

# AMES Housing Prices Analysis

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## Introduction

### Load library

```
library(dplyr)
```

```
##  
## Attaching package: 'dplyr'  
  
## The following objects are masked from 'package:stats':  
##  
##   filter, lag  
  
## The following objects are masked from 'package:base':  
##  
##   intersect, setdiff, setequal, union
```

```
library(ggplot2)  
library(MASS)
```

```
##  
## Attaching package: 'MASS'  
  
## The following object is masked from 'package:dplyr':  
##  
##   select
```

```
library(caret)
```

```
## Loading required package: lattice
```

```
library(reshape2)  
library(car)
```

```
## Loading required package: carData
```

```
##
## Attaching package: 'car'

## The following object is masked from 'package:dplyr':
##
##      recode
```

```
library(GGally)
```

```
## Registered S3 method overwritten by 'GGally':
##   method from
##   +.gg      ggplot2
```

```
library(caTools)
library(randomForest)
```

```
## randomForest 4.7-1.2
```

```
## Type rfNews() to see new features/changes/bug fixes.
```

```
##
## Attaching package: 'randomForest'
```

```
## The following object is masked from 'package:ggplot2':
##
##      margin
```

```
## The following object is masked from 'package:dplyr':
##
##      combine
```

```
library(onehot)
```

## Loading Data

```
path <- "C://Users//User NA//OneDrive//Documents//Master//Statistics in Practice Seminar//Data Analysis"
path2 <- "C://Users//User NA//OneDrive//Documents//Master//Statistics in Practice Seminar//Data Analysis"
```

```
#train
train <- read.csv(path)
head(train)
```

```
##      Id MSSubClass MSZoning LotFrontage LotArea Street Alley LotShape LandContour
## 1    1         60      RL           65    8450   Pave  <NA>      Reg           Lvl
## 2    2         20      RL           80    9600   Pave  <NA>      Reg           Lvl
## 3    3         60      RL           68   11250   Pave  <NA>      IR1           Lvl
## 4    4         70      RL           60    9550   Pave  <NA>      IR1           Lvl
```

## 5	5	60	RL	84	14260	Pave	<NA>	IR1	Lvl
## 6	6	50	RL	85	14115	Pave	<NA>	IR1	Lvl
##	Utilities	LotConfig	LandSlope	Neighborhood	Condition1	Condition2	BldgType		
## 1	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam		
## 2	AllPub	FR2	Gtl	Veenker	Feedr	Norm	1Fam		
## 3	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam		
## 4	AllPub	Corner	Gtl	Crawfor	Norm	Norm	1Fam		
## 5	AllPub	FR2	Gtl	NoRidge	Norm	Norm	1Fam		
## 6	AllPub	Inside	Gtl	Mitchel	Norm	Norm	1Fam		
##	HouseStyle	OverallQual	OverallCond	YearBuilt	YearRemodAdd	RoofStyle	RoofMatl		
## 1	2Story	7	5	2003	2003	Gable	CompShg		
## 2	1Story	6	8	1976	1976	Gable	CompShg		
## 3	2Story	7	5	2001	2002	Gable	CompShg		
## 4	2Story	7	5	1915	1970	Gable	CompShg		
## 5	2Story	8	5	2000	2000	Gable	CompShg		
## 6	1.5Fin	5	5	1993	1995	Gable	CompShg		
##	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond	Foundation		
## 1	VinylSd	VinylSd	BrkFace	196	Gd	TA	PConc		
## 2	MetalSd	MetalSd	None	0	TA	TA	CBlock		
## 3	VinylSd	VinylSd	BrkFace	162	Gd	TA	PConc		
## 4	Wd Sdng	Wd Shng	None	0	TA	TA	BrkTil		
## 5	VinylSd	VinylSd	BrkFace	350	Gd	TA	PConc		
## 6	VinylSd	VinylSd	None	0	TA	TA	Wood		
##	BsmtQual	BsmtCond	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2			
## 1	Gd	TA	No	GLQ	706	Unf			
## 2	Gd	TA	Gd	ALQ	978	Unf			
## 3	Gd	TA	Mn	GLQ	486	Unf			
## 4	TA	Gd	No	ALQ	216	Unf			
## 5	Gd	TA	Av	GLQ	655	Unf			
## 6	Gd	TA	No	GLQ	732	Unf			
##	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	Heating	HeatingQC	CentralAir	Electrical		
## 1	0	150	856	GasA	Ex	Y	SBrkr		
## 2	0	284	1262	GasA	Ex	Y	SBrkr		
## 3	0	434	920	GasA	Ex	Y	SBrkr		
## 4	0	540	756	GasA	Gd	Y	SBrkr		
## 5	0	490	1145	GasA	Ex	Y	SBrkr		
## 6	0	64	796	GasA	Ex	Y	SBrkr		
##	X1stFlrSF	X2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	BsmtHalfBath	FullBath		
## 1	856	854	0	1710	1	0	2		
## 2	1262	0	0	1262	0	1	2		
## 3	920	866	0	1786	1	0	2		
## 4	961	756	0	1717	1	0	1		
## 5	1145	1053	0	2198	1	0	2		
## 6	796	566	0	1362	1	0	1		
##	HalfBath	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional			
## 1	1	3	1	Gd	8	Typ			
## 2	0	3	1	TA	6	Typ			
## 3	1	3	1	Gd	6	Typ			
## 4	0	3	1	Gd	7	Typ			
## 5	1	4	1	Gd	9	Typ			
## 6	1	1	1	TA	5	Typ			
##	Fireplaces	FireplaceQu	GarageType	GarageYrBlt	GarageFinish	GarageCars			
## 1	0	<NA>	Attchd	2003	RFn	2			
## 2	1	TA	Attchd	1976	RFn	2			

```
## 3      1      TA      Attchd      2001      RFn      2
## 4      1      Gd      Detchd      1998      Unf      3
## 5      1      TA      Attchd      2000      RFn      3
## 6      0      <NA>      Attchd      1993      Unf      2
##      GarageArea GarageQual GarageCond PavedDrive WoodDeckSF OpenPorchSF
## 1      548      TA      TA      Y      0      61
## 2      460      TA      TA      Y      298      0
## 3      608      TA      TA      Y      0      42
## 4      642      TA      TA      Y      0      35
## 5      836      TA      TA      Y      192      84
## 6      480      TA      TA      Y      40      30
##      EnclosedPorch X3SsnPorch ScreenPorch PoolArea PoolQC Fence MiscFeature
## 1      0      0      0      0      <NA> <NA> <NA>
## 2      0      0      0      0      <NA> <NA> <NA>
## 3      0      0      0      0      <NA> <NA> <NA>
## 4      272      0      0      0      <NA> <NA> <NA>
## 5      0      0      0      0      <NA> <NA> <NA>
## 6      0      320      0      0      <NA> MnPrv      Shed
##      MiscVal MoSold YrSold SaleType SaleCondition SalePrice
## 1      0      2      2008      WD      Normal      208500
## 2      0      5      2007      WD      Normal      181500
## 3      0      9      2008      WD      Normal      223500
## 4      0      2      2006      WD      Abnorml      140000
## 5      0      12     2008      WD      Normal      250000
## 6      700     10     2009      WD      Normal      143000
```

```
#check for no. of rows and no. of columns
dim(train)
```

```
## [1] 1460    81
```

