	3	0.333333	0.479234	1	1	3	0	4	0	5
749	50	3	0.240000	0.427318	1	3	3	0	4	0	7
17	90	3	0.533333	0.574784	1	3	3	0	4	0	19
663	85	3	0.773333	0.526638	1	3	3	0	4	0	7
1208	20	3	0.506667	0.387639	1	3	3	0	4	0	12
1396	20	3	0.493333	0.493665	1	0	0	0	4	2	23
388	20	3	0.813333	0.487701	1	0	3	0	1	0	5
468	20	3	0.880000	0.614153	1	0	3	0	4	0	16
295	80	3	0.066667	0.398393	1	0	3	0	1	0	11
185	75	4	0.773333	0.493665	1	1	3	0	4	0	17
456	70	4	0.026667	0.190358	1	3	3	0	4	0	17
339	20	3	0.453333	0.674227	1	0	3	0	4	0	12
851	120	3	0.493333	0.105377	1	3	3	0	4	0	0
758	50	1	0.493333	0.048764	1	3	3	0	4	0	21
279	60	3	0.680000	0.526205	1	3	3	0	4	0	4
0	60	3	0.440000	0.430099	1	3	3	0	4	0	5
1423	80	3	0.493333	0.493665	1	0	3	0	1	0	7
1075	70	3	0.573333	0.719036	1	3	3	0	4	0	6
97	20	3	0.546667	0.582818	1	3	1	0	4	0	7
695	20	3	0.293333	0.761434	1	0	3	0	4	0	23
715	20	3	0.613333	0.534549	1	3	3	0	4	0	14
427	20	3	0.600000	0.438937	1	0	3	0	4	0	12
494	30	4	0.240000	0.265328	1	3	3	0	4	0	17
463	70	3	0.560000	0.648764	1	0	1	0	4	1	6
646	20	3	0.373333	0.352843	1	3	3	0	4	0	12
1231	90	3	0.506667	0.385476	1	3	3	0	4	0	12
89	20	3	0.373333	0.406613	1	3	3	0	4	0	5
618	20	3	0.773333	0.630593	1	3	3	0	4	0	16
1276	60	3	0.493333	0.707355	1	0	3	0	1	0	14
1150	20	3	0.333333	0.419592	1	0	3	0	4	0	12
1165	20	3	0.626667	0.497528	1	0	3	0	4	0	16
196	20	3	0.626667	0.489802	1	3	3	0	4	0	21
716	70	4	0.373333	0.575340	1	3	0	0	4	0	17
118	60	3	0.773333	0.672744	1	3	3	0	0	0	20
133	20	3	0.493333	0.331397	1	0	3	0	4	0	23
897	90	3	0.426667	0.341595	1	3	3	0	4	0	20
944	20	3	0.493333	0.796292	1	0	3	1	1	0	23
794	60	3	0.493333	0.577318	1	0	3	0	0	0	8
177	50	3	0.493333	0.751483	1	3	3	0	4	0	19
869	60	3	0.640000	0.522064	1	3	3	0	4	0	20
114	70	3	0.386667	0.356489	1	0	3	0	4	1	6
204	50	4	0.240000	0.124166	1	3	3	0	4	0	17
75	50	4	0.493333	0.006489	1	3	3	0	4	0	10
355	20	3	0.973333	0.603090	1	1	3	0	4	0	5
465	120	4	0.493333	0.097713	1	3	3	0	4	0	0
322	60	3	0.720000	0.549382	1	0	3	0	4	0	20
1286	20	3	0.493333	0.512917	1	3	3	0	4	0	14
1422	120	4	0.066667	0.181953	1	3	3	0	4	0	5
985	50	3	0.480000	0.580284	1	3	3	0	4	0	7

1139	30	3	0.880000	0.447466	1	0	3	0	4	0	3
222	60	3	0.706667	0.617058	1	3	3	0	4	0	14
1244	70	3	0.493333	0.614586	1	0	1	0	0	1	6
190	70	3	0.506667	0.561125	1	3	0	0	4	1	6
896	30	4	0.240000	0.449567	1	3	3	0	4	0	9
582	90	3	0.653333	0.639679	0	3	3	0	4	0	7
277	20	3	0.493333	0.493665	1	3	3	0	0	0	8
766	60	3	0.640000	0.551916	1	3	3	0	4	0	14
1004	120	3	0.146667	0.104512	1	3	3	0	4	0	0
1359	20	3	0.493333	0.942274	1	3	3	0	3	0	16
1296	20	3	0.640000	0.445550	1	3	3	0	4	0	12
311	20	3	0.240000	0.402287	1	3	3	0	4	0	12
552	20	3	0.733333	0.596724	1	0	3	0	4	0	16
1166	20	3	0.426667	0.555253	1	0	3	0	0	0	5
844	50	4	0.906667	0.690606	1	0	3	0	4	0	17
499	20	3	0.506667	0.373548	1	0	3	0	4	0	12
637	50	4	0.240000	0.278677	1	3	3	0	4	0	17
912	30	4	0.253333	0.286094	1	3	3	0	4	0	3
561	20	3	0.600000	0.526514	1	3	3	0	4	1	11
612	60	3	0.493333	0.642398	1	3	3	0	4	0	5
550	120	3	0.280000	0.157726	1	3	3	0	4	0	13
445	20	3	0.546667	0.516934	1	3	3	0	0	0	7
1002	20	3	0.573333	0.646848	1	0	3	0	4	0	21
1406	85	3	0.506667	0.429790	1	3	3	0	0	0	5
423	60	3	0.640000	0.476452	1	3	3	0	4	0	15
1200	20	3	0.520000	0.485909	1	3	3	0	4	0	12
1101	20	3	0.386667	0.510939	1	0	3	0	4	0	12
467	70	3	0.626667	0.493758	1	3	3	0	4	0	12
1140	20	3	0.373333	0.362114	1	3	3	0	0	0	12
812	20	0	0.453333	0.446292	0	3	0	0	4	1	9
281	20	1	0.373333	0.352843	1	3	3	0	4	0	21
801	30	4	0.106667	0.204512	1	3	3	0	4	0	9
680	120	3	0.240000	0.403028	1	3	3	0	4	0	20
1336	90	3	0.733333	0.479295	1	0	3	0	4	0	14
995	50	3	0.253333	0.199073	1	0	3	0	4	1	3
488	50	3	0.373333	0.575340	1	3	3	0	0	0	17
959	50	1	0.493333	0.066811	1	3	3	0	2	0	21
1100	30	3	0.373333	0.427009	1	3	0	0	4	0	18
425	60	4	0.373333	0.116625	1	3	1	0	4	0	17
536	60	3	0.333333	0.459394	1	0	3	0	1	0	5
182	20	3	0.373333	0.467800	1	3	3	0	4	0	7
147	60	3	0.493333	0.495303	1	0	3	0	1	0	8
820	60	3	0.533333	0.354450	1	0	3	0	1	0	5
1351	60	3	0.506667	0.479357	1	0	3	0	4	0	12
965	60	3	0.440000	0.540544	1	3	3	0	4	0	8
935	30	3	0.266667	0.267862	1	0	3	0	4	0	3
244	60	3	0.493333	0.456675	1	0	3	0	4	0	20
530	80	3	0.706667	0.538257	1	3	3	0	4	0	23
1013	30	4	0.373333	0.352843	1	3	3	0	4	0	17
865	20	3	0.493333	0.448640	1	0	3	0	4	0	12
997	20	3	0.493333	0.632015	1	0	3	0	4	0	14
776	20	3	0.720000	0.600680	1	0	3	0	4	0	5
1303	20	3	0.546667	0.444808	1	3	3	0	4	0	21
1394	120	3	0.280000	0.157849	1	3	3	0	4	0	0

534	60	3	0.560000	0.467553	1	0	3	0	4	0	8
777	20	3	0.906667	0.732942	1	0	3	0	4	0	19
1269	50	3	0.613333	0.608962	1	3	3	0	4	0	12
1365	60	1	0.493333	0.371384	1	3	3	0	4	0	21
424	20	3	0.533333	0.464091	1	3	3	0	4	0	12
195	50	3	0.493333	0.048764	1	3	3	0	2	0	13
67	20	3	0.533333	0.566996	1	0	3	0	4	0	5
827	20	3	0.440000	0.434981	1	0	3	0	4	0	20
938	60	3	0.546667	0.449258	1	3	3	0	4	0	5
989	60	1	0.440000	0.410012	1	3	3	0	4	0	21
34	120	3	0.373333	0.359827	1	3	3	0	4	0	16
1204	20	3	0.613333	0.534549	1	3	3	0	4	0	14
649	50	4	0.493333	0.027503	1	3	3	0	4	0	10
1282	20	3	0.386667	0.451731	1	0	3	0	4	0	5
1067	60	3	0.640000	0.511063	1	3	3	0	4	1	12
960	20	3	0.240000	0.353276	1	0	3	0	4	0	3
1372	60	3	0.573333	0.510445	1	3	3	0	0	0	5
380	50	3	0.240000	0.216873	1	3	3	0	4	0	18
119	60	3	0.440000	0.430779	1	3	3	0	4	0	5
104	50	4	0.493333	0.387330	1	3	3	0	0	0	9
1009	50	3	0.373333	0.278677	1	3	3	0	4	0	18
717	20	3	0.640000	0.525896	1	3	3	0	4	0	14
780	20	3	0.413333	0.394561	1	3	3	0	4	0	8
703	50	4	0.586667	0.379419	1	3	3	0	4	0	17
331	20	3	0.506667	0.413164	1	3	3	0	4	0	12
882	60	3	0.493333	0.503399	1	0	3	0	0	0	8
162	20	3	0.840000	0.660754	1	3	3	0	0	0	16
229	120	3	0.146667	0.104512	1	3	3	0	4	0	0
1116	80	3	0.493333	0.386836	1	3	3	0	4	0	8
1028	50	3	0.626667	0.494499	1	3	3	0	4	0	12
72	60	3	0.560000	0.534611	1	0	3	0	0	0	8
1086	50	4	0.493333	0.029852	1	3	3	0	4	0	10
338	20	3	0.786667	0.782077	1	3	3	0	0	0	14
327	20	3	0.640000	0.624784	1	3	3	0	4	0	12
1273	80	3	0.493333	0.619345	1	0	3	0	0	0	7
15	45	4	0.253333	0.286094	1	3	3	0	0	0	3
656	20	3	0.533333	0.526329	1	0	3	0	4	0	12
595	20	3	0.493333	0.606366	1	0	3	0	4	0	22
443	120	3	0.280000	0.150247	1	3	3	0	4	0	0
1312	60	3	0.493333	0.499444	1	0	3	0	4	0	15
604	20	3	0.746667	0.699135	1	0	3	0	4	0	5
164	40	4	0.106667	0.241595	1	3	3	0	0	0	17
986	50	4	0.360000	0.236032	1	3	3	0	0	0	17
506	60	3	0.640000	0.498331	1	0	3	0	4	0	20
793	20	3	0.586667	0.473857	1	3	3	0	4	0	21
818	80	3	0.640000	0.452719	1	3	3	0	4	0	4
1416	50	4	0.373333	0.608714	1	3	3	0	4	0	17
153	20	3	0.493333	0.742213	1	3	3	0	4	0	4
1225	80	3	0.440000	0.555686	1	3	3	0	4	0	12
1327	20	3	0.373333	0.315760	1	3	3	0	4	0	11
1441	120	4	0.493333	0.181397	1	3	3	0	4	0	5
846	60	3	0.573333	0.483684	1	3	3	0	4	0	20
71	20	3	0.493333	0.377503	1	3	3	0	0	0	11
221	60	3	0.493333	0.406489	1	0	3	0	4	0	8
952	85	3	0.373333	0.352843	1	3	3	0	4	0	5

491	50	3	0.626667	0.494376	1	3	3	0	4	0	12
736	90	3	0.373333	0.435909	1	3	3	0	4	0	12
972	120	3	0.306667	0.395612	1	3	3	0	4	0	20
719	20	3	0.493333	0.520952	1	0	3	0	4	0	5
392	20	3	0.493333	0.423239	1	0	3	0	4	0	12
910	90	3	0.640000	0.624784	1	3	3	0	0	0	12
928	20	3	0.493333	0.639493	1	3	3	0	4	0	5
110	50	3	0.573333	0.496539	1	3	3	0	4	0	7
856	80	3	0.493333	0.585847	1	0	2	0	4	1	5
630	70	4	0.240000	0.464091	1	3	3	0	0	0	17
942	90	3	0.133333	0.384425	1	0	3	0	4	0	7
710	30	3	0.320000	0.163103	1	0	3	0	4	0	3
426	80	3	0.493333	0.698949	1	3	2	0	4	1	20
269	20	3	0.493333	0.397157	1	0	3	0	0	0	7
184	50	3	0.800000	0.367553	1	0	3	0	4	0	3
485	20	3	0.640000	0.501174	1	3	3	0	4	0	12
1309	20	3	0.493333	0.349938	1	3	3	0	4	0	20
62	120	3	0.160000	0.305995	1	0	3	0	4	0	16
880	20	3	0.373333	0.341965	1	3	3	0	4	0	7
1440	70	3	0.626667	0.620210	1	0	0	0	4	1	6
1242	85	3	0.706667	0.564524	1	3	3	0	4	0	14
625	20	3	0.733333	0.525896	1	0	3	0	0	0	12
1187	20	3	0.760000	0.677998	1	3	3	0	0	0	15
428	20	3	0.426667	0.325773	1	3	3	0	4	0	5
791	80	3	0.493333	0.608282	1	0	3	0	0	0	11
1153	30	4	0.493333	0.271879	1	3	3	0	0	0	9
533	20	3	0.240000	0.216873	1	3	2	0	4	1	3
1328	50	4	0.373333	0.553090	1	3	3	0	0	0	17
1357	20	3	0.493333	0.682695	1	0	3	0	1	0	12
372	120	3	0.240000	0.351298	1	3	3	0	4	0	20
575	50	3	0.640000	0.431953	1	3	3	0	4	0	12
647	20	3	0.706667	0.553832	1	0	3	0	4	0	7
1375	20	3	0.760000	0.587145	1	0	1	0	4	0	23
1087	60	1	0.706667	0.561372	1	3	3	0	4	0	21
1205	20	3	0.773333	0.815389	1	0	3	0	1	0	20
1387	50	4	0.373333	0.434425	1	3	3	0	4	0	17
259	20	4	0.506667	0.692892	1	3	3	0	4	0	17
109	20	3	0.973333	0.634116	1	0	3	0	4	0	14
1060	120	3	0.120000	0.211928	1	3	3	0	4	0	22
792	60	3	0.800000	0.520952	1	0	3	0	1	0	15
245	20	3	0.640000	0.550618	1	3	3	0	4	0	14
268	30	4	0.520000	0.334302	1	3	3	0	4	0	9
63	70	4	0.240000	0.544438	1	0	0	0	4	0	17
754	20	3	0.386667	0.397960	1	3	3	0	4	0	12
1003	90	3	0.493333	0.618603	1	0	3	0	0	0	14
21	45	4	0.333333	0.368232	1	3	0	0	4	0	9
914	50	1	0.493333	0.093263	1	3	3	0	4	0	21
698	20	3	0.440000	0.430099	1	3	3	0	4	0	19
823	50	3	0.373333	0.519716	1	3	3	0	4	0	18
192	20	3	0.480000	0.465142	1	0	3	0	4	0	5
319	80	3	0.493333	0.780222	1	3	3	0	4	0	14
1306	120	3	0.213333	0.337701	1	0	3	0	4	0	16
436	50	4	0.106667	0.179790	1	3	3	0	4	0	17
1325	30	4	0.106667	0.132571	1	3	3	0	4	0	9
994	20	3	0.853333	0.677689	1	3	3	0	2	0	16

