Data Cleaning

Missing value imputation by Mean, Median

```
#Import libraries
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Load Dataset
dataset_path = r"https://drive.google.com/uc?
export=download&id=1BiGZSedP4BIIuTbVTBodOhVgFImaz08c"
df = pd.read_csv(dataset_path)

df.shape
```

```
(1460, 81)
```

```
pd.set_option('display.max_columns',None)
pd.set_option('display.max_rows',None)

df.head(6)
```

```
   Id  MSSubClass MSZoning  LotFrontage  LotArea Street Alley LotShape
\
0   1          60       RL         65.0     8450   Pave   NaN      Reg

1   2          20       RL         80.0     9600   Pave   NaN      Reg

2   3          60       RL         68.0    11250   Pave   NaN      IR1

3   4          70       RL         60.0     9550   Pave   NaN      IR1

4   5          60       RL         84.0    14260   Pave   NaN      IR1

5   6          50       RL         85.0    14115   Pave   NaN      IR1


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

  Condition2 BldgType HouseStyle  OverallQual  OverallCond  YearBuilt
\
```

```
0       Norm     1Fam     2Story            7            5       2003

1       Norm     1Fam     1Story            6            8       1976

2       Norm     1Fam     2Story            7            5       2001

3       Norm     1Fam     2Story            7            5       1915

4       Norm     1Fam     2Story            8            5       2000

5       Norm     1Fam     1.5Fin            5            5       1993


   YearRemodAdd RoofStyle RoofMatl Exterior1st Exterior2nd MasVnrType
\
0          2003     Gable  CompShg     VinylSd     VinylSd    BrkFace

1          1976     Gable  CompShg     MetalSd     MetalSd       None

2          2002     Gable  CompShg     VinylSd     VinylSd    BrkFace

3          1970     Gable  CompShg     Wd Sdng     Wd Shng       None

4          2000     Gable  CompShg     VinylSd     VinylSd    BrkFace

5          1995     Gable  CompShg     VinylSd     VinylSd       None


   MasVnrArea ExterQual ExterCond Foundation BsmtQual BsmtCond
BsmtExposure  \
0       196.0        Gd        TA      PConc       Gd       TA
No
1         0.0        TA        TA     CBlock       Gd       TA
Gd
2       162.0        Gd        TA      PConc       Gd       TA
Mn
3         0.0        TA        TA     BrkTil       TA       Gd
No
4       350.0        Gd        TA      PConc       Gd       TA
Av
5         0.0        TA        TA       Wood       Gd       TA
No

  BsmtFinType1  BsmtFinSF1 BsmtFinType2  BsmtFinSF2  BsmtUnfSF
TotalBsmtSF  \
0          GLQ         706          Unf           0        150
856
1          ALQ         978          Unf           0        284
1262
```

```
2          GLQ         486          Unf           0        434
920
3          ALQ         216          Unf           0        540
756
4          GLQ         655          Unf           0        490
1145
5          GLQ         732          Unf           0         64
796

  Heating HeatingQC CentralAir Electrical  1stFlrSF  2ndFlrSF
LowQualFinSF  \
0    GasA        Ex          Y      SBrkr       856       854
0
1    GasA        Ex          Y      SBrkr      1262         0
0
2    GasA        Ex          Y      SBrkr       920       866
0
3    GasA        Gd          Y      SBrkr       961       756
0
4    GasA        Ex          Y      SBrkr      1145      1053
0
5    GasA        Ex          Y      SBrkr       796       566
0

   GrLivArea  BsmtFullBath  BsmtHalfBath  FullBath  HalfBath
BedroomAbvGr  \
0       1710             1             0         2         1
3
1       1262             0             1         2         0
3
2       1786             1             0         2         1
3
3       1717             1             0         1         0
3
4       2198             1             0         2         1
4
5       1362             1             0         1         1
1

   KitchenAbvGr KitchenQual  TotRmsAbvGrd Functional  Fireplaces
FireplaceQu  \
0             1          Gd             8        Typ           0
NaN
1             1          TA             6        Typ           1
TA
2             1          Gd             6        Typ           1
TA
3             1          Gd             7        Typ           1
Gd
4             1          Gd             9        Typ           1
```

```
TA
5             1          TA             5        Typ           0
NaN

  GarageType  GarageYrBlt GarageFinish  GarageCars  GarageArea
GarageQual  \
0     Attchd       2003.0          RFn           2         548
TA
1     Attchd       1976.0          RFn           2         460
TA
2     Attchd       2001.0          RFn           2         608
TA
3     Detchd       1998.0          Unf           3         642
TA
4     Attchd       2000.0          RFn           3         836
TA
5     Attchd       1993.0          Unf           2         480
TA

  GarageCond PavedDrive  WoodDeckSF  OpenPorchSF  EnclosedPorch
3SsnPorch  \
0         TA          Y           0           61              0
0
1         TA          Y         298            0              0
0
2         TA          Y           0           42              0
0
3         TA          Y           0           35            272
0
4         TA          Y         192           84              0
0
5         TA          Y          40           30              0
320

   ScreenPorch  PoolArea PoolQC  Fence MiscFeature  MiscVal  MoSold
YrSold  \
0            0         0    NaN    NaN         NaN        0       2
2008
1            0         0    NaN    NaN         NaN        0       5
2007
2            0         0    NaN    NaN         NaN        0       9
2008
3            0         0    NaN    NaN         NaN        0       2
2006
4            0         0    NaN    NaN         NaN        0      12
2008
5            0         0    NaN  MnPrv        Shed      700      10
2009

  SaleType SaleCondition  SalePrice
```

```
0       WD        Normal     208500
1       WD        Normal     181500
2       WD        Normal     223500
3       WD       Abnorml     140000
4       WD        Normal     250000
5       WD        Normal     143000

df.tail(6)

        Id  MSSubClass MSZoning  LotFrontage  LotArea Street Alley
LotShape  \
1454  1455          20       FV         62.0     7500   Pave  Pave
Reg
1455  1456          60       RL         62.0     7917   Pave   NaN
Reg
1456  1457          20       RL         85.0    13175   Pave   NaN
Reg
1457  1458          70       RL         66.0     9042   Pave   NaN
Reg
1458  1459          20       RL         68.0     9717   Pave   NaN
Reg
1459  1460          20       RL         75.0     9937   Pave   NaN
Reg

     LandContour Utilities LotConfig LandSlope Neighborhood Condition1
\
1454         Lvl    AllPub    Inside       Gtl      Somerst       Norm

1455         Lvl    AllPub    Inside       Gtl      Gilbert       Norm

1456         Lvl    AllPub    Inside       Gtl       NWAmes       Norm

1457         Lvl    AllPub    Inside       Gtl      Crawfor       Norm

1458         Lvl    AllPub    Inside       Gtl        NAmes       Norm

1459         Lvl    AllPub    Inside       Gtl      Edwards       Norm


     Condition2 BldgType HouseStyle  OverallQual  OverallCond
YearBuilt  \
1454       Norm     1Fam     1Story            7            5
2004
1455       Norm     1Fam     2Story            6            5
1999
1456       Norm     1Fam     1Story            6            6
1978
1457       Norm     1Fam     2Story            7            9
1941
1458       Norm     1Fam     1Story            5            6
```

```
1950
1459       Norm     1Fam     1Story            5           6
1965

      YearRemodAdd RoofStyle RoofMatl Exterior1st Exterior2nd
MasVnrType  \
1454          2005     Gable  CompShg     VinylSd     VinylSd
None
1455          2000     Gable  CompShg     VinylSd     VinylSd
None
1456          1988     Gable  CompShg     Plywood     Plywood
Stone
1457          2006     Gable  CompShg     CemntBd     CmentBd
None
1458          1996       Hip  CompShg     MetalSd     MetalSd
None
1459          1965     Gable  CompShg     HdBoard     HdBoard
None

      MasVnrArea ExterQual ExterCond Foundation BsmtQual BsmtCond  \
1454         0.0        Gd        TA      PConc       Gd       TA
1455         0.0        TA        TA      PConc       Gd       TA
1456       119.0        TA        TA     CBlock       Gd       TA
1457         0.0        Ex        Gd      Stone       TA       Gd
1458         0.0        TA        TA     CBlock       TA       TA
1459         0.0        Gd        TA     CBlock       TA       TA

     BsmtExposure BsmtFinType1  BsmtFinSF1 BsmtFinType2  BsmtFinSF2  \
1454           No          GLQ         410          Unf           0
1455           No          Unf           0          Unf           0
1456           No          ALQ         790          Rec         163
1457           No          GLQ         275          Unf           0
1458           Mn          GLQ          49          Rec        1029
1459           No          BLQ         830          LwQ         290

      BsmtUnfSF  TotalBsmtSF Heating HeatingQC CentralAir
Electrical  \
1454        811         1221    GasA        Ex          Y      SBrkr

1455        953          953    GasA        Ex          Y      SBrkr

1456        589         1542    GasA        TA          Y      SBrkr

1457        877         1152    GasA        Ex          Y      SBrkr

1458          0         1078    GasA        Gd          Y      FuseA

1459        136         1256    GasA        Gd          Y      SBrkr
```

```
      1stFlrSF  2ndFlrSF  LowQualFinSF  GrLivArea  BsmtFullBath
BsmtHalfBath  \
1454      1221         0             0       1221             1
0
1455       953       694             0       1647             0
0
1456      2073         0             0       2073             1
0
1457      1188      1152             0       2340             0
0
1458      1078         0             0       1078             1
0
1459      1256         0             0       1256             1
0

      FullBath  HalfBath  BedroomAbvGr  KitchenAbvGr KitchenQual  \
1454         2         0             2             1          Gd
1455         2         1             3             1          TA
1456         2         0             3             1          TA
1457         2         0             4             1          Gd
1458         1         0             2             1          Gd
1459         1         1             3             1          TA

      TotRmsAbvGrd Functional  Fireplaces FireplaceQu GarageType
GarageYrBlt  \
1454             6        Typ           0         NaN     Attchd
2004.0
1455             7        Typ           1          TA     Attchd
1999.0
1456             7       Min1           2          TA     Attchd
1978.0
1457             9        Typ           2          Gd     Attchd
1941.0
1458             5        Typ           0         NaN     Attchd
1950.0
1459             6        Typ           0         NaN     Attchd
1965.0

     GarageFinish  GarageCars  GarageArea GarageQual GarageCond
PavedDrive  \
1454          RFn           2         400         TA         TA
Y
1455          RFn           2         460         TA         TA
Y
1456          Unf           2         500         TA         TA
Y
1457          RFn           1         252         TA         TA
Y
1458          Unf           1         240         TA         TA
```

```
Y
1459          Fin           1         276         TA         TA
Y

      WoodDeckSF  OpenPorchSF  EnclosedPorch  3SsnPorch
ScreenPorch  \
1454           0          113              0          0            0

1455           0           40              0          0            0

1456         349            0              0          0            0

1457           0           60              0          0            0

1458         366            0            112          0            0

1459         736           68              0          0            0


      PoolArea PoolQC  Fence MiscFeature  MiscVal  MoSold  YrSold
SaleType  \
1454         0    NaN    NaN         NaN        0      10    2009
WD
1455         0    NaN    NaN         NaN        0       8    2007
WD
1456         0    NaN  MnPrv         NaN        0       2    2010
WD
1457         0    NaN  GdPrv        Shed     2500       5    2010
WD
1458         0    NaN    NaN         NaN        0       4    2010
WD
1459         0    NaN    NaN         NaN        0       6    2008
WD

     SaleCondition  SalePrice
1454        Normal     185000
1455        Normal     175000
1456        Normal     210000
1457        Normal     266500
1458        Normal     142125
1459        Normal     147500

df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1460 entries, 0 to 1459
Data columns (total 81 columns):
Id               1460 non-null int64
MSSubClass       1460 non-null int64
MSZoning         1460 non-null object
```

```
LotFrontage      1201 non-null float64
LotArea          1460 non-null int64
Street           1460 non-null object
Alley            91 non-null object
LotShape         1460 non-null object
LandContour      1460 non-null object
Utilities        1460 non-null object
LotConfig        1460 non-null object
LandSlope        1460 non-null object
Neighborhood     1460 non-null object
Condition1       1460 non-null object
Condition2       1460 non-null object
BldgType         1460 non-null object
HouseStyle       1460 non-null object
OverallQual      1460 non-null int64
OverallCond      1460 non-null int64
YearBuilt        1460 non-null int64
YearRemodAdd     1460 non-null int64
RoofStyle        1460 non-null object
RoofMatl         1460 non-null object
Exterior1st      1460 non-null object
Exterior2nd      1460 non-null object
MasVnrType       1452 non-null object
MasVnrArea       1452 non-null float64
ExterQual        1460 non-null object
ExterCond        1460 non-null object
Foundation       1460 non-null object
BsmtQual         1423 non-null object
BsmtCond         1423 non-null object
BsmtExposure     1422 non-null object
BsmtFinType1     1423 non-null object
BsmtFinSF1       1460 non-null int64
BsmtFinType2     1422 non-null object
BsmtFinSF2       1460 non-null int64
BsmtUnfSF        1460 non-null int64
TotalBsmtSF      1460 non-null int64
Heating          1460 non-null object
HeatingQC        1460 non-null object
CentralAir       1460 non-null object
Electrical       1459 non-null object
1stFlrSF         1460 non-null int64
2ndFlrSF         1460 non-null int64
LowQualFinSF     1460 non-null int64
GrLivArea        1460 non-null int64
BsmtFullBath     1460 non-null int64
BsmtHalfBath     1460 non-null int64
FullBath         1460 non-null int64
HalfBath         1460 non-null int64
BedroomAbvGr     1460 non-null int64
KitchenAbvGr     1460 non-null int64
```

```
KitchenQual      1460 non-null object
TotRmsAbvGrd     1460 non-null int64
Functional       1460 non-null object
Fireplaces       1460 non-null int64
FireplaceQu      770 non-null object
GarageType       1379 non-null object
GarageYrBlt      1379 non-null float64
GarageFinish     1379 non-null object
GarageCars       1460 non-null int64
GarageArea       1460 non-null int64
GarageQual       1379 non-null object
GarageCond       1379 non-null object
PavedDrive       1460 non-null object
WoodDeckSF       1460 non-null int64
OpenPorchSF      1460 non-null int64
EnclosedPorch    1460 non-null int64
3SsnPorch        1460 non-null int64
ScreenPorch      1460 non-null int64
PoolArea         1460 non-null int64
PoolQC           7 non-null object
Fence            281 non-null object
MiscFeature      54 non-null object
MiscVal          1460 non-null int64
MoSold           1460 non-null int64
YrSold           1460 non-null int64
SaleType         1460 non-null object
SaleCondition    1460 non-null object
SalePrice        1460 non-null int64
dtypes: float64(3), int64(35), object(43)
memory usage: 924.0+ KB
```

```
df.isnull().sum()
```

```
Id                  0
MSSubClass          0
MSZoning            0
LotFrontage       259
LotArea             0
Street              0
Alley            1369
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
1stFlrSF            0
2ndFlrSF            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
PoolQC           1453
Fence            1179
MiscFeature      1406
MiscVal             0
MoSold              0
YrSold              0
SaleType            0
SaleCondition       0
SalePrice           0
dtype: int64
```

```
missing_value_per = df.isnull().sum()/df.shape[0] * 100
missing_value_per
```

```
Id                0.000000
MSSubClass        0.000000
MSZoning          0.000000
LotFrontage      17.739726
LotArea           0.000000
Street            0.000000
Alley            93.767123
LotShape          0.000000
LandContour       0.000000
Utilities         0.000000
LotConfig         0.000000
LandSlope         0.000000
Neighborhood      0.000000
Condition1        0.000000
Condition2        0.000000
BldgType          0.000000
HouseStyle        0.000000
OverallQual       0.000000
OverallCond       0.000000
YearBuilt         0.000000
YearRemodAdd      0.000000
RoofStyle         0.000000
RoofMatl          0.000000
Exterior1st       0.000000
Exterior2nd       0.000000
MasVnrType        0.547945
MasVnrArea        0.547945
ExterQual         0.000000
ExterCond         0.000000
Foundation        0.000000
BsmtQual          2.534247
BsmtCond          2.534247
BsmtExposure      2.602740
```

```
BsmtFinType1      2.534247
BsmtFinSF1        0.000000
BsmtFinType2      2.602740
BsmtFinSF2        0.000000
BsmtUnfSF         0.000000
TotalBsmtSF       0.000000
Heating           0.000000
HeatingQC         0.000000
CentralAir        0.000000
Electrical        0.068493
1stFlrSF          0.000000
2ndFlrSF          0.000000
LowQualFinSF      0.000000
GrLivArea         0.000000
BsmtFullBath      0.000000
BsmtHalfBath      0.000000
FullBath          0.000000
HalfBath          0.000000
BedroomAbvGr      0.000000
KitchenAbvGr      0.000000
KitchenQual       0.000000
TotRmsAbvGrd      0.000000
Functional        0.000000
Fireplaces        0.000000
FireplaceQu      47.260274
GarageType        5.547945
GarageYrBlt       5.547945
GarageFinish      5.547945
GarageCars        0.000000
GarageArea        0.000000
GarageQual        5.547945
GarageCond        5.547945
PavedDrive        0.000000
WoodDeckSF        0.000000
OpenPorchSF       0.000000
EnclosedPorch     0.000000
3SsnPorch         0.000000
ScreenPorch       0.000000
PoolArea          0.000000
PoolQC           99.520548
Fence            80.753425
MiscFeature      96.301370
MiscVal           0.000000
MoSold            0.000000
YrSold            0.000000
SaleType          0.000000
SaleCondition     0.000000
SalePrice         0.000000
dtype: float64
```

```
missing_value_clm_gre_20 = missing_value_per[missing_value_per >
20].keys()
missing_value_clm_gre_20
```

```
Index(['Alley', 'FireplaceQu', 'PoolQC', 'Fence', 'MiscFeature'],
dtype='object')
```

```
df2_drop_clm = df.drop(columns=missing_value_clm_gre_20)
df2_drop_clm.shape
```

```
(1460, 76)
```

```
df3_num=df2_drop_clm.select_dtypes(include=['int64','float64'])
df3_num.head()
```

```
   Id  MSSubClass  LotFrontage  LotArea  OverallQual  OverallCond
YearBuilt  \
0   1          60         65.0     8450            7            5
2003
1   2          20         80.0     9600            6            8
1976
2   3          60         68.0    11250            7            5
2001
3   4          70         60.0     9550            7            5
1915
4   5          60         84.0    14260            8            5
2000

   YearRemodAdd  MasVnrArea  BsmtFinSF1  BsmtFinSF2  BsmtUnfSF
TotalBsmtSF  \
0          2003       196.0         706           0        150
856
1          1976         0.0         978           0        284
1262
2          2002       162.0         486           0        434
920
3          1970         0.0         216           0        540
756
4          2000       350.0         655           0        490
1145

   1stFlrSF  2ndFlrSF  LowQualFinSF  GrLivArea  BsmtFullBath
BsmtHalfBath  \
0       856       854             0       1710             1
0
1      1262         0             0       1262             0
1
2       920       866             0       1786             1
0
3       961       756             0       1717             1
```

```
0
4      1145      1053             0       2198             1
0

   FullBath  HalfBath  BedroomAbvGr  KitchenAbvGr  TotRmsAbvGrd
Fireplaces  \
0         2         1             3             1             8
0
1         2         0             3             1             6
1
2         2         1             3             1             6
1
3         1         0             3             1             7
1
4         2         1             4             1             9
1

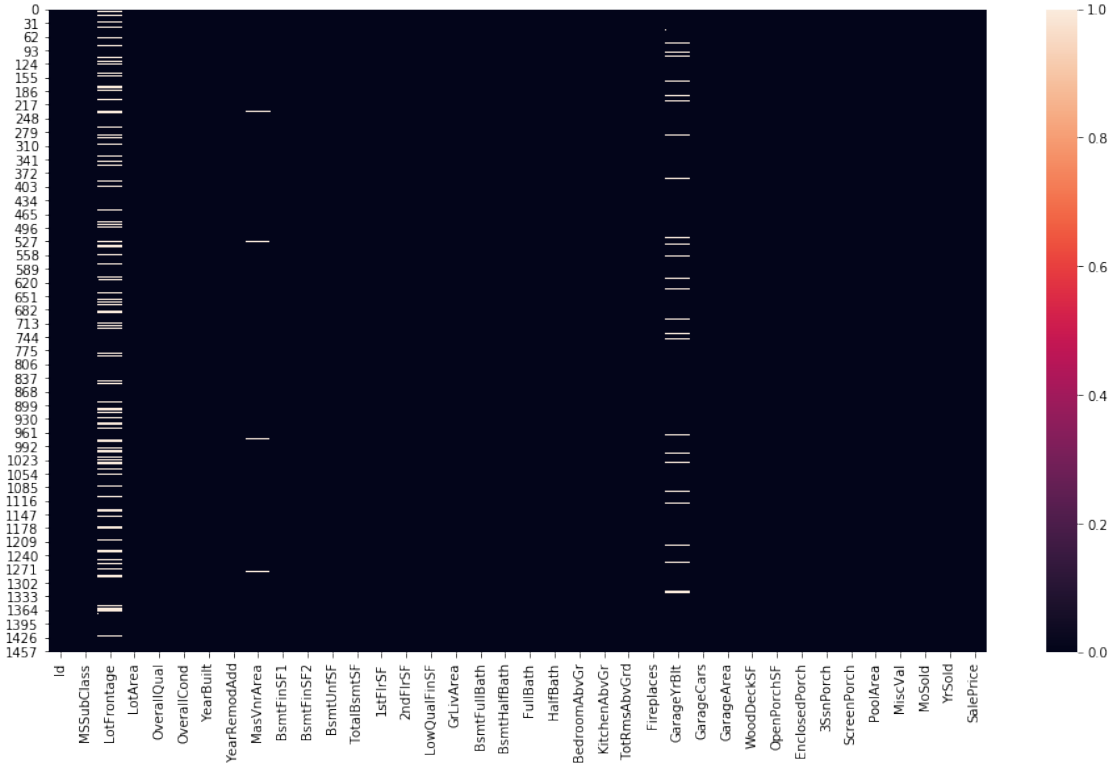
   GarageYrBlt  GarageCars  GarageArea  WoodDeckSF  OpenPorchSF  \
0       2003.0           2         548           0           61
1       1976.0           2         460         298            0
2       2001.0           2         608           0           42
3       1998.0           3         642           0           35
4       2000.0           3         836         192           84

   EnclosedPorch  3SsnPorch  ScreenPorch  PoolArea  MiscVal  MoSold
YrSold  \
0              0          0            0         0        0       2
2008
1              0          0            0         0        0       5
2007
2              0          0            0         0        0       9
2008
3            272          0            0         0        0       2
2006
4              0          0            0         0        0      12
2008

   SalePrice
0     208500
1     181500
2     223500
3     140000
4     250000
```

```
plt.figure(figsize=(16,9))
sns.heatmap(df3_num.isnull())
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x1eda8592f98>
```




```
df3_num[df3_num.isnull().any(axis=1)]
```