Our data has 1460 observations and 81 variables.

```
test <- read.csv(path2)
head(test)
```

```
##      Id MSSubClass MSZoning LotFrontage LotArea Street Alley LotShape
## 1 1461      20      RH      80      11622   Pave <NA>      Reg
## 2 1462      20      RL      81      14267   Pave <NA>      IR1
## 3 1463      60      RL      74      13830   Pave <NA>      IR1
## 4 1464      60      RL      78      9978    Pave <NA>      IR1
## 5 1465     120      RL      43      5005    Pave <NA>      IR1
## 6 1466      60      RL      75     10000    Pave <NA>      IR1
##      LandContour Utilities LotConfig LandSlope Neighborhood Condition1 Condition2
## 1      Lvl      AllPub      Inside      Gtl      Names      Feedr      Norm
## 2      Lvl      AllPub      Corner      Gtl      Names      Norm      Norm
## 3      Lvl      AllPub      Inside      Gtl      Gilbert      Norm      Norm
## 4      Lvl      AllPub      Inside      Gtl      Gilbert      Norm      Norm
## 5      HLS      AllPub      Inside      Gtl      StoneBr      Norm      Norm
## 6      Lvl      AllPub      Corner      Gtl      Gilbert      Norm      Norm
##      BldgType HouseStyle OverallQual OverallCond YearBuilt YearRemodAdd RoofStyle
## 1      1Fam      1Story      5      6      1961      1961      Gable
## 2      1Fam      1Story      6      6      1958      1958      Hip
```

## 3	1Fam	2Story	5	5	1997	1998	Gable
## 4	1Fam	2Story	6	6	1998	1998	Gable
## 5	TwnhsE	1Story	8	5	1992	1992	Gable
## 6	1Fam	2Story	6	5	1993	1994	Gable
##	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond
## 1	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 2	CompShg	Wd Sdng	Wd Sdng	BrkFace	108	TA	TA
## 3	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 4	CompShg	VinylSd	VinylSd	BrkFace	20	TA	TA
## 5	CompShg	HdBoard	HdBoard	None	0	Gd	TA
## 6	CompShg	HdBoard	HdBoard	None	0	TA	TA
##	Foundation	BsmtQual	BsmtCond	BsmtExposure	BsmtFinType1	BsmtFinSF1	
## 1	CBlock	TA	TA	No	Rec	468	
## 2	CBlock	TA	TA	No	ALQ	923	
## 3	PConc	Gd	TA	No	GLQ	791	
## 4	PConc	TA	TA	No	GLQ	602	
## 5	PConc	Gd	TA	No	ALQ	263	
## 6	PConc	Gd	TA	No	Unf	0	
##	BsmtFinType2	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	Heating	HeatingQC	CentralAir
## 1	LwQ	144	270	882	GasA	TA	Y
## 2	Unf	0	406	1329	GasA	TA	Y
## 3	Unf	0	137	928	GasA	Gd	Y
## 4	Unf	0	324	926	GasA	Ex	Y
## 5	Unf	0	1017	1280	GasA	Ex	Y
## 6	Unf	0	763	763	GasA	Gd	Y
##	Electrical	X1stFlrSF	X2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	
## 1	SBrkr	896	0	0	896	0	
## 2	SBrkr	1329	0	0	1329	0	
## 3	SBrkr	928	701	0	1629	0	
## 4	SBrkr	926	678	0	1604	0	
## 5	SBrkr	1280	0	0	1280	0	
## 6	SBrkr	763	892	0	1655	0	
##	BsmtHalfBath	FullBath	HalfBath	BedroomAbvGr	KitchenAbvGr	KitchenQual	
## 1	0	1	0	2	1	TA	
## 2	0	1	1	3	1	Gd	
## 3	0	2	1	3	1	TA	
## 4	0	2	1	3	1	Gd	
## 5	0	2	0	2	1	Gd	
## 6	0	2	1	3	1	TA	
##	TotRmsAbvGrd	Functional	Fireplaces	FireplaceQu	GarageType	GarageYrBlt	
## 1	5	Typ	0	<NA>	Attchd	1961	
## 2	6	Typ	0	<NA>	Attchd	1958	
## 3	6	Typ	1	TA	Attchd	1997	
## 4	7	Typ	1	Gd	Attchd	1998	
## 5	5	Typ	0	<NA>	Attchd	1992	
## 6	7	Typ	1	TA	Attchd	1993	
##	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive	
## 1	Unf	1	730	TA	TA	Y	
## 2	Unf	1	312	TA	TA	Y	
## 3	Fin	2	482	TA	TA	Y	
## 4	Fin	2	470	TA	TA	Y	
## 5	RFn	2	506	TA	TA	Y	
## 6	Fin	2	440	TA	TA	Y	
##	WoodDeckSF	OpenPorchSF	EnclosedPorch	X3SsnPorch	ScreenPorch	PoolArea	PoolQC

```
## 1      140      0      0      0      120      0 <NA>
## 2      393     36      0      0      0      0 <NA>
## 3      212     34      0      0      0      0 <NA>
## 4      360     36      0      0      0      0 <NA>
## 5        0     82      0      0     144      0 <NA>
## 6      157     84      0      0      0      0 <NA>
## Fence MiscFeature MiscVal MoSold YrSold SaleType SaleCondition
## 1 MnPrv      <NA>      0      6    2010      WD      Normal
## 2 <NA>      Gar2    12500      6    2010      WD      Normal
## 3 MnPrv      <NA>      0      3    2010      WD      Normal
## 4 <NA>      <NA>      0      6    2010      WD      Normal
## 5 <NA>      <NA>      0      1    2010      WD      Normal
## 6 <NA>      <NA>      0      4    2010      WD      Normal
```

```
dim(test)
```

```
## [1] 1459  80
```