1189	60	3	0.373333	0.371384	1	3	3	0	4	0	8
391	60	3	0.520000	0.662423	1	0	3	0	1	0	11
860	50	3	0.306667	0.380161	1	3	3	0	0	0	6
941	60	3	0.493333	0.448949	1	0	3	0	2	0	8
976	30	3	0.253333	0.272497	1	0	0	0	4	0	3
619	60	3	0.706667	0.664586	1	3	3	0	4	0	23
437	45	4	0.240000	0.278677	1	3	3	0	4	0	3
671	70	2	0.293333	0.317553	1	3	3	0	4	0	7
1261	20	3	0.640000	0.501174	1	3	3	0	4	0	12
91	20	3	0.706667	0.433189	1	3	3	0	4	0	12
607	20	3	0.613333	0.389926	1	3	0	0	4	1	7
602	60	3	0.640000	0.528430	1	0	3	0	4	0	20
1333	50	4	0.373333	0.352843	1	3	3	0	0	0	9
658	50	3	0.613333	0.989617	1	3	3	0	4	0	12
1034	30	3	0.240000	0.297528	1	3	0	0	4	0	6
797	20	3	0.333333	0.382324	1	3	3	0	4	0	12
1253	60	3	0.493333	0.992027	1	0	3	0	4	0	24
837	50	4	0.493333	0.011681	1	3	3	0	4	0	2
1448	50	3	0.506667	0.635105	1	3	3	0	4	0	7
1452	50	4	0.040000	0.134981	1	3	3	0	4	0	7
1134	60	3	0.333333	0.450062	1	0	1	0	4	0	8
1385	50	4	0.106667	0.243820	1	3	3	0	4	0	9
326	120	3	0.000000	0.578183	1	0	3	0	1	0	24
1364	50	1	0.493333	0.104388	1	3	3	0	4	0	21
215	20	3	0.533333	0.526576	1	0	3	0	4	0	12
945	50	4	0.880000	0.452967	1	3	3	0	0	0	17
587	85	3	0.560000	0.448022	1	0	3	0	4	0	19
1118	80	3	0.706667	0.762299	1	3	3	0	4	0	19
1428	30	4	0.373333	0.352843	1	3	3	0	0	0	17
211	20	3	0.680000	0.551854	1	3	3	0	0	0	7
1042	120	3	0.026667	0.240420	1	0	3	0	4	0	16
8	50	4	0.253333	0.286094	1	3	3	0	4	0	17
743	80	3	0.506667	0.704265	1	0	3	0	4	0	19
537	20	3	0.493333	0.694932	1	0	3	0	2	0	12
490	50	4	0.493333	0.072559	1	3	3	0	4	0	10
1219	50	4	0.493333	0.011681	1	3	3	0	4	0	2
742	20	3	0.440000	0.430099	1	3	3	0	4	0	20
740	70	4	0.373333	0.501174	1	3	3	0	4	0	17
683	20	3	0.773333	0.603028	1	0	3	0	0	0	5
1284	50	3	0.240000	0.503523	1	3	3	0	4	0	18
1173	50	3	0.493333	0.493665	1	0	0	0	4	0	4
615	85	3	0.640000	0.451731	1	3	3	0	4	0	12
580	20	3	0.493333	0.809271	1	0	3	0	1	0	12
1071	60	3	0.613333	0.630964	1	3	3	0	4	0	14
1341	20	3	0.453333	0.754265	1	3	3	0	4	0	20
159	60	3	0.493333	0.493665	1	0	1	0	0	0	8
1079	20	3	0.440000	0.450185	1	3	3	0	4	0	5
887	50	3	0.360000	0.925525	1	0	3	0	4	0	7
1240	60	3	0.440000	0.412052	1	3	3	0	4	0	5
1319	20	3	0.573333	0.539184	1	3	0	0	4	0	7
497	50	3	0.373333	0.471508	1	3	3	0	4	0	3
1260	60	3	0.493333	0.493665	1	2	3	0	1	0	8
1228	120	3	0.440000	0.449815	1	3	3	0	0	0	16
349	60	3	0.320000	0.493665	1	1	3	0	4	0	16
1036	20	3	0.760000	0.705006	1	0	1	0	4	0	23

141	20	3	0.613333	0.627565	1	3	3	0	4	0	5
52	90	4	0.493333	0.431459	0	1	0	0	0	1	9
585	20	3	0.746667	0.615080	1	3	3	0	4	0	23
732	60	3	0.573333	0.612670	1	0	3	0	4	0	5
1080	20	3	0.640000	0.590173	1	3	3	0	4	0	14
978	20	3	0.480000	0.491904	1	3	0	0	4	1	7
685	50	3	0.493333	0.220705	1	0	3	0	1	0	22
1064	20	3	0.493333	0.587701	1	0	3	0	1	0	12
187	50	3	0.373333	0.551236	1	3	3	0	4	0	17
19	20	3	0.506667	0.375093	1	3	3	0	4	0	12
57	60	3	0.760000	0.627565	1	0	3	0	0	0	5
346	20	3	0.493333	0.697219	1	0	3	0	1	0	12
324	80	3	0.853333	0.604697	1	3	3	0	0	0	12
675	50	3	0.493333	0.049320	1	3	3	0	4	0	13
739	60	3	0.440000	0.483436	1	0	3	0	4	0	5
839	50	3	0.506667	0.635105	1	3	3	0	4	0	7
441	90	3	0.800000	0.656180	1	3	3	0	4	0	7
50	60	3	0.493333	0.765019	1	1	3	0	0	0	8
1233	20	3	0.493333	0.659394	1	0	3	0	4	0	12
650	60	1	0.440000	0.410012	1	3	3	0	4	0	21
679	20	3	0.493333	0.522497	1	0	3	0	4	0	19
1310	20	3	0.906667	0.989431	1	3	3	0	4	0	6
738	90	3	0.373333	0.575340	1	3	3	0	4	0	7
398	30	4	0.373333	0.462052	1	3	3	0	0	0	9
504	50	3	0.493333	0.050494	1	3	3	0	4	0	13
1297	50	4	0.040000	0.134981	1	3	3	0	4	0	7
906	20	3	0.493333	0.742274	1	0	3	0	0	0	21
621	60	3	0.773333	0.575340	1	3	3	0	4	0	14
1270	40	3	0.493333	0.493665	1	3	2	0	4	2	4
725	20	3	0.373333	0.338010	1	3	3	0	4	0	12
49	20	3	0.453333	0.386341	1	3	3	0	4	0	19
1128	60	3	0.360000	0.636897	1	0	3	0	4	0	8
1415	120	3	0.253333	0.132509	1	3	3	0	4	0	0
74	50	4	0.373333	0.265698	1	3	3	0	0	0	17
276	20	3	0.493333	0.476205	1	0	3	0	4	0	11
1446	20	3	0.493333	0.493665	1	0	3	0	1	0	11
921	90	3	0.466667	0.450309	1	3	3	0	4	0	7
479	30	4	0.240000	0.274042	1	3	0	0	4	0	17
314	70	4	0.373333	0.501174	1	3	3	0	4	0	17
1419	20	3	0.493333	0.920272	1	0	3	0	4	0	6
904	20	3	0.493333	0.289370	1	0	3	0	4	0	19
23	120	4	0.160000	0.168912	1	3	3	0	4	0	10
13	20	3	0.786667	0.566193	1	0	3	0	4	0	5
905	20	3	0.640000	0.520952	1	3	3	0	4	0	12
645	20	3	0.493333	0.558653	1	0	3	0	0	0	12
165	50	3	0.400000	0.532447	1	3	3	0	4	0	7
1285	50	4	0.240000	0.278677	1	3	3	0	4	0	3
208	60	3	0.493333	0.795612	1	0	2	0	4	1	20
383	45	2	0.373333	0.464091	1	3	3	0	0	0	20
1429	20	3	0.493333	0.683251	1	0	3	0	0	0	14
900	20	3	0.493333	0.361496	1	0	3	0	4	0	12
771	20	3	0.466667	0.456489	1	3	3	0	4	0	7
543	120	2	0.026667	0.158653	1	3	3	0	4	0	12
872	20	3	0.560000	0.457417	1	3	3	0	0	0	12

775	120	4	0.000000	0.185970	1	3	3	0	2	0	11
1077	20	3	0.493333	0.888690	1	0	3	0	0	0	12
798	60	3	0.960000	0.743325	1	3	3	0	4	0	16
1015	60	3	0.506667	0.427009	1	3	3	0	4	0	14
993	60	3	0.480000	0.454574	1	3	3	0	4	0	5
875	60	1	0.573333	0.464091	1	3	3	0	4	0	21
1220	20	3	0.453333	0.389926	1	0	3	0	4	0	12
918	60	3	0.946667	0.719036	1	0	3	0	0	0	20
304	75	4	0.733333	0.493665	1	3	3	0	4	0	17
135	20	3	0.640000	0.550618	1	3	3	0	4	0	14
393	30	3	0.493333	0.368047	1	3	3	0	0	0	3
1369	20	3	0.213333	0.565142	1	1	3	0	2	0	5
1152	20	3	0.773333	0.780222	1	0	3	0	4	0	6
265	20	3	0.613333	0.655068	1	0	3	0	4	0	14
241	30	4	0.106667	0.147651	1	3	3	0	4	0	17
99	20	3	0.600000	0.483869	1	0	3	0	4	0	12
990	60	3	0.666667	0.492027	1	3	3	0	4	0	15
1048	20	3	0.906667	0.493665	1	3	3	0	4	0	11
936	20	3	0.466667	0.531026	1	3	3	0	4	0	20
54	80	3	0.373333	0.348764	1	3	0	0	4	1	12
59	20	3	0.373333	0.352843	1	3	0	0	4	0	5
1249	20	3	0.373333	0.352843	1	3	3	0	4	0	12
442	50	4	0.266667	0.293511	1	3	3	0	4	0	3
430	50	4	0.493333	0.011681	1	3	3	0	4	0	2
1104	50	4	0.493333	0.032447	1	3	3	0	4	0	2
154	30	4	0.693333	0.608714	1	3	3	0	0	0	17
151	20	3	1.000000	0.766378	1	3	3	0	4	0	16
768	20	3	0.506667	0.470272	1	3	3	0	4	0	5
11	60	3	0.706667	0.644808	1	0	3	0	4	0	16
332	20	3	0.706667	0.566378	1	0	3	0	4	0	16
352	50	3	0.373333	0.469283	1	3	3	0	4	0	7
1402	20	3	0.426667	0.325773	1	3	3	0	4	0	5
473	20	3	0.493333	0.833498	1	0	3	0	4	0	16
1178	50	3	0.293333	0.382571	1	0	3	0	2	0	6
787	60	3	0.586667	0.534672	1	0	3	0	4	0	20
1157	120	3	0.026667	0.216934	1	0	3	0	4	0	16
1381	20	3	0.493333	0.706675	1	0	3	0	0	0	12
1074	20	3	0.560000	0.436650	1	3	3	0	4	0	5
1061	30	0	0.493333	0.493665	0	3	2	0	4	0	9
1130	50	3	0.440000	0.390173	1	3	3	0	4	0	18
111	80	3	0.493333	0.386836	1	0	3	0	4	0	8
518	60	3	0.493333	0.496910	1	0	3	0	1	0	5
1397	70	4	0.253333	0.286094	1	3	3	0	4	0	3
930	20	3	0.546667	0.459456	1	0	1	0	4	0	23
682	120	3	0.493333	0.086279	1	3	1	0	4	0	4
1159	60	3	0.586667	0.471508	1	3	3	0	4	0	14
61	75	4	0.373333	0.352843	1	3	3	0	4	0	9
1374	60	1	0.706667	0.564524	1	3	3	0	4	0	21
1156	80	3	0.706667	0.485723	1	3	3	0	4	0	12
403	60	3	0.813333	0.655068	1	3	3	0	0	0	15
1088	50	4	0.493333	0.063721	1	3	3	0	4	0	7
1155	20	3	0.773333	0.573362	1	0	3	0	0	0	24
1223	20	3	0.760000	0.567923	1	3	3	0	4	0	12
1209	20	3	0.706667	0.537145	1	0	3	0	1	0	21
297	60	1	0.453333	0.365142	1	0	3	0	4	0	21