	Id	MSSubClass	LotFrontage	LotArea	OverallQual	OverallCond
7	8	60	NaN	10382	7	6
12	13	20	NaN	12968	5	6
14	15	20	NaN	10920	6	5
16	17	20	NaN	11241	6	7
24	25	20	NaN	8246	5	8
31	32	20	NaN	8544	5	6
39	40	90	65.0	6040	4	5
42	43	85	NaN	9180	5	7
43	44	20	NaN	9200	5	6
48	49	190	33.0	4456	4	5
50	51	60	NaN	13869	6	6

64	65	60	NaN	9375	7	5
66	67	20	NaN	19900	7	5
76	77	20	NaN	8475	4	7
78	79	90	72.0	10778	4	5
84	85	80	NaN	8530	7	5
88	89	50	105.0	8470	3	2
89	90	20	60.0	8070	4	5
95	96	60	NaN	9765	6	8
99	100	20	77.0	9320	4	5
100	101	20	NaN	10603	6	7
104	105	50	NaN	7758	7	4
108	109	50	85.0	8500	5	7
111	112	80	NaN	7750	7	5
113	114	20	NaN	21000	6	5
116	117	20	NaN	11616	5	5
120	121	80	NaN	21453	6	5
125	126	190	60.0	6780	6	8
126	127	120	NaN	4928	6	5
127	128	45	55.0	4388	5	7
131	132	60	NaN	12224	6	5
133	134	20	NaN	6853	8	5
136	137	20	NaN	10355	5	5
140	141	20	70.0	10500	4	5
147	148	60	NaN	9505	7	5

148	149	20	63.0	7500	7	5
149	150	50	NaN	6240	5	4
152	153	60	NaN	14803	6	5
153	154	20	NaN	13500	6	7
155	156	50	60.0	9600	6	5
160	161	20	NaN	11120	6	6
163	164	45	55.0	5500	4	6
165	166	190	62.0	10106	5	7
166	167	20	NaN	10708	5	5
169	170	20	NaN	16669	8	6
170	171	50	NaN	12358	5	6
177	178	50	NaN	13650	5	5
180	181	160	NaN	2117	6	5
186	187	80	NaN	9947	7	5
191	192	60	NaN	7472	7	9
198	199	75	92.0	5520	6	6
203	204	120	NaN	4438	6	5
207	208	20	NaN	12493	4	5
208	209	60	NaN	14364	7	5
210	211	30	67.0	5604	5	6
214	215	60	NaN	10900	6	7
218	219	50	NaN	15660	7	9
221	222	60	NaN	8068	6	5
234	235	60	NaN	7851	6	5

237	238	60	NaN	9453	7	7
241	242	30	40.0	3880	5	9
244	245	60	NaN	8880	7	5
249	250	50	NaN	159000	6	7
250	251	30	55.0	5350	3	2
269	270	20	NaN	7917	6	7
287	288	20	NaN	8125	4	4
288	289	20	NaN	9819	5	5
291	292	190	55.0	5687	5	6
293	294	60	NaN	16659	7	7
307	308	50	NaN	7920	6	7
308	309	30	NaN	12342	4	5
310	311	60	NaN	7685	6	5
319	320	80	NaN	14115	7	5
328	329	75	NaN	11888	6	6
330	331	90	NaN	10624	5	4
335	336	190	NaN	164660	5	6
342	343	90	NaN	8544	3	4
346	347	20	NaN	12772	6	8
347	348	20	NaN	17600	6	5
351	352	120	NaN	5271	7	5
356	357	20	NaN	9248	6	6
360	361	85	NaN	7540	6	6
361	362	50	NaN	9144	5	5

364	365	60	NaN	18800	6	5
366	367	20	NaN	9500	6	5
369	370	20	NaN	9830	5	7
370	371	60	NaN	8121	6	5
375	376	30	NaN	10020	1	1
384	385	60	NaN	53107	6	5
386	387	50	58.0	8410	5	3
392	393	20	NaN	8339	5	7
393	394	30	NaN	7446	4	5
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421	422	20	NaN	16635	6	7
426	427	80	NaN	12800	7	5
431	432	50	60.0	5586	6	7
434	435	180	21.0	1890	4	7
441	442	90	92.0	12108	4	4
447	448	60	NaN	11214	7	5
452	453	60	NaN	9303	6	5
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458	459	70	NaN	5100	8	7
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464	465	20	60.0	8430	5	5
465	466	120	NaN	3072	7	5

470	471	120	NaN	6820	8	5
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495	496	30	60.0	7879	4	5
496	497	20	NaN	12692	8	5
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520	521	190	60.0	10800	4	7
528	529	30	58.0	9098	4	7
529	530	20	NaN	32668	6	3
533	534	20	50.0	5000	1	3
535	536	190	70.0	7000	5	7
537	538	20	NaN	12735	4	5
538	539	20	NaN	11553	5	5
539	540	20	NaN	11423	8	5
541	542	60	NaN	11000	8	5
545	546	50	NaN	13837	7	5
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560	561	20	NaN	11341	5	6
562	563	30	63.0	13907	5	6
564	565	60	NaN	13346	7	5
569	570	90	NaN	7032	5	5
580	581	20	NaN	14585	6	6
582	583	90	81.0	11841	6	5

593	594	120	NaN	4435	6	5
610	611	60	NaN	11050	9	5
611	612	80	NaN	10395	6	6
612	613	60	NaN	11885	8	5
613	614	20	70.0	8402	5	5
614	615	180	21.0	1491	4	6
616	617	60	NaN	7861	6	5
620	621	30	45.0	8248	3	3
623	624	160	NaN	2117	6	5
626	627	20	NaN	12342	5	5
635	636	190	60.0	10896	6	7
636	637	30	51.0	6120	2	3
638	639	30	67.0	8777	5	7
641	642	60	NaN	7050	7	5
645	646	20	NaN	10530	6	5
649	650	180	21.0	1936	4	6
650	651	60	65.0	8125	7	6
660	661	60	NaN	12384	7	7
666	667	60	NaN	18450	6	5
668	669	20	NaN	14175	5	6
672	673	20	NaN	11250	6	6
679	680	20	NaN	9945	5	5
682	683	120	NaN	2887	6	5
685	686	160	NaN	5062	7	5

687	688	160	NaN	5105	7	5
690	691	120	NaN	4426	6	5
705	706	190	70.0	5600	4	5
706	707	20	NaN	115149	7	5
709	710	20	NaN	7162	5	7
710	711	30	56.0	4130	3	6
714	715	60	NaN	13517	6	8
720	721	120	NaN	6563	8	5
721	722	120	NaN	4426	6	5
726	727	20	NaN	21695	6	9
734	735	20	NaN	8978	5	5
738	739	90	60.0	10800	5	5
745	746	60	NaN	8963	8	9
746	747	60	NaN	8795	7	5
750	751	50	55.0	8800	4	7
751	752	60	NaN	7750	7	5
757	758	60	NaN	11616	6	5
770	771	85	NaN	7252	5	5
783	784	85	NaN	9101	5	6
784	785	75	35.0	6300	6	6
785	786	20	NaN	9790	6	5
789	790	60	NaN	12205	6	8
791	792	80	NaN	11333	6	5
794	795	60	NaN	10832	7	5

811	812	120	NaN	4438	6	5
816	817	20	NaN	11425	5	6
817	818	20	NaN	13265	8	5
822	823	60	NaN	12394	7	5
826	827	45	50.0	6130	5	6
828	829	60	NaN	28698	5	5
840	841	70	NaN	12155	6	8
843	844	90	80.0	8000	5	4
845	846	85	NaN	16647	5	5
851	852	120	NaN	3196	8	5
853	854	80	NaN	12095	6	6
855	856	20	NaN	6897	5	8
856	857	80	NaN	10970	6	6
859	860	60	NaN	11029	6	7
865	866	20	NaN	8750	5	6
868	869	60	NaN	14762	5	6
879	880	20	NaN	7000	5	8
882	883	60	NaN	9636	6	5
893	894	20	NaN	13284	5	5
900	901	20	NaN	7340	4	6
904	905	20	NaN	6173	5	6
908	909	20	NaN	8885	5	5
911	912	20	NaN	9286	5	7
917	918	20	NaN	17140	4	6

921	922	90	67.0	8777	5	7
925	926	20	NaN	15611	5	6
927	928	60	NaN	9900	7	5
928	929	20	NaN	11838	8	5
929	930	60	NaN	13006	7	5
936	937	20	67.0	10083	7	5
939	940	70	NaN	24090	7	7
941	942	60	NaN	8755	7	5
942	943	90	42.0	7711	4	3
944	945	20	NaN	14375	6	6
953	954	60	NaN	11075	5	4
954	955	90	35.0	9400	6	5
960	961	20	50.0	7207	5	7
961	962	60	NaN	12227	6	7
967	968	20	NaN	7390	5	7
968	969	50	50.0	5925	3	6
970	971	50	60.0	10800	4	4
973	974	20	95.0	11639	7	5
975	976	160	NaN	2651	7	5
976	977	30	51.0	5900	4	7
977	978	120	35.0	4274	7	5
980	981	85	NaN	12122	7	9
983	984	60	NaN	11250	8	5
988	989	60	NaN	12046	6	6

996	997	20	NaN	10659	5	6
997	998	20	NaN	11717	6	6
1003	1004	90	NaN	11500	5	6
1006	1007	20	NaN	12155	6	3
1009	1010	50	60.0	6000	5	5
1011	1012	90	75.0	9825	5	5
1017	1018	120	NaN	5814	8	5
1018	1019	80	NaN	10784	7	5
1024	1025	20	NaN	15498	8	6
1030	1031	190	NaN	7082	5	8
1032	1033	60	NaN	14541	8	7
1033	1034	20	NaN	8125	7	5
1035	1036	20	NaN	11500	4	3
1037	1038	60	NaN	9240	8	5
1038	1039	160	21.0	1533	4	6
1041	1042	60	NaN	9130	6	8
1045	1046	20	NaN	13680	3	5
1057	1058	60	NaN	29959	7	6
1059	1060	50	NaN	11275	6	7
1064	1065	20	NaN	11000	5	6
1077	1078	20	NaN	15870	5	5
1084	1085	60	NaN	13031	6	5
1086	1087	160	NaN	1974	4	5
1096	1097	70	60.0	6882	6	7

1097	1098	120	NaN	3696	8	5
1108	1109	60	NaN	8063	6	5
1110	1111	60	NaN	8000	6	5
1116	1117	80	NaN	7750	8	5
1122	1123	20	NaN	8926	4	3
1123	1124	20	50.0	9405	5	9
1124	1125	80	NaN	9125	7	5
1131	1132	20	63.0	10712	5	5
1137	1138	50	54.0	6342	5	8
1138	1139	20	NaN	9819	6	5
1141	1142	60	NaN	10304	5	7
1143	1144	20	NaN	9000	5	3
1146	1147	20	NaN	11200	6	5
1148	1149	50	NaN	5700	7	7
1153	1154	30	NaN	5890	6	8
1154	1155	60	NaN	13700	7	6
1161	1162	20	NaN	14778	6	7
1164	1165	80	NaN	16157	5	7
1173	1174	50	138.0	18030	5	6
1177	1178	50	NaN	3950	6	8
1179	1180	20	77.0	8335	5	5
1180	1181	60	NaN	11170	7	5
1190	1191	190	NaN	32463	4	4
1193	1194	120	NaN	4500	6	5

1206	1207	20	NaN	8900	4	4
1213	1214	80	NaN	10246	4	9
1218	1219	50	52.0	6240	4	5
1219	1220	160	21.0	1680	6	5
1230	1231	90	NaN	18890	5	5
1233	1234	20	NaN	12160	5	5
1234	1235	70	55.0	8525	5	6
1243	1244	20	107.0	13891	10	5
1244	1245	70	NaN	11435	8	7
1247	1248	80	NaN	12328	6	5
1251	1252	120	NaN	3136	7	5
1253	1254	60	NaN	17542	7	7
1257	1258	30	56.0	4060	5	8
1260	1261	60	NaN	24682	6	5
1262	1263	50	NaN	11250	4	5
1268	1269	50	NaN	14100	8	9
1270	1271	40	NaN	23595	7	6
1271	1272	20	NaN	9156	6	7
1272	1273	20	NaN	13526	5	6
1276	1277	60	NaN	12936	6	6
1277	1278	80	NaN	17871	6	5
1278	1279	60	75.0	9473	8	5
1283	1284	90	94.0	9400	6	5
1286	1287	20	NaN	9790	6	5

1287	1288	20	NaN	36500	5	5
1290	1291	80	NaN	14112	5	7
1300	1301	60	NaN	10762	7	5
1301	1302	70	NaN	7500	6	7
1309	1310	20	NaN	7153	6	5
1312	1313	60	NaN	9572	8	5
1318	1319	20	NaN	14781	8	5
1321	1322	20	NaN	6627	3	6
1323	1324	30	50.0	5330	4	7
1325	1326	30	40.0	3636	4	4
1326	1327	30	70.0	4270	3	6
1337	1338	30	153.0	4118	4	4
1342	1343	60	NaN	9375	8	5
1346	1347	20	NaN	20781	7	7
1348	1349	20	NaN	16196	7	5
1349	1350	70	50.0	5250	8	5
1354	1355	60	NaN	10316	7	5
1356	1357	20	NaN	9477	5	5
1357	1358	20	NaN	12537	5	6
1358	1359	160	NaN	2117	6	5
1362	1363	50	NaN	12513	4	4
1365	1366	60	NaN	7500	7	5
1368	1369	120	NaN	4435	6	5
1373	1374	20	NaN	11400	10	5

1381	1382	20	NaN	12925	6	7	
1383	1384	30	NaN	25339	5	7	
1396	1397	20	NaN	57200	5	5	
1407	1408	20	NaN	8780	5	5	
1417	1418	60	NaN	16545	8	5	
1419	1420	20	NaN	16381	6	5	
1423	1424	80	NaN	19690	6	7	
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1429	1430	20	NaN	12546	6	7	
1431	1432	120	NaN	4928	6	6	
1441	1442	120	NaN	4426	6	5	
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1446	1447	20	NaN	26142	5	7	
1449	1450	180	21.0	1533	5	7	
1450	1451	90	60.0	9000	5	5	
1453	1454	20	90.0	17217	5	5	

	YearBuilt	YearRemodAdd	MasVnrArea	BsmtFinSF1	BsmtFinSF2	BsmtUnfSF	\
7	1973	1973	240.0	859	32	216	
12	1962	1962	0.0	737	0	175	
14	1960	1960	212.0	733	0	520	
16	1970	1970	180.0	578	0	426	
24	1968	2001	0.0	188	668	204	
31	1966	2006	0.0	0	0	1228	
39	1955	1955	0.0	0	0		

0
42 1983 1983 0.0 747 93
0
43 1975 1980 0.0 280 491
167
48 1920 2008 0.0 0 0
736
50 1997 1997 0.0 182 0
612
64 1997 1998 573.0 739 0
318
66 1970 1989 287.0 912 0
1035
76 1956 1956 0.0 228 0
724
78 1968 1968 0.0 0 0
1768
84 1995 1996 22.0 0 0
384
88 1915 1982 0.0 0 0
1013
89 1994 1995 0.0 588 0
402
95 1993 1993 68.0 310 0
370
99 1959 1959 0.0 569 0
381
100 1977 2001 28.0 1200 0
410
104 1931 1950 600.0 224 0
816
108 1919 2005 0.0 0 0
793
111 2000 2000 0.0 250 0
134
113 1953 1953 184.0 35 869
905
116 1962 1962 116.0 170 670
252
120 1969 1969 0.0 938 0
0
125 1935 1982 0.0 490 0
30
126 1976 1976 0.0 120 0
958
127 1930 1950 0.0 116 0
556
131 2000 2000 40.0 695 0
297
133 2001 2002 136.0 1005 0

262
136 1967 1967 196.0 695 0
519
140 1971 1971 0.0 432 0
432
147 2001 2001 180.0 0 0
884
148 2004 2005 120.0 680 0
400
149 1936 1950 0.0 0 0
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152 1971 1971 252.0 416 0
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153 1960 1975 0.0 429 1080
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155 1924 1950 0.0 0 0
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160 1984 1984 0.0 660 0
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163 1956 1956 0.0 0 0
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165 1940 1999 0.0 351 181
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166 1955 1993 0.0 379 768
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169 1981 1981 653.0 0 0
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170 1941 1950 0.0 360 0
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177 1958 1958 0.0 57 441
554
180 2000 2000 456.0 436 0
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186 1990 1991 0.0 611 0
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191 1972 2004 138.0 626 0
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198 1912 1950 0.0 0 0
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203 2004 2004 205.0 662 0
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207 1960 1960 0.0 419 306
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208 1988 1989 128.0 1065 0
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210 1925 1950 0.0 468 0
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214 1977 1977 153.0 378 0
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218 1939 2006 312.0 341 0