## Exploratory Data Analysis

### TRAIN

```
colnames(train)
```

```
## [1] "Id"      "MSSubClass" "MSZoning"  "LotFrontage"
## [5] "LotArea" "Street"     "Alley"     "LotShape"
## [9] "LandContour" "Utilities"  "LotConfig" "LandSlope"
## [13] "Neighborhood" "Condition1" "Condition2" "BldgType"
## [17] "HouseStyle" "OverallQual" "OverallCond" "YearBuilt"
## [21] "YearRemodAdd" "RoofStyle"  "RoofMat1"  "Exterior1st"
## [25] "Exterior2nd" "MasVnrType" "MasVnrArea" "ExterQual"
## [29] "ExterCond"  "Foundation" "BsmtQual"  "BsmtCond"
## [33] "BsmtExposure" "BsmtFinType1" "BsmtFinSF1" "BsmtFinType2"
## [37] "BsmtFinSF2" "BsmtUnfSF"  "TotalBsmtSF" "Heating"
## [41] "HeatingQC"  "CentralAir" "Electrical" "X1stFlrSF"
## [45] "X2ndFlrSF" "LowQualFinSF" "GrLivArea"  "BsmtFullBath"
## [49] "BsmtHalfBath" "FullBath"  "HalfBath"  "BedroomAbvGr"
## [53] "KitchenAbvGr" "KitchenQual" "TotRmsAbvGrd" "Functional"
## [57] "Fireplaces" "FireplaceQu" "GarageType"  "GarageYrBlt"
## [61] "GarageFinish" "GarageCars"  "GarageArea"  "GarageQual"
## [65] "GarageCond"  "PavedDrive"  "WoodDeckSF"  "OpenPorchSF"
## [69] "EnclosedPorch" "X3SsnPorch" "ScreenPorch" "PoolArea"
## [73] "PoolQC"      "Fence"       "MiscFeature" "MiscVal"
## [77] "MoSold"      "YrSold"      "SaleType"    "SaleCondition"
## [81] "SalePrice"
```

```
#drop ID column
```

```
train <- train[,-c(1)]
head(train)
```

##	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour
## 1	60	RL	65	8450	Pave	<NA>	Reg	Lvl
## 2	20	RL	80	9600	Pave	<NA>	Reg	Lvl
## 3	60	RL	68	11250	Pave	<NA>	IR1	Lvl
## 4	70	RL	60	9550	Pave	<NA>	IR1	Lvl
## 5	60	RL	84	14260	Pave	<NA>	IR1	Lvl
## 6	50	RL	85	14115	Pave	<NA>	IR1	Lvl
##	Utilities	LotConfig	LandSlope	Neighborhood	Condition1	Condition2	BldgType	
## 1	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam	
## 2	AllPub	FR2	Gtl	Veenker	Feedr	Norm	1Fam	
## 3	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam	
## 4	AllPub	Corner	Gtl	Crawfor	Norm	Norm	1Fam	
## 5	AllPub	FR2	Gtl	NoRidge	Norm	Norm	1Fam	
## 6	AllPub	Inside	Gtl	Mitchel	Norm	Norm	1Fam	
##	HouseStyle	OverallQual	OverallCond	YearBuilt	YearRemodAdd	RoofStyle	RoofMatl	
## 1	2Story	7	5	2003	2003	Gable	CompShg	
## 2	1Story	6	8	1976	1976	Gable	CompShg	
## 3	2Story	7	5	2001	2002	Gable	CompShg	
## 4	2Story	7	5	1915	1970	Gable	CompShg	
## 5	2Story	8	5	2000	2000	Gable	CompShg	
## 6	1.5Fin	5	5	1993	1995	Gable	CompShg	
##	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond	Foundation	
## 1	VinylSd	VinylSd	BrkFace	196	Gd	TA	PConc	
## 2	MetalSd	MetalSd	None	0	TA	TA	CBlock	
## 3	VinylSd	VinylSd	BrkFace	162	Gd	TA	PConc	
## 4	Wd Sdng	Wd Shng	None	0	TA	TA	BrkTil	
## 5	VinylSd	VinylSd	BrkFace	350	Gd	TA	PConc	
## 6	VinylSd	VinylSd	None	0	TA	TA	Wood	
##	BsmtQual	BsmtCond	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2		
## 1	Gd	TA	No	GLQ	706	Unf		
## 2	Gd	TA	Gd	ALQ	978	Unf		
## 3	Gd	TA	Mn	GLQ	486	Unf		
## 4	TA	Gd	No	ALQ	216	Unf		
## 5	Gd	TA	Av	GLQ	655	Unf		
## 6	Gd	TA	No	GLQ	732	Unf		
##	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	Heating	HeatingQC	CentralAir	Electrical	
## 1	0	150	856	GasA	Ex	Y	SBrkr	
## 2	0	284	1262	GasA	Ex	Y	SBrkr	
## 3	0	434	920	GasA	Ex	Y	SBrkr	
## 4	0	540	756	GasA	Gd	Y	SBrkr	
## 5	0	490	1145	GasA	Ex	Y	SBrkr	
## 6	0	64	796	GasA	Ex	Y	SBrkr	
##	X1stFlrSF	X2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	BsmtHalfBath	FullBath	
## 1	856	854	0	1710	1	0	2	
## 2	1262	0	0	1262	0	1	2	
## 3	920	866	0	1786	1	0	2	
## 4	961	756	0	1717	1	0	1	
## 5	1145	1053	0	2198	1	0	2	
## 6	796	566	0	1362	1	0	1	
##	HalfBath	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional		
## 1	1	3	1	Gd	8	Typ		
## 2	0	3	1	TA	6	Typ		
## 3	1	3	1	Gd	6	Typ		
## 4	0	3	1	Gd	7	Typ		

## 5	1	4	1	Gd	9	Typ	
## 6	1	1	1	TA	5	Typ	
##	Fireplaces	FireplaceQu	GarageType	GarageYrBlt	GarageFinish	GarageCars	
## 1	0	<NA>	Attchd	2003	RFn	2	
## 2	1	TA	Attchd	1976	RFn	2	
## 3	1	TA	Attchd	2001	RFn	2	
## 4	1	Gd	Detchd	1998	Unf	3	
## 5	1	TA	Attchd	2000	RFn	3	
## 6	0	<NA>	Attchd	1993	Unf	2	
##	GarageArea	GarageQual	GarageCond	PavedDrive	WoodDeckSF	OpenPorchSF	
## 1	548	TA	TA	Y	0	61	
## 2	460	TA	TA	Y	298	0	
## 3	608	TA	TA	Y	0	42	
## 4	642	TA	TA	Y	0	35	
## 5	836	TA	TA	Y	192	84	
## 6	480	TA	TA	Y	40	30	
##	EnclosedPorch	X3SsnPorch	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature
## 1	0	0	0	0	<NA>	<NA>	<NA>
## 2	0	0	0	0	<NA>	<NA>	<NA>
## 3	0	0	0	0	<NA>	<NA>	<NA>
## 4	272	0	0	0	<NA>	<NA>	<NA>
## 5	0	0	0	0	<NA>	<NA>	<NA>
## 6	0	320	0	0	<NA>	MnPrv	Shed
##	MiscVal	MoSold	YrSold	SaleType	SaleCondition	SalePrice	
## 1	0	2	2008	WD	Normal	208500	
## 2	0	5	2007	WD	Normal	181500	
## 3	0	9	2008	WD	Normal	223500	
## 4	0	2	2006	WD	Abnorml	140000	
## 5	0	12	2008	WD	Normal	250000	
## 6	700	10	2009	WD	Normal	143000	

```
colnames(train)
```