891	60	3	0.506667	0.599073	1	3	3	0	4	0	19
43	20	3	0.493333	0.476452	1	0	3	0	1	0	5
1315	60	3	0.706667	0.592336	1	3	3	0	4	0	12
416	60	3	0.560000	0.392645	1	3	3	0	4	0	19
665	60	3	0.986667	0.599691	1	0	3	0	0	0	8
374	60	3	0.440000	0.414648	1	3	3	0	4	0	5
458	70	4	0.493333	0.223053	1	3	3	0	4	0	17
161	60	3	0.493333	0.753832	1	0	3	0	4	0	16
492	60	3	0.973333	0.870643	1	0	3	0	0	0	8
1180	60	3	0.493333	0.598208	1	1	3	0	0	0	23
149	50	4	0.493333	0.293511	1	3	3	0	4	0	3
472	50	4	0.040000	0.134981	1	3	3	0	4	0	7
1437	20	3	0.853333	0.676947	1	3	3	0	2	0	16
1411	50	3	0.640000	0.501174	1	3	3	0	4	0	12
286	50	3	0.600000	0.512670	1	0	0	0	4	0	12
189	120	3	0.120000	0.212114	1	3	3	0	4	0	22
884	20	3	0.440000	0.349753	1	3	3	0	4	0	12
806	80	3	0.573333	0.510445	1	3	3	0	4	0	12
1201	60	3	0.640000	0.550618	1	3	3	0	0	0	5
1025	20	3	0.506667	0.383745	1	3	3	0	0	0	5
734	20	3	0.493333	0.462732	1	0	3	0	0	0	19
183	50	4	0.413333	0.614030	1	3	3	0	4	0	17
1222	50	3	0.613333	0.556551	1	3	3	0	4	0	12
744	120	3	0.120000	0.241286	1	0	1	0	4	0	22
1120	30	4	0.360000	0.418541	1	3	0	0	4	1	9
804	20	3	0.573333	0.464091	1	3	3	0	4	0	12
142	50	3	0.520000	0.434425	1	3	3	0	0	0	12
1094	20	3	0.560000	0.270519	1	3	3	0	4	0	12
188	90	3	0.426667	0.341595	1	3	0	0	4	0	20
579	50	4	0.653333	0.658776	1	3	3	0	4	0	17
1360	70	3	0.253333	0.516131	1	3	3	0	4	0	18
191	60	3	0.493333	0.369654	1	0	3	0	1	0	12
1403	20	3	0.226667	0.850742	1	0	3	0	1	0	21
357	120	4	0.160000	0.168912	1	3	3	0	4	0	10
1033	20	3	0.493333	0.410012	1	3	3	0	4	0	5
558	60	3	0.333333	0.493665	1	1	1	0	2	0	8
1016	20	3	0.546667	0.642274	1	3	3	0	4	0	5
448	50	4	0.240000	0.439370	1	3	0	0	4	0	9
384	60	3	0.493333	0.493665	1	1	2	0	0	1	4
160	20	3	0.493333	0.595117	1	0	3	0	1	0	24
85	60	3	0.493333	0.900371	1	3	3	0	0	0	15
723	50	3	0.373333	0.412917	1	3	3	0	4	0	7
376	85	3	0.333333	0.454574	1	0	3	0	1	0	5
629	80	3	0.666667	0.465328	1	3	3	0	0	0	12
508	70	4	0.373333	0.501174	1	3	3	0	4	0	17
175	20	3	0.693333	0.687515	1	3	3	0	0	0	7
1455	60	3	0.400000	0.397157	1	3	3	0	4	0	8
4	60	3	0.693333	0.789184	1	0	3	0	2	0	15
832	60	3	0.160000	0.497960	1	0	3	0	1	0	5
1226	60	3	0.720000	0.810074	1	0	3	0	1	0	21
1346	20	3	0.493333	0.493665	1	1	3	0	1	0	14
1218	50	4	0.266667	0.293511	1	3	3	0	4	0	3
290	60	3	0.493333	0.872682	1	3	3	0	4	0	5
291	50	3	0.306667	0.259333	1	3	0	0	4	0	18
1039	50	4	0.493333	0.493619	1	3	3	0	4	0	10

1093	20	3	0.520000	0.478307	1	3	3	0	0	0	12
1234	70	2	0.306667	0.434734	1	3	0	0	4	0	18
813	20	3	0.573333	0.510445	1	3	3	0	4	0	12
457	20	3	0.493333	0.493665	1	0	2	0	1	1	4
166	20	3	0.493333	0.569654	1	0	3	0	4	0	4
1119	20	3	0.506667	0.375093	1	3	3	0	4	0	12
262	80	3	0.746667	0.431397	1	0	3	0	0	0	19
199	20	3	0.586667	0.500618	1	3	3	0	4	0	16
1432	30	3	0.373333	0.575340	1	3	3	0	4	0	17
951	20	2	0.373333	0.389926	1	3	3	0	0	0	20
767	50	3	0.573333	0.680902	1	0	3	0	4	0	11
1098	50	4	0.240000	0.278677	1	3	3	0	4	0	3
120	80	3	0.493333	0.493665	1	0	2	0	1	2	4
517	60	3	0.626667	0.538752	1	0	3	0	4	0	15
1395	60	3	0.746667	0.690606	1	0	3	0	4	0	23
1355	80	3	0.933333	0.537763	1	0	3	0	4	0	14
747	70	4	0.440000	0.630964	1	0	3	0	0	0	17
830	20	3	0.640000	0.643325	1	0	3	0	0	0	12
1012	70	3	0.306667	0.562485	1	3	3	0	4	0	6
1275	90	3	0.840000	0.609023	1	3	3	0	0	0	12
478	20	3	0.626667	0.565266	1	3	3	0	4	0	5
696	30	4	0.240000	0.278677	1	3	3	0	4	0	3
1059	50	3	0.493333	0.604697	1	0	1	0	0	1	6
894	90	3	0.426667	0.341595	1	3	0	0	4	0	20
1027	20	3	0.520000	0.496230	1	0	1	0	4	0	23
1272	20	3	0.493333	0.743820	1	0	3	0	1	0	19
569	90	3	0.493333	0.342460	1	0	3	0	0	0	12
711	50	0	0.453333	0.446292	1	3	1	0	4	1	9
1195	60	3	0.253333	0.404079	1	0	3	0	4	0	8
1085	85	3	0.546667	0.468356	1	3	3	0	4	0	20
39	90	3	0.440000	0.281150	1	3	3	0	4	0	7
108	50	4	0.706667	0.433189	1	3	3	0	0	0	9
1449	50	4	0.493333	0.002596	1	3	3	0	4	0	10
834	20	3	0.573333	0.394561	1	3	3	0	4	0	12
759	60	3	0.440000	0.665389	1	0	3	0	4	0	15
406	50	3	0.253333	0.555562	1	3	3	0	4	0	18
1091	50	1	0.493333	0.041347	1	3	3	0	4	0	21
193	50	4	0.493333	0.063721	1	3	3	0	4	0	7
459	50	3	0.493333	0.341409	1	0	0	0	0	0	3
1	20	3	0.640000	0.501174	1	3	3	0	2	0	24
409	60	1	0.706667	0.575340	1	3	3	0	4	0	21
968	50	4	0.240000	0.274042	1	3	3	0	4	0	17
212	60	1	0.533333	0.441842	1	3	3	0	4	0	21
1072	50	3	0.240000	0.376638	1	3	3	0	4	0	7
1326	30	2	0.506667	0.171755	1	3	0	0	4	1	7
919	20	3	0.733333	0.589493	1	0	3	0	0	0	12
726	20	3	0.493333	0.493665	1	0	3	0	0	0	6
1063	30	4	0.240000	0.278677	1	3	3	0	4	0	17
201	20	3	0.573333	0.533622	1	3	3	0	4	0	11
1405	120	4	0.160000	0.145303	1	0	1	0	4	1	6
718	60	3	0.853333	0.559394	1	3	3	0	4	0	15
353	30	4	0.373333	0.434425	1	3	3	0	4	0	17
1344	60	3	0.706667	0.594067	1	0	3	0	0	0	5
453	60	1	0.573333	0.464091	1	3	3	0	4	0	21
709	20	3	0.493333	0.350494	1	0	3	0	4	0	19

1235	70	3	0.853333	0.719468	1	3	3	0	4	0	6
687	50	1	0.493333	0.223362	1	1	3	0	2	0	21
501	60	1	0.573333	0.513721	1	3	3	0	4	0	21
915	50	4	0.493333	0.031520	1	3	3	0	4	0	10
833	20	3	0.906667	0.526143	1	3	3	0	4	0	12
1183	30	3	0.373333	0.575340	1	3	3	0	4	0	17
1279	50	0	0.373333	0.371384	1	3	3	0	4	0	9
987	20	3	0.680000	0.535723	1	0	3	0	4	0	16
889	20	3	0.493333	0.659394	1	3	3	0	4	0	12
1184	20	3	0.240000	0.493665	0	3	3	0	4	1	23
231	60	3	0.493333	0.843449	1	0	3	0	4	0	15
280	60	3	0.666667	0.605439	1	3	3	0	4	0	20
1203	20	3	0.573333	0.510445	1	3	3	0	4	0	5
496	20	3	0.493333	0.692274	1	0	3	0	4	0	15
911	20	3	0.493333	0.481768	1	0	3	0	1	1	5
712	120	3	0.106667	0.196539	1	0	1	0	4	0	22
1248	75	4	0.373333	0.501174	1	3	3	0	4	0	17
341	20	2	0.373333	0.427009	1	3	3	0	4	0	20
474	120	3	0.120000	0.237268	1	3	3	0	4	0	22
1186	50	3	1.000000	0.563906	1	0	0	0	0	1	17
1011	90	3	0.573333	0.515080	1	3	3	0	4	0	7
948	60	3	0.440000	0.773486	1	0	3	0	4	0	5
1053	20	3	0.480000	0.437021	1	3	3	0	4	1	7
36	20	3	0.493333	0.578986	1	3	3	0	0	0	5
950	20	3	0.373333	0.352843	1	3	3	0	4	0	12
225	50	4	0.493333	0.011681	1	3	3	0	4	0	2
1329	60	3	0.413333	0.469283	1	0	3	0	4	0	8
730	120	3	0.093333	0.240915	1	0	3	0	4	0	22
55	20	3	0.906667	0.536712	1	0	3	0	4	0	12
1262	50	3	0.493333	0.603152	1	3	3	0	4	0	4
1388	20	3	0.133333	0.828245	1	0	1	0	1	0	8
660	60	3	0.493333	0.673239	1	3	3	0	1	0	14
690	120	4	0.493333	0.181397	1	3	3	0	4	0	5
1138	20	3	0.493333	0.514710	1	0	3	0	4	1	11
1076	50	3	0.373333	0.575340	1	3	3	0	4	0	17
432	50	4	0.493333	0.026514	1	3	3	0	4	0	2
1020	20	3	0.373333	0.341965	1	3	3	0	4	0	7
653	50	4	0.373333	0.545674	1	3	3	0	4	0	9
264	30	4	0.493333	0.231211	1	2	0	0	4	0	17
1110	60	3	0.493333	0.402287	1	3	3	0	4	0	8
1148	50	4	0.493333	0.260136	1	3	3	0	4	0	17
923	120	3	0.240000	0.403028	1	3	3	0	4	0	20
1436	20	3	0.373333	0.464091	1	3	3	0	2	0	12
571	20	3	0.373333	0.361001	1	3	3	0	4	0	12
769	60	3	0.200000	0.493665	1	1	1	0	1	1	22
863	20	3	0.506667	0.398022	1	3	3	0	4	0	12
999	20	3	0.426667	0.325773	1	3	3	0	4	0	5
1414	50	3	0.426667	0.714586	1	3	0	0	4	0	3
306	60	3	0.493333	0.740606	1	3	3	0	4	0	20
822	60	3	0.493333	0.673857	1	0	3	0	0	0	8
1373	20	3	0.493333	0.612423	1	3	3	0	4	0	15
862	20	3	0.653333	0.505624	1	3	3	0	0	0	20
1082	20	3	0.506667	0.448578	1	3	3	0	4	0	5
1332	20	3	0.466667	0.456489	1	3	3	0	4	1	7

361	50	3	0.493333	0.472991	1	3	3	0	4	0	3
1232	90	3	0.506667	0.516131	1	3	3	0	2	0	12
765	20	3	0.573333	0.809394	1	0	3	0	4	0	21
250	30	3	0.306667	0.238504	1	0	3	0	4	0	3
284	120	3	0.240000	0.403028	1	3	3	0	4	0	20
1142	60	3	0.600000	0.523733	1	3	3	0	4	0	5
136	20	3	0.493333	0.547837	1	0	3	0	0	0	12
16	20	3	0.493333	0.602596	1	0	3	0	1	0	12
152	60	3	0.493333	0.822744	1	0	3	0	1	0	14
597	120	3	0.280000	0.150247	1	3	3	0	4	0	0
176	60	3	0.866667	0.527689	1	0	3	0	0	0	4
1056	120	3	0.146667	0.343696	1	0	3	0	4	0	16
418	50	3	0.373333	0.412176	1	3	3	0	4	0	7
691	60	3	0.960000	0.493665	1	0	3	0	0	0	15
799	50	3	0.373333	0.352843	1	3	3	0	0	0	18
210	30	3	0.466667	0.254203	1	3	3	0	4	0	7
1290	80	3	0.493333	0.780037	1	0	3	0	0	0	12
285	50	1	0.040000	0.170581	1	0	3	0	4	0	21
694	50	4	0.253333	0.286094	1	3	3	0	0	0	3
25	20	3	0.493333	0.787330	1	3	3	0	0	0	16
1418	20	3	0.520000	0.476700	1	3	3	0	4	0	12
14	20	3	0.493333	0.582756	1	0	3	0	0	0	12
371	50	3	0.640000	0.965946	1	3	3	0	4	0	4
861	50	3	0.573333	0.626329	1	3	3	0	4	0	19
689	120	3	0.386667	0.376143	1	0	3	0	0	0	16
480	20	3	0.880000	0.898764	1	0	3	0	2	0	16
606	20	3	0.666667	0.678183	1	1	2	0	0	1	5
940	90	3	0.306667	0.689061	1	0	3	0	4	0	11
1010	50	3	0.493333	0.493665	1	3	3	0	4	0	19
788	20	4	0.240000	0.278677	1	3	3	0	0	0	17
781	60	3	0.440000	0.349938	1	3	3	0	4	0	20
272	60	3	0.800000	0.634920	1	0	3	0	1	0	15
1089	120	1	0.066667	0.112794	1	0	3	0	4	0	21
586	30	3	0.306667	0.542398	1	3	3	0	4	0	3
962	50	3	0.493333	0.050494	1	3	3	0	0	0	13
69	50	3	0.653333	0.871570	1	3	3	0	0	0	4
1113	20	3	0.453333	0.459333	1	3	3	0	4	0	12
668	20	3	0.493333	0.783931	1	3	0	0	0	1	19
677	30	3	0.266667	0.465451	1	3	3	0	4	0	17
156	20	3	0.373333	0.352843	1	3	3	0	4	0	12
287	20	3	0.493333	0.410012	1	0	3	0	0	0	12
778	90	2	0.373333	0.427009	1	3	3	0	4	0	20
929	60	3	0.493333	0.711681	1	0	3	0	0	0	8
757	60	3	0.493333	0.625773	1	0	3	0	1	0	19
80	60	3	0.906667	0.711310	1	3	3	0	0	0	12
878	85	3	0.746667	0.636032	1	0	3	0	4	0	19
1035	20	3	0.493333	0.618603	1	0	3	0	1	0	7
299	20	3	0.640000	0.773115	1	3	3	0	4	0	6
254	20	3	0.506667	0.427009	1	3	3	0	4	0	12
706	20	3	0.493333	0.493665	1	1	2	0	1	2	4
1164	80	3	0.493333	0.906428	1	0	3	0	2	0	24
664	20	3	0.226667	0.493665	1	1	3	0	1	0	21
369	20	3	0.493333	0.515389	1	0	3	0	0	0	12
879	20	3	0.493333	0.340482	1	0	3	0	1	0	5
1335	20	3	0.640000	0.504265	1	3	3	0	4	0	14