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221 2002 2002 0.0 0 0
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234 2002 2002 NaN 625 0
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237 1993 2003 0.0 402 0
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241 1945 1997 0.0 329 0
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244 1994 2002 0.0 695 0
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249 1958 2006 472.0 697 0
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250 1940 1966 0.0 0 0
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269 1976 1976 174.0 751 0
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287 1971 1971 0.0 614 0
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288 1967 1967 31.0 450 0
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291 1912 2000 0.0 210 0
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293 1977 1994 34.0 795 0
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307 1920 1950 0.0 0 0
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308 1940 1950 0.0 262 0
599
310 1993 1994 112.0 518 0
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319 1980 1980 225.0 1036 0
336
328 1916 1994 0.0 0 0
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330 1964 1964 84.0 40 264
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335 1965 1965 0.0 1249 147
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342 1949 1950 340.0 0 0
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346 1960 1998 0.0 498 0
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347 1960 1960 30.0 1270 0
208
351 1986 1986 0.0 1082 0
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356 1992 1992 106.0 560 0
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360 1978 1978 0.0 773 0

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361 1940 1982 0.0 399 0
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364 1976 1976 120.0 712 0
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366 1963 1963 247.0 609 0
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369 1959 2006 0.0 72 258
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370 2000 2000 0.0 0 0
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375 1922 1950 0.0 350 0
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384 1992 1992 0.0 985 0
595
386 1910 1996 0.0 0 0
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392 1959 1959 0.0 0 0
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393 1941 1950 0.0 266 0
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404 1995 1996 0.0 0 0
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405 1976 1993 0.0 1116 0
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412 2009 2009 432.0 578 0
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421 1977 2000 126.0 1246 0
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426 1989 1989 145.0 1518 0
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431 1920 1998 0.0 0 0
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434 1972 1972 0.0 495 0
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441 1955 1955 270.0 133 0
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447 1998 1999 0.0 0 0
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452 1996 1997 42.0 742 0
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457 1954 1994 0.0 1116 0
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458 1925 1996 0.0 0 0
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459 1950 1950 161.0 185 0
524
464 1978 1978 136.0 616 0
424
465 2004 2004 18.0 0 0

1375
470 1985 1985 0.0 368 1120
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484 1962 2001 0.0 588 0
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490 1976 1976 0.0 0 0
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495 1920 1950 0.0 495 0
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496 1992 1993 0.0 1231 0
1969
516 1972 1972 333.0 0 0
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518 1998 1998 0.0 706 0
88
520 1900 2000 0.0 0 0
0
528 1920 2002 0.0 348 0
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529 1957 1975 NaN 1219 0
816
533 1946 1950 0.0 0 0
0
535 1910 1991 0.0 969 0
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537 1972 1972 0.0 600 0
264
538 1968 1968 188.0 673 0
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539 2001 2002 479.0 1358 0
223
541 2000 2000 72.0 0 0
969
545 1988 1988 178.0 1002 202
0
559 2003 2004 18.0 0 0
1374
560 1957 1996 180.0 1302 0
90
562 1940 1969 0.0 290 0
706
564 1992 2000 0.0 728 0
367
569 1979 1979 0.0 943 0
0
580 1960 1987 85.0 594 219
331
582 1990 1990 104.0 816 0
0
593 2003 2003 170.0 685 0

163					
610	2000	2000	204.0	904	0
536					
611	1978	1978	233.0	605	0
427					
612	2001	2001	108.0	990	0
309					
613	2007	2007	0.0	206	0
914					
614	1972	1972	0.0	150	480
0					
616	2002	2003	0.0	457	0
326					
620	1914	1950	0.0	41	0
823					
623	2000	2000	513.0	420	0
336					
626	1960	1978	0.0	0	0
978					
635	1914	1995	0.0	256	0
1184					
636	1936	1950	0.0	0	0
264					
638	1910	1950	0.0	0	0
796					
641	2001	2001	0.0	738	0
319					
645	1971	1971	0.0	282	35
664					
649	1970	1970	0.0	131	499
0					
650	2007	2007	NaN	0	0
813					
660	1976	1976	233.0	0	0
793					
666	1965	1979	113.0	187	723
111					
668	1956	1987	0.0	988	0
200					
672	1977	1977	0.0	767	0
441					
679	1961	1961	57.0	827	0
161					
682	1996	1997	0.0	1003	0
288					
685	1984	1984	0.0	828	182
180					
687	2004	2004	0.0	239	0
312					
690	2004	2004	147.0	697	0

151
705 1930 1950 0.0 0 0
0
706 1971 2002 351.0 1219 0
424
709 1966 1966 41.0 0 0
876
710 1935 2003 0.0 0 0
270
714 1976 2005 289.0 533 0
192
720 1985 1985 0.0 1148 0
594
721 2004 2004 169.0 662 0
186
726 1988 2007 260.0 808 0
72
734 1968 1968 0.0 0 0
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1424 1958 1983 0.0 457 374
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1429 1981 1981 310.0 678 0

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1453 2006 2006 0.0 0 0
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	TotalBsmtSF	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	\
7	1107	1107	983	0	2090	1	
12	912	912	0	0	912	1	
14	1253	1253	0	0	1253	1	
16	1004	1004	0	0	1004	1	
24	1060	1060	0	0	1060	1	
31	1228	1228	0	0	1228	0	
39	0	1152	0	0	1152	0	
42	840	884	0	0	884	1	
43	938	938	0	0	938	1	
48	736	736	716	0	1452	0	
50	794	794	676	0	1470	0	
64	1057	1057	977	0	2034	1	
66	1947	2207	0	0	2207	1	
76	952	952	0	0	952	0	
78	1768	1768	0	0	1768	0	
84	384	804	670	0	1474	0	

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0
89 990 990 0 0 990
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95 680 680 790 0 1470
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99 950 1225 0 0 1225
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100 1610 1610 0 0 1610
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111 384 774 656 0 1430
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113 1809 2259 0 0 2259
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116 1092 1092 0 0 1092
0
120 938 988 0 0 988
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125 520 520 0 234 754
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126 1078 958 0 0 958
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127 672 840 0 0 840
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131 992 1022 1032 0 2054
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136 1214 1214 0 0 1214
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140 864 864 0 0 864
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149 896 896 448 0 1344
0
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153 1602 1252 0 0 1252
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155 572 572 524 0 1096
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160 1232 1232 0 0 1232
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165	644	808	547	0	1355	1
166	1617	1867	0	0	1867	1
169	1686	1707	0	0	1707	0
170	720	854	0	528	1382	0
177	1052	1252	668	0	1920	1
180	756	769	756	0	1525	0
186	1188	1217	0	0	1217	1
191	725	725	754	0	1479	1
198	755	929	929	371	2229	0
203	848	848	0	0	848	1
207	1100	1100	0	0	1100	1
208	1157	1180	882	0	2062	1
210	864	864	0	0	864	1
214	689	689	703	0	1392	0
218	798	1137	817	0	1954	0
221	1010	1010	1257	0	2267	0
234	860	860	1100	0	1960	1
237	996	1014	730	0	1744	0
241	686	866	0	0	866	0
244	948	1222	888	0	2110	1
249	1444	1444	700	0	2144	0
250	728	1306	0	0	1306	0
269	1143	1113	0	0	1113	1
287	858	858	0	0	858	0

288	882	900	0	0	900	0
291	780	936	780	0	1716	1
293	795	1468	795	0	2263	1
307	319	1035	371	0	1406	0
308	861	861	0	0	861	0
310	697	697	804	0	1501	0
319	1372	1472	0	0	1472	1
328	844	1445	689	0	2134	0
330	1728	1728	0	0	1728	0
335	1499	1619	167	0	1786	2
342	0	1040	0	0	1040	0
346	958	958	0	0	958	0
347	1478	1478	0	0	1478	1
351	1453	1453	0	0	1453	1
356	1158	1167	0	0	1167	1
360	888	912	0	0	912	1
361	883	988	517	0	1505	1
364	796	790	784	0	1574	1
366	1394	1394	0	0	1394	1
369	1063	1287	0	0	1287	1
370	953	953	711	0	1664	0
375	683	904	0	0	904	1
384	1580	1079	874	0	1953	1
386	658	658	526	0	1184	0
392	0	882	0	0	882	0

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616	783	807	702	0	1509
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660	793	1142	793	0	1935
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666	1021	1465	915	0	2380
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668	1188	1437	0	0	1437
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672	1208	1208	0	0	1208
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682	1291	1291	0	0	1291
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685	1190	1190	900	0	2090
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687	551	551	551	0	1102
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705	0	372	720	0	1092
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709	876	904	0	0	904
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710	270	729	0	0	729
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714	725	725	754	0	1479
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757	672	672	714	0	1386
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1326	544	774	0	0	774
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1337	693	693	0	0	693
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1342	1284	1284	885	0	2169
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1346	1568	2156	0	0	2156
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1354	992	992	873	0	1865
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1365          814       814        860             0       1674
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1373         2633      2633          0             0       2633
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1407          833       833          0             0        833
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1419         1844      1844          0             0       1844
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1423          697      1575        626             0       2201
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1450          896       896        896             0       1792
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1453         1140      1140          0             0       1140
0