## [1]	"MSSubClass"	"MSZoning"	"LotFrontage"	"LotArea"
## [5]	"Street"	"Alley"	"LotShape"	"LandContour"
## [9]	"Utilities"	"LotConfig"	"LandSlope"	"Neighborhood"
## [13]	"Condition1"	"Condition2"	"BldgType"	"HouseStyle"
## [17]	"OverallQual"	"OverallCond"	"YearBuilt"	"YearRemodAdd"
## [21]	"RoofStyle"	"RoofMatl"	"Exterior1st"	"Exterior2nd"
## [25]	"MasVnrType"	"MasVnrArea"	"ExterQual"	"ExterCond"
## [29]	"Foundation"	"BsmtQual"	"BsmtCond"	"BsmtExposure"
## [33]	"BsmtFinType1"	"BsmtFinSF1"	"BsmtFinType2"	"BsmtFinSF2"
## [37]	"BsmtUnfSF"	"TotalBsmtSF"	"Heating"	"HeatingQC"
## [41]	"CentralAir"	"Electrical"	"X1stFlrSF"	"X2ndFlrSF"
## [45]	"LowQualFinSF"	"GrLivArea"	"BsmtFullBath"	"BsmtHalfBath"
## [49]	"FullBath"	"HalfBath"	"BedroomAbvGr"	"KitchenAbvGr"
## [53]	"KitchenQual"	"TotRmsAbvGrd"	"Functional"	"Fireplaces"
## [57]	"FireplaceQu"	"GarageType"	"GarageYrBlt"	"GarageFinish"
## [61]	"GarageCars"	"GarageArea"	"GarageQual"	"GarageCond"
## [65]	"PavedDrive"	"WoodDeckSF"	"OpenPorchSF"	"EnclosedPorch"
## [69]	"X3SsnPorch"	"ScreenPorch"	"PoolArea"	"PoolQC"
## [73]	"Fence"	"MiscFeature"	"MiscVal"	"MoSold"
## [77]	"YrSold"	"SaleType"	"SaleCondition"	"SalePrice"



- Missing Value

```
#Check for missing values
colSums(is.na(train))
```

```
##      MSSubClass      MSZoning  LotFrontage    LotArea      Street
##           0           0           259           0           0
##      Alley      LotShape  LandContour    Utilities    LotConfig
##      1369           0           0           0           0
##      LandSlope  Neighborhood    Condition1    Condition2    BldgType
##           0           0           0           0           0
##      HouseStyle    OverallQual    OverallCond    YearBuilt    YearRemodAdd
##           0           0           0           0           0
##      RoofStyle      RoofMatl    Exterior1st    Exterior2nd    MasVnrType
##           0           0           0           0           8
##      MasVnrArea    ExterQual    ExterCond    Foundation    BsmtQual
##           8           0           0           0           37
##      BsmtCond    BsmtExposure    BsmtFinType1    BsmtFinSF1    BsmtFinType2
##           37           38           37           0           38
##      BsmtFinSF2    BsmtUnfSF    TotalBsmtSF    Heating    HeatingQC
##           0           0           0           0           0
##      CentralAir    Electrical    X1stFlrSF    X2ndFlrSF    LowQualFinSF
##           0           1           0           0           0
##      GrLivArea    BsmtFullBath    BsmtHalfBath    FullBath    HalfBath
##           0           0           0           0           0
##      BedroomAbvGr    KitchenAbvGr    KitchenQual    TotRmsAbvGrd    Functional
##           0           0           0           0           0
##      Fireplaces    FireplaceQu    GarageType    GarageYrBlt    GarageFinish
##           0           690           81           81           81
##      GarageCars    GarageArea    GarageQual    GarageCond    PavedDrive
##           0           0           81           81           0
##      WoodDeckSF    OpenPorchSF    EnclosedPorch    X3SsnPorch    ScreenPorch
##           0           0           0           0           0
##      PoolArea      PoolQC      Fence    MiscFeature    MiscVal
##           0           1453           1179           1406           0
##      MoSold      YrSold      SaleType    SaleCondition    SalePrice
##           0           0           0           0           0
```

```
#Check null rows in the basement columns
```

```
cols_to_check <- c("BsmtQual","BsmtCond","BsmtExposure", "BsmtFinType1","BsmtFinType2")
```

```
# Check for NA in those specific columns
```

```
na_in_columns <- apply(train[cols_to_check], 1, function(row) any(is.na(row)))
```

```
# Display rows where any of the specified columns have NA values
```

```
train[na_in_columns, ]
```

```
##      MSSubClass  MSZoning  LotFrontage  LotArea  Street  Alley  LotShape  LandContour
## 18           90      RL           72    10791    Pave  <NA>      Reg           Lvl
## 40           90      RL           65     6040    Pave  <NA>      Reg           Lvl
## 91           20      RL           60     7200    Pave  <NA>      Reg           Lvl
## 103          90      RL           64     7018    Pave  <NA>      Reg           Bnk
```