1370	50	3	0.773333	0.241595	1	3	3	0	0	0	17
356	20	3	0.493333	0.479419	1	0	3	0	4	0	8
22	20	3	0.573333	0.509951	1	3	3	0	4	0	5
87	50	1	0.106667	0.152040	1	3	3	0	0	0	21
1019	120	3	0.146667	0.094067	1	3	3	0	4	0	0
233	20	3	0.573333	0.566069	1	3	3	0	0	0	5
654	20	3	0.786667	0.552905	1	0	3	0	4	0	15
1146	20	3	0.493333	0.600062	1	3	3	0	4	0	20
1259	20	3	0.440000	0.510445	1	3	3	0	2	0	12
1442	60	1	0.706667	0.587886	1	3	3	0	4	0	21
1216	90	4	0.480000	0.459765	1	3	3	0	4	0	19
399	60	1	0.440000	0.410012	1	3	3	0	4	0	21
484	20	3	0.493333	0.387330	1	0	3	0	0	0	19

In [111…
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y_train
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Out[111]:
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401     164990
608     163000
450     110000
883     118500
395     129000
1043    262280
449     120000
1040    155000
373     123000
983     255900
1438    149700
1129    140000
207     141000
873     133000
979     139000
1161    224000
779     135000
807     223500
1163    108959
451     280000
888     268000
548     125000
270     266000
1256    301500
234     216500
205     180500
93      133900
565     128000
113     217000
746     236000
1453     84500
1383    112000
1417    340000
1322    190000
1450    136000
1017    187500
890     122900
591     163000
358     130000
255     230000
1084    187500
676      87000
1162    129000
274     124500
512     129900
842     174900
589      79500
390     119000
1137     94000
83      126500
446     190000
298     175000
1340    123000
292     131000
41      170000
267     179500
1083    160000
220     204900
1224    184000
387     125000
24      154000
1352    134900
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836	153500
218	311500
239	113000
454	188000
334	192000
613	147000
1024	287000
1345	108500
433	181000
975	165000
876	132250
855	127000
1227	147000
360	156000
1358	177500
1127	259000
722	124500
368	132000
1401	193000
773	114500
1278	237000
320	163000
577	164500
699	196000
907	250000
348	154000
367	165000
1058	335000
556	141000
557	108000
688	163000
1141	197500
521	150000
1399	137450
344	85000
764	270000
920	201000
1289	281000
158	254900
237	194500
323	126175
82	245000
1073	159500
1172	171900
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1267	163000
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707	254000
925	175000
902	180000
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1384	105000
524	315750
870	109500
1337	52500
125	84500
525	176000
590	185900
974	167500
1361	260000
578	146000
549	263000
460	263435
116	139000
852	164000
347	157500
228	125000
29	68500
886	145000
9	118000
1105	325000
10	129500
1175	285000
520	106250
209	145000
396	123000
275	205000
998	91000
413	115000
407	177000
216	210000
20	325300
559	234000
922	169990
1280	227000
1095	176432
103	198900
1277	197900

214	161750
328	214500
124	181000
939	244400
1431	143750
652	191000
984	126000
382	213500
1176	119500
249	277000
3	140000
655	88000
763	337000
1052	165000
539	272000
405	150000
934	242000
316	260000
1380	58500
293	235000
122	136000
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563	185000
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957	132000
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84	168500
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895	140000
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503	289000
728	110000
937	253000
128	155000
1342	228500
1112	129900
733	131400
310	165600
408	280000
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1099	157000
1307	138000
1107	274725
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109	190000
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792	269790
245	241500
268	120500

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391	215000
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941	214000
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91	98600
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602	220000
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1118	140000
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211	186000
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740	132000
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585	163000
732	222500
1080	145000
978	110000
685	207500
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187	135000
19	139000
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679	128500

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771	102000
543	133000
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775	162000
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798	163000
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875	303477
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918	238000
304	295000
135	174000
393	100000
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265	175500
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990	163000
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518	211000
1397	137500
930	201000
682	173000
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374	219500
458	161000
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1180	250000
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286	159000
189	286000
884	100000
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183	200000
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744	180000
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804	118000
142	166000
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191	184000
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357	134000
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558	175000
1016	203000
448	119500
384	240000
160	162500
85	260000
723	135000
376	148000
629	168500
508	161000
175	243000
1455	175000
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832	237000
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1346	262500
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1234	130000
813	157900
457	256000
166	190000
1119	133700
262	151000
199	274900
1432	64500
951	119900
767	160000
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120	180000
517	265000
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747	265979
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759	290000

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459	110000
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409	339750
968	37900
212	252678
1072	91500
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919	176500
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1405	275000
718	163000
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453	210000
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950	129000
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1329	176500
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55	180500
1262	161500
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690	141000
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1076	170000
432	122500
1020	176000
653	135000
264	73000
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1148	116900
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799	175000

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210      98000
1290    180500
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694     141500
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861     131500
689     194700
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1010    135000
788     107900
781     175900
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Name: SalePrice, dtype: int64
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In [112…

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x_test
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Out[112]:

	MSSubClass	MSZoning	LotFrontage	LotArea	Street	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborhood	Condi
523	60	3	0.493333	0.493665	1	0	0	0	4	0	7	
1236	50	3	0.053333	0.070272	1	3	3	0	4	0	16	
1339	20	3	0.493333	0.498702	1	0	3	0	0	0	5	
18	20	3	0.453333	0.754265	1	3	3	0	4	0	20	
235	50	4	0.493333	0.011681	1	3	3	0	4	0	2	
98	30	3	0.706667	0.564524	1	3	3	0	0	0	7	
434	50	4	0.493333	0.024660	1	3	3	0	4	0	10	
77	50	4	0.240000	0.441533	1	3	3	0	4	0	3	
672	20	3	0.493333	0.603152	1	0	3	0	4	0	24	
112	60	3	0.600000	0.523733	1	3	3	0	4	0	5	
238	20	3	0.813333	0.651360	1	3	3	0	4	0	16	
495	30	0	0.373333	0.394808	1	3	3	0	4	0	9	
278	20	3	1.000000	0.800927	1	3	3	0	4	0	16	
568	50	3	0.626667	0.669716	1	0	2	0	4	1	20	
1202	50	4	0.240000	0.278677	1	3	3	0	0	0	3	
1434	20	3	0.640000	0.983251	1	3	2	0	4	1	11	
954	90	3	0.040000	0.488813	1	0	3	0	1	0	7	
1304	50	4	0.000000	0.115698	1	3	3	0	4	0	7	
73	20	3	0.706667	0.538257	1	3	3	0	4	0	12	

674	20	3	0.640000	0.476452	1	3	3	0	4	0	12
1247	80	3	0.493333	0.669778	1	0	3	0	4	0	11
639	120	3	0.280000	0.153956	1	3	3	0	4	0	0
1354	60	3	0.493333	0.545426	1	0	3	0	4	0	5
1000	20	3	0.560000	0.538628	1	3	3	0	0	0	7
570	90	3	0.560000	0.717553	1	0	3	0	4	0	12
6	20	3	0.573333	0.531088	1	3	3	0	4	0	21
1271	20	3	0.493333	0.473733	1	0	3	0	4	0	14
487	20	3	0.506667	0.664524	1	0	3	0	4	0	14
1006	20	3	0.493333	0.659085	1	2	3	0	4	0	12
800	60	3	0.626667	0.698826	1	0	1	0	4	1	4
819	120	3	0.160000	0.301607	1	0	3	0	4	0	16
511	120	3	0.106667	0.327627	1	0	3	0	4	0	16
933	20	3	0.413333	0.432386	1	3	3	0	2	0	5
440	20	3	0.973333	0.861557	1	3	3	0	4	0	16
1177	50	4	0.493333	0.151978	1	3	0	0	4	0	17
622	20	3	0.520000	0.344438	1	3	3	0	4	0	19
1188	60	3	0.480000	0.460074	1	0	3	0	4	0	5
1362	50	3	0.493333	0.681211	1	0	3	0	2	0	12
1149	70	4	0.240000	0.464091	1	3	3	0	4	0	17
627	80	3	0.640000	0.501174	1	3	3	0	4	0	12
5	50	3	0.706667	0.780222	1	0	3	0	4	0	11
56	50	1	0.493333	0.071323	1	3	3	0	4	0	21
1350	90	3	0.786667	0.627441	1	3	3	0	4	0	12
838	20	3	0.573333	0.496539	1	3	3	0	4	0	5
134	20	3	0.613333	0.546601	1	0	3	0	4	0	19
1109	20	3	1.000000	0.610074	1	0	3	0	4	0	16
1049	20	3	0.373333	0.593881	1	3	2	0	4	0	7
1096	70	4	0.373333	0.333189	1	3	3	0	4	0	9
47	20	1	0.693333	0.593634	1	3	3	0	4	0	21
333	120	4	0.360000	0.414524	1	3	3	0	3	0	16
198	75	4	0.800000	0.249011	1	3	3	0	0	0	17
64	60	3	0.493333	0.487268	1	3	3	0	4	0	5
946	80	3	0.506667	0.412361	1	3	3	0	4	0	12
554	60	3	0.706667	0.564524	1	3	3	0	4	0	16
76	20	3	0.493333	0.431644	1	0	3	0	4	0	12
1211	50	3	0.493333	0.657787	1	0	0	0	4	1	8
95	60	3	0.493333	0.511372	1	1	3	0	0	0	8
257	20	3	0.480000	0.452596	1	3	3	0	4	0	5
1014	20	3	0.373333	0.628739	1	3	3	0	4	0	12
532	20	3	0.373333	0.352843	1	3	3	0	4	0	12
224	20	3	0.946667	0.740482	1	3	3	0	4	0	16
546	50	3	0.506667	0.447837	1	0	0	0	4	0	3
419	20	3	0.440000	0.430099	1	3	3	0	4	0	12
444	60	3	0.506667	0.448640	1	3	3	0	4	0	5
379	60	3	0.373333	0.409889	1	0	3	0	4	0	8
359	60	3	0.613333	0.650185	1	0	3	0	1	0	15
566	60	3	0.600000	0.599938	1	0	3	0	4	0	22
100	20	3	0.493333	0.563164	1	0	3	0	4	0	14
1391	90	3	0.440000	0.460630	1	3	3	0	4	0	12
48	50	4	0.013333	0.183251	1	3	3	0	4	0	17
648	60	3	0.506667	0.383745	1	3	3	0	4	0	12
1144	50	3	0.373333	0.660630	1	3	3	0	4	0	7
329	70	4	0.373333	0.303523	1	3	3	0	0	0	9

42	85	3	0.493333	0.475216	1	0	3	0	1	0	20
1410	60	3	0.626667	0.675464	1	3	3	0	4	0	5
868	60	3	0.493333	0.820210	1	1	3	0	0	0	8
140	20	3	0.506667	0.556799	1	3	3	0	2	0	12
1124	80	3	0.493333	0.471817	1	0	3	0	4	0	8
337	20	3	0.506667	0.472435	1	3	3	0	4	0	5
964	60	3	0.640000	0.607231	1	3	3	0	0	0	23
1330	20	3	0.706667	0.525896	1	3	3	0	4	0	21
1356	20	3	0.493333	0.493572	1	3	3	0	0	0	12
273	20	3	0.640000	0.501174	1	3	3	0	4	0	12
294	20	3	0.640000	0.501174	1	3	3	0	4	0	12
515	20	3	0.826667	0.663103	1	3	3	0	4	0	16
1251	120	3	0.493333	0.101669	1	0	3	0	0	0	16
438	30	3	0.106667	0.172373	1	3	3	0	4	0	6
1255	50	4	0.266667	0.293511	1	3	3	0	4	0	3
226	60	3	0.666667	0.522806	1	0	3	0	4	0	15
168	60	3	0.400000	0.417367	1	0	3	0	4	0	8
1245	80	3	0.613333	0.655068	1	3	3	0	4	0	14
1264	120	2	0.026667	0.158776	1	3	3	0	4	0	12
414	60	3	0.360000	0.601792	1	1	3	0	1	0	20
835	20	3	0.373333	0.501174	1	3	3	0	4	0	19
1147	70	3	0.573333	0.649506	1	3	0	0	4	0	6
737	60	3	0.533333	0.554512	1	0	1	0	1	0	8
1001	30	3	0.373333	0.241595	1	3	3	0	0	0	17
811	120	4	0.493333	0.182138	1	3	3	0	4	0	5
7	60	3	0.493333	0.549506	1	0	3	0	0	0	14
431	50	4	0.373333	0.253090	1	0	0	0	4	0	17
789	60	3	0.493333	0.662176	1	0	2	0	4	0	4
51	50	4	0.266667	0.293511	1	3	3	0	4	0	3
1331	80	3	0.306667	0.574104	1	0	3	0	4	0	5
1069	45	3	0.373333	0.501174	1	3	3	0	4	0	12
669	30	3	0.640000	0.624784	1	3	3	0	4	0	6
599	50	4	0.493333	0.028368	1	3	3	0	4	0	1
992	60	3	0.640000	0.511063	1	3	3	0	4	1	12
1126	120	3	0.280000	0.135538	1	3	3	0	4	0	0
1317	120	1	0.200000	0.169283	1	3	3	0	0	0	21
167	60	3	0.720000	0.560630	1	3	3	0	4	0	16
219	120	3	0.146667	0.093881	1	3	3	0	4	0	0
30	70	0	0.240000	0.433189	1	3	3	0	4	0	9
1030	50	2	0.493333	0.345550	1	3	3	0	4	0	18
614	50	4	0.493333	0.000000	1	3	3	0	4	0	10
126	120	3	0.493333	0.212423	1	0	3	0	4	0	13
640	120	3	0.400000	0.691347	1	0	3	0	4	0	16
1078	120	4	0.066667	0.181953	1	3	3	0	4	0	5
335	50	3	0.493333	0.493665	0	0	1	0	0	2	23
814	50	3	0.173333	0.417614	1	3	3	0	4	0	7
917	20	3	0.493333	0.967182	1	3	3	0	4	0	7
553	20	3	0.466667	0.450309	1	3	3	0	4	0	7
507	20	1	0.573333	0.393758	1	0	3	0	4	0	21
858	20	3	0.640000	0.550618	1	3	3	0	4	0	14
447	60	3	0.493333	0.600927	1	0	3	0	0	0	8
1050	20	3	0.546667	0.463659	1	0	3	0	4	0	8
363	50	4	0.493333	0.011681	1	3	3	0	4	0	2
203	120	4	0.493333	0.182138	1	3	3	0	4	0	5
849	80	3	0.640000	0.501174	1	3	3	0	2	0	24