      BsmtHalfBath  FullBath  HalfBath  BedroomAbvGr  KitchenAbvGr  \
7                0         2         1             3             1
12               0         1         0             2             1
```

14	0	1	1	2	1
16	0	1	0	2	1
24	0	1	0	3	1
31	0	1	1	3	1
39	0	2	0	2	2
42	0	1	0	2	1
43	0	1	0	3	1
48	0	2	0	2	3
50	1	2	0	3	1
64	0	2	1	3	1
66	0	2	0	3	1
76	0	1	0	2	1
78	0	2	0	4	2
84	0	2	1	3	1
88	0	1	0	2	1
89	0	1	0	3	1
95	0	2	1	3	1
99	0	1	1	3	1
100	0	2	0	3	1
104	0	1	1	4	1
108	0	2	0	3	1
111	0	2	1	3	1
113	0	2	0	3	1
116	1	1	0	3	1
120	0	1	0	1	1
125	0	1	0	2	1
126	0	2	0	2	1
127	0	1	0	3	1
131	0	2	1	3	1
133	0	2	0	2	1
136	0	2	0	3	1
140	0	1	0	3	1
147	0	2	1	3	1
148	0	1	0	3	1
149	0	1	0	3	1
152	0	2	1	4	1
153	0	1	0	1	1
155	0	1	0	2	1
160	0	2	0	3	1
163	0	1	0	1	1
165	0	2	0	4	2
166	0	1	0	2	1
169	0	2	1	2	1
170	0	1	1	2	1
177	0	2	0	4	1
180	0	2	1	3	1
186	0	2	0	3	1
191	0	1	1	4	1
198	0	1	0	5	1
203	0	1	0	1	1

207	0	1	0	3	1
208	0	2	1	3	1
210	0	1	0	2	1
214	0	1	1	3	1
218	1	1	1	3	1
221	0	2	1	4	1
234	0	2	1	4	1
237	0	2	1	3	1
241	0	1	0	2	1
244	0	2	1	3	1
249	1	2	0	4	1
250	0	1	0	3	1
269	0	1	1	3	1
287	0	1	0	3	1
288	0	1	0	3	1
291	0	2	0	6	1
293	0	2	1	3	1
307	0	1	0	3	1
308	0	1	0	1	1
310	0	2	1	3	1
319	0	2	0	3	1
328	0	2	0	5	1
330	1	2	0	6	2
335	0	2	0	3	1
342	0	2	0	2	2
346	0	1	0	2	1
347	0	2	0	3	1
351	0	1	1	2	1
356	0	2	0	3	1
360	0	1	0	2	1
361	0	1	0	3	1
364	0	2	1	3	1
366	0	1	1	3	1
369	0	1	0	3	1
370	0	2	1	3	1
375	0	0	1	1	1
384	0	2	1	3	1
386	0	1	0	5	1
392	0	1	0	3	1
393	0	1	0	2	1
404	0	2	1	3	1
405	0	2	0	3	1
412	0	2	1	2	1
421	1	2	0	3	1
426	1	2	0	2	1
431	0	1	0	4	1
434	0	1	0	1	1
441	0	2	0	4	2
447	0	2	1	4	1
452	0	2	1	3	1

457	0	1	0	2	1
458	0	1	0	3	1
459	0	1	0	3	1
464	0	2	0	3	1
465	0	2	0	2	1
470	0	1	1	1	1
484	0	1	0	3	1
490	0	1	1	3	1
495	0	1	0	2	1
496	0	3	0	4	1
516	0	2	1	3	1
518	0	2	1	3	1
520	0	2	0	3	2
528	0	1	0	2	1
529	0	3	0	4	2
533	0	1	0	1	1
535	0	1	0	3	1
537	0	1	0	3	1
538	0	1	1	3	1
539	0	2	0	3	1
541	0	2	1	4	1
545	0	2	1	4	1
559	0	2	0	2	1
560	0	1	1	3	1
562	0	1	0	3	1
564	0	2	1	4	1
569	0	1	0	2	1
580	1	1	0	3	1
582	0	1	0	3	1
593	0	1	0	1	1
610	0	2	1	3	1
611	1	2	0	3	1
612	0	2	1	3	1
613	0	1	0	3	1
614	0	1	0	1	1
616	0	2	1	3	1
620	0	1	0	2	1
623	0	2	1	2	1
626	0	1	0	3	1
635	0	2	0	8	2
636	0	1	0	1	1
638	0	1	0	2	1
641	0	2	1	3	1
645	0	1	1	3	1
649	0	1	0	1	1
650	0	2	1	3	1
660	0	2	1	3	1
666	0	2	1	3	1
668	0	1	1	3	1
672	0	1	1	3	1

679	0	1	0	3	1
682	0	1	0	2	1
685	0	2	0	3	1
687	0	2	1	2	1
690	0	1	0	1	1
705	0	2	0	3	2
706	0	2	0	2	1
709	0	1	0	3	1
710	0	1	0	2	1
714	0	2	1	3	1
720	0	2	0	2	1
721	0	1	0	1	1
726	0	2	0	3	1
734	0	1	0	3	1
738	0	3	0	3	1
745	1	3	1	4	1
746	0	2	1	4	1
750	0	1	0	3	1
751	0	2	1	3	1
757	0	2	1	3	1
770	0	1	0	2	1
783	0	1	0	1	1
784	0	2	0	3	1
785	0	2	0	3	1
789	0	2	1	5	1
791	0	1	0	3	1
794	0	2	1	3	1
811	0	1	0	1	1
816	0	1	0	2	1
817	0	2	0	3	1
822	0	2	1	3	1
826	0	1	0	2	1
828	1	2	1	3	1
840	0	2	0	4	1
843	0	2	0	6	2
845	0	2	0	3	1
851	0	2	0	2	1
853	0	1	1	3	1
855	0	1	1	3	1
856	0	1	0	3	1
859	0	2	1	4	1
865	0	1	0	3	1
868	0	2	0	2	1
879	0	1	0	3	1
882	0	2	1	3	1
893	0	1	0	3	1
900	0	1	0	2	1
904	0	1	0	3	1
908	0	1	0	2	1
911	0	1	1	3	1

917	0	1	0	3	1
921	0	2	2	4	2
925	1	2	0	3	1
927	0	2	1	4	1
928	0	2	0	3	1
929	0	2	1	4	1
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942	0	2	0	4	2
944	1	1	0	3	1
953	1	2	1	4	1
954	2	2	0	4	0
960	0	1	0	2	1
961	0	2	1	4	1
967	0	1	0	3	1
968	0	1	0	2	1
970	0	1	1	4	1
973	0	2	0	3	1
975	0	2	1	3	1
976	0	1	0	2	1
977	0	1	1	1	1
980	0	1	0	3	1
983	0	2	1	4	1
988	0	2	1	4	1
996	0	1	0	3	1
997	0	2	0	2	1
1003	0	2	0	4	2
1006	1	2	0	3	1
1009	0	2	0	4	1
1011	0	2	0	4	2
1017	0	1	0	1	1
1018	0	2	1	3	1
1024	0	2	0	2	1
1030	0	2	0	5	2
1032	0	2	1	5	1
1033	0	2	0	3	1
1035	0	1	0	3	1
1037	0	2	1	3	1
1038	0	1	1	3	1
1041	1	1	1	4	1
1045	0	2	0	4	1
1057	0	2	1	3	1
1059	0	1	1	3	1
1064	0	1	1	3	1
1077	0	1	0	3	1
1084	0	2	1	3	1
1086	0	1	1	3	1
1096	0	1	1	3	1
1097	0	1	1	2	1

1108	0	2	1	3	1
1110	0	2	1	3	1
1116	0	2	1	3	1
1122	0	1	0	3	1
1123	1	1	0	2	1
1124	0	2	1	3	1
1131	0	1	0	3	1
1137	0	1	0	2	1
1138	0	2	0	2	1
1141	0	2	1	4	1
1143	0	1	0	3	1
1146	0	2	0	3	1
1148	0	1	0	2	1
1153	0	1	0	2	1
1154	0	1	2	4	1
1161	0	1	0	3	1
1164	0	1	1	2	1
1173	0	3	0	3	1
1177	0	1	0	3	1
1179	0	1	0	3	1
1180	0	2	1	4	1
1190	0	1	0	3	1
1193	0	2	0	2	1
1206	0	1	0	2	1
1213	1	0	0	0	1
1218	0	1	0	2	1
1219	0	1	1	3	1
1230	0	2	2	4	2
1233	0	1	0	3	1
1234	0	1	1	4	1
1243	0	2	1	2	1
1244	0	1	0	3	1
1247	0	1	0	3	1
1251	0	2	0	2	1
1253	0	2	1	3	1
1257	0	1	0	2	1
1260	0	2	1	3	1
1262	0	1	0	5	1
1268	0	3	1	4	1
1270	0	0	1	0	1
1271	0	2	0	3	1
1272	0	1	0	3	1
1276	1	1	1	3	1
1277	0	1	1	3	1
1278	0	2	1	3	1
1283	0	2	2	4	2
1286	0	1	1	3	1
1287	1	2	0	4	1
1290	0	1	0	3	1
1300	0	2	1	3	1

1301	0	1	0	3	1
1309	0	2	0	3	1
1312	0	2	1	4	1
1318	0	2	0	3	1
1321	0	1	0	2	1
1323	0	1	0	2	1
1325	0	1	0	2	1
1326	0	1	0	3	1
1337	0	1	0	2	1
1342	0	2	1	3	1
1346	0	2	0	3	1
1348	0	2	0	3	1
1349	0	2	0	4	1
1354	0	2	1	3	1
1356	0	1	0	3	1
1357	0	1	1	3	1
1358	0	2	1	3	1
1362	0	2	0	4	1
1365	0	2	1	3	1
1368	0	1	0	1	1
1373	0	2	1	2	1
1381	0	2	1	4	1
1383	0	2	0	3	1
1396	0	1	0	3	1
1407	0	1	0	3	1
1417	0	2	1	3	1
1419	0	2	0	3	1
1423	0	2	0	4	1
1424	0	1	0	2	1
1429	0	2	0	3	1
1431	0	2	0	2	1
1441	0	1	0	1	1
1443	0	1	0	2	1
1446	0	1	0	3	1
1449	0	1	0	1	1
1450	0	2	2	4	2
1453	0	1	0	3	1

	TotRmsAbvGrd	Fireplaces	GarageYrBlt	GarageCars	GarageArea	\
7	7	2	1973.0	2	484	
12	4	0	1962.0	1	352	
14	5	1	1960.0	1	352	
16	5	1	1970.0	2	480	
24	6	1	1968.0	1	270	
31	6	0	1966.0	1	271	
39	6	0	NaN	0	0	
42	5	0	1983.0	2	504	
43	5	0	1977.0	1	308	
48	8	0	NaN	0	0	
50	6	0	1997.0	2	388	

64	8	0	1998.0	2	645
66	7	1	1970.0	2	576
76	4	0	1956.0	1	283
78	8	0	NaN	0	0
84	7	1	1995.0	2	400
88	6	0	NaN	0	0
89	5	0	NaN	0	0
95	6	1	1993.0	2	420
99	6	0	NaN	0	0
100	6	2	1977.0	2	480
104	7	2	1951.0	1	240
108	7	0	NaN	0	0
111	7	1	2000.0	2	400
113	7	2	1953.0	2	450
116	6	1	1962.0	1	288
120	4	2	1969.0	2	540
125	5	0	NaN	0	0
126	5	1	1977.0	2	440
127	5	1	NaN	0	0
131	7	1	2000.0	2	390
133	6	0	2001.0	2	471
136	5	1	1967.0	1	318
140	5	1	NaN	0	0
147	8	1	2001.0	2	434
148	6	0	NaN	0	0
149	7	0	1936.0	1	240
152	8	1	1971.0	2	495
153	4	1	1960.0	2	564
155	5	0	NaN	0	0
160	6	0	1984.0	2	516
163	4	0	NaN	0	0
165	6	0	NaN	0	0
166	7	3	1955.0	1	303
169	6	1	1981.0	2	511
170	7	0	1991.0	2	660
177	8	1	1958.0	2	451
180	5	1	2000.0	2	440
186	6	0	1990.0	2	497
191	7	0	1972.0	2	484
198	8	0	NaN	0	0
203	3	1	2004.0	2	420
207	6	1	1960.0	1	312
208	7	1	1988.0	2	454
210	5	0	NaN	0	0
214	6	0	1977.0	1	299
218	8	2	1939.0	2	431
221	8	1	2002.0	2	390
234	8	2	2002.0	2	440
237	7	0	1993.0	2	457
241	4	0	NaN	0	0

244	8	2	1994.0	2	463
249	7	2	1958.0	2	389
250	6	0	NaN	0	0
269	6	1	1987.0	1	504
287	5	0	NaN	0	0
288	5	0	1970.0	1	280
291	9	0	NaN	0	0
293	9	1	1977.0	2	539
307	6	0	NaN	0	0
308	4	0	1961.0	2	539
310	6	1	1993.0	2	420
319	6	2	1980.0	2	588
328	10	0	1930.0	2	441
330	10	0	2002.0	1	352
335	7	2	1965.0	2	529
342	6	0	1949.0	2	400
346	5	0	1960.0	1	301
347	6	2	1960.0	2	498
351	6	1	1986.0	2	445
356	6	0	1992.0	2	400
360	5	1	1978.0	2	470
361	8	0	1940.0	1	240
364	6	1	1976.0	2	566
366	6	2	1963.0	2	514
369	7	1	1997.0	2	576
370	7	1	2000.0	2	460
375	4	0	NaN	0	0
384	9	2	1992.0	2	501
386	8	0	NaN	0	0
392	5	0	1959.0	1	294
393	4	2	NaN	0	0
404	7	1	1995.0	2	373
405	8	1	1993.0	2	490
412	7	1	2009.0	2	484
421	8	1	1977.0	2	529
426	5	1	1989.0	2	569
431	7	0	NaN	0	0
434	3	0	NaN	0	0
441	8	0	NaN	0	0
447	10	1	1998.0	2	431
452	7	0	1996.0	2	422
457	6	2	1954.0	2	529
458	7	1	1925.0	1	228
459	5	1	1950.0	1	352
464	5	0	NaN	0	0
465	6	1	2004.0	2	398
470	4	0	1985.0	2	528
484	6	0	1963.0	1	264
490	4	1	1976.0	1	336
495	4	0	NaN	0	0

496	10	1	1992.0	2	546
516	7	1	1972.0	2	583
518	7	0	1998.0	2	546
520	7	0	NaN	0	0
528	5	0	NaN	0	0
529	9	2	1975.0	2	484
533	2	0	NaN	0	0
535	5	0	NaN	0	0
537	5	0	1980.0	2	576
538	7	1	1968.0	1	336
539	6	1	2001.0	2	670
541	8	1	2000.0	3	648
545	9	0	1988.0	3	786
559	7	1	2003.0	2	420
560	5	1	1957.0	2	528
562	6	1	NaN	0	0
564	9	1	1992.0	2	590
569	4	2	1979.0	2	600
580	7	2	1960.0	2	572
582	5	0	NaN	0	0
593	4	0	2003.0	2	420
610	8	2	2000.0	3	736
611	6	1	1978.0	2	564
612	7	1	2001.0	2	531
613	6	0	NaN	0	0
614	3	0	NaN	0	0
616	7	1	2002.0	2	393
620	5	0	NaN	0	0
623	4	1	2000.0	2	440
626	6	1	1960.0	1	286
635	14	0	NaN	0	0
636	4	1	NaN	0	0
638	4	0	NaN	0	0
641	7	1	2001.0	2	650
645	5	0	1979.0	2	576
649	3	0	NaN	0	0
650	7	0	2007.0	2	562
660	7	1	1976.0	2	550
666	7	1	1965.0	2	596
668	6	1	1999.0	2	576
672	6	1	1977.0	2	546
679	5	0	1963.0	2	572
682	6	1	1996.0	2	431
685	6	1	1984.0	2	577
687	4	0	2004.0	2	480
690	3	1	2004.0	2	420
705	7	0	NaN	0	0
706	5	2	1971.0	2	739
709	6	0	1966.0	1	408
710	5	0	NaN	0	0

714	6	0	1976.0	2	475
720	5	1	1985.0	2	564
721	3	0	2004.0	2	420
726	5	1	1988.0	2	540
734	6	0	1968.0	1	300
738	5	0	NaN	0	0
745	11	2	1994.0	2	831
746	8	1	2000.0	2	554
750	7	0	NaN	0	0
751	6	0	2003.0	2	400
757	6	1	1978.0	2	440
770	5	0	1983.0	2	576
783	4	1	1978.0	2	602
784	9	1	NaN	0	0
785	7	1	1967.0	2	457
789	9	0	1966.0	2	444
791	5	2	1976.0	2	539
794	7	1	1994.0	2	409
811	4	1	2004.0	2	420
816	4	1	1954.0	1	275
817	7	2	2002.0	3	857
822	7	1	2003.0	2	433
826	5	0	NaN	0	0
828	7	0	1967.0	2	538
840	7	0	1934.0	1	400
843	10	0	NaN	0	0
845	6	2	1975.0	2	611
851	7	1	2003.0	2	400
853	7	1	1964.0	2	645
855	6	0	1962.0	1	260
856	5	0	1981.0	2	576
859	9	1	1968.0	2	619
865	5	0	1973.0	2	902
868	7	1	1979.0	2	672
879	6	0	1978.0	1	336
882	7	1	1993.0	2	389
893	6	1	1954.0	1	354
900	4	0	1979.0	1	684
904	6	0	1967.0	1	288
908	5	0	1983.0	2	484
911	5	0	1978.0	1	252
917	6	0	1956.0	1	284
921	9	0	NaN	0	0
925	6	0	1977.0	2	540
927	9	1	1968.0	2	486
928	7	1	2001.0	2	522
929	8	1	1997.0	2	642
936	5	0	2003.0	2	555
939	10	2	1940.0	1	349
941	8	1	1999.0	2	390

942	8	0	NaN	0	0
944	7	1	1958.0	2	525
953	7	1	1969.0	2	530
954	4	0	NaN	0	0
960	4	0	NaN	0	0
961	11	1	1977.0	2	619
967	6	0	1955.0	1	260
968	6	0	NaN	0	0
970	6	0	NaN	0	0
973	6	0	2007.0	2	480
975	6	0	2000.0	2	490
976	4	0	NaN	0	0
977	4	0	2007.0	2	569
980	6	0	1961.0	2	588
983	9	1	2002.0	2	779
988	8	1	1976.0	2	551
996	6	0	1961.0	1	368
997	6	1	1970.0	2	615
1003	8	0	1976.0	2	528
1006	7	1	1970.0	2	484
1009	7	0	NaN	0	0
1011	8	0	NaN	0	0
1017	4	1	1984.0	2	565
1018	7	1	1991.0	2	402
1024	10	1	1976.0	2	665
1030	10	0	NaN	0	0
1032	10	1	1993.0	3	796
1033	6	0	2002.0	3	900
1035	5	0	1957.0	1	290
1037	7	1	2001.0	2	905
1038	6	1	NaN	0	0
1041	7	0	1966.0	2	484
1045	8	1	1955.0	2	452
1057	7	1	1994.0	2	467
1059	7	1	1977.0	2	432
1064	6	1	1966.0	2	480
1077	6	0	1969.0	1	299
1084	6	1	1995.0	2	409
1086	6	0	1973.0	1	286
1096	7	0	NaN	0	0
1097	5	0	1987.0	2	461
1108	7	1	2000.0	2	463
1110	8	1	1995.0	2	431
1116	7	1	2002.0	2	527
1122	5	0	1956.0	1	288
1123	4	0	NaN	0	0
1124	7	1	1992.0	2	392
1131	5	0	NaN	0	0
1137	6	0	NaN	0	0
1138	5	2	1977.0	2	714

1141	9	1	1976.0	2	484
1143	5	0	NaN	0	0
1146	5	1	1985.0	2	403
1148	5	1	1982.0	1	288
1153	5	0	2002.0	1	432
1154	8	2	1965.0	2	492
1161	7	1	1993.0	2	924
1164	5	1	1978.0	2	588
1173	12	1	NaN	0	0
1177	5	0	1926.0	1	210
1179	5	1	NaN	0	0
1180	8	0	1990.0	2	693
1190	7	1	1975.0	4	1356
1193	5	0	1999.0	2	402
1206	5	0	1966.0	1	384
1213	3	0	1965.0	1	364
1218	3	0	NaN	0	0
1219	7	0	NaN	0	0
1230	12	1	1977.0	2	600
1233	6	0	1959.0	2	531
1234	7	0	NaN	0	0
1243	7	1	2006.0	3	850
1244	7	2	1931.0	2	400
1247	6	0	1976.0	3	888
1251	6	1	2003.0	2	478
1253	9	2	1974.0	2	518
1257	4	0	NaN	0	0
1260	7	1	1999.0	2	502
1262	8	2	1957.0	1	304
1268	11	2	1982.0	3	1014
1270	4	1	1979.0	2	586
1271	7	1	1968.0	2	462
1272	5	0	1965.0	1	288
1276	6	1	1972.0	2	497
1277	7	1	1967.0	2	480
1278	7	1	2002.0	2	577
1283	8	0	NaN	0	0
1286	6	2	1963.0	2	528
1287	7	0	1964.0	2	390
1290	6	1	1964.0	2	484
1300	9	1	1999.0	2	490
1301	7	2	1942.0	1	213
1309	6	0	1991.0	2	496
1312	9	1	1990.0	2	750
1318	7	1	2001.0	3	748
1321	4	0	1955.0	1	287
1323	5	0	NaN	0	0
1325	5	0	NaN	0	0
1326	6	0	NaN	0	0
1337	4	0	NaN	0	0

1342	7	1	2002.0	2	647
1346	9	1	1968.0	2	508
1348	5	1	1998.0	2	514
1349	8	0	NaN	0	0
1354	7	1	2000.0	3	839
1356	5	0	1966.0	1	264
1357	6	1	1971.0	2	500
1358	5	0	2000.0	2	440
1362	7	1	1920.0	1	368
1365	7	0	2000.0	2	663
1368	4	0	2003.0	2	420
1373	8	2	2001.0	3	804
1381	7	2	1970.0	2	550
1383	7	0	2007.0	2	576
1396	7	2	1966.0	2	572
1407	5	0	NaN	0	0
1417	7	1	1998.0	3	1069
1419	7	1	1969.0	2	540
1423	8	1	1966.0	2	432
1424	6	1	1970.0	1	484
1429	7	1	1981.0	2	467
1431	5	0	1976.0	2	440
1441	3	1	2004.0	2	420
1443	4	1	1916.0	1	192
1446	6	0	1962.0	1	312
1449	3	0	NaN	0	0
1450	8	0	NaN	0	0
1453	6	0	NaN	0	0

	WoodDeckSF	OpenPorchSF	EnclosedPorch	3SsnPorch	ScreenPorch \
7	235	204	228	0	0
12	140	0	0	0	176
14	0	213	176	0	0
16	0	0	0	0	0
24	406	90	0	0	0
31	0	65	0	0	0
39	0	0	0	0	0
42	240	0	0	0	0
43	145	0	0	0	0

48	0	0	102	0	0
50	0	75	0	0	0
64	576	36	0	0	0
66	301	0	0	0	0
76	0	0	0	0	0
78	0	0	0	0	0
84	120	72	0	0	0
88	0	0	156	0	0