## 157	20	RL	60	7200	Pave	<NA>	Reg	Lvl
## 183	20	RL	60	9060	Pave	<NA>	Reg	Lvl
## 260	20	RM	70	12702	Pave	<NA>	Reg	Lvl
## 333	20	RL	85	10655	Pave	<NA>	IR1	Lvl
## 343	90	RL	NA	8544	Pave	<NA>	Reg	Lvl
## 363	85	RL	64	7301	Pave	<NA>	Reg	Lvl
## 372	50	RL	80	17120	Pave	<NA>	Reg	Lvl
## 393	20	RL	NA	8339	Pave	<NA>	IR1	Lvl
## 521	190	RL	60	10800	Pave	Grvl	Reg	Lvl
## 533	20	RL	60	7200	Pave	<NA>	Reg	Lvl
## 534	20	RL	50	5000	Pave	<NA>	Reg	Low
## 554	20	RL	67	8777	Pave	<NA>	Reg	Lvl
## 647	20	RL	60	7200	Pave	<NA>	Reg	Lvl
## 706	190	RM	70	5600	Pave	<NA>	Reg	Lvl
## 737	90	RL	60	8544	Pave	<NA>	Reg	Lvl
## 750	50	RL	50	8405	Pave	<NA>	Reg	Lvl
## 779	90	RH	60	8400	Pave	<NA>	Reg	Lvl
## 869	60	RL	NA	14762	Pave	<NA>	IR2	Lvl
## 895	90	RL	64	7018	Pave	<NA>	Reg	Bnk
## 898	90	RL	64	7018	Pave	<NA>	Reg	Lvl
## 949	60	RL	65	14006	Pave	<NA>	IR1	Lvl
## 985	90	RL	75	10125	Pave	<NA>	Reg	Lvl
## 1001	20	RL	74	10206	Pave	<NA>	Reg	Lvl
## 1012	90	RL	75	9825	Pave	<NA>	Reg	Lvl
## 1036	20	RL	NA	11500	Pave	<NA>	IR1	Lvl
## 1046	20	RL	NA	13680	Pave	<NA>	IR1	Lvl
## 1049	20	RL	100	21750	Pave	<NA>	Reg	Lvl
## 1050	20	RL	60	11100	Pave	<NA>	Reg	Low
## 1091	90	RL	60	8544	Pave	<NA>	Reg	Lvl
## 1180	20	RL	77	8335	Pave	<NA>	Reg	Lvl
## 1217	90	RM	68	8930	Pave	<NA>	Reg	Lvl
## 1219	50	RM	52	6240	Pave	<NA>	Reg	Lvl
## 1233	90	RL	70	9842	Pave	<NA>	Reg	Lvl
## 1322	20	RL	NA	6627	Pave	<NA>	IR1	Lvl
## 1413	90	RL	60	7200	Pave	<NA>	Reg	Lvl
##	Utilities	LotConfig	LandSlope	Neighborhood	Condition1	Condition2	BldgType	
## 18	AllPub	Inside	Gtl	Sawyer	Norm	Norm	Duplex	
## 40	AllPub	Inside	Gtl	Edwards	Norm	Norm	Duplex	
## 91	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam	
## 103	AllPub	Inside	Gtl	SawyerW	Norm	Norm	Duplex	
## 157	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam	
## 183	AllPub	Inside	Gtl	Edwards	Artery	Norm	1Fam	
## 260	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam	
## 333	AllPub	Inside	Gtl	NridgHt	Norm	Norm	1Fam	
## 343	AllPub	Inside	Gtl	Names	Norm	Norm	Duplex	
## 363	AllPub	Corner	Gtl	Edwards	Norm	Norm	1Fam	
## 372	AllPub	Inside	Gtl	ClearCr	Feedr	Norm	1Fam	
## 393	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam	
## 521	AllPub	Inside	Gtl	OldTown	Norm	Norm	2fmCon	
## 533	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam	
## 534	AllPub	Inside	Mod	BrkSide	Norm	Norm	1Fam	
## 554	AllPub	Inside	Gtl	Edwards	Feedr	Norm	1Fam	
## 647	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam	
## 706	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	2fmCon	

## 737	AllPub	Inside	Gtl	NAmes	Norm	Norm	Duplex
## 750	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 779	AllPub	Inside	Gtl	SawyerW	Feedr	Norm	Duplex
## 869	AllPub	Corner	Gtl	Gilbert	Feedr	Norm	1Fam
## 895	AllPub	Inside	Gtl	SawyerW	Norm	Norm	Duplex
## 898	AllPub	Inside	Gtl	SawyerW	Feedr	Norm	Duplex
## 949	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 985	AllPub	Inside	Gtl	Mitchel	Norm	Norm	Duplex
## 1001	AllPub	Corner	Gtl	Edwards	Norm	Norm	1Fam
## 1012	AllPub	Inside	Gtl	Edwards	Norm	Norm	Duplex
## 1036	AllPub	CulDSac	Gtl	Edwards	Norm	Norm	1Fam
## 1046	AllPub	CulDSac	Gtl	Edwards	Norm	Norm	1Fam
## 1049	AllPub	Inside	Gtl	Mitchel	Norm	Norm	1Fam
## 1050	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 1091	AllPub	Corner	Gtl	NAmes	Norm	Norm	Duplex
## 1180	AllPub	Corner	Gtl	Edwards	Norm	Norm	1Fam
## 1217	AllPub	Inside	Gtl	Sawyer	RRAe	Norm	Duplex
## 1219	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 1233	AllPub	FR2	Gtl	NAmes	Norm	Norm	Duplex
## 1322	AllPub	Corner	Gtl	BrkSide	Feedr	Norm	1Fam
## 1413	AllPub	Inside	Gtl	NAmes	Norm	Norm	Duplex
##	HouseStyle	OverallQual	OverallCond	YearBuilt	YearRemodAdd	RoofStyle	
## 18	1Story	4	5	1967	1967	Gable	
## 40	1Story	4	5	1955	1955	Gable	
## 91	1Story	4	5	1950	1950	Gable	
## 103	1Story	5	5	1979	1979	Gable	
## 157	1Story	5	7	1950	1950	Hip	
## 183	1Story	5	6	1957	2006	Hip	
## 260	1Story	5	5	1956	1956	Gable	
## 333	1Story	8	5	2003	2004	Gable	
## 343	1Story	3	4	1949	1950	Gable	
## 363	SFoyer	7	5	2003	2003	Gable	
## 372	1.5Fin	4	4	1959	1959	Gable	
## 393	1Story	5	7	1959	1959	Gable	
## 521	2Story	4	7	1900	2000	Gable	
## 533	1Story	5	7	1955	2007	Gable	
## 534	1Story	1	3	1946	1950	Gable	
## 554	1Story	4	5	1949	2003	Gable	
## 647	1Story	5	5	1950	1950	Hip	
## 706	2Story	4	5	1930	1950	Hip	
## 737	1Story	3	4	1950	1950	Gable	
## 750	1.5Fin	4	3	1945	1950	Gable	
## 779	1Story	5	5	1977	1977	Gable	
## 869	2Story	5	6	1948	1950	Gable	
## 895	1Story	5	5	1979	1979	Gable	
## 898	2Story	5	5	1979	1979	Gable	
## 949	2Story	7	5	2002	2002	Gable	
## 985	1.5Fin	5	5	1977	1977	Gable	
## 1001	1Story	3	3	1952	1952	Flat	
## 1012	1Story	5	5	1965	1965	Hip	
## 1036	1Story	4	3	1957	1957	Gable	
## 1046	1Story	3	5	1955	1955	Hip	
## 1049	1Story	5	4	1960	2006	Hip	
## 1050	1Story	4	7	1946	2006	Gable	