1194	60	3	0.640000	0.486588	1	3	3	0	0	0	19
624	60	3	0.640000	0.550618	1	3	3	0	4	0	14
471	60	3	0.800000	0.646539	1	3	3	0	4	0	14
1389	50	4	0.373333	0.278677	1	3	3	0	4	0	3
1321	20	3	0.493333	0.317429	1	0	3	0	0	0	3
313	20	3	0.493333	0.493665	1	2	2	0	4	2	23
101	60	3	0.600000	0.476823	1	3	3	0	4	0	20
505	90	4	0.373333	0.377318	1	3	3	0	4	0	17
516	80	3	0.493333	0.553585	1	0	3	0	0	0	14
340	60	3	0.706667	0.784920	1	3	3	0	4	0	23
1210	60	3	0.506667	0.601174	1	3	3	0	4	0	20
816	20	3	0.493333	0.613968	1	0	3	0	0	0	12
1181	120	4	0.426667	0.253152	1	0	1	0	4	1	6
1081	20	3	0.573333	0.371384	1	3	3	0	0	0	19
172	50	3	0.160000	0.235785	1	0	3	0	4	0	22
256	60	1	0.426667	0.451174	1	0	3	0	4	0	21
859	60	3	0.493333	0.589493	1	0	3	0	0	0	14
345	50	3	0.440000	0.305562	1	3	3	0	4	0	3
1363	60	3	0.546667	0.433127	1	0	3	0	4	0	8
342	90	3	0.493333	0.435909	1	3	3	0	4	0	12
774	20	3	0.493333	0.787083	1	3	3	0	0	0	16
213	20	3	0.146667	0.746415	1	1	3	0	1	0	5
731	80	3	0.546667	0.500556	1	0	3	0	0	0	23
885	120	1	0.240000	0.224227	1	0	3	0	1	0	21
305	20	3	0.640000	0.549753	1	3	3	0	4	0	5
81	120	4	0.000000	0.185970	1	3	3	0	2	0	11
105	60	1	0.573333	0.487268	1	3	3	0	4	0	21
502	20	3	0.506667	0.474598	1	3	3	0	0	0	7
45	120	3	0.386667	0.381150	1	3	3	0	4	0	16
343	120	3	0.413333	0.454759	1	0	3	0	4	0	16
186	80	3	0.493333	0.522621	1	0	3	0	1	0	11
1311	20	3	0.480000	0.452596	1	3	3	0	4	0	5
1182	60	3	0.493333	0.873424	1	0	3	0	0	0	15
44	20	3	0.506667	0.398888	1	3	3	0	4	0	12
913	90	2	0.666667	0.295365	1	3	1	0	4	0	6
366	20	3	0.493333	0.494994	1	0	3	0	4	0	12
1246	60	1	0.440000	0.410012	1	3	3	0	4	0	21
351	120	3	0.493333	0.233622	1	0	2	0	4	1	4
1421	120	3	0.280000	0.157726	1	3	3	0	4	0	13
261	60	3	0.493333	0.500433	1	0	3	0	4	0	5
651	70	3	0.373333	0.469283	1	3	3	0	4	0	7
1287	20	3	0.493333	0.493665	1	0	2	0	4	1	4
469	60	3	0.586667	0.482077	1	0	3	0	0	0	20
1298	60	3	0.493333	0.493665	1	2	0	0	0	0	7
1274	50	3	0.280000	0.239246	1	3	3	0	0	0	6
692	60	3	0.133333	0.493665	1	0	3	0	4	1	23
955	90	2	0.666667	0.348888	1	0	1	0	4	0	6
970	50	3	0.373333	0.575340	1	3	3	0	4	0	12
850	120	4	0.053333	0.181953	1	3	3	0	4	0	5
824	20	1	0.653333	0.601051	1	3	3	0	4	0	21
117	20	3	0.560000	0.435414	1	3	3	0	0	0	7
1349	70	4	0.240000	0.232324	1	3	3	0	4	0	17
452	60	3	0.493333	0.482818	1	0	3	0	0	0	23
909	60	3	0.493333	0.685909	1	1	3	0	4	0	8
439	50	3	0.466667	0.671384	1	3	3	0	0	0	7

720	120	3	0.493333	0.313473	1	0	2	0	1	1	22
1199	20	3	0.573333	0.602225	1	3	3	0	4	0	19
253	80	3	0.706667	0.485723	1	3	3	0	4	0	12
892	20	3	0.506667	0.427874	1	3	3	0	4	0	19
1038	50	4	0.493333	0.002596	1	3	3	0	4	0	10
150	20	3	0.493333	0.547899	1	3	3	0	0	0	5
500	50	4	0.493333	0.024660	1	3	3	0	4	0	2
1135	30	4	0.373333	0.289802	1	3	3	0	0	0	3
385	120	3	0.146667	0.104512	1	3	3	0	4	0	0
1347	20	3	0.813333	0.853832	1	0	1	0	0	0	23
31	20	3	0.493333	0.435909	1	0	3	0	1	0	19
143	20	3	0.613333	0.546601	1	0	3	0	4	0	5
760	20	3	0.506667	0.470272	1	3	3	0	4	0	12
1318	20	3	0.493333	0.821384	1	1	3	0	1	0	5
1444	20	3	0.413333	0.433189	1	3	3	0	2	0	5
475	20	3	0.640000	0.431953	1	3	3	0	0	0	19
1376	30	3	0.266667	0.296724	1	3	0	0	4	0	18
1103	20	3	0.626667	0.458529	1	3	3	0	0	0	12
389	60	3	0.853333	0.678801	1	3	3	0	4	0	16
362	85	3	0.426667	0.359085	1	3	3	0	0	0	7
289	70	3	0.373333	0.447404	1	3	3	0	4	0	3
545	50	3	0.493333	0.763041	1	0	3	0	0	0	14
1237	60	3	0.120000	0.673795	1	1	3	0	2	0	5
179	30	4	0.373333	0.434425	1	3	3	0	4	0	17
58	60	3	0.453333	0.753461	1	1	1	0	1	0	22
412	20	1	0.493333	0.179975	1	1	3	0	4	0	21
642	80	3	0.573333	0.764462	1	3	3	0	4	0	12
1413	20	3	0.746667	0.587330	1	0	3	0	0	0	20
600	60	3	0.560000	0.583189	1	3	3	0	4	0	16
303	20	3	0.506667	0.513535	1	3	3	0	0	0	5
847	20	3	0.053333	0.867244	1	0	3	0	1	0	5
535	50	3	0.506667	0.340482	1	3	3	0	4	0	7
1190	50	3	0.493333	0.493665	1	3	2	0	4	1	11
236	20	3	0.440000	0.450062	1	3	3	0	2	0	5
643	60	3	0.640000	0.574907	1	3	3	0	4	0	14
102	90	3	0.426667	0.341595	1	3	0	0	4	0	20
693	30	3	0.373333	0.241595	1	3	3	0	0	2	17
633	20	3	0.640000	0.479543	1	3	3	0	0	0	12
514	45	3	0.306667	0.562608	1	3	3	0	4	0	6
982	20	3	0.146667	0.104512	1	3	3	0	4	0	0
1102	20	3	0.506667	0.340482	1	3	3	0	4	0	12
529	20	3	0.493333	0.493665	1	0	3	0	1	0	6
808	80	3	0.706667	0.736032	1	3	3	0	4	0	12
171	20	3	0.493333	0.493665	1	0	3	0	0	0	12
178	20	3	0.413333	0.984672	1	0	3	0	1	0	22
155	50	3	0.373333	0.501174	1	3	3	0	0	0	7
1295	20	3	0.506667	0.427009	1	3	3	0	4	0	12
714	60	3	0.493333	0.743263	1	0	3	0	1	0	19
574	80	3	0.506667	0.556799	1	3	3	0	2	0	12
659	20	3	0.573333	0.522002	1	3	3	0	0	0	7
417	70	3	0.720000	0.493665	1	0	3	0	4	0	6
1424	20	3	0.493333	0.495179	1	3	3	0	4	0	12
163	45	3	0.306667	0.247775	1	3	3	0	4	0	17
325	45	4	0.240000	0.216873	1	3	3	0	4	0	9
829	50	1	0.493333	0.065080	1	3	3	0	4	0	21

1250	20	3	0.813333	0.597590	1	3	3	0	0	0	12
908	20	3	0.493333	0.456984	1	0	2	0	4	1	11
924	20	3	0.626667	0.540729	1	3	3	0	4	0	14
881	50	3	0.160000	0.758158	1	0	3	0	1	0	23
634	90	3	0.426667	0.339184	1	3	3	0	4	0	17
26	20	3	0.373333	0.352843	1	3	3	0	0	0	12
785	20	3	0.493333	0.512917	1	3	3	0	4	0	14
991	70	4	0.493333	1.000000	1	3	3	0	0	0	17
526	20	3	0.506667	0.729852	1	3	3	0	4	0	12
318	60	3	0.773333	0.519716	1	3	2	0	4	1	15
386	50	3	0.346667	0.427627	1	3	3	0	2	0	7
678	20	3	0.640000	0.639864	1	0	3	0	4	0	22
1108	60	3	0.493333	0.406180	1	3	3	0	4	0	8
845	85	3	0.493333	0.936712	1	0	3	0	1	0	19
527	60	3	0.466667	0.831706	1	0	3	0	4	0	16
130	60	3	0.746667	0.785476	1	3	3	0	0	0	12
482	70	4	0.240000	0.062361	1	3	3	0	0	0	17
727	20	3	0.426667	0.359889	1	3	3	0	4	0	5
623	50	1	0.493333	0.038690	1	3	3	0	4	0	21
410	20	3	0.480000	0.499382	1	3	3	0	4	0	7
66	20	3	0.493333	0.493665	1	3	3	0	4	0	12
1065	60	3	0.640000	0.773115	1	3	3	0	4	1	4
137	90	3	0.666667	0.592027	1	3	3	0	4	0	11
174	20	3	0.200000	0.675216	1	0	3	0	4	0	23
981	60	3	0.880000	0.662052	1	0	3	0	0	0	15
562	30	3	0.413333	0.767367	1	3	3	0	4	0	7
1400	50	4	0.240000	0.278677	1	3	3	0	0	0	3
145	50	4	0.493333	0.063721	1	3	3	0	4	0	7
1334	50	4	0.493333	0.054203	1	3	3	0	4	0	2
594	20	3	0.746667	0.401669	1	0	3	0	4	0	5
92	30	3	0.640000	0.733560	1	0	1	0	4	0	6
1443	30	3	0.493333	0.455068	1	3	3	0	4	0	3
531	70	4	0.373333	0.288257	1	0	3	0	3	0	3
528	30	3	0.346667	0.470148	1	0	3	0	4	0	7
1026	20	3	0.546667	0.482633	1	3	3	0	4	0	12
1021	20	3	0.426667	0.365575	1	3	3	0	4	0	5
1133	60	3	0.640000	0.515266	1	0	3	0	4	0	20
943	90	3	0.906667	0.493665	1	3	2	0	4	0	11
1070	20	3	0.533333	0.535290	1	3	3	0	4	0	12
567	20	3	0.506667	0.536465	1	0	3	0	4	0	16
1115	20	3	0.813333	0.654759	1	3	3	0	4	0	16
1407	20	3	0.493333	0.450494	1	0	3	0	0	0	11
628	60	3	0.506667	0.625155	1	0	1	0	4	2	12
825	20	3	0.493333	0.822744	1	3	3	0	4	0	16
248	60	3	0.533333	0.607293	1	3	3	0	4	0	5
240	20	1	0.573333	0.464091	1	3	3	0	4	0	21
809	75	4	0.773333	0.408467	1	3	3	0	0	0	17
667	20	3	0.440000	0.410012	1	3	3	0	4	0	20
1206	20	2	0.493333	0.457911	1	3	3	0	4	0	20
180	50	1	0.493333	0.038690	1	3	3	0	4	0	21
1192	50	4	0.373333	0.501174	1	3	3	0	4	0	17
1243	20	3	1.000000	0.766378	1	3	3	0	4	0	16
547	85	3	0.293333	0.355562	1	3	3	0	4	0	11
1320	20	3	0.506667	0.427009	1	3	3	0	4	0	12

583	75	4	0.573333	0.742213	1	3	3	0	4	0	17
300	50	3	0.773333	0.881273	1	3	3	0	0	0	6
932	20	3	0.693333	0.629110	1	0	3	0	0	0	21
1409	60	3	0.186667	0.493665	1	0	3	0	1	0	14
828	60	3	0.493333	0.493665	1	1	2	0	1	2	4
1131	20	3	0.413333	0.569901	1	3	3	0	4	0	11
916	20	0	0.240000	0.464091	1	3	3	0	4	0	9
1046	60	3	0.706667	0.900185	1	0	3	0	4	0	22
378	20	3	0.746667	0.612052	1	3	3	0	0	0	22
1217	20	1	0.533333	0.441842	1	3	3	0	4	0	21
301	60	3	0.453333	0.910692	1	2	3	0	4	0	5
94	60	3	0.493333	0.484920	1	0	3	0	4	0	5
1174	70	3	0.640000	0.931335	1	0	3	0	4	0	6
1041	60	3	0.493333	0.472126	1	3	3	0	4	0	14
620	30	3	0.173333	0.417614	1	3	3	0	4	0	7
544	60	3	0.346667	0.964957	1	0	3	0	4	0	8
603	50	1	0.493333	0.104512	1	3	3	0	4	0	21
1169	60	3	0.493333	0.493665	1	0	3	0	1	0	15
1292	70	4	0.373333	0.315760	1	3	3	0	0	0	17
931	20	3	0.506667	0.470272	1	3	3	0	4	0	12
963	20	3	0.493333	0.644747	1	0	3	0	0	0	5
638	30	3	0.466667	0.450309	1	3	3	0	4	0	7
144	90	4	0.506667	0.470272	1	3	3	0	4	0	19
1447	60	3	0.640000	0.525896	1	3	3	0	4	0	5
40	20	3	0.693333	0.442954	1	3	3	0	4	0	12
146	30	4	0.253333	0.286094	1	3	3	0	0	0	3
1456	20	3	0.706667	0.722126	1	3	3	0	4	0	14
86	60	3	0.493333	0.644005	1	1	3	0	4	0	8
540	20	3	0.706667	0.810260	1	3	3	0	4	0	23
498	20	3	0.440000	0.389926	1	3	3	0	4	0	19
486	20	3	0.626667	0.543758	1	3	3	0	4	0	12
1229	80	3	0.506667	0.396724	1	3	3	0	4	0	12
38	20	3	0.480000	0.397466	1	3	3	0	4	0	12
538	20	3	0.493333	0.621879	1	0	3	0	4	0	19
826	45	4	0.240000	0.286712	1	3	3	0	4	0	3
90	20	3	0.373333	0.352843	1	3	3	0	4	0	12
307	50	4	0.493333	0.397342	1	0	3	0	4	0	9
415	20	3	0.546667	0.457849	1	0	3	0	4	0	8
795	60	3	0.506667	0.427009	1	3	3	0	4	0	20
173	20	3	0.640000	0.538072	1	0	3	0	4	0	12
848	50	3	0.573333	0.493665	1	1	0	0	4	0	4
1151	20	3	0.493333	0.493665	1	3	3	0	4	0	7
115	50	1	0.026667	0.107478	1	3	3	0	0	0	21
330	90	3	0.493333	0.564462	1	0	3	0	4	0	12
28	20	3	0.200000	0.916564	1	0	3	0	1	0	12
1125	20	3	0.373333	0.552719	1	3	3	0	4	0	12
657	70	3	0.373333	0.352843	1	3	1	0	4	1	6
364	60	3	0.493333	0.493665	1	0	3	0	2	0	14
1366	60	3	0.480000	0.475155	1	0	3	0	4	0	5
65	60	3	0.586667	0.500618	1	3	3	0	4	0	16
217	70	4	0.333333	0.520087	1	3	3	0	4	0	17
1293	60	3	0.613333	0.534549	1	3	3	0	4	0	14
598	20	3	0.640000	0.710321	1	3	0	0	4	0	6
666	60	3	0.493333	0.493665	1	0	3	0	4	0	12
635	50	2	0.373333	0.581273	1	3	0	0	4	0	18