89	0	0	0	0	0
95	232	63	0	0	0
99	352	0	0	0	0
100	168	68	0	0	0
104	0	0	0	0	184
108	0	0	144	0	0
111	180	0	0	0	0
113	166	120	192	0	0
116	0	20	144	0	0
120	0	130	0	130	0
125	53	0	0	0	0
126	0	205	0	0	0
127	0	0	0	0	0
131	24	48	0	0	0
133	192	25	0	0	0
136	0	111	0	0	0

140	0	0	0	0	0
147	144	48	0	0	0
148	0	0	0	0	0
149	200	114	0	0	0
152	0	66	0	0	0
153	409	0	0	0	0
155	0	8	128	0	0
160	0	0	0	0	0
163	0	0	0	0	0
165	140	0	0	0	0
166	476	0	0	0	142
169	574	64	0	0	0
170	237	0	0	0	0
177	0	0	0	0	0
180	0	0	0	0	0
186	168	27	0	0	0
191	0	32	0	0	0
198	0	198	30	0	0
203	149	0	0	0	0
207	355	0	0	0	0
208	60	55	0	0	154
210	0	0	96	0	0
214	0	36	0	0	0
218	0	119	150	0	0

221	120	46	0	0	0
234	288	48	0	0	0
237	370	70	0	238	0
241	58	42	0	0	0
244	0	130	0	0	0
249	0	98	0	0	0
250	263	0	0	0	0
269	370	30	0	0	0
287	0	0	0	0	0
288	0	0	0	0	0
291	0	184	0	0	0
293	0	250	0	0	0
307	0	144	0	0	0
308	158	0	0	0	0
310	190	63	0	0	0
319	233	48	0	0	0
328	0	60	268	0	0
330	155	0	0	0	0
335	670	0	0	0	0
342	0	0	0	0	0
346	0	0	0	0	0
347	0	40	0	0	0
351	0	80	0	0	184
356	120	26	0	0	0

360	0	0	0	0	192
361	0	0	0	0	0
364	306	111	0	0	0
366	0	76	0	0	185
369	364	17	0	0	182
370	100	40	0	0	0
375	0	0	0	0	0
384	216	231	0	0	0
386	0	151	0	0	0
392	0	0	0	0	0
393	0	0	0	0	0
404	0	40	0	0	0
405	120	78	0	0	0
412	0	144	0	0	0
421	240	0	0	0	0
426	80	0	0	0	396
431	0	98	0	0	0
434	88	0	0	0	0
441	0	0	0	0	0
447	89	0	0	0	0
452	144	122	0	0	0
457	224	137	0	0	0
458	192	63	0	0	0
459	0	0	248	0	0

464	0	0	0	0	0
465	144	20	0	0	0
470	0	54	0	0	140
484	0	132	0	0	0
490	141	24	0	0	0
495	0	523	115	0	0
496	264	75	291	0	0
516	0	104	0	0	0
518	0	36	0	0	0
520	220	114	210	0	0
528	0	0	144	0	0
529	0	0	200	0	0
533	0	0	0	0	0
535	85	0	148	0	0
537	216	0	0	0	0
538	466	0	0	0	0
539	180	0	0	0	0
541	0	56	0	0	0
545	0	0	0	0	0
559	143	20	0	0	0
560	0	0	0	0	95
562	144	0	0	0	0
564	0	40	0	0	0
569	42	0	0	0	0

580	216	110	0	0	0
582	0	32	0	0	0
593	140	0	0	0	0
610	253	142	0	0	0
611	0	0	0	0	0
612	160	122	0	0	0
613	0	30	0	0	0
614	96	24	0	0	0
616	100	75	0	0	0
620	0	0	100	0	0
623	0	32	0	0	0
626	0	0	36	0	0
635	0	110	0	0	0
636	0	0	0	0	0
638	328	0	164	0	0
641	0	235	0	0	0
645	0	312	40	0	0
649	0	0	0	0	0
650	0	0	0	0	0
660	0	113	252	0	0
666	0	265	0	0	0
668	304	0	0	0	0
672	198	42	0	0	0
679	0	0	0	0	0

682	307	0	0	0	0
685	219	0	0	0	0
687	0	60	0	0	0
690	149	0	0	0	0
705	0	0	0	0	0
706	380	48	0	0	0
709	0	0	0	0	0
710	0	0	0	0	0
714	0	44	0	0	0
720	114	28	234	0	0
721	160	0	0	0	0
726	292	44	0	182	0
734	147	0	0	0	0
738	120	0	0	0	0
745	0	204	0	0	0
746	224	54	0	0	0
750	0	160	0	0	0
751	0	48	0	0	0
757	335	0	0	0	0
770	120	0	0	0	0
783	303	30	0	0	0
784	0	291	134	0	0
785	0	0	0	0	197
789	133	168	0	0	0

791	120	0	0	0	0
794	143	46	0	0	0
811	140	0	0	0	0
816	0	0	120	0	0
817	150	59	0	0	0
822	100	48	0	0	0
826	0	0	116	0	0
828	486	0	0	0	225
840	0	0	254	0	0
843	0	0	0	0	0
845	0	0	0	0	0
851	143	20	0	0	0
853	180	0	0	0	0
855	0	104	0	0	0
856	0	0	34	0	0
859	0	65	0	0	222
865	0	0	0	0	0
868	120	144	0	0	0
879	0	0	0	0	0
882	342	40	0	0	0
893	511	116	0	0	0
900	0	0	0	0	0
904	0	0	0	0	0
908	164	0	0	0	0

911	173	0	0	0	0
917	0	0	0	0	0
921	0	70	0	0	0
925	180	0	0	0	0
927	0	43	0	0	0
928	202	151	0	0	0
929	0	0	0	0	0
936	0	41	0	0	0
939	56	0	318	0	0
941	0	0	0	168	0
942	321	0	0	0	0
944	0	118	0	0	233
953	305	189	0	0	0
954	0	0	0	0	0
960	117	0	0	0	0
961	550	282	0	0	0
967	0	0	0	0	0
968	0	0	0	0	0
970	0	0	0	0	0
973	0	120	0	0	0
975	153	50	0	0	0
976	0	0	0	0	0
977	0	116	0	0	0
980	144	76	0	0	0

983	0	0	0	0	0
988	0	224	0	0	0
996	0	319	0	0	0
997	371	0	0	0	0
1003	0	0	0	0	0
1006	0	0	0	0	147
1009	0	0	138	0	0
1011	0	0	0	0	0
1017	63	0	0	0	0
1018	164	0	0	0	0
1024	0	72	174	0	0
1030	0	0	228	0	0
1032	209	55	0	0	0
1033	0	136	0	0	0
1035	186	0	0	0	0
1037	0	45	0	0	189
1038	0	0	0	0	0
1041	0	40	0	0	0
1045	0	0	0	0	0
1057	168	98	0	0	0
1059	0	0	19	0	0
1064	0	58	0	0	0
1077	240	32	0	0	0
1084	315	44	0	0	0

1086	120	96	0	0	0
1096	136	0	115	0	0
1097	0	74	137	0	0
1108	100	48	0	0	0
1110	224	84	0	0	0
1116	120	0	0	0	0
1122	64	0	0	0	160
1123	0	200	0	0	0
1124	100	25	0	0	0
1131	0	28	0	0	0
1137	0	0	176	0	0
1138	264	32	0	0	0
1141	448	96	0	0	0
1143	0	24	0	0	0
1146	165	26	0	0	0
1148	0	0	176	0	0
1153	0	0	96	0	0
1154	60	84	0	0	273
1161	108	0	0	216	0
1164	168	180	0	0	0
1173	122	0	0	0	0
1177	0	0	116	0	0
1179	0	36	190	0	0
1180	0	0	0	0	0

1190	439	0	0	0	0
1193	0	304	0	0	0
1206	0	42	0	0	0
1213	88	0	0	0	0
1218	0	0	0	0	0
1219	201	0	0	0	0
1230	155	24	145	0	0
1233	0	0	0	0	0
1234	0	192	0	0	0
1243	216	229	0	0	0
1244	0	0	0	0	0
1247	0	0	0	0	0
1251	148	36	0	0	0
1253	220	47	0	0	0
1257	0	96	0	0	0
1260	0	103	0	0	0
1262	120	0	0	0	0
1268	314	12	0	0	0
1270	268	0	0	0	0
1271	0	0	0	0	0
1272	180	0	0	0	0
1276	294	116	0	0	0
1277	0	0	0	0	0
1278	0	211	0	0	0

1283	128	0	0	0	0
1286	0	26	0	0	0
1287	168	198	0	0	0
1290	227	0	0	0	0
1300	0	0	0	0	0
1301	0	0	0	0	224
1309	112	51	0	0	0
1312	500	0	0	0	0
1318	198	150	0	0	0
1321	0	0	0	0	0
1323	164	0	0	0	0
1325	0	0	100	0	0
1326	0	0	286	0	0
1337	0	20	0	0	0
1342	192	87	0	0	0
1346	0	80	0	290	0
1348	402	25	0	0	0
1349	0	54	20	0	0
1354	0	184	0	0	0
1356	0	0	0	0	0
1357	0	0	0	0	0
1358	0	32	0	0	0
1362	55	0	0	0	0
1365	0	96	0	0	0

1368	140	0	0	0	0
1373	314	140	0	0	0
1381	0	42	0	0	0
1383	0	0	112	0	0
1396	0	0	50	0	0
1407	0	0	0	0	0
1417	0	126	0	0	0
1419	0	73	216	0	0
1423	586	236	0	0	0
1424	316	28	0	0	0
1429	0	0	99	0	0
1431	0	60	0	0	0
1441	149	0	0	0	0
1443	0	98	0	0	40
1446	261	39	0	0	0
1449	0	0	0	0	0
1450	32	45	0	0	0
1453	36	56	0	0	0

	PoolArea	MiscVal	MoSold	YrSold	SalePrice
7	0	350	11	2009	200000
12	0	0	9	2008	144000
14	0	0	5	2008	157000
16	0	700	3	2010	149000
24	0	0	5	2010	154000
31	0	0	6	2008	149350
39	0	0	6	2008	82000
42	0	0	12	2007	144000
43	0	0	7	2008	130250
48	0	0	6	2009	113000

50	0	0	7	2007	177000
64	0	0	2	2009	219500
66	0	0	7	2010	180000
76	0	0	4	2008	135750
78	0	0	4	2010	136500
84	0	700	5	2009	168500
88	0	0	10	2009	85000
89	0	0	8	2007	123600
95	0	480	4	2009	185000
99	0	400	1	2010	128950
100	0	0	2	2010	205000
104	0	0	6	2007	169500
108	0	0	8	2007	115000
111	0	0	4	2010	180000
113	0	0	10	2007	217000
116	0	0	9	2009	139000
120	0	0	10	2006	180000
125	0	0	6	2006	84500
126	0	0	2	2007	128000
127	0	0	6	2007	87000
131	0	0	7	2009	244000
133	0	0	6	2009	220000
136	0	0	7	2007	143000
140	0	0	4	2010	115000
147	0	0	5	2010	222500
148	0	0	4	2008	141000
149	0	0	4	2006	115000
152	0	0	6	2006	190000
153	0	0	3	2008	235000
155	0	0	4	2008	79000
160	0	0	6	2008	162500
163	0	0	4	2007	103200
165	0	0	9	2008	127500
166	0	0	11	2009	190000
169	0	0	1	2006	228000
170	0	0	5	2007	128500
177	0	0	7	2006	172500
180	0	0	6	2007	177000
186	0	0	6	2009	173000
191	0	0	6	2007	184000
198	0	0	7	2009	104000
203	0	0	1	2008	149000
207	0	0	4	2008	141000
208	0	0	4	2007	277000
210	0	0	4	2008	98000
214	0	450	3	2010	161750
218	0	0	5	2008	311500
221	0	0	12	2009	200000
234	0	0	5	2010	216500
237	0	0	2	2010	194500

241	0	0	8	2007	110500
244	0	0	5	2010	205000
249	0	500	6	2007	277000
250	0	450	5	2010	76500
269	0	0	5	2007	148000
287	0	0	6	2006	88000
288	0	0	2	2010	122000
291	0	0	3	2008	135900
293	0	0	3	2006	235000
307	0	0	3	2008	89500
308	0	0	3	2009	82500
310	0	0	5	2006	165600
319	0	0	6	2009	187500
328	0	0	7	2009	214500
330	0	0	11	2007	119000
335	0	700	8	2008	228950
342	0	0	5	2006	87500
346	0	15500	4	2007	151500
347	0	0	12	2009	157500
351	0	0	12	2006	190000
356	0	0	7	2009	173000
360	0	0	6	2007	156000
361	0	0	7	2008	145000
364	0	0	7	2006	190000
366	0	0	7	2009	159000
369	0	0	3	2010	162000
370	0	0	1	2006	172400
375	0	0	3	2009	61000
384	0	0	6	2007	240000
386	0	0	5	2006	81000
392	0	1200	7	2007	106500
393	0	0	4	2006	100000
404	0	0	5	2007	168000
405	0	0	6	2009	150000
412	0	0	6	2010	222000
421	0	0	6	2009	215000
426	0	0	8	2009	275000
431	0	0	9	2008	79900
434	0	0	6	2008	81000
441	0	0	9	2008	118000
447	0	0	7	2006	199900
452	0	0	7	2007	204000
457	0	0	3	2008	256000
458	0	0	6	2008	161000
459	0	0	7	2009	110000
464	0	0	8	2009	124000
465	0	0	5	2006	178740
470	0	0	6	2010	212000
484	0	0	3	2007	132500
490	0	0	6	2008	115000

495	0	0	11	2009	34900
496	0	0	5	2007	430000
516	0	0	8	2009	158000
518	0	0	5	2007	211000
520	0	0	8	2008	106250
528	0	0	7	2007	86000
529	0	0	3	2007	200624
533	0	0	1	2007	39300
535	0	0	1	2008	107500
537	0	0	4	2008	111250
538	0	0	7	2006	158000
539	0	2000	5	2010	272000
541	0	0	6	2007	248000
545	0	0	2	2006	229000
559	0	0	10	2006	234000
560	0	0	5	2010	121500
562	0	0	7	2008	108000
564	0	0	7	2006	268000
569	0	0	12	2006	135960
580	0	0	6	2007	181900
582	0	0	5	2007	118500
593	0	0	5	2009	140000
610	0	0	5	2009	313000
611	0	500	7	2007	148000
612	0	0	11	2009	261500
613	0	0	12	2007	147000
614	0	0	5	2010	75500
616	0	0	6	2006	183200
620	0	0	9	2008	67000
623	0	0	6	2007	168500
626	0	600	8	2007	139900
635	0	0	3	2007	200000
636	0	0	1	2009	60000
638	0	0	5	2008	85000
641	0	0	5	2007	226000
645	0	0	3	2007	143250
649	0	0	12	2007	84500
650	0	0	5	2008	205950
660	0	0	11	2007	197900
666	0	0	8	2007	129000
668	0	0	11	2006	168000
672	0	0	6	2006	165000
679	0	0	10	2007	128500
682	0	0	11	2008	173000
685	0	0	9	2007	207500
687	0	0	3	2007	148800
690	0	0	5	2008	141000
705	0	3500	7	2010	55000
706	0	0	6	2007	302000
709	0	0	12	2008	109900

710	0	0	7	2008	52000
714	0	0	3	2010	130500
720	0	0	12	2006	275000
721	0	0	5	2010	143000
726	0	0	12	2009	222000
734	0	0	5	2007	108000
738	0	0	3	2009	179000
745	0	0	7	2008	299800
746	0	0	4	2009	236000
750	0	0	6	2010	96500
751	0	0	8	2007	162000
757	0	0	4	2010	158900
770	0	0	4	2009	134900
783	0	0	7	2009	165500
784	0	0	6	2008	128000
785	0	0	9	2009	161500
789	0	0	7	2007	187500
791	0	0	5	2007	146800
794	0	500	10	2008	194500
811	0	0	6	2008	144500
816	0	0	7	2006	137000
817	0	0	7	2008	271000
822	0	0	10	2007	225000
826	0	0	5	2008	109500
828	0	0	6	2009	185000
840	0	0	3	2008	140000
843	0	0	7	2007	141000
845	0	0	1	2007	171000
851	0	0	5	2006	215000
853	0	0	8	2009	158000
855	0	0	4	2010	127000
856	0	0	10	2008	147000
859	0	0	8	2006	250000
865	0	0	8	2009	148500
868	0	0	5	2006	169000
879	0	0	7	2009	136500
882	0	0	12	2009	178000
893	0	0	6	2008	165000
900	0	0	6	2007	110000
904	0	0	8	2007	125500
908	0	0	6	2006	131000
911	0	0	10	2009	143500
917	0	0	4	2009	135000
921	0	0	9	2008	145900
925	0	0	3	2008	175000
927	0	0	4	2008	176000
928	0	0	6	2009	236500
929	0	0	11	2006	222000
936	0	0	8	2009	184900
939	0	0	6	2010	244400

941	0	0	6	2009	214000
942	0	0	8	2007	150000
944	0	0	1	2009	137500
953	0	400	9	2008	172000
954	0	0	10	2006	127500
960	0	0	2	2010	116500
961	0	0	7	2008	272000
967	0	0	7	2008	135000
968	0	0	5	2009	37900
970	0	0	12	2006	135000
973	0	0	12	2008	182000
975	0	0	4	2006	165000
976	0	0	8	2006	85500
977	0	0	11	2007	199900
980	0	0	7	2008	178400
983	0	0	5	2008	255900
988	0	0	6	2007	195000
996	0	0	1	2006	136500
997	0	0	2	2009	185000
1003	0	0	6	2007	136905
1006	0	0	3	2007	163500
1009	0	0	6	2006	102000
1011	0	0	5	2010	100000
1017	0	0	8	2009	187500
1018	0	0	5	2007	160000
1024	0	0	5	2008	287000
1030	0	0	7	2006	160000
1032	0	0	11	2006	310000
1033	0	0	2	2006	230000
1035	0	0	1	2009	84000
1037	0	0	9	2008	287000
1038	0	0	5	2009	97000
1041	0	0	7	2008	173000
1045	0	0	6	2009	139600
1057	0	0	1	2009	248000
1059	0	0	3	2007	220000
1064	0	0	11	2009	154000
1077	0	0	3	2006	138800
1084	0	0	7	2006	187500
1086	0	0	5	2010	83500
1096	0	0	3	2007	127000
1097	0	0	10	2007	170000
1108	0	0	11	2007	181000
1110	0	0	6	2008	188000
1116	0	0	3	2009	184100
1122	0	0	10	2009	112000
1123	0	0	6	2009	118000
1124	0	0	7	2007	163900
1131	0	0	9	2007	93500
1137	0	0	5	2010	94000

1138	0	0	5	2009	196000
1141	0	0	10	2009	197500
1143	0	0	7	2008	80000
1146	0	0	5	2006	180000
1148	0	0	8	2008	116900
1153	0	0	6	2008	120500
1154	0	0	5	2008	201800
1161	0	0	11	2008	224000
1164	0	0	6	2007	194000
1173	0	0	3	2007	200500
1177	0	0	12	2009	115000
1179	0	0	4	2006	93000
1180	0	0	4	2006	250000
1190	0	0	3	2007	168000
1193	0	0	6	2009	165000
1206	0	0	11	2006	107000
1213	0	0	5	2006	145000
1218	0	0	7	2006	80500
1219	0	0	4	2006	91500
1230	0	8300	8	2007	190000
1233	0	0	5	2010	142000
1234	0	0	11	2008	130000
1243	0	0	9	2006	465000
1244	0	0	6	2006	230000
1247	0	0	5	2010	169900
1251	0	0	3	2006	171750
1253	0	0	7	2007	294000
1257	0	0	7	2009	99900
1260	0	0	6	2009	181000
1262	0	0	11	2009	161500
1268	0	0	5	2008	381000
1270	0	0	4	2010	260000
1271	0	0	8	2009	185750
1272	0	0	11	2006	137000
1276	0	0	12	2009	162000
1277	0	0	6	2009	197900
1278	0	0	3	2008	237000
1283	0	0	4	2010	139000
1286	0	0	6	2010	143000
1287	0	0	6	2006	190000
1290	0	0	4	2010	180500
1300	0	0	5	2009	225000
1301	0	0	11	2009	177500
1309	0	0	6	2008	179200
1312	0	0	6	2007	302000
1318	0	0	8	2006	275000
1321	0	0	7	2008	72500
1323	0	0	12	2009	82500
1325	0	0	1	2008	55000
1326	0	0	5	2007	79000