##	1091	1Story	3	4	1950	1950	Gable	
##	1180	1Story	5	5	1954	1954	Gable	
##	1217	1.5Fin	6	5	1978	1978	Gable	
##	1219	1.5Fin	4	5	1947	1950	Gable	
##	1233	1Story	4	5	1962	1962	Gable	
##	1322	1Story	3	6	1949	1950	Hip	
##	1413	1Story	4	5	1949	1950	Gable	
##		RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond
##	18	CompShg	MetalSd	MetalSd	None	0	TA	TA
##	40	CompShg	AsbShng	Plywood	None	0	TA	TA
##	91	CompShg	BrkFace	Wd Sdng	None	0	TA	TA
##	103	CompShg	HdBoard	HdBoard	None	0	TA	Fa
##	157	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
##	183	CompShg	Wd Sdng	Wd Sdng	BrkFace	98	TA	TA
##	260	CompShg	BrkFace	BrkFace	None	0	TA	TA
##	333	CompShg	VinylSd	VinylSd	BrkFace	296	Gd	TA
##	343	CompShg	Stucco	Stucco	BrkFace	340	TA	TA
##	363	CompShg	HdBoard	HdBoard	BrkFace	500	Gd	TA
##	372	CompShg	WdShng	Plywood	None	0	TA	TA
##	393	CompShg	MetalSd	MetalSd	None	0	TA	TA
##	521	CompShg	MetalSd	MetalSd	None	0	TA	TA
##	533	CompShg	VinylSd	VinylSd	None	0	TA	TA
##	534	CompShg	VinylSd	VinylSd	None	0	Fa	Fa
##	554	CompShg	VinylSd	VinylSd	None	0	TA	TA
##	647	CompShg	MetalSd	MetalSd	None	0	TA	TA
##	706	CompShg	VinylSd	Wd Shng	None	0	Fa	Fa
##	737	CompShg	Stucco	Stone	None	0	TA	TA
##	750	CompShg	WdShng	Wd Shng	None	0	TA	TA
##	779	CompShg	Plywood	Plywood	BrkFace	320	TA	TA
##	869	CompShg	Plywood	Plywood	None	0	TA	TA
##	895	CompShg	Plywood	Plywood	None	0	TA	TA
##	898	CompShg	Plywood	Plywood	None	0	TA	TA
##	949	CompShg	VinylSd	VinylSd	BrkFace	144	Gd	TA
##	985	CompShg	Plywood	Plywood	None	0	TA	TA
##	1001	Tar&Grv	BrkComm	Brk Cmn	None	0	TA	TA
##	1012	CompShg	AsphShn	AsphShn	None	0	TA	TA
##	1036	CompShg	Wd Sdng	Wd Sdng	None	0	TA	Gd
##	1046	CompShg	BrkFace	Wd Sdng	None	0	TA	TA
##	1049	CompShg	HdBoard	HdBoard	BrkFace	75	TA	Fa
##	1050	CompShg	MetalSd	MetalSd	None	0	TA	TA
##	1091	CompShg	BrkFace	BrkFace	None	0	TA	TA
##	1180	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
##	1217	CompShg	VinylSd	VinylSd	None	0	TA	TA
##	1219	CompShg	AsbShng	AsbShng	None	0	TA	TA
##	1233	CompShg	HdBoard	HdBoard	None	0	TA	TA
##	1322	CompShg	VinylSd	VinylSd	None	0	TA	TA
##	1413	CompShg	BrkFace	Stone	None	0	TA	TA
##		Foundation	BsmtQual	BsmtCond	BsmtExposure	BsmtFinType1	BsmtFinSF1	
##	18	Slab	<NA>	<NA>	<NA>	<NA>	0	
##	40	PConc	<NA>	<NA>	<NA>	<NA>	0	
##	91	Slab	<NA>	<NA>	<NA>	<NA>	0	
##	103	Slab	<NA>	<NA>	<NA>	<NA>	0	
##	157	CBlock	<NA>	<NA>	<NA>	<NA>	0	
##	183	PConc	<NA>	<NA>	<NA>	<NA>	0	

## 260	PConc	<NA>	<NA>	<NA>	<NA>	0	
## 333	PConc	Gd	TA	No	GLQ	1124	
## 343	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 363	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 372	CBlock	<NA>	<NA>	<NA>	<NA>	0	
## 393	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 521	BrkTil	<NA>	<NA>	<NA>	<NA>	0	
## 533	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 534	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 554	CBlock	<NA>	<NA>	<NA>	<NA>	0	
## 647	CBlock	<NA>	<NA>	<NA>	<NA>	0	
## 706	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 737	CBlock	<NA>	<NA>	<NA>	<NA>	0	
## 750	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 779	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 869	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 895	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 898	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 949	PConc	Gd	TA	<NA>	Unf	0	
## 985	CBlock	<NA>	<NA>	<NA>	<NA>	0	
## 1001	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 1012	CBlock	<NA>	<NA>	<NA>	<NA>	0	
## 1036	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 1046	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 1049	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 1050	CBlock	<NA>	<NA>	<NA>	<NA>	0	
## 1091	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 1180	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 1217	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 1219	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 1233	Slab	<NA>	<NA>	<NA>	<NA>	0	
## 1322	CBlock	<NA>	<NA>	<NA>	<NA>	0	
## 1413	Slab	<NA>	<NA>	<NA>	<NA>	0	
##	BsmtFinType2	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	Heating	HeatingQC	CentralAir
## 18	<NA>	0	0	0	GasA	TA	Y
## 40	<NA>	0	0	0	GasA	TA	N
## 91	<NA>	0	0	0	GasA	TA	Y
## 103	<NA>	0	0	0	GasA	TA	Y
## 157	<NA>	0	0	0	GasA	TA	Y
## 183	<NA>	0	0	0	GasA	Ex	Y
## 260	<NA>	0	0	0	GasA	Gd	Y
## 333	<NA>	479	1603	3206	GasA	Ex	Y
## 343	<NA>	0	0	0	Wall	Fa	N
## 363	<NA>	0	0	0	GasA	Ex	Y
## 372	<NA>	0	0	0	GasA	TA	Y
## 393	<NA>	0	0	0	GasA	TA	Y
## 521	<NA>	0	0	0	GasA	TA	N
## 533	<NA>	0	0	0	GasA	Ex	Y
## 534	<NA>	0	0	0	GasA	Fa	N
## 554	<NA>	0	0	0	GasA	Ex	Y
## 647	<NA>	0	0	0	GasA	Gd	Y
## 706	<NA>	0	0	0	GasA	Fa	N
## 737	<NA>	0	0	0	GasA	Gd	N
## 750	<NA>	0	0	0	Wall	TA	N