541	60	3	0.493333	0.587701	1	3	3	0	2	0	15
1160	50	3	0.493333	0.048764	1	3	3	0	4	0	13
1252	20	3	0.400000	0.517120	1	3	3	0	4	0	11
1404	50	3	0.373333	0.551236	1	3	3	0	0	0	17
315	60	3	0.520000	0.389617	1	0	3	0	4	0	8
1398	50	3	0.373333	0.352843	1	3	3	0	4	0	12
631	120	3	0.026667	0.191533	1	3	3	0	4	0	16
1212	30	3	0.240000	0.485105	1	3	3	0	4	0	7
282	120	3	0.026667	0.220766	1	3	3	0	4	0	16
1111	60	3	0.640000	0.555562	1	3	3	0	4	0	14
1291	50	4	0.493333	0.011681	1	3	3	0	4	0	2
197	75	3	0.493333	0.493665	1	3	3	0	0	0	12
843	90	3	0.640000	0.402287	1	3	3	0	0	0	12
551	20	4	0.240000	0.278677	1	3	3	0	4	0	17
1412	90	3	0.373333	0.352843	1	3	3	0	4	0	12
1106	20	3	0.493333	0.547960	1	0	3	0	0	0	20
1154	60	3	0.493333	0.754574	1	0	3	0	4	0	12
721	120	4	0.493333	0.181397	1	3	3	0	4	0	5

In [113…
```
y_test
```

Out[113]:
```
523     184750
1236    175500
1339    128500
18      159000
235      89500
98       83000
434      81000
77      127000
672     165000
112     163000
238     318000
495      34900
278     163000
568     316600
1202    117000
1434    160000
954     127500
1304    130000
73      144900
674     140000
1247    169900
639     264561
1354    235000
1000     82000
570     142600
6       307000
1271    185750
487     175000
1006    163500
800     200000
819     224000
511     202665
933     190000
440     163000
1177    115000
622     135000
1188    195000
1362    104900
1149    143000
627     153000
5       143000
56      172500
1350    200000
838     144000
134     180000
1109    280000
1049     84900
1096    127000
47      249700
333     207000
198     104000
64      219500
946     143000
554     284000
76      135750
```

1211	164000
95	185000
257	220000
1014	119200
532	107500
224	163000
546	210000
419	142000
444	210000
379	179000
359	280000
566	325000
100	205000
1391	124000
48	113000
648	155000
1144	80000
329	78000
42	144000
1410	230000
868	169000
140	115000
1124	163900
337	214000
964	214900
1330	227000
1356	110000
273	139000
294	167000
515	163000
1251	171750
438	90350
1255	127500
226	290000
168	183500
1245	178000
1264	181000
414	228000
835	128000
1147	174500
737	239900
1001	86000
811	144500
7	200000
431	79900
789	187500
51	114500
1331	132500
1069	135000
669	137500
599	151000
992	187000
1126	174000
1317	208900
167	325624
219	167240
30	40000
1030	160000
614	75500
126	128000
640	274000
1078	155900
335	228950
814	116000
917	135000
553	108000
507	208300
858	152000
447	199900
1050	176485
363	118000
203	149000
849	187000
1194	158000
624	165150
471	190000
1389	131000
1321	72500
313	163000
101	178000
505	124500
516	158000
340	202900
1210	189000
816	137000
1181	163000
1081	133000
172	239000
256	207500

859	250000
345	140200
1363	156932
342	87500
774	163000
213	156000
731	187500
885	328900
305	305900
81	153500
105	250000
502	140000
45	319900
343	266000
186	173000
1311	203000
1182	163000
44	141000
913	145000
366	159000
1246	186500
351	190000
1421	127500
261	276000
651	108000
1287	190000
469	187000
1298	160000
1274	139000
692	335000
955	145000
970	135000
850	131500
824	232600
117	155000
1349	122000
452	204000
909	174000
439	110000
720	275000
1199	148000
253	158000
892	154500
1038	97000
150	122000
500	113000
1135	102000
385	192000
1347	283463
31	149350
143	204000
760	127500
1318	275000
1444	179600
475	132500
1376	91000
1103	159500
389	163000
362	198500
289	153575
545	229000
1237	195000
179	100000
58	163000
412	222000
642	163000
1413	257000
600	275000
303	149900
847	133500
535	107500
1190	168000
236	185500
643	152000
102	118964
693	108480
633	139400
514	96500
982	159895
1102	135000
529	200624
808	159950
171	215000
178	163000
155	79000
1295	138500
714	130500
574	139000
659	167000

417	239000
1424	144000
163	103200
325	87000
829	147400
1250	244000
908	131000
924	207500
881	187500
634	144000
26	134800
785	161500
991	168000
526	132000
318	260000
386	81000
678	163000
1108	181000
845	171000
527	163000
130	226000
482	155000
727	194500
623	168500
410	60000
66	180000
1065	328000
137	171000
174	184000
981	336000
562	108000
1400	120000
145	130000
1334	125000
594	110000
92	163500
1443	121000
531	128000
528	86000
1026	167500
1021	194000
1133	239500
943	143000
1070	135000
567	214000
1115	318000
1407	112000
628	135000
825	163000
248	180000
240	262500
809	106000
667	193500
1206	107000
180	177000
1192	125000
1243	163000
547	129500
1320	156500
583	325000
300	157000
932	320000
1409	215000
828	185000
1131	93500
916	35311
1046	163000
378	163000
1217	229456
301	267000
94	204750
1174	239000
1041	173000
620	67000
544	179665
603	151000
1169	163000
1292	107500
931	117500
963	239000
638	85000
144	125000
1447	240000
40	160000
146	105000
1456	210000
86	174000
540	315000
498	130000

```
486     156000
1229    127000
38      109000
538     158000
826     109500
90      109900
307      89500
415     181134
795     171000
173     163000
848     240000
1151    149900
115     176000
330     119000
28      207500
1125    115000
657     149000
364     190000
1366    193000
65      317000
217     107000
1293    162900
598     217500
666     129000
635     200000
541     248000
1160    146000
1252    130000
1404    105000
315     188500
1398    138000
631     209500
1212    113000
282     207500
1111    205000
1291    119500
197     235000
843     141000
551     112500
1412     90000
1106    179900
1154    201800
721     143000
Name: SalePrice, dtype: int64
```

In [114…

```
print(x_train.shape)
print(x_test.shape)
print(y_train.shape)
print(y_test.shape)
```

```
(1095, 75)
(365, 75)
(1095,)
(365,)
```

Insights

- Split the available data into training and testing sets.
- Use the training set to train and tune various models, and then evaluate their performance on the separate testing set.
- This helps estimate how well a model will generalize to unseen data.

Build and evaluvate the model

LinearRegression

* ML Algorithm based on supervised learning that is commonly used for predictive analysis. * Used to determine the linear relationship between the dependent variable (y) and independent variable (x). *This linear relationship is represented by a straight line called regression line / best-fit line. *This line is the pattern on which the machine has learned from the data. *Used for predicting the output of quantitative type (continuous value) eg. Age, salary, price etc. --->Simple Linear Regression: one X variable and one Y variable Formula: y = mx + c y is the response or target variable x is the predictor variable m is the coefficient of x c is the intercept --->Multiple Linear Regression: one Y variable and two or more X variable Formula: y = m1x1 + m2x2.....+ mnxn y is the target variable x1, x2, x3..xn represents the features. m1, m2, m3....mn are the coefficients of each feature ie., x1, x2, x3.. respectively.

In [115…

```
from sklearn.linear_model import LinearRegression
model1=LinearRegression()
model1.fit(x_train,y_train)
y_pred1=model1.predict(x_test)
```

Model Evaluation matrix

In linear regression, an evaluation matrix or evaluation metrics are used to assess the performance of the regression model and measure how well it fits the observed data. The choice of evaluation metrics depends on the specific problem and the goals of the analysis. Here are some commonly used evaluation

metrics for linear regression --->Mean Squared Error (MSE): MSE is a popular metric that measures the average squared difference between the predicted and actual values. It gives higher weights to larger errors, making it sensitive to outliers. The formula for MSE is: MSE = (1/n) * Σ(y - y_pred)^2 where n is the number of samples. y : is the actual value y_pred : is the predicted value --->Root Mean Squared Error (RMSE): RMSE is the square root of MSE and provides the error in the same units as the dependent variable. It is a commonly used metric for regression tasks. The formula for RMSE is: RMSE = √(MSE) --->Mean Absolute Error (MAE): MAE measures the average absolute difference between the predicted and actual values. It is less sensitive to outliers compared to MSE. The formula for MAE is: MAE = (1/n) * Σ|y - y_pred| --->R-squared (R^2) or Coefficient of Determination: R-squared represents the proportion of variance in the dependent variable that can be explained by the independent variables. It measures the goodness of fit of the model and ranges from 0 to 1. Higher values indicate a better fit. The formula for R-squared is: $R^2 = 1 - (SSR/SST)$ where SSR is the sum of squared residuals and SST is the total sum of squares. --->Adjusted R-squared: Adjusted R-squared is similar to R-squared but penalizes the addition of unnecessary variables to the model. It takes into account the number of predictors in the model and adjusts R-squared accordingly, providing a more conservative measure of model performance. ---->Mean Squared Logarithmic Error (MSLE): MSLE measures the average logarithmic difference between the predicted and actual values. It is useful when the target variable has a large range or exhibits exponential growth. The formula for MSLE is similar to MSE, but it applies logarithms to the values before calculation. These are some of the commonly used evaluation metrics for linear regression. The choice of which metric to use depends on the specific problem and the requirements of the analysis.

In [116…

```
from sklearn.metrics import r2_score,mean_absolute_error,mean_squared_error
mse=mean_squared_error(y_test,y_pred1)
mae=mean_absolute_error(y_test,y_pred1)
rmse=mean_squared_error(y_test,y_pred1,squared=False)
r2=r2_score(y_test,y_pred1)
print("MSE:",mse)
print("MAE:",mae)
print("RMSE:",rmse)
print("R2SCORE",r2)
```

```
MSE: 1226132708.223188
MAE: 23390.658988519423
RMSE: 35016.17780716776
R2SCORE 0.6297147968032755
```

Random Forest

--->A random forest is a supervised machine learning algorithm that is constructed from decision tree algorithms. --->A random forest is a machine learning technique that's used to solve regression and classification problems. It utilizes ensemble learning, which is a technique that combines many classifiers to provide solutions to complex problems. --->The (random forest) algorithm establishes the outcome based on the predictions of the decision trees. It predicts by taking the average or mean of the output from various trees. Increasing the number of trees increases the precision of the outcome.

In [117…

```
from sklearn.ensemble import RandomForestRegressor
model2=RandomForestRegressor(n_estimators=100)
model2.fit(x_train,y_train)
y_pred2=model2.predict(x_test)
```

Model Evaluation matrix

In [118…

```
from sklearn.metrics import r2_score,mean_absolute_error,mean_squared_error
mse=mean_squared_error(y_test,y_pred2)
mae=mean_absolute_error(y_test,y_pred2)
rmse=mean_squared_error(y_test,y_pred2,squared=False)
r2=r2_score(y_test,y_pred2)
print("MSE:",mse)
print("MAE:",mae)
print("RMSE:",rmse)
print("R2SCORE",r2)
```

```
MSE: 853869634.3860452
MAE: 19784.49580821918
RMSE: 29221.047797538766
R2SCORE 0.7421361578957264
```

GradientBoosting

--->The GradientBoostingRegressor is a machine learning algorithm that is commonly used for regression tasks. It belongs to the gradient boosting family of algorithms, which are ensemble methods that combine multiple weak prediction models to create a strong predictive model. Here's an explanation of how the GradientBoostingRegressor algorithm works: 1)Ensemble of Weak Models: The algorithm starts with an initial weak model, which is typically a decision tree with limited depth. This weak model makes predictions, but its accuracy is relatively low. 2)Sequential Model Building: The algorithm then builds subsequent weak models in a sequential manner. Each new model is trained to correct the mistakes made by the previous models. In other words, it focuses on predicting the errors or residuals of the previous models. 3)Gradient Descent Optimization: The learning process involves minimizing a loss function by iteratively optimizing the model's parameters using gradient descent. In each iteration, the algorithm calculates the gradient of the loss function with respect to the predictions of the previous models. It then adjusts the predictions of the current model in the direction that minimizes the loss. 4)Combining Weak Models: The final prediction is obtained by combining the predictions of all the weak models. The combination is typically done by taking a weighted average, where the weights are determined during the training process. 5)Hyperparameters: The GradientBoostingRegressor has several hyperparameters that can be tuned to control the behavior of the algorithm. These include the number of weak models (controlled by the n_estimators parameter), the depth of each weak model (controlled by the max_depth parameter), and the learning rate (controlled by the learning_rate parameter), among others. 6)Regularization: To prevent overfitting, the algorithm typically employs regularization techniques such as shrinkage or subsampling. Shrinkage involves multiplying the predictions of each weak model by a small learning rate, reducing their impact on the final prediction. Subsampling involves randomly selecting a subset of the training data for each weak model, reducing the chance of overfitting. The GradientBoostingRegressor algorithm is known for its ability to handle complex relationships between features and the target variable, as well as its robustness to outliers. It can be effective in a wide range of regression tasks and often achieves high predictive accuracy. When using the GradientBoostingRegressor algorithm, it is important to preprocess your data, handle missing values, and perform feature scaling if necessary. Additionally, hyperparameter tuning and cross-validation can be used to optimize the performance of the model.