```
1337         0        0       3    2006      52500
1342         0        0       8    2007     228500
1346         0        0       6    2006     262500
1348         0        0       8    2007     215000
1349         0        0      12    2008     122000
1354         0        0       6    2008     235000
1356         0        0      10    2008     110000
1357         0        0       4    2010     149900
1358         0        0       6    2010     177500
1362         0        0       6    2009     104900
1365         0        0       1    2010     216000
1368         0        0       6    2009     144000
1373         0        0       3    2007     466500
1381         0        0       5    2008     237500
1383         0        0       8    2007     112000
1396         0        0       6    2010     160000
1407         0        0       3    2009     112000
1417         0        0       5    2009     340000
1419         0        0      12    2006     223000
1423       738        0       8    2006     274970
1424         0        0       6    2007     144000
1429         0        0       4    2007     182900
1431         0        0      10    2009     143750
1441         0        0       5    2008     149300
1443         0        0       5    2009     121000
1446         0        0       4    2010     157900
1449         0        0       8    2006      92000
1450         0        0       9    2009     136000
1453         0        0       7    2006      84500
```

```
df3_num.isnull().sum()
```

```
Id                 0
MSSubClass         0
LotFrontage      259
LotArea            0
OverallQual        0
OverallCond        0
YearBuilt          0
YearRemodAdd       0
MasVnrArea         8
BsmtFinSF1         0
BsmtFinSF2         0
BsmtUnfSF          0
TotalBsmtSF        0
1stFlrSF           0
2ndFlrSF           0
LowQualFinSF       0
GrLivArea          0
BsmtFullBath       0
BsmtHalfBath       0
```

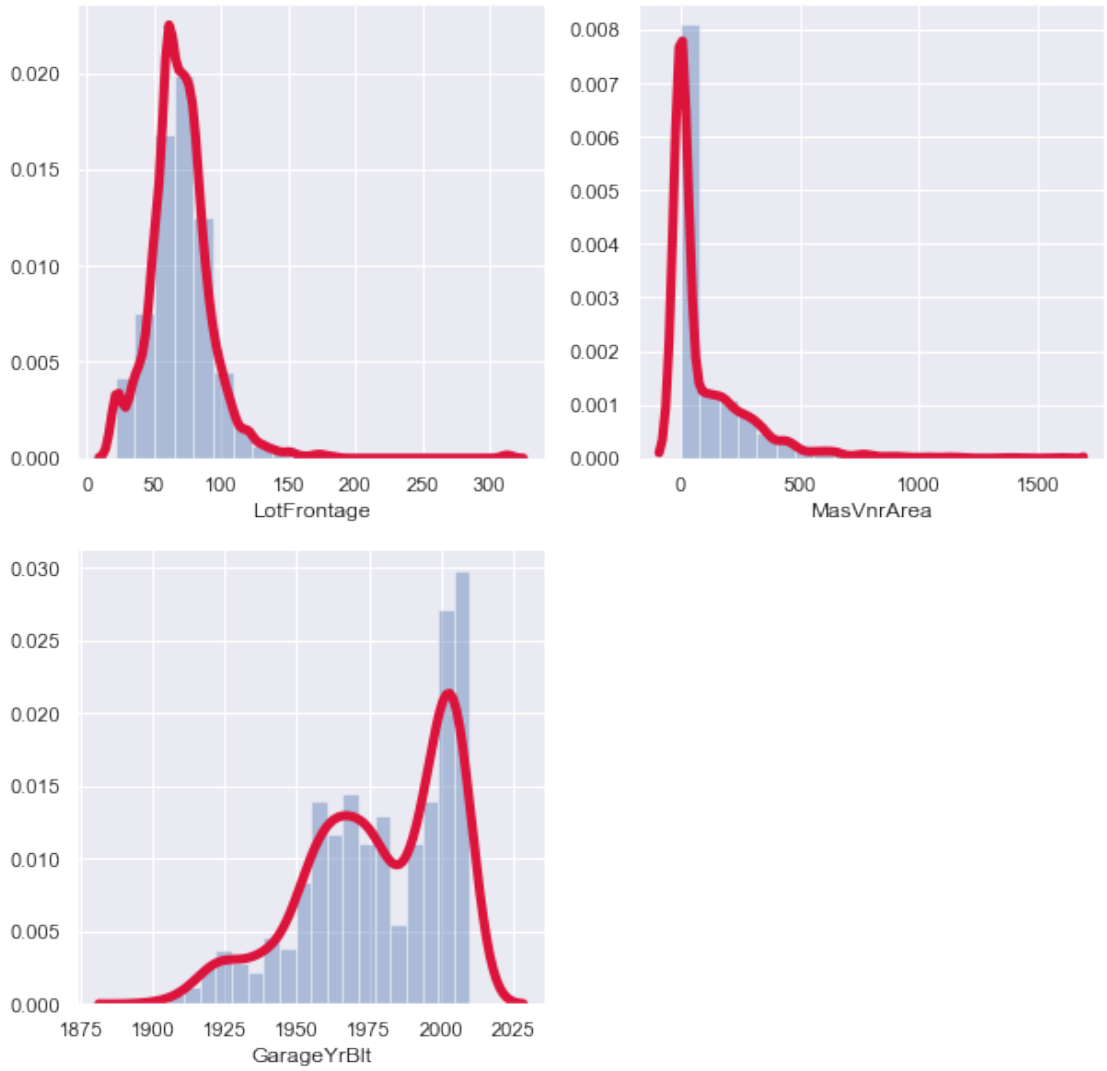
```
FullBath           0
HalfBath           0
BedroomAbvGr       0
KitchenAbvGr       0
TotRmsAbvGrd       0
Fireplaces         0
GarageYrBlt       81
GarageCars         0
GarageArea         0
WoodDeckSF         0
OpenPorchSF        0
EnclosedPorch      0
3SsnPorch          0
ScreenPorch        0
PoolArea           0
MiscVal            0
MoSold             0
YrSold             0
SalePrice          0
dtype: int64
```

```
missing_num_var = [var for var in df3_num.columns if
df3_num[var].isnull().sum()>0]
missing_num_var
```

```
['LotFrontage', 'MasVnrArea', 'GarageYrBlt']
```

```
plt.figure(figsize=(10,10))
sns.set()
for i, var in enumerate(missing_num_var):
    plt.subplot(2,2,i+1)
    sns.distplot(df3_num[var], bins=20, kde_kws={'linewidth':5,
'color':'#DC143C'})
```