## 779	<NA>	0	0	0	GasA	TA	Y
## 869	<NA>	0	0	0	GasA	Gd	Y
## 895	<NA>	0	0	0	GasA	TA	Y
## 898	<NA>	0	0	0	GasA	TA	Y
## 949	Unf	0	936	936	GasA	Ex	Y
## 985	<NA>	0	0	0	GasA	TA	Y
## 1001	<NA>	0	0	0	GasW	Fa	N
## 1012	<NA>	0	0	0	GasA	TA	N
## 1036	<NA>	0	0	0	GasA	Ex	N
## 1046	<NA>	0	0	0	GasA	Ex	Y
## 1049	<NA>	0	0	0	GasA	TA	Y
## 1050	<NA>	0	0	0	GasA	Ex	Y
## 1091	<NA>	0	0	0	Wall	Fa	N
## 1180	<NA>	0	0	0	GasA	Gd	Y
## 1217	<NA>	0	0	0	GasA	TA	Y
## 1219	<NA>	0	0	0	GasA	Gd	N
## 1233	<NA>	0	0	0	GasA	TA	Y
## 1322	<NA>	0	0	0	Floor	TA	N
## 1413	<NA>	0	0	0	Wall	Fa	N
##	Electrical	X1stFlrSF	X2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	
## 18	SBrkr	1296	0	0	1296	0	
## 40	FuseP	1152	0	0	1152	0	
## 91	FuseA	1040	0	0	1040	0	
## 103	SBrkr	1535	0	0	1535	0	
## 157	FuseF	1040	0	0	1040	0	
## 183	SBrkr	1340	0	0	1340	0	
## 260	FuseA	882	0	0	882	0	
## 333	SBrkr	1629	0	0	1629	1	
## 343	FuseA	1040	0	0	1040	0	
## 363	SBrkr	495	1427	0	1922	0	
## 372	SBrkr	1120	468	0	1588	0	
## 393	SBrkr	882	0	0	882	0	
## 521	FuseA	694	600	0	1294	0	
## 533	SBrkr	827	0	0	827	0	
## 534	FuseF	334	0	0	334	0	
## 554	SBrkr	1126	0	0	1126	0	
## 647	SBrkr	1048	0	0	1048	0	
## 706	SBrkr	372	720	0	1092	0	
## 737	FuseF	1040	0	0	1040	0	
## 750	FuseF	1088	441	0	1529	0	
## 779	SBrkr	2020	0	0	2020	0	
## 869	SBrkr	1547	720	53	2320	0	
## 895	SBrkr	1535	0	0	1535	0	
## 898	SBrkr	1120	1120	0	2240	0	
## 949	SBrkr	936	840	0	1776	0	
## 985	SBrkr	1302	432	0	1734	0	
## 1001	FuseF	944	0	0	944	0	
## 1012	SBrkr	1664	0	0	1664	0	
## 1036	SBrkr	845	0	0	845	0	
## 1046	FuseA	1733	0	0	1733	0	
## 1049	SBrkr	1771	0	0	1771	0	
## 1050	SBrkr	930	0	0	930	0	
## 1091	FuseA	1040	0	0	1040	0	
## 1180	SBrkr	1124	0	0	1124	0	

##	1217	SBrkr	1318	584	0	1902	0
##	1219	SBrkr	672	240	0	912	0
##	1233	SBrkr	1224	0	0	1224	0
##	1322	SBrkr	720	0	0	720	0
##	1413	FuseF	1040	0	0	1040	0
##		BsmtHalfBath	FullBath	HalfBath	BedroomAbvGr	KitchenAbvGr	KitchenQual
##	18	0	2	0	2	2	TA
##	40	0	2	0	2	2	Fa
##	91	0	1	0	2	1	TA
##	103	0	2	0	4	2	TA
##	157	0	1	0	2	1	TA
##	183	0	1	0	3	1	TA
##	260	0	1	0	2	1	TA
##	333	0	2	0	3	1	Gd
##	343	0	2	0	2	2	TA
##	363	0	3	0	4	1	Gd
##	372	0	2	0	4	1	TA
##	393	0	1	0	3	1	TA
##	521	0	2	0	3	2	TA
##	533	0	1	0	2	1	TA
##	534	0	1	0	1	1	Fa
##	554	0	2	0	2	1	Gd
##	647	0	1	0	3	1	TA
##	706	0	2	0	3	2	Fa
##	737	0	2	0	2	2	TA
##	750	0	2	0	4	1	TA
##	779	0	2	0	4	2	TA
##	869	0	2	0	2	1	TA
##	895	0	2	0	4	2	TA
##	898	0	2	0	6	2	TA
##	949	0	2	1	3	1	Gd
##	985	0	2	0	4	2	Gd
##	1001	0	1	0	2	1	Fa
##	1012	0	2	0	4	2	TA
##	1036	0	1	0	3	1	TA
##	1046	0	2	0	4	1	TA
##	1049	0	1	0	3	1	TA
##	1050	0	1	0	2	1	Gd
##	1091	0	2	0	2	2	TA
##	1180	0	1	0	3	1	TA
##	1217	0	2	0	4	2	TA
##	1219	0	1	0	2	1	TA
##	1233	0	2	0	2	2	TA
##	1322	0	1	0	2	1	TA
##	1413	0	2	0	2	2	TA
##		TotRmsAbvGrd	Functional	Fireplaces	FireplaceQu	GarageType	GarageYrBlt
##	18	6	Typ	0	<NA>	CarPort	1967
##	40	6	Typ	0	<NA>	<NA>	NA
##	91	4	Typ	0	<NA>	Detchd	1950
##	103	8	Typ	0	<NA>	Attchd	1979
##	157	5	Typ	0	<NA>	Detchd	1950
##	183	7	Typ	1	Gd	Attchd	1957
##	260	4	Typ	0	<NA>	Detchd	1956
##	333	7	Typ	1	Gd	Attchd	2003