In [119…

```
from sklearn.ensemble import GradientBoostingRegressor
```

```
model3=GradientBoostingRegressor()
model3.fit(x_train,y_train)
y_pred3=model3.predict(x_test)
```

In [120…

```
from sklearn.metrics import r2_score,mean_absolute_error,mean_squared_error
mse=mean_squared_error(y_test,y_pred3)
mae=mean_absolute_error(y_test,y_pred3)
rmse=mean_squared_error(y_test,y_pred3,squared=False)
r2=r2_score(y_test,y_pred3)
print("MSE:",mse)
print("MAE:",mae)
print("RMSE:",rmse)
print("R2SCORE",r2)
```

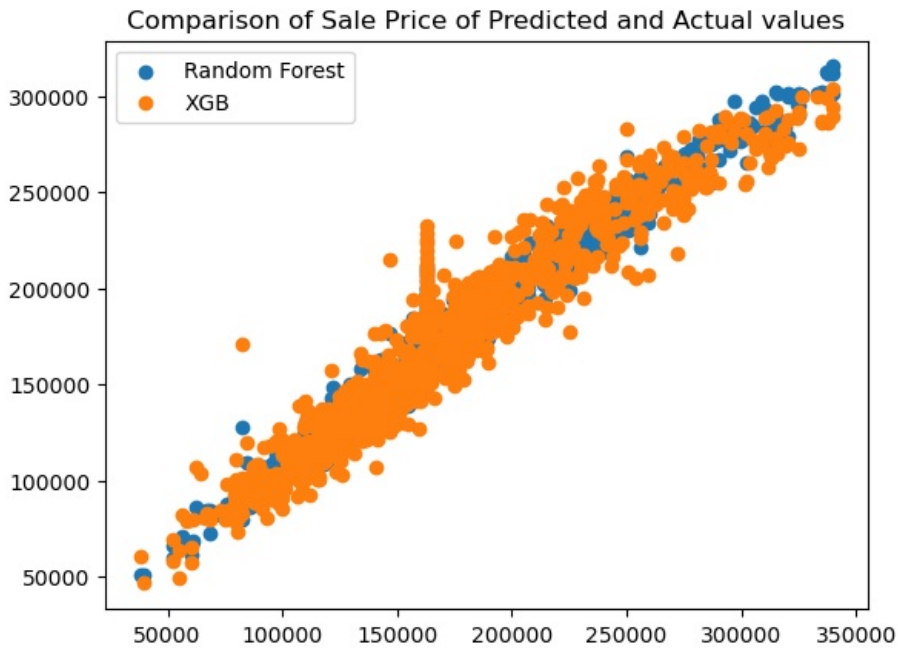
```
MSE: 933801953.768536
MAE: 20490.16143483821
RMSE: 30558.173272768385
R2SCORE 0.7179970456071212
```

In [121…

```
plt.figure()
plt.title('Comparison of Sale Price of Predicted and Actual values')
plt.scatter(y_train,model2.predict(x_train),label='Random Forest')
plt.scatter(y_train,model3.predict(x_train),label='XGB')
plt.legend()
```

Out[121]:

```
<matplotlib.legend.Legend at 0x225016a8af0>
```



XGBRegressor

--->XGBRegressor is a machine learning algorithm that stands for Extreme Gradient Boosting Regressor. It is an implementation of the gradient boosting framework and is based on the gradient boosting algorithm. XGBRegressor is specifically designed for regression tasks, where the goal is to predict a continuous numerical value. Here's an explanation of how XGBRegressor works: 1)Gradient Boosting Framework: XGBRegressor is built on the gradient boosting framework, similar to other gradient boosting algorithms. It combines multiple weak prediction models, typically decision trees, to create a powerful predictive model. It follows a sequential model-building approach. 2)Ensemble of Weak Models: XGBRegressor starts with an initial weak model, which is usually a shallow decision tree. This weak model makes predictions, but its accuracy is relatively low. 3)Sequential Model Building: XGBRegressor builds subsequent weak models in a sequential manner. Each new model is trained to correct the mistakes made by the previous models. The algorithm focuses on predicting the residuals or errors of the previous models. 4)Gradient Descent Optimization: XGBRegressor minimizes a loss function by iteratively optimizing the model's parameters using gradient descent. In each iteration, it calculates the gradient of the loss function with respect to the predictions of the previous models. It then adjusts the predictions of the current model in the direction that minimizes the loss. 5)Regularization: XGBRegressor employs regularization techniques to prevent overfitting. It includes parameters like max_depth to control the depth of individual trees, learning_rate to control the contribution of each tree, and subsample to control the fraction of samples used for training each tree. Regularization helps in improving the generalization ability of the model and prevents it from memorizing the training data. 6)Feature Importance: XGBRegressor provides a measure of feature importance, which indicates the relative importance of each feature in making predictions. This information can be useful for feature selection and understanding the impact of different features on the target variable. 7)Hyperparameter Tuning: XGBRegressor has various hyperparameters that can be tuned to control the behavior of the algorithm and improve its performance. Some important hyperparameters include the number of weak models (controlled by n_estimators), the maximum depth of trees (controlled by max_depth), and the learning rate (controlled by learning_rate). XGBRegressor is known for its efficiency, scalability, and high performance. It handles large datasets well and can capture complex relationships between features and the target variable. It often achieves state-of-the-art results in various regression tasks. When using XGBRegressor, it is important to preprocess the data, handle missing values, and perform feature scaling if necessary. Additionally, hyperparameter tuning and cross-validation can be employed to optimize the model's performance.

In [122…

```
from xgboost import XGBRegressor
model4=XGBRegressor(learning_rate=0.03,n_estimators=200,objective='reg:squarederror')
model4.fit(x_train,y_train)
y_pred4=model4.predict(x_test)
```

Model Evaluation matrix

In [123…

```
mse=mean_squared_error(y_test,y_pred4)
mae=mean_absolute_error(y_test,y_pred4)
rmse=mean_squared_error(y_test,y_pred4,squared=False)
r2=r2_score(y_test,y_pred4)
print("MSE:",mse)
print("MAE:",mae)
print("RMSE:",rmse)
print("R2SCORE",r2)
```

```
MSE: 806346639.0031004
MAE: 19050.10451626712
RMSE: 28396.243395968777
R2SCORE 0.75648783604922
```

Hyperparameter Tuning

GridSearchCV

--->GridSearchCV is a method provided by the scikit-learn library in Python for hyperparameter tuning. It is used to systematically search for the best combination of hyperparameters for a given machine learning algorithm. Here's an explanation of how GridSearchCV works: 1)Define the Model and Hyperparameters: First, you need to specify the machine learning model you want to use and define the hyperparameters you want to tune. Hyperparameters are the settings or configurations of the model that are not learned from the data but are set before the learning process. 2)Define the Search Space: For each hyperparameter, you define a set of possible values or a range of values that you want to try. These values represent different configurations of the hyperparameters. 3)Cross-Validation: GridSearchCV uses cross-validation to evaluate the performance of each combination of hyperparameters. It splits the training data into multiple subsets (folds) and performs training and evaluation on different combinations of the training and validation sets. This helps in estimating the performance of the model on unseen data and reduces the risk of overfitting. 4)Search for the Best Hyperparameters: GridSearchCV exhaustively searches through all possible combinations of hyperparameters and evaluates the model's performance using cross-validation. It trains and evaluates the model for each combination and keeps track of the performance metrics, such as accuracy or mean squared error. 5)Select the Best Model: Once all combinations have been evaluated, GridSearchCV selects the combination of hyperparameters that yielded the best performance metric. This combination represents the optimal configuration for the model based on the search space provided. 6)Retrain with Best Hyperparameters: After selecting the best combination of hyperparameters, GridSearchCV retrains the model using the entire training dataset and the optimal hyperparameters. This ensures that the final model is trained on the maximum amount of data and is ready for deployment. GridSearchCV simplifies the process of hyperparameter tuning by automating the search and evaluation of different hyperparameter combinations. It saves time and effort by providing an organized and systematic approach to find the best hyperparameters for a given model. However, it's important to note that GridSearchCV can be computationally expensive, especially if the search space is large or the dataset is large. In such cases, alternatives like RandomizedSearchCV can be used, which perform a random search over a subset of the search space, providing a good balance between exploration and computational efficiency.

In [124…

```
from sklearn.model_selection import GridSearchCV
model = XGBRegressor()

n_estimators   = [100, 200, 500]
learning_rates = [0.03,0.1,0.3]
objectives     = ['reg:squarederror']

# Define the grid of hyperparameters to search
hyperparameter_grid = {
    'n_estimators' : n_estimators,
    'learning_rate':learning_rates,
    'objective' : objectives
    }

grid_cv = GridSearchCV(estimator = model,
            param_grid = hyperparameter_grid,
            scoring = 'neg_mean_absolute_error',
            return_train_score = True)

grid_cv.fit(x_train,y_train)
```

Out[124]:

```
GridSearchCV(estimator=XGBRegressor(base_score=None, booster=None,
                                    callbacks=None, colsample_bylevel=None,
                                    colsample_bynode=None,
                                    colsample_bytree=None,
                                    early_stopping_rounds=None,
                                    enable_categorical=False, eval_metric=None,
                                    feature_types=None, gamma=None, gpu_id=None,
                                    grow_policy=None, importance_type=None,
                                    interaction_constraints=None,
                                    learning_rate=None, max_bi...
                                    max_cat_to_onehot=None, max_delta_step=None,
                                    max_depth=None, max_leaves=None,
                                    min_child_weight=None, missing=nan,
                                    monotone_constraints=None, n_estimators=100,
                                    n_jobs=None, num_parallel_tree=None,
                                    predictor=None, random_state=None, ...),
             param_grid={'learning_rate': [0.03, 0.1, 0.3],
                         'n_estimators': [100, 200, 500],
                         'objective': ['reg:squarederror']},
             return_train_score=True, scoring='neg_mean_absolute_error')
```

In [125…

```
grid_cv.best_score_
```

Out[125]:

```
-18743.38766053082
```

In [126…

```
grid_cv.best_estimator
```

In [126…
```
grid_cv.best_estimator_
```

Out[126]:
```
XGBRegressor(base_score=None, booster=None, callbacks=None,
             colsample_bylevel=None, colsample_bynode=None,
             colsample_bytree=None, early_stopping_rounds=None,
             enable_categorical=False, eval_metric=None, feature_types=None,
             gamma=None, gpu_id=None, grow_policy=None, importance_type=None,
             interaction_constraints=None, learning_rate=0.03, max_bin=None,
             max_cat_threshold=None, max_cat_to_onehot=None,
             max_delta_step=None, max_depth=None, max_leaves=None,
             min_child_weight=None, missing=nan, monotone_constraints=None,
             n_estimators=500, n_jobs=None, num_parallel_tree=None,
             predictor=None, random_state=None, ...)
```

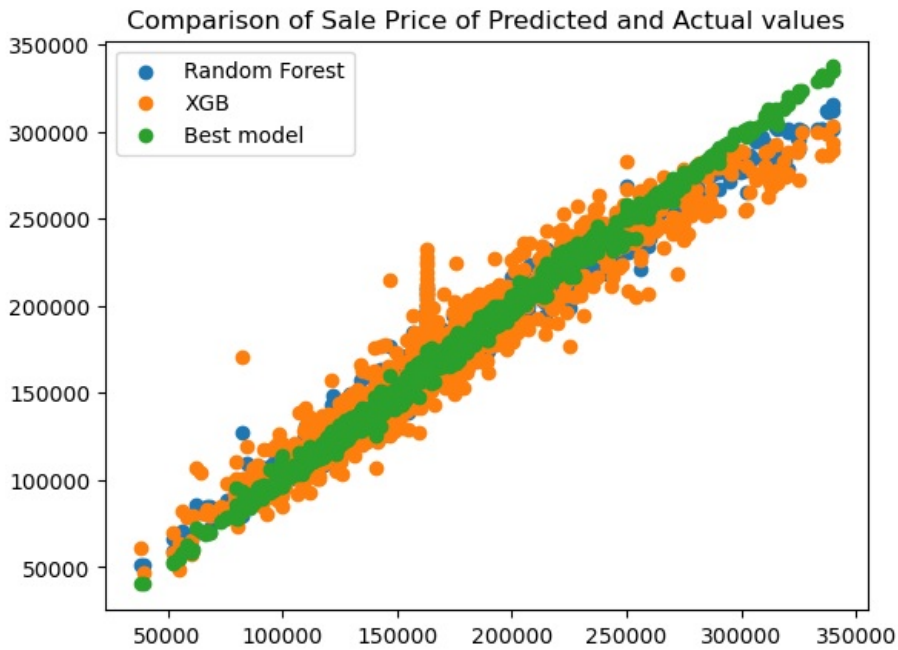
In [127…
```
model5= grid_cv.best_estimator_
y_pred5 = model5.predict(x_test)
```

In [128…
```
mse=mean_squared_error(y_test,y_pred5)
mae=mean_absolute_error(y_test,y_pred5)
rmse=mean_squared_error(y_test,y_pred5,squared=False)
r2=r2_score(y_test,y_pred5)
print("MSE:",mse)
print("MAE:",mae)
print("RMSE:",rmse)
print("R2SCORE",r2)
```

```
MSE: 802831099.7806721
MAE: 18857.359760273972
RMSE: 28334.27429423016
R2SCORE 0.7575495091834514
```

In [129…
```
plt.figure()
plt.title('Comparison of Sale Price of Predicted and Actual values')
plt.scatter(y_train,model2.predict(x_train),label='Random Forest')
plt.scatter(y_train,model3.predict(x_train),label='XGB')
plt.scatter(y_train,model5.predict(x_train),label='Best model')
plt.legend()
```

Out[129]:
```
<matplotlib.legend.Legend at 0x2250156bd60>
```



Principal Component Analysis

- PCA (Principal Component Analysis) is a dimensionality reduction technique widely used in machine learning and data analysis. It is used to transform high-dimensional data into a lower-dimensional space while preserving as much of the original data's variance as possible. This reduction in dimensionality can help simplify the data and improve the efficiency of machine learning algorithms.
- The main idea behind PCA is to find new orthogonal axes, known as principal components, along which the data varies the most. The first principal component captures the most significant variance in the data, and each subsequent principal component captures the remaining variance in order of importance.

Here's a step-by-step explanation of PCA in machine learning:

Standardization:

- Before applying PCA, it is essential to standardize the features to have zero mean and unit variance. This step ensures that all

features have the same scale, preventing features with larger magnitudes from dominating the PCA process.

Covariance Matrix:

- PCA finds the principal components by analyzing the covariance matrix of the standardized data. The covariance matrix represents the relationships and correlations between different features.

Eigenvalue Decomposition:

- The covariance matrix is then decomposed into its eigenvalues and eigenvectors. The eigenvectors are the principal components, and the corresponding eigenvalues represent the amount of variance explained by each principal component.