```
C:\ProgramData\Anaconda3\lib\site-packages\numpy\lib\
histograms.py:839: RuntimeWarning: invalid value encountered in
greater_equal
  keep = (tmp_a >= first_edge)
C:\ProgramData\Anaconda3\lib\site-packages\numpy\lib\
histograms.py:840: RuntimeWarning: invalid value encountered in
less_equal
  keep &= (tmp_a <= last_edge)
C:\ProgramData\Anaconda3\lib\site-packages\statsmodels\nonparametric\
kde.py:447: RuntimeWarning: invalid value encountered in greater
  X = X[np.logical_and(X > clip[0], X < clip[1])] # won't work for two
columns.
C:\ProgramData\Anaconda3\lib\site-packages\statsmodels\nonparametric\
kde.py:447: RuntimeWarning: invalid value encountered in less
  X = X[np.logical_and(X > clip[0], X < clip[1])] # won't work for two
columns.
```



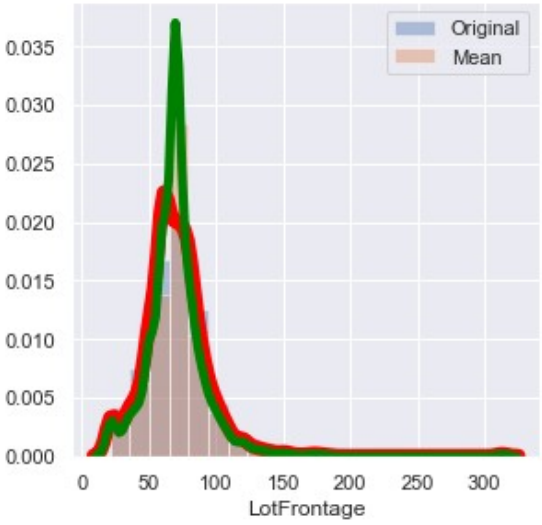

```
df4_num_mean = df3_num.fillna(df3_num.mean())
df4_num_mean.isnull().sum().sum()
```

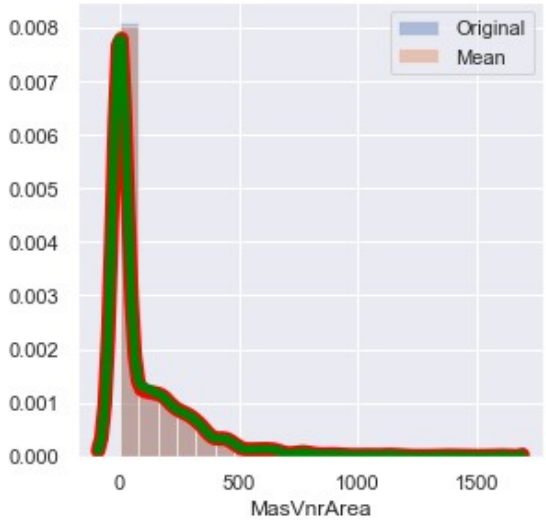
```
0
```

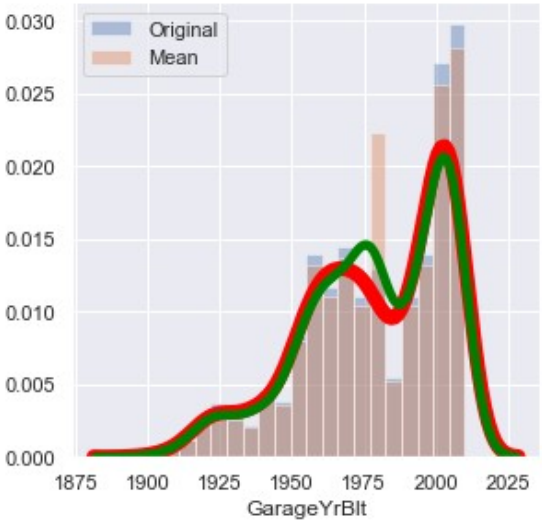
```
plt.figure(figsize=(10,10))
sns.set()
for i, var in enumerate(missing_num_var):
    plt.subplot(2,2,i+1)
    sns.distplot(df3_num[var], bins=20, kde_kws={'linewidth':8,
'color':'red'}, label="Original",)
    sns.distplot(df4_num_mean[var], bins=20, kde_kws={'linewidth':5,
'color':'green'},label="Mean",)
    plt.legend()
```

```
C:\ProgramData\Anaconda3\lib\site-packages\numpy\lib\
histograms.py:839: RuntimeWarning: invalid value encountered in
greater_equal
```

```
  keep = (tmp_a >= first_edge)
C:\ProgramData\Anaconda3\lib\site-packages\numpy\lib\
histograms.py:840: RuntimeWarning: invalid value encountered in
less_equal
  keep &= (tmp_a <= last_edge)
C:\ProgramData\Anaconda3\lib\site-packages\statsmodels\nonparametric\
kde.py:447: RuntimeWarning: invalid value encountered in greater
  X = X[np.logical_and(X > clip[0], X < clip[1])] # won't work for two
columns.
C:\ProgramData\Anaconda3\lib\site-packages\statsmodels\nonparametric\
kde.py:447: RuntimeWarning: invalid value encountered in less
  X = X[np.logical_and(X > clip[0], X < clip[1])] # won't work for two
columns.
```



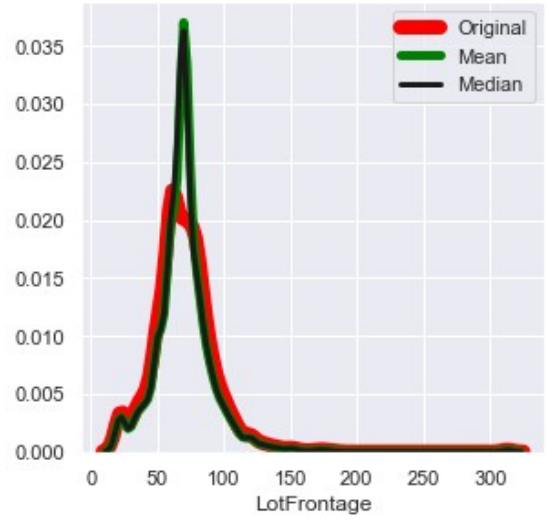


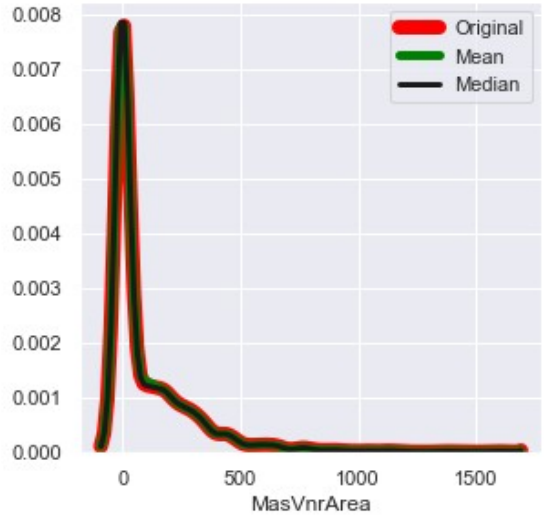


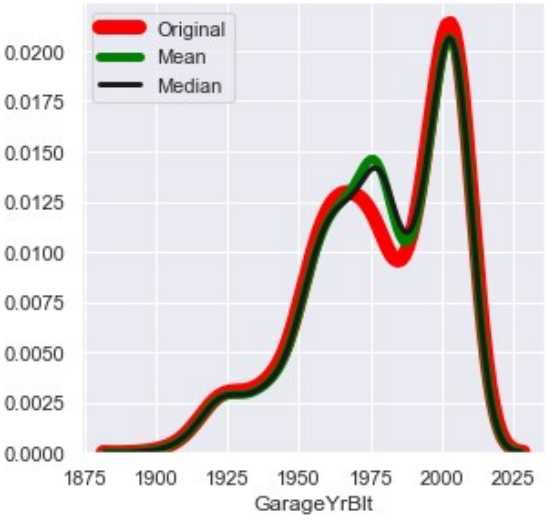

```
df5_num_median = df3_num.fillna(df3_num.median())
df5_num_median.isnull().sum().sum()
```

```
0
```

```
plt.figure(figsize=(10,10))
sns.set()
for i, var in enumerate(missing_num_var):
    plt.subplot(2,2,i+1)
    sns.distplot(df3_num[var], bins=20,hist=False,
kde_kws={'linewidth':8, 'color':'red'}, label="Original",)
    sns.distplot(df4_num_mean[var], bins=20,hist=False,
kde_kws={'linewidth':5, 'color':'green'},label="Mean",)
    sns.distplot(df5_num_median[var], bins=20,hist=False,
kde_kws={'linewidth':3, 'color':'k'},label="Median",)
    plt.legend()
```

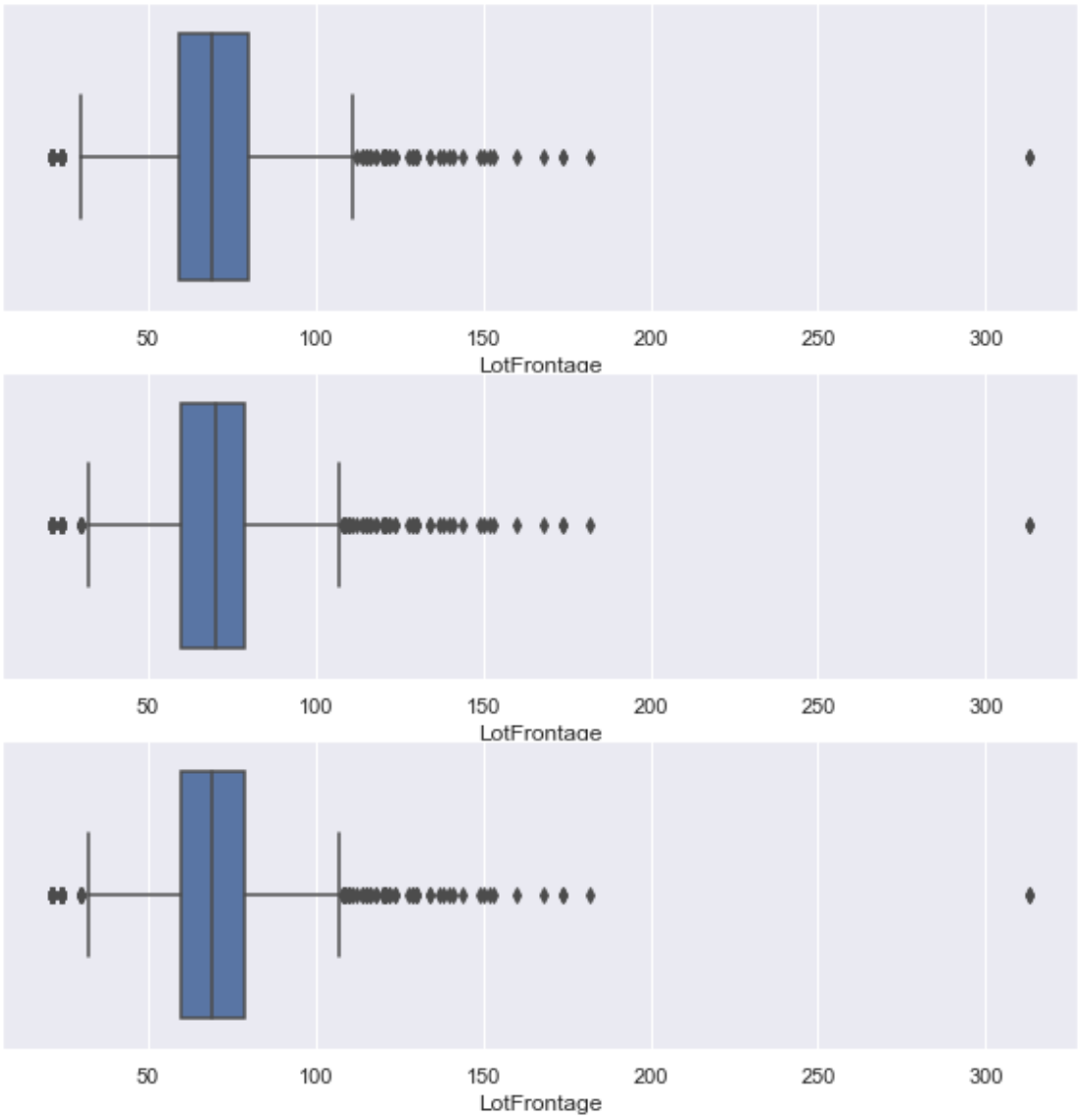


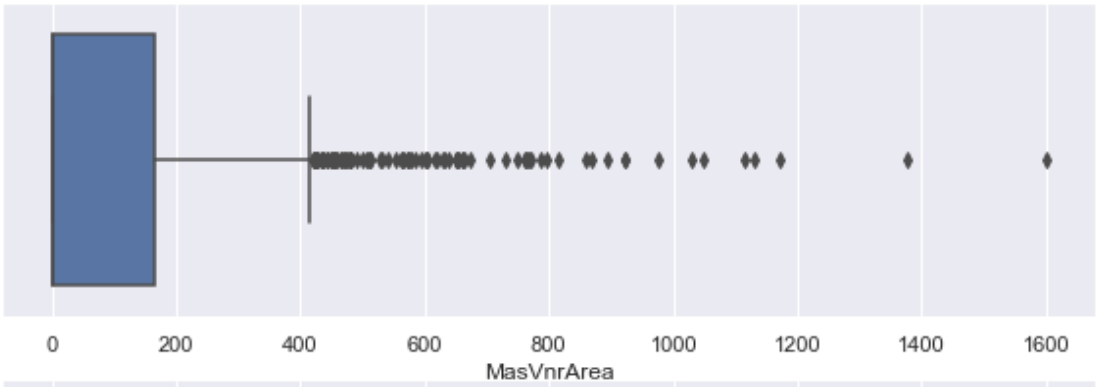


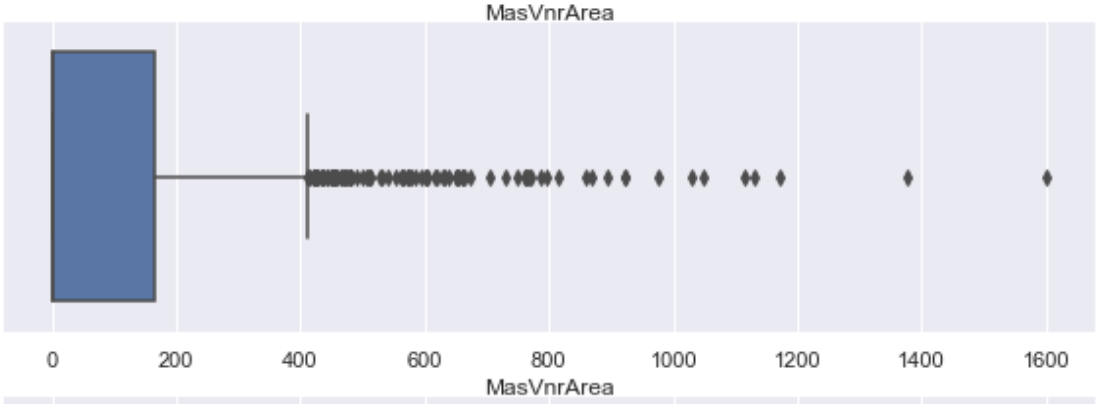


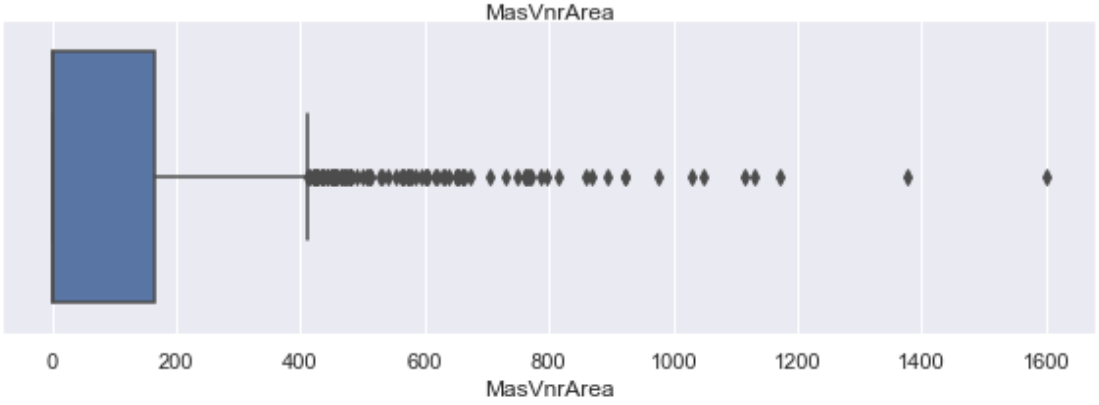

```
for i, var in enumerate(missing_num_var):
    plt.figure(figsize=(10,10))
    plt.subplot(3,1,1)
    sns.boxplot(df[var])
    plt.subplot(3,1,2)
    sns.boxplot(df4_num_mean[var])
```

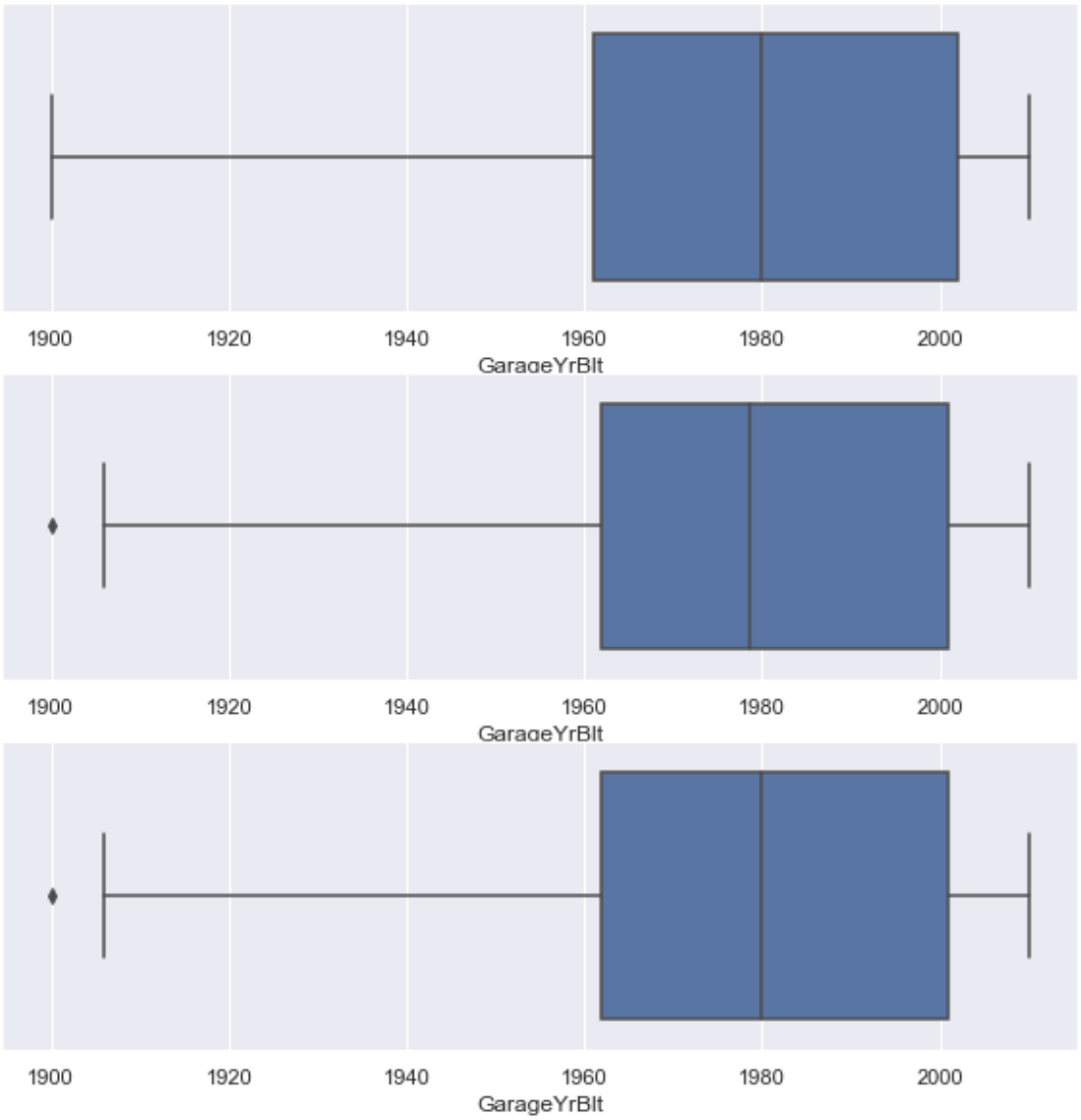
```
plt.subplot(3,1,3)
sns.boxplot(df5_num_median[var])
```




0
200
400
600
800
1000
1200
1400
1600
MasVnrArea


0
200
400
600
800
1000
1200
1400
1600
MasVnrArea


0
200
400
600
800
1000
1200
1400
1600
MasVnrArea




```
df_concat =
pd.concat([df3_num[missing_num_var],df4_num_mean[missing_num_var],df5_
num_median[missing_num_var]], axis=1)

df_concat[df_concat.isnull().any(axis=1)]
```

```
      LotFrontage  MasVnrArea  GarageYrBlt  LotFrontage  MasVnrArea  \
7             NaN       240.0       1973.0    70.049958  240.000000
12            NaN         0.0       1962.0    70.049958    0.000000
14            NaN       212.0       1960.0    70.049958  212.000000
16            NaN       180.0       1970.0    70.049958  180.000000
24            NaN         0.0       1968.0    70.049958    0.000000
31            NaN         0.0       1966.0    70.049958    0.000000
39           65.0         0.0          NaN    65.000000    0.000000
42            NaN         0.0       1983.0    70.049958    0.000000
43            NaN         0.0       1977.0    70.049958    0.000000
```

48	33.0	0.0	NaN	33.000000	0.000000
50	NaN	0.0	1997.0	70.049958	0.000000
64	NaN	573.0	1998.0	70.049958	573.000000
66	NaN	287.0	1970.0	70.049958	287.000000
76	NaN	0.0	1956.0	70.049958	0.000000
78	72.0	0.0	NaN	72.000000	0.000000
84	NaN	22.0	1995.0	70.049958	22.000000
88	105.0	0.0	NaN	105.000000	0.000000
89	60.0	0.0	NaN	60.000000	0.000000
95	NaN	68.0	1993.0	70.049958	68.000000
99	77.0	0.0	NaN	77.000000	0.000000
100	NaN	28.0	1977.0	70.049958	28.000000
104	NaN	600.0	1951.0	70.049958	600.000000
108	85.0	0.0	NaN	85.000000	0.000000
111	NaN	0.0	2000.0	70.049958	0.000000
113	NaN	184.0	1953.0	70.049958	184.000000
116	NaN	116.0	1962.0	70.049958	116.000000
120	NaN	0.0	1969.0	70.049958	0.000000
125	60.0	0.0	NaN	60.000000	0.000000
126	NaN	0.0	1977.0	70.049958	0.000000
127	55.0	0.0	NaN	55.000000	0.000000
131	NaN	40.0	2000.0	70.049958	40.000000
133	NaN	136.0	2001.0	70.049958	136.000000
136	NaN	196.0	1967.0	70.049958	196.000000
140	70.0	0.0	NaN	70.000000	0.000000
147	NaN	180.0	2001.0	70.049958	180.000000
148	63.0	120.0	NaN	63.000000	120.000000
149	NaN	0.0	1936.0	70.049958	0.000000
152	NaN	252.0	1971.0	70.049958	252.000000
153	NaN	0.0	1960.0	70.049958	0.000000
155	60.0	0.0	NaN	60.000000	0.000000
160	NaN	0.0	1984.0	70.049958	0.000000
163	55.0	0.0	NaN	55.000000	0.000000
165	62.0	0.0	NaN	62.000000	0.000000
166	NaN	0.0	1955.0	70.049958	0.000000
169	NaN	653.0	1981.0	70.049958	653.000000
170	NaN	0.0	1991.0	70.049958	0.000000
177	NaN	0.0	1958.0	70.049958	0.000000
180	NaN	456.0	2000.0	70.049958	456.000000
186	NaN	0.0	1990.0	70.049958	0.000000
191	NaN	138.0	1972.0	70.049958	138.000000
198	92.0	0.0	NaN	92.000000	0.000000
203	NaN	205.0	2004.0	70.049958	205.000000
207	NaN	0.0	1960.0	70.049958	0.000000
208	NaN	128.0	1988.0	70.049958	128.000000
210	67.0	0.0	NaN	67.000000	0.000000
214	NaN	153.0	1977.0	70.049958	153.000000
218	NaN	312.0	1939.0	70.049958	312.000000
221	NaN	0.0	2002.0	70.049958	0.000000
234	NaN	NaN	2002.0	70.049958	103.685262

237	NaN	0.0	1993.0	70.049958	0.000000
241	40.0	0.0	NaN	40.000000	0.000000
244	NaN	0.0	1994.0	70.049958	0.000000
249	NaN	472.0	1958.0	70.049958	472.000000
250	55.0	0.0	NaN	55.000000	0.000000
269	NaN	174.0	1987.0	70.049958	174.000000
287	NaN	0.0	NaN	70.049958	0.000000
288	NaN	31.0	1970.0	70.049958	31.000000
291	55.0	0.0	NaN	55.000000	0.000000
293	NaN	34.0	1977.0	70.049958	34.000000
307	NaN	0.0	NaN	70.049958	0.000000
308	NaN	0.0	1961.0	70.049958	0.000000
310	NaN	112.0	1993.0	70.049958	112.000000
319	NaN	225.0	1980.0	70.049958	225.000000
328	NaN	0.0	1930.0	70.049958	0.000000
330	NaN	84.0	2002.0	70.049958	84.000000
335	NaN	0.0	1965.0	70.049958	0.000000
342	NaN	340.0	1949.0	70.049958	340.000000
346	NaN	0.0	1960.0	70.049958	0.000000
347	NaN	30.0	1960.0	70.049958	30.000000
351	NaN	0.0	1986.0	70.049958	0.000000
356	NaN	106.0	1992.0	70.049958	106.000000
360	NaN	0.0	1978.0	70.049958	0.000000
361	NaN	0.0	1940.0	70.049958	0.000000
364	NaN	120.0	1976.0	70.049958	120.000000
366	NaN	247.0	1963.0	70.049958	247.000000
369	NaN	0.0	1997.0	70.049958	0.000000
370	NaN	0.0	2000.0	70.049958	0.000000
375	NaN	0.0	NaN	70.049958	0.000000
384	NaN	0.0	1992.0	70.049958	0.000000
386	58.0	0.0	NaN	58.000000	0.000000
392	NaN	0.0	1959.0	70.049958	0.000000
393	NaN	0.0	NaN	70.049958	0.000000
404	NaN	0.0	1995.0	70.049958	0.000000
405	NaN	0.0	1993.0	70.049958	0.000000
412	NaN	432.0	2009.0	70.049958	432.000000
421	NaN	126.0	1977.0	70.049958	126.000000
426	NaN	145.0	1989.0	70.049958	145.000000
431	60.0	0.0	NaN	60.000000	0.000000
434	21.0	0.0	NaN	21.000000	0.000000
441	92.0	270.0	NaN	92.000000	270.000000
447	NaN	0.0	1998.0	70.049958	0.000000
452	NaN	42.0	1996.0	70.049958	42.000000
457	NaN	0.0	1954.0	70.049958	0.000000
458	NaN	0.0	1925.0	70.049958	0.000000
459	NaN	161.0	1950.0	70.049958	161.000000
464	60.0	136.0	NaN	60.000000	136.000000
465	NaN	18.0	2004.0	70.049958	18.000000
470	NaN	0.0	1985.0	70.049958	0.000000
484	NaN	0.0	1963.0	70.049958	0.000000

490	NaN	0.0	1976.0	70.049958	0.000000
495	60.0	0.0	NaN	60.000000	0.000000
496	NaN	0.0	1992.0	70.049958	0.000000
516	NaN	333.0	1972.0	70.049958	333.000000
518	NaN	0.0	1998.0	70.049958	0.000000
520	60.0	0.0	NaN	60.000000	0.000000
528	58.0	0.0	NaN	58.000000	0.000000
529	NaN	NaN	1975.0	70.049958	103.685262
533	50.0	0.0	NaN	50.000000	0.000000
535	70.0	0.0	NaN	70.000000	0.000000
537	NaN	0.0	1980.0	70.049958	0.000000
538	NaN	188.0	1968.0	70.049958	188.000000
539	NaN	479.0	2001.0	70.049958	479.000000
541	NaN	72.0	2000.0	70.049958	72.000000
545	NaN	178.0	1988.0	70.049958	178.000000
559	NaN	18.0	2003.0	70.049958	18.000000
560	NaN	180.0	1957.0	70.049958	180.000000
562	63.0	0.0	NaN	63.000000	0.000000
564	NaN	0.0	1992.0	70.049958	0.000000
569	NaN	0.0	1979.0	70.049958	0.000000
580	NaN	85.0	1960.0	70.049958	85.000000
582	81.0	104.0	NaN	81.000000	104.000000
593	NaN	170.0	2003.0	70.049958	170.000000
610	NaN	204.0	2000.0	70.049958	204.000000
611	NaN	233.0	1978.0	70.049958	233.000000
612	NaN	108.0	2001.0	70.049958	108.000000
613	70.0	0.0	NaN	70.000000	0.000000
614	21.0	0.0	NaN	21.000000	0.000000
616	NaN	0.0	2002.0	70.049958	0.000000
620	45.0	0.0	NaN	45.000000	0.000000
623	NaN	513.0	2000.0	70.049958	513.000000
626	NaN	0.0	1960.0	70.049958	0.000000
635	60.0	0.0	NaN	60.000000	0.000000
636	51.0	0.0	NaN	51.000000	0.000000
638	67.0	0.0	NaN	67.000000	0.000000
641	NaN	0.0	2001.0	70.049958	0.000000
645	NaN	0.0	1979.0	70.049958	0.000000
649	21.0	0.0	NaN	21.000000	0.000000
650	65.0	NaN	2007.0	65.000000	103.685262
660	NaN	233.0	1976.0	70.049958	233.000000
666	NaN	113.0	1965.0	70.049958	113.000000
668	NaN	0.0	1999.0	70.049958	0.000000
672	NaN	0.0	1977.0	70.049958	0.000000
679	NaN	57.0	1963.0	70.049958	57.000000
682	NaN	0.0	1996.0	70.049958	0.000000
685	NaN	0.0	1984.0	70.049958	0.000000
687	NaN	0.0	2004.0	70.049958	0.000000
690	NaN	147.0	2004.0	70.049958	147.000000
705	70.0	0.0	NaN	70.000000	0.000000
706	NaN	351.0	1971.0	70.049958	351.000000

709	NaN	41.0	1966.0	70.049958	41.000000
710	56.0	0.0	NaN	56.000000	0.000000
714	NaN	289.0	1976.0	70.049958	289.000000
720	NaN	0.0	1985.0	70.049958	0.000000
721	NaN	169.0	2004.0	70.049958	169.000000
726	NaN	260.0	1988.0	70.049958	260.000000
734	NaN	0.0	1968.0	70.049958	0.000000
738	60.0	0.0	NaN	60.000000	0.000000
745	NaN	289.0	1994.0	70.049958	289.000000
746	NaN	0.0	2000.0	70.049958	0.000000
750	55.0	0.0	NaN	55.000000	0.000000
751	NaN	0.0	2003.0	70.049958	0.000000
757	NaN	328.0	1978.0	70.049958	328.000000
770	NaN	0.0	1983.0	70.049958	0.000000
783	NaN	104.0	1978.0	70.049958	104.000000
784	35.0	0.0	NaN	35.000000	0.000000
785	NaN	0.0	1967.0	70.049958	0.000000
789	NaN	157.0	1966.0	70.049958	157.000000
791	NaN	0.0	1976.0	70.049958	0.000000
794	NaN	0.0	1994.0	70.049958	0.000000
811	NaN	169.0	2004.0	70.049958	169.000000
816	NaN	0.0	1954.0	70.049958	0.000000
817	NaN	148.0	2002.0	70.049958	148.000000
822	NaN	0.0	2003.0	70.049958	0.000000
826	50.0	0.0	NaN	50.000000	0.000000
828	NaN	0.0	1967.0	70.049958	0.000000
840	NaN	0.0	1934.0	70.049958	0.000000
843	80.0	0.0	NaN	80.000000	0.000000
845	NaN	0.0	1975.0	70.049958	0.000000
851	NaN	40.0	2003.0	70.049958	40.000000
853	NaN	115.0	1964.0	70.049958	115.000000
855	NaN	0.0	1962.0	70.049958	0.000000
856	NaN	0.0	1981.0	70.049958	0.000000
859	NaN	220.0	1968.0	70.049958	220.000000
865	NaN	76.0	1973.0	70.049958	76.000000
868	NaN	0.0	1979.0	70.049958	0.000000
879	NaN	90.0	1978.0	70.049958	90.000000
882	NaN	0.0	1993.0	70.049958	0.000000
893	NaN	0.0	1954.0	70.049958	0.000000
900	NaN	0.0	1979.0	70.049958	0.000000
904	NaN	75.0	1967.0	70.049958	75.000000
908	NaN	0.0	1983.0	70.049958	0.000000
911	NaN	0.0	1978.0	70.049958	0.000000
917	NaN	0.0	1956.0	70.049958	0.000000
921	67.0	0.0	NaN	67.000000	0.000000
925	NaN	0.0	1977.0	70.049958	0.000000
927	NaN	342.0	1968.0	70.049958	342.000000
928	NaN	0.0	2001.0	70.049958	0.000000
929	NaN	285.0	1997.0	70.049958	285.000000
936	67.0	NaN	2003.0	67.000000	103.685262

939	NaN	0.0	1940.0	70.049958	0.000000
941	NaN	298.0	1999.0	70.049958	298.000000
942	42.0	0.0	NaN	42.000000	0.000000
944	NaN	541.0	1958.0	70.049958	541.000000
953	NaN	232.0	1969.0	70.049958	232.000000
954	35.0	250.0	NaN	35.000000	250.000000
960	50.0	0.0	NaN	50.000000	0.000000
961	NaN	424.0	1977.0	70.049958	424.000000
967	NaN	151.0	1955.0	70.049958	151.000000
968	50.0	0.0	NaN	50.000000	0.000000
970	60.0	0.0	NaN	60.000000	0.000000
973	95.0	NaN	2007.0	95.000000	103.685262
975	NaN	0.0	2000.0	70.049958	0.000000
976	51.0	0.0	NaN	51.000000	0.000000
977	35.0	NaN	2007.0	35.000000	103.685262
980	NaN	210.0	1961.0	70.049958	210.000000
983	NaN	0.0	2002.0	70.049958	0.000000
988	NaN	298.0	1976.0	70.049958	298.000000
996	NaN	0.0	1961.0	70.049958	0.000000
997	NaN	571.0	1970.0	70.049958	571.000000
1003	NaN	164.0	1976.0	70.049958	164.000000
1006	NaN	0.0	1970.0	70.049958	0.000000
1009	60.0	0.0	NaN	60.000000	0.000000
1011	75.0	0.0	NaN	75.000000	0.000000
1017	NaN	0.0	1984.0	70.049958	0.000000
1018	NaN	76.0	1991.0	70.049958	76.000000
1024	NaN	0.0	1976.0	70.049958	0.000000
1030	NaN	0.0	NaN	70.049958	0.000000
1032	NaN	0.0	1993.0	70.049958	0.000000
1033	NaN	295.0	2002.0	70.049958	295.000000
1035	NaN	0.0	1957.0	70.049958	0.000000
1037	NaN	396.0	2001.0	70.049958	396.000000
1038	21.0	0.0	NaN	21.000000	0.000000
1041	NaN	252.0	1966.0	70.049958	252.000000
1045	NaN	0.0	1955.0	70.049958	0.000000
1057	NaN	0.0	1994.0	70.049958	0.000000
1059	NaN	480.0	1977.0	70.049958	480.000000
1064	NaN	200.0	1966.0	70.049958	200.000000
1077	NaN	0.0	1969.0	70.049958	0.000000
1084	NaN	0.0	1995.0	70.049958	0.000000
1086	NaN	0.0	1973.0	70.049958	0.000000
1096	60.0	0.0	NaN	60.000000	0.000000
1097	NaN	0.0	1987.0	70.049958	0.000000
1108	NaN	0.0	2000.0	70.049958	0.000000
1110	NaN	0.0	1995.0	70.049958	0.000000
1116	NaN	0.0	2002.0	70.049958	0.000000
1122	NaN	0.0	1956.0	70.049958	0.000000
1123	50.0	0.0	NaN	50.000000	0.000000
1124	NaN	170.0	1992.0	70.049958	170.000000
1131	63.0	0.0	NaN	63.000000	0.000000

1137	54.0	0.0	NaN	54.000000	0.000000
1138	NaN	0.0	1977.0	70.049958	0.000000
1141	NaN	44.0	1976.0	70.049958	44.000000
1143	NaN	0.0	NaN	70.049958	0.000000
1146	NaN	85.0	1985.0	70.049958	85.000000
1148	NaN	0.0	1982.0	70.049958	0.000000
1153	NaN	0.0	2002.0	70.049958	0.000000
1154	NaN	288.0	1965.0	70.049958	288.000000
1161	NaN	72.0	1993.0	70.049958	72.000000
1164	NaN	0.0	1978.0	70.049958	0.000000
1173	138.0	0.0	NaN	138.000000	0.000000
1177	NaN	0.0	1926.0	70.049958	0.000000
1179	77.0	0.0	NaN	77.000000	0.000000
1180	NaN	0.0	1990.0	70.049958	0.000000
1190	NaN	149.0	1975.0	70.049958	149.000000
1193	NaN	425.0	1999.0	70.049958	425.000000
1206	NaN	0.0	1966.0	70.049958	0.000000
1213	NaN	0.0	1965.0	70.049958	0.000000
1218	52.0	0.0	NaN	52.000000	0.000000
1219	21.0	236.0	NaN	21.000000	236.000000
1230	NaN	1.0	1977.0	70.049958	1.000000
1233	NaN	180.0	1959.0	70.049958	180.000000
1234	55.0	0.0	NaN	55.000000	0.000000
1243	107.0	NaN	2006.0	107.000000	103.685262
1244	NaN	0.0	1931.0	70.049958	0.000000
1247	NaN	335.0	1976.0	70.049958	335.000000
1251	NaN	163.0	2003.0	70.049958	163.000000
1253	NaN	0.0	1974.0	70.049958	0.000000
1257	56.0	0.0	NaN	56.000000	0.000000
1260	NaN	0.0	1999.0	70.049958	0.000000
1262	NaN	0.0	1957.0	70.049958	0.000000
1268	NaN	632.0	1982.0	70.049958	632.000000
1270	NaN	0.0	1979.0	70.049958	0.000000
1271	NaN	0.0	1968.0	70.049958	0.000000
1272	NaN	114.0	1965.0	70.049958	114.000000
1276	NaN	0.0	1972.0	70.049958	0.000000
1277	NaN	359.0	1967.0	70.049958	359.000000
1278	75.0	NaN	2002.0	75.000000	103.685262
1283	94.0	0.0	NaN	94.000000	0.000000
1286	NaN	451.0	1963.0	70.049958	451.000000
1287	NaN	621.0	1964.0	70.049958	621.000000
1290	NaN	86.0	1964.0	70.049958	86.000000
1300	NaN	344.0	1999.0	70.049958	344.000000
1301	NaN	0.0	1942.0	70.049958	0.000000
1309	NaN	88.0	1991.0	70.049958	88.000000
1312	NaN	336.0	1990.0	70.049958	336.000000
1318	NaN	178.0	2001.0	70.049958	178.000000
1321	NaN	0.0	1955.0	70.049958	0.000000
1323	50.0	0.0	NaN	50.000000	0.000000
1325	40.0	0.0	NaN	40.000000	0.000000

1326	70.0	0.0	NaN	70.000000	0.000000
1337	153.0	0.0	NaN	153.000000	0.000000
1342	NaN	149.0	2002.0	70.049958	149.000000
1346	NaN	0.0	1968.0	70.049958	0.000000
1348	NaN	0.0	1998.0	70.049958	0.000000
1349	50.0	0.0	NaN	50.000000	0.000000
1354	NaN	0.0	2000.0	70.049958	0.000000
1356	NaN	65.0	1966.0	70.049958	65.000000
1357	NaN	0.0	1971.0	70.049958	0.000000
1358	NaN	216.0	2000.0	70.049958	216.000000
1362	NaN	0.0	1920.0	70.049958	0.000000
1365	NaN	0.0	2000.0	70.049958	0.000000
1368	NaN	170.0	2003.0	70.049958	170.000000
1373	NaN	705.0	2001.0	70.049958	705.000000
1381	NaN	0.0	1970.0	70.049958	0.000000
1383	NaN	0.0	2007.0	70.049958	0.000000
1396	NaN	0.0	1966.0	70.049958	0.000000
1407	NaN	0.0	NaN	70.049958	0.000000
1417	NaN	731.0	1998.0	70.049958	731.000000
1419	NaN	312.0	1969.0	70.049958	312.000000
1423	NaN	0.0	1966.0	70.049958	0.000000
1424	NaN	0.0	1970.0	70.049958	0.000000
1429	NaN	310.0	1981.0	70.049958	310.000000
1431	NaN	0.0	1976.0	70.049958	0.000000
1441	NaN	147.0	2004.0	70.049958	147.000000
1443	NaN	0.0	1916.0	70.049958	0.000000
1446	NaN	189.0	1962.0	70.049958	189.000000
1449	21.0	0.0	NaN	21.000000	0.000000
1450	60.0	0.0	NaN	60.000000	0.000000
1453	90.0	0.0	NaN	90.000000	0.000000

	GarageYrBlt	LotFrontage	MasVnrArea	GarageYrBlt
7	1973.000000	69.0	240.0	1973.0
12	1962.000000	69.0	0.0	1962.0
14	1960.000000	69.0	212.0	1960.0
16	1970.000000	69.0	180.0	1970.0
24	1968.000000	69.0	0.0	1968.0
31	1966.000000	69.0	0.0	1966.0
39	1978.506164	65.0	0.0	1980.0
42	1983.000000	69.0	0.0	1983.0
43	1977.000000	69.0	0.0	1977.0
48	1978.506164	33.0	0.0	1980.0
50	1997.000000	69.0	0.0	1997.0
64	1998.000000	69.0	573.0	1998.0
66	1970.000000	69.0	287.0	1970.0
76	1956.000000	69.0	0.0	1956.0
78	1978.506164	72.0	0.0	1980.0
84	1995.000000	69.0	22.0	1995.0
88	1978.506164	105.0	0.0	1980.0
89	1978.506164	60.0	0.0	1980.0

95	1993.000000	69.0	68.0	1993.0
99	1978.506164	77.0	0.0	1980.0
100	1977.000000	69.0	28.0	1977.0
104	1951.000000	69.0	600.0	1951.0
108	1978.506164	85.0	0.0	1980.0
111	2000.000000	69.0	0.0	2000.0
113	1953.000000	69.0	184.0	1953.0
116	1962.000000	69.0	116.0	1962.0
120	1969.000000	69.0	0.0	1969.0
125	1978.506164	60.0	0.0	1980.0
126	1977.000000	69.0	0.0	1977.0
127	1978.506164	55.0	0.0	1980.0
131	2000.000000	69.0	40.0	2000.0
133	2001.000000	69.0	136.0	2001.0
136	1967.000000	69.0	196.0	1967.0
140	1978.506164	70.0	0.0	1980.0
147	2001.000000	69.0	180.0	2001.0
148	1978.506164	63.0	120.0	1980.0
149	1936.000000	69.0	0.0	1936.0
152	1971.000000	69.0	252.0	1971.0
153	1960.000000	69.0	0.0	1960.0
155	1978.506164	60.0	0.0	1980.0
160	1984.000000	69.0	0.0	1984.0
163	1978.506164	55.0	0.0	1980.0
165	1978.506164	62.0	0.0	1980.0
166	1955.000000	69.0	0.0	1955.0
169	1981.000000	69.0	653.0	1981.0
170	1991.000000	69.0	0.0	1991.0
177	1958.000000	69.0	0.0	1958.0
180	2000.000000	69.0	456.0	2000.0
186	1990.000000	69.0	0.0	1990.0
191	1972.000000	69.0	138.0	1972.0
198	1978.506164	92.0	0.0	1980.0
203	2004.000000	69.0	205.0	2004.0
207	1960.000000	69.0	0.0	1960.0
208	1988.000000	69.0	128.0	1988.0
210	1978.506164	67.0	0.0	1980.0
214	1977.000000	69.0	153.0	1977.0
218	1939.000000	69.0	312.0	1939.0
221	2002.000000	69.0	0.0	2002.0
234	2002.000000	69.0	0.0	2002.0
237	1993.000000	69.0	0.0	1993.0
241	1978.506164	40.0	0.0	1980.0
244	1994.000000	69.0	0.0	1994.0
249	1958.000000	69.0	472.0	1958.0
250	1978.506164	55.0	0.0	1980.0
269	1987.000000	69.0	174.0	1987.0
287	1978.506164	69.0	0.0	1980.0
288	1970.000000	69.0	31.0	1970.0
291	1978.506164	55.0	0.0	1980.0

293	1977.000000	69.0	34.0	1977.0
307	1978.506164	69.0	0.0	1980.0
308	1961.000000	69.0	0.0	1961.0
310	1993.000000	69.0	112.0	1993.0
319	1980.000000	69.0	225.0	1980.0
328	1930.000000	69.0	0.0	1930.0
330	2002.000000	69.0	84.0	2002.0
335	1965.000000	69.0	0.0	1965.0
342	1949.000000	69.0	340.0	1949.0
346	1960.000000	69.0	0.0	1960.0
347	1960.000000	69.0	30.0	1960.0
351	1986.000000	69.0	0.0	1986.0
356	1992.000000	69.0	106.0	1992.0
360	1978.000000	69.0	0.0	1978.0
361	1940.000000	69.0	0.0	1940.0
364	1976.000000	69.0	120.0	1976.0
366	1963.000000	69.0	247.0	1963.0
369	1997.000000	69.0	0.0	1997.0
370	2000.000000	69.0	0.0	2000.0
375	1978.506164	69.0	0.0	1980.0
384	1992.000000	69.0	0.0	1992.0
386	1978.506164	58.0	0.0	1980.0
392	1959.000000	69.0	0.0	1959.0
393	1978.506164	69.0	0.0	1980.0
404	1995.000000	69.0	0.0	1995.0
405	1993.000000	69.0	0.0	1993.0
412	2009.000000	69.0	432.0	2009.0
421	1977.000000	69.0	126.0	1977.0
426	1989.000000	69.0	145.0	1989.0
431	1978.506164	60.0	0.0	1980.0
434	1978.506164	21.0	0.0	1980.0
441	1978.506164	92.0	270.0	1980.0
447	1998.000000	69.0	0.0	1998.0
452	1996.000000	69.0	42.0	1996.0
457	1954.000000	69.0	0.0	1954.0
458	1925.000000	69.0	0.0	1925.0
459	1950.000000	69.0	161.0	1950.0
464	1978.506164	60.0	136.0	1980.0
465	2004.000000	69.0	18.0	2004.0
470	1985.000000	69.0	0.0	1985.0
484	1963.000000	69.0	0.0	1963.0
490	1976.000000	69.0	0.0	1976.0
495	1978.506164	60.0	0.0	1980.0
496	1992.000000	69.0	0.0	1992.0
516	1972.000000	69.0	333.0	1972.0
518	1998.000000	69.0	0.0	1998.0
520	1978.506164	60.0	0.0	1980.0
528	1978.506164	58.0	0.0	1980.0
529	1975.000000	69.0	0.0	1975.0
533	1978.506164	50.0	0.0	1980.0

535	1978.506164	70.0	0.0	1980.0
537	1980.000000	69.0	0.0	1980.0
538	1968.000000	69.0	188.0	1968.0
539	2001.000000	69.0	479.0	2001.0
541	2000.000000	69.0	72.0	2000.0
545	1988.000000	69.0	178.0	1988.0
559	2003.000000	69.0	18.0	2003.0
560	1957.000000	69.0	180.0	1957.0
562	1978.506164	63.0	0.0	1980.0
564	1992.000000	69.0	0.0	1992.0
569	1979.000000	69.0	0.0	1979.0
580	1960.000000	69.0	85.0	1960.0
582	1978.506164	81.0	104.0	1980.0
593	2003.000000	69.0	170.0	2003.0
610	2000.000000	69.0	204.0	2000.0
611	1978.000000	69.0	233.0	1978.0
612	2001.000000	69.0	108.0	2001.0
613	1978.506164	70.0	0.0	1980.0
614	1978.506164	21.0	0.0	1980.0
616	2002.000000	69.0	0.0	2002.0
620	1978.506164	45.0	0.0	1980.0
623	2000.000000	69.0	513.0	2000.0
626	1960.000000	69.0	0.0	1960.0
635	1978.506164	60.0	0.0	1980.0
636	1978.506164	51.0	0.0	1980.0
638	1978.506164	67.0	0.0	1980.0
641	2001.000000	69.0	0.0	2001.0
645	1979.000000	69.0	0.0	1979.0
649	1978.506164	21.0	0.0	1980.0
650	2007.000000	65.0	0.0	2007.0
660	1976.000000	69.0	233.0	1976.0
666	1965.000000	69.0	113.0	1965.0
668	1999.000000	69.0	0.0	1999.0
672	1977.000000	69.0	0.0	1977.0
679	1963.000000	69.0	57.0	1963.0
682	1996.000000	69.0	0.0	1996.0
685	1984.000000	69.0	0.0	1984.0
687	2004.000000	69.0	0.0	2004.0
690	2004.000000	69.0	147.0	2004.0
705	1978.506164	70.0	0.0	1980.0
706	1971.000000	69.0	351.0	1971.0
709	1966.000000	69.0	41.0	1966.0
710	1978.506164	56.0	0.0	1980.0
714	1976.000000	69.0	289.0	1976.0
720	1985.000000	69.0	0.0	1985.0
721	2004.000000	69.0	169.0	2004.0
726	1988.000000	69.0	260.0	1988.0
734	1968.000000	69.0	0.0	1968.0
738	1978.506164	60.0	0.0	1980.0
745	1994.000000	69.0	289.0	1994.0

746	2000.000000	69.0	0.0	2000.0
750	1978.506164	55.0	0.0	1980.0
751	2003.000000	69.0	0.0	2003.0
757	1978.000000	69.0	328.0	1978.0
770	1983.000000	69.0	0.0	1983.0
783	1978.000000	69.0	104.0	1978.0
784	1978.506164	35.0	0.0	1980.0
785	1967.000000	69.0	0.0	1967.0
789	1966.000000	69.0	157.0	1966.0
791	1976.000000	69.0	0.0	1976.0
794	1994.000000	69.0	0.0	1994.0
811	2004.000000	69.0	169.0	2004.0
816	1954.000000	69.0	0.0	1954.0
817	2002.000000	69.0	148.0	2002.0
822	2003.000000	69.0	0.0	2003.0
826	1978.506164	50.0	0.0	1980.0
828	1967.000000	69.0	0.0	1967.0
840	1934.000000	69.0	0.0	1934.0
843	1978.506164	80.0	0.0	1980.0
845	1975.000000	69.0	0.0	1975.0
851	2003.000000	69.0	40.0	2003.0
853	1964.000000	69.0	115.0	1964.0
855	1962.000000	69.0	0.0	1962.0
856	1981.000000	69.0	0.0	1981.0
859	1968.000000	69.0	220.0	1968.0
865	1973.000000	69.0	76.0	1973.0
868	1979.000000	69.0	0.0	1979.0
879	1978.000000	69.0	90.0	1978.0
882	1993.000000	69.0	0.0	1993.0
893	1954.000000	69.0	0.0	1954.0
900	1979.000000	69.0	0.0	1979.0
904	1967.000000	69.0	75.0	1967.0
908	1983.000000	69.0	0.0	1983.0
911	1978.000000	69.0	0.0	1978.0
917	1956.000000	69.0	0.0	1956.0
921	1978.506164	67.0	0.0	1980.0
925	1977.000000	69.0	0.0	1977.0
927	1968.000000	69.0	342.0	1968.0
928	2001.000000	69.0	0.0	2001.0
929	1997.000000	69.0	285.0	1997.0
936	2003.000000	67.0	0.0	2003.0
939	1940.000000	69.0	0.0	1940.0
941	1999.000000	69.0	298.0	1999.0
942	1978.506164	42.0	0.0	1980.0
944	1958.000000	69.0	541.0	1958.0
953	1969.000000	69.0	232.0	1969.0
954	1978.506164	35.0	250.0	1980.0
960	1978.506164	50.0	0.0	1980.0
961	1977.000000	69.0	424.0	1977.0
967	1955.000000	69.0	151.0	1955.0

968	1978.506164	50.0	0.0	1980.0
970	1978.506164	60.0	0.0	1980.0
973	2007.000000	95.0	0.0	2007.0
975	2000.000000	69.0	0.0	2000.0
976	1978.506164	51.0	0.0	1980.0
977	2007.000000	35.0	0.0	2007.0
980	1961.000000	69.0	210.0	1961.0
983	2002.000000	69.0	0.0	2002.0
988	1976.000000	69.0	298.0	1976.0
996	1961.000000	69.0	0.0	1961.0
997	1970.000000	69.0	571.0	1970.0
1003	1976.000000	69.0	164.0	1976.0
1006	1970.000000	69.0	0.0	1970.0
1009	1978.506164	60.0	0.0	1980.0
1011	1978.506164	75.0	0.0	1980.0
1017	1984.000000	69.0	0.0	1984.0
1018	1991.000000	69.0	76.0	1991.0
1024	1976.000000	69.0	0.0	1976.0
1030	1978.506164	69.0	0.0	1980.0
1032	1993.000000	69.0	0.0	1993.0
1033	2002.000000	69.0	295.0	2002.0
1035	1957.000000	69.0	0.0	1957.0
1037	2001.000000	69.0	396.0	2001.0
1038	1978.506164	21.0	0.0	1980.0
1041	1966.000000	69.0	252.0	1966.0
1045	1955.000000	69.0	0.0	1955.0
1057	1994.000000	69.0	0.0	1994.0
1059	1977.000000	69.0	480.0	1977.0
1064	1966.000000	69.0	200.0	1966.0
1077	1969.000000	69.0	0.0	1969.0
1084	1995.000000	69.0	0.0	1995.0
1086	1973.000000	69.0	0.0	1973.0
1096	1978.506164	60.0	0.0	1980.0
1097	1987.000000	69.0	0.0	1987.0
1108	2000.000000	69.0	0.0	2000.0
1110	1995.000000	69.0	0.0	1995.0
1116	2002.000000	69.0	0.0	2002.0
1122	1956.000000	69.0	0.0	1956.0
1123	1978.506164	50.0	0.0	1980.0
1124	1992.000000	69.0	170.0	1992.0
1131	1978.506164	63.0	0.0	1980.0
1137	1978.506164	54.0	0.0	1980.0
1138	1977.000000	69.0	0.0	1977.0
1141	1976.000000	69.0	44.0	1976.0
1143	1978.506164	69.0	0.0	1980.0
1146	1985.000000	69.0	85.0	1985.0
1148	1982.000000	69.0	0.0	1982.0
1153	2002.000000	69.0	0.0	2002.0
1154	1965.000000	69.0	288.0	1965.0
1161	1993.000000	69.0	72.0	1993.0

1164	1978.000000	69.0	0.0	1978.0
1173	1978.506164	138.0	0.0	1980.0
1177	1926.000000	69.0	0.0	1926.0
1179	1978.506164	77.0	0.0	1980.0
1180	1990.000000	69.0	0.0	1990.0
1190	1975.000000	69.0	149.0	1975.0
1193	1999.000000	69.0	425.0	1999.0
1206	1966.000000	69.0	0.0	1966.0
1213	1965.000000	69.0	0.0	1965.0
1218	1978.506164	52.0	0.0	1980.0
1219	1978.506164	21.0	236.0	1980.0
1230	1977.000000	69.0	1.0	1977.0
1233	1959.000000	69.0	180.0	1959.0
1234	1978.506164	55.0	0.0	1980.0
1243	2006.000000	107.0	0.0	2006.0
1244	1931.000000	69.0	0.0	1931.0
1247	1976.000000	69.0	335.0	1976.0
1251	2003.000000	69.0	163.0	2003.0
1253	1974.000000	69.0	0.0	1974.0
1257	1978.506164	56.0	0.0	1980.0
1260	1999.000000	69.0	0.0	1999.0
1262	1957.000000	69.0	0.0	1957.0
1268	1982.000000	69.0	632.0	1982.0
1270	1979.000000	69.0	0.0	1979.0
1271	1968.000000	69.0	0.0	1968.0
1272	1965.000000	69.0	114.0	1965.0
1276	1972.000000	69.0	0.0	1972.0
1277	1967.000000	69.0	359.0	1967.0
1278	2002.000000	75.0	0.0	2002.0
1283	1978.506164	94.0	0.0	1980.0
1286	1963.000000	69.0	451.0	1963.0
1287	1964.000000	69.0	621.0	1964.0
1290	1964.000000	69.0	86.0	1964.0
1300	1999.000000	69.0	344.0	1999.0
1301	1942.000000	69.0	0.0	1942.0
1309	1991.000000	69.0	88.0	1991.0
1312	1990.000000	69.0	336.0	1990.0
1318	2001.000000	69.0	178.0	2001.0
1321	1955.000000	69.0	0.0	1955.0
1323	1978.506164	50.0	0.0	1980.0
1325	1978.506164	40.0	0.0	1980.0
1326	1978.506164	70.0	0.0	1980.0
1337	1978.506164	153.0	0.0	1980.0
1342	2002.000000	69.0	149.0	2002.0
1346	1968.000000	69.0	0.0	1968.0
1348	1998.000000	69.0	0.0	1998.0
1349	1978.506164	50.0	0.0	1980.0
1354	2000.000000	69.0	0.0	2000.0
1356	1966.000000	69.0	65.0	1966.0
1357	1971.000000	69.0	0.0	1971.0

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1358  2000.000000         69.0       216.0       2000.0
1362  1920.000000         69.0         0.0       1920.0
1365  2000.000000         69.0         0.0       2000.0
1368  2003.000000         69.0       170.0       2003.0
1373  2001.000000         69.0       705.0       2001.0
1381  1970.000000         69.0         0.0       1970.0
1383  2007.000000         69.0         0.0       2007.0
1396  1966.000000         69.0         0.0       1966.0
1407  1978.506164         69.0         0.0       1980.0
1417  1998.000000         69.0       731.0       1998.0
1419  1969.000000         69.0       312.0       1969.0
1423  1966.000000         69.0         0.0       1966.0
1424  1970.000000         69.0         0.0       1970.0
1429  1981.000000         69.0       310.0       1981.0
1431  1976.000000         69.0         0.0       1976.0
1441  2004.000000         69.0       147.0       2004.0
1443  1916.000000         69.0         0.0       1916.0
1446  1962.000000         69.0       189.0       1962.0
1449  1978.506164         21.0         0.0       1980.0
1450  1978.506164         60.0         0.0       1980.0
1453  1978.506164         90.0         0.0       1980.0
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print("Thank You.....-:)")
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Thank You.....-:)
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