Selecting Principal Components:

- To reduce dimensionality, we sort the eigenvalues in descending order and select the top k eigenvectors (principal components), where k is the desired number of dimensions for the reduced dataset. Choosing k is a crucial step as it determines how much variance will be retained in the reduced data.

Projecting Data:

- The selected principal components are used to project the original data onto the lower-dimensional subspace. Each data point is transformed into a new set of k-dimensional coordinates, representing its representation in the reduced space.
- PCA is commonly used in various machine learning applications, such as data visualization, feature extraction, and noise reduction. By reducing the number of dimensions, PCA can speed up computation and improve the performance of machine learning algorithms, especially in cases where the original dataset has a large number of features or suffers from multicollinearity.
- It's worth noting that PCA is sensitive to the scale of the features, and it may not always be suitable for all types of data. Additionally, the interpretability of the principal components might be challenging in certain scenarios, but it remains a powerful tool for dimensionality reduction and data compression.

In [130…

```
from sklearn.preprocessing import StandardScaler
scaler=StandardScaler()
scaled_data=scaler.fit_transform(data3)
```

In [131…

```
df=pd.DataFrame(data=scaled_data, columns= data3.columns)
```

In [132…

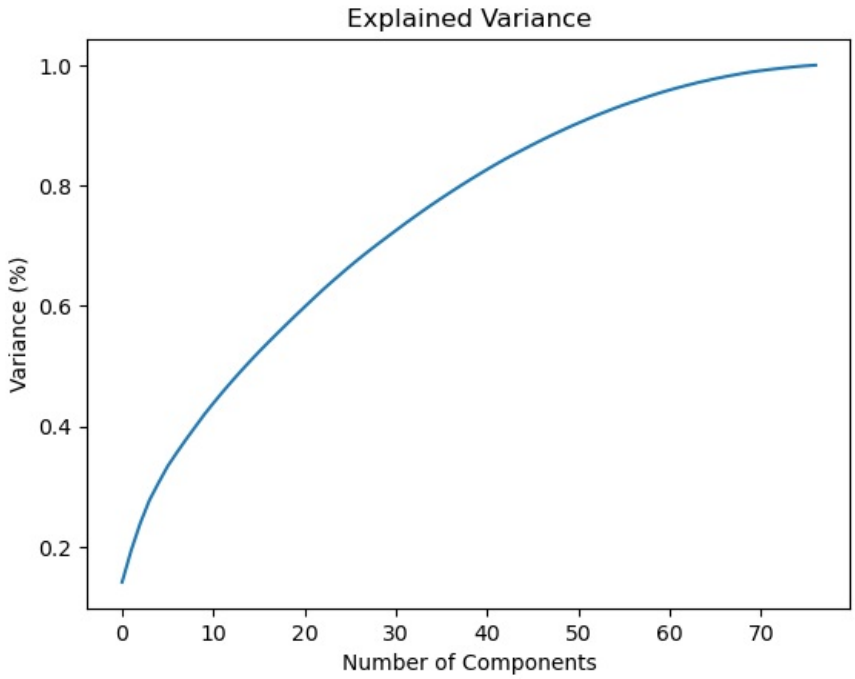
```
df.head()
```

Out[132]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborh
0	-1.730865	0.412653	-0.045532	-0.274093	-0.266799	0.064238	0.750731	0.314667	-0.02618	0.604670	-0.225716	-1.206
1	-1.728492	-1.008276	-0.045532	0.809612	0.101854	0.064238	0.750731	0.314667	-0.02618	-0.628316	-0.225716	1.954
2	-1.726120	0.412653	-0.045532	-0.057352	0.630791	0.064238	-1.378933	0.314667	-0.02618	0.604670	-0.225716	-1.206
3	-1.723747	0.767886	-0.045532	-0.635329	0.085826	0.064238	-1.378933	0.314667	-0.02618	-1.861302	-0.225716	-1.039
4	-1.721374	0.412653	-0.045532	1.098601	1.595701	0.064238	-1.378933	0.314667	-0.02618	-0.628316	-0.225716	0.457

In [133…

```
from sklearn.decomposition import PCA
pca = PCA()
principalComponents = pca.fit_transform(df)
plt.figure()
plt.plot(np.cumsum(pca.explained_variance_ratio_))
plt.xlabel('Number of Components')
plt.ylabel('Variance (%)') #for each component
plt.title('Explained Variance')
plt.show()
```



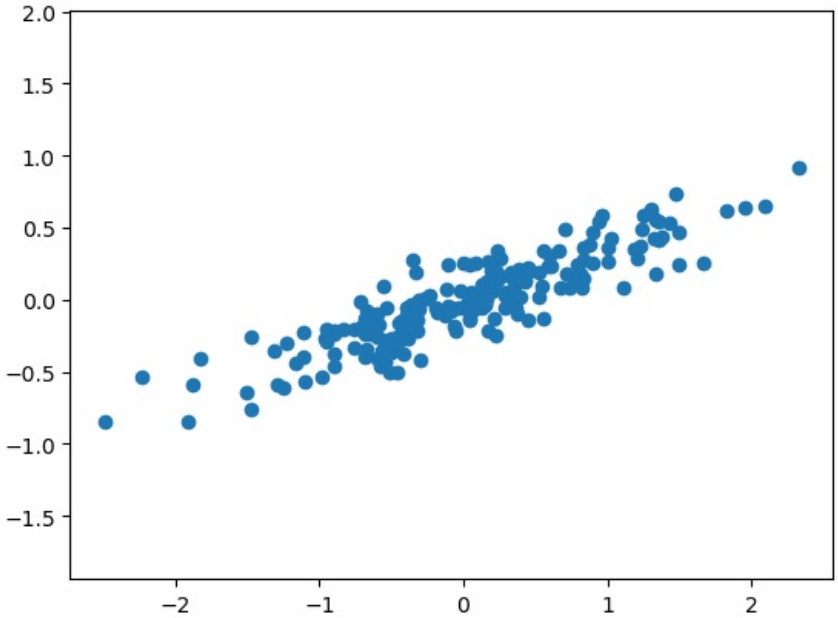
In [134…
```
pca = PCA(n_components=4)
new_data = pca.fit_transform(data)
# This will be the new data fed to the algorithm.
pca= pd.DataFrame(data= new_data
              , columns = ['principal component 1', 'principal component 2','principal component 3','principal c
```

In [135…
```
pca.head()
```

Out[135]:

	principal component 1	principal component 2	principal component 3	principal component 4
0	38565.268958	-25.324336	-725.587119	-57.382739
1	11565.402410	-28.686358	-730.669150	-35.558848
2	53565.260926	-23.725070	-722.241042	-57.785923
3	-29934.765638	-32.033665	-728.454051	-49.658221
4	80065.361974	-21.472335	-720.411768	-47.552973

In [136…
```
np.random.seed(1)
X = np.dot(np.random.random(size=(2, 2)), np.random.normal(size=(2, 200))).T
plt.plot(X[:, 0], X[:, 1], 'o')
plt.axis('equal');
```



In [137…
```
from sklearn.model_selection import train_test_split
x_train1,x_test1,y_train1,y_test1=train_test_split(pca,y,test_size=0.2)
```

In [138…
```
from sklearn.linear_model import LinearRegression
model6=LinearRegression()
model6.fit(x_train1,y_train1)
y_pred6=model6.predict(x_test1)
```

In [139…

```
mse=mean_squared_error(y_test1,y_pred6)
mae=mean_absolute_error(y_test1,y_pred6)
rmse=mean_squared_error(y_test1,y_pred6,squared=False)
r2=r2_score(y_test1,y_pred6)
print("MSE:",mse)
print("MAE:",mae)
print("RMSE:",rmse)
print("R2SCORE",r2)
```

```
MSE: 0.0025318312003594448
MAE: 0.04081133745755436
RMSE: 0.050317305177835635
R2SCORE 0.9999999999992564
```

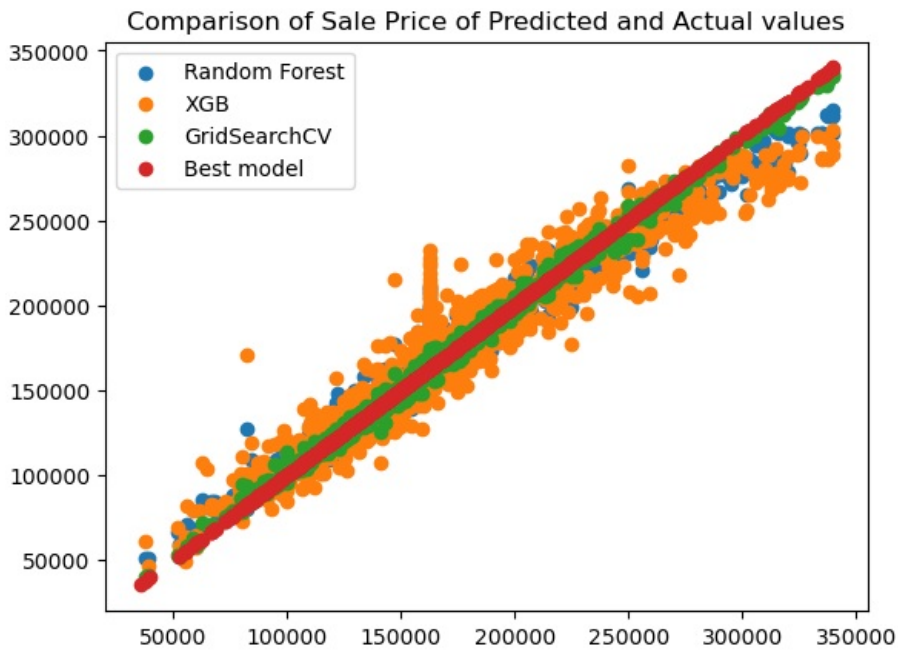
In [140…

```
plt.figure()
plt.title('Comparison of Sale Price of Predicted and Actual values')
plt.scatter(y_train,model2.predict(x_train),label='Random Forest')
plt.scatter(y_train,model3.predict(x_train),label='XGB')
plt.scatter(y_train,model5.predict(x_train),label='GridSearchCV')
plt.scatter(y_train1,model6.predict(x_train1),label='Best model')

plt.legend()
```

Out[140]:

```
<matplotlib.legend.Legend at 0x22500f524c0>
```



Insights

- After applying PCA (Principal Component Analysis) to reduce the dimensionality of the data, you can use the transformed features to train machine learning models and predict the target variable. To evaluate the performance of these predictions, you can calculate the R-squared (R2) score, which measures how well the model fits the data compared to a baseline model.
- Here's a step-by-step guide to using PCA for dimensionality reduction and predicting the R2 score:

Preprocess the Data:

- Standardize the features to have zero mean and unit variance, as PCA is sensitive to the scale of the features.
- Split the dataset into training and testing sets to evaluate the model's performance on unseen data.

Apply PCA for Dimensionality Reduction:

- Use PCA to transform the training data into a lower-dimensional space.
- Choose the number of principal components (k) based on the desired level of dimensionality reduction or by analyzing the explained variance ratio. Typically, you'd want to retain enough components to explain a high percentage of the total variance (e.g., 95% or 99%).

Train a Machine Learning Model:

- Select a suitable regression algorithm (e.g., Linear Regression, Random Forest Regression, etc.).
- Fit the model to the transformed training data.

Predict the Target Variable:

- Use the trained model to make predictions on the transformed testing data. **Calculate R2 Score:**

- Compare the predicted values to the true target values from the testing set.
- Calculate the R2 score to evaluate the model's performance. The R2 score measures the proportion of the variance in the target variable that is predictable from the independent variables (transformed principal components in this case).

Repeat the Process:

- You may want to repeat the above steps with different numbers of principal components (k) and evaluate the R2 score for each configuration.
- The goal is to find the number of principal components that result in the highest R2 score, indicating the best trade-off between dimensionality reduction and predictive performance.

Select the Best R2 Score:

- Choose the PCA configuration that yields the highest R2 score as the best model for your specific problem.
- Remember that the best R2 score depends on the dataset, the model, and the particular use case. It's essential to experiment with different hyperparameters, model algorithms, and PCA configurations to find the most optimal solution for your specific prediction task. Additionally, consider using cross-validation techniques to obtain a more robust estimate of the model's performance.

After PCA technique,we applying the LinearRegression we find out the best r2score

Deployment

In [141…
```
import warnings
warnings.filterwarnings("ignore")
```

In [142…
```
import pickle as pkl
pkl.dump(model6,open("HousePricePred","wb"))
read=pkl.load(open("HousePricePred","rb"))
```

In [143…
```
independent_input_data=[80065.361974,-21.472335,-720.411768,-47.552973]
e=read.predict([independent_input_data])[0]
```

In [144…
```
e
```

Out[144]:
```
250000.03645207253
```

In [145…
```
pca.shape
```

Out[145]:
```
(1460, 4)
```

In [146…
```
y.shape
```

Out[146]:
```
(1460,)
```

Conclusion

- In conclusion, house price prediction is an important problem in the field of machine learning and real estate. By leveraging various machine learning algorithms and techniques, we can develop models that accurately estimate house prices based on relevant features and historical data.
- During the process of house price prediction, several key steps should be followed:

Data Collection:

- Gather a comprehensive dataset containing information about houses, including features such as location, size, number of rooms, amenities, and historical sales data.

Data Preprocessing:

- Clean the dataset by handling missing values, outliers, and transforming categorical variables into numerical representations. Additionally, normalize or scale numerical features to ensure fairness in model training.

Feature Engineering:

- Select and engineer relevant features that have a significant impact on house prices. This could involve techniques such as feature selection, dimensionality reduction, and creating new meaningful features from existing ones.

Model Selection:

- Experiment with various regression models, such as linear regression, decision trees, random forests, support vector machines

(SVM), or neural networks. Evaluate and compare their performance using appropriate metrics and validation techniques, such as train-test splits or cross-validation.

Hyperparameter Tuning:

- Fine-tune the chosen model by searching for the optimal combination of hyperparameters. This can be done through techniques like grid search or randomized search, aiming to improve the model's performance and generalization ability.

Model Evaluation:

- Assess the performance of the final model using appropriate evaluation metrics, such as mean squared error (MSE), root mean squared error (RMSE), mean absolute error (MAE), or R-squared. Compare the model's predictions against actual house prices and analyze any discrepancies or limitations.

Deployment and Monitoring:

- Once the model is trained and evaluated, deploy it to make predictions on new, unseen data. Continuously monitor and update the model as new data becomes available or market conditions change.
- It's important to note that house price prediction is a complex task influenced by various factors, including market trends, economic conditions, and location-specific dynamics. Therefore, achieving high accuracy in predicting house prices may not always be feasible, but by following best practices in data preprocessing, feature engineering, and model selection, we can build reliable models that provide valuable insights for buyers, sellers, and real estate professionals.

In [ ]:

Loading [MathJax]/extensions/Safe.js