## 343	6	Typ	0	<NA>	Detchd	1949
## 363	7	Typ	1	Ex	BuiltIn	2003
## 372	7	Min2	1	Gd	Detchd	1991
## 393	5	Typ	0	<NA>	Attchd	1959
## 521	7	Typ	0	<NA>	<NA>	NA
## 533	5	Mod	1	Po	Detchd	1967
## 534	2	Typ	0	<NA>	<NA>	NA
## 554	5	Typ	0	<NA>	Detchd	2002
## 647	7	Min1	0	<NA>	Detchd	1950
## 706	7	Mod	0	<NA>	<NA>	NA
## 737	6	Typ	0	<NA>	Detchd	1949
## 750	9	Mod	0	<NA>	Detchd	1945
## 779	10	Typ	2	TA	Detchd	1977
## 869	7	Typ	1	TA	Attchd	1979
## 895	8	Typ	0	<NA>	Attchd	1979
## 898	12	Typ	0	<NA>	Detchd	1979
## 949	7	Typ	1	TA	Attchd	2002
## 985	8	Typ	0	<NA>	Attchd	1977
## 1001	4	Min1	0	<NA>	Detchd	1956
## 1012	8	Typ	0	<NA>	<NA>	NA
## 1036	5	Typ	0	<NA>	Detchd	1957
## 1046	8	Min2	1	Gd	Attchd	1955
## 1049	9	Min1	1	TA	Attchd	1960
## 1050	6	Typ	0	<NA>	Detchd	1946
## 1091	6	Typ	0	<NA>	Detchd	1987
## 1180	5	Min2	1	Gd	<NA>	NA
## 1217	8	Typ	0	<NA>	Attchd	1978
## 1219	3	Typ	0	<NA>	<NA>	NA
## 1233	6	Typ	0	<NA>	CarPort	1962
## 1322	4	Typ	0	<NA>	Detchd	1955
## 1413	6	Typ	0	<NA>	Detchd	1956
##	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive
## 18	Unf	2	516	TA	TA	Y
## 40	<NA>	0	0	<NA>	<NA>	N
## 91	Unf	2	420	TA	TA	Y
## 103	Unf	2	410	TA	TA	Y
## 157	Unf	2	625	TA	TA	Y
## 183	RFn	1	252	TA	TA	Y
## 260	Unf	1	308	TA	TA	Y
## 333	RFn	3	880	TA	TA	Y
## 343	Unf	2	400	TA	TA	Y
## 363	RFn	2	672	TA	TA	Y
## 372	Fin	2	680	TA	TA	N
## 393	RFn	1	294	TA	TA	Y
## 521	<NA>	0	0	<NA>	<NA>	N
## 533	Unf	1	392	TA	TA	Y
## 534	<NA>	0	0	<NA>	<NA>	N
## 554	Fin	2	520	TA	TA	N
## 647	Unf	2	420	TA	TA	Y
## 706	<NA>	0	0	<NA>	<NA>	N
## 737	Unf	2	400	TA	TA	Y
## 750	Unf	1	240	TA	TA	N
## 779	Unf	2	630	TA	TA	Y
## 869	Unf	2	672	TA	TA	P



## 895	Unf	2	400	TA	TA	Y
## 898	Unf	2	528	TA	TA	Y
## 949	RFn	2	474	TA	TA	Y
## 985	Unf	2	539	TA	TA	Y
## 1001	Unf	2	528	TA	Fa	Y
## 1012	<NA>	0	0	<NA>	<NA>	Y
## 1036	Unf	1	290	TA	TA	N
## 1046	Unf	2	452	TA	TA	Y
## 1049	Unf	2	336	TA	TA	Y
## 1050	Unf	1	308	TA	TA	Y
## 1091	Unf	2	400	TA	TA	Y
## 1180	<NA>	0	0	<NA>	<NA>	N
## 1217	Unf	2	539	TA	TA	Y
## 1219	<NA>	0	0	<NA>	<NA>	N
## 1233	Unf	2	462	TA	TA	Y
## 1322	Unf	1	287	TA	Fa	Y
## 1413	Unf	2	420	TA	TA	Y
##	WoodDeckSF	OpenPorchSF	EnclosedPorch	X3SsnPorch	ScreenPorch	PoolArea
## 18	0	0	0	0	0	0
## 40	0	0	0	0	0	0
## 91	0	29	0	0	0	0
## 103	0	0	0	0	0	0
## 157	0	0	0	0	0	0
## 183	116	0	0	180	0	0
## 260	0	45	0	0	0	0
## 333	0	0	0	0	0	0
## 343	0	0	0	0	0	0
## 363	0	0	177	0	0	0
## 372	0	59	0	0	0	0
## 393	0	0	0	0	0	0
## 521	220	114	210	0	0	0
## 533	0	0	0	0	0	0
## 534	0	0	0	0	0	0
## 554	0	96	0	0	0	0
## 647	0	27	0	0	0	0
## 706	0	0	0	0	0	0
## 737	0	0	0	0	0	0
## 750	92	0	185	0	0	0
## 779	0	0	0	0	0	0
## 869	120	144	0	0	0	0
## 895	0	0	0	0	0	0
## 898	154	0	0	0	0	0
## 949	144	96	0	0	0	0
## 985	0	0	0	0	0	0
## 1001	0	0	0	0	0	0
## 1012	0	0	0	0	0	0
## 1036	186	0	0	0	0	0
## 1046	0	0	0	0	0	0
## 1049	0	0	0	0	0	0
## 1050	0	0	0	0	0	0
## 1091	0	0	0	0	0	0
## 1180	0	36	190	0	0	0
## 1217	0	0	0	0	0	0
## 1219	0	0	0	0	0	0

## 1233	0	0	0	0	0	0	0
## 1322	0	0	0	0	0	0	0
## 1413	0	0	0	0	0	0	0
##	PoolQC	Fence	MiscFeature	MiscVal	MoSold	YrSold	SaleType SaleCondition
## 18	<NA>	<NA>	Shed	500	10	2006	WD Normal
## 40	<NA>	<NA>	<NA>	0	6	2008	WD AdjLand
## 91	<NA>	<NA>	<NA>	0	7	2006	WD Normal
## 103	<NA>	<NA>	<NA>	0	6	2009	WD Alloca
## 157	<NA>	<NA>	<NA>	0	6	2006	WD Normal
## 183	<NA>	MnPrv	<NA>	0	6	2007	WD Normal
## 260	<NA>	<NA>	<NA>	0	12	2008	WD Normal
## 333	<NA>	<NA>	<NA>	0	10	2009	WD Normal
## 343	<NA>	<NA>	<NA>	0	5	2006	WD Normal
## 363	<NA>	<NA>	<NA>	0	7	2009	ConLD Normal
## 372	<NA>	<NA>	<NA>	0	7	2008	WD Normal
## 393	<NA>	MnPrv	Shed	1200	7	2007	WD Normal
## 521	<NA>	<NA>	<NA>	0	8	2008	WD Normal
## 533	<NA>	<NA>	<NA>	0	4	2010	WD Normal
## 534	<NA>	<NA>	<NA>	0	1	2007	WD Normal
## 554	<NA>	MnPrv	<NA>	0	5	2009	WD Normal
## 647	<NA>	<NA>	<NA>	0	7	2008	WD Normal
## 706	<NA>	<NA>	Othr	3500	7	2010	WD Normal
## 737	<NA>	<NA>	<NA>	0	7	2006	WD Normal
## 750	<NA>	<NA>	<NA>	0	4	2009	WD Normal
## 779	<NA>	<NA>	<NA>	0	10	2007	WD Normal
## 869	<NA>	<NA>	<NA>	0	5	2006	WD Normal
## 895	<NA>	<NA>	<NA>	0	6	2009	WD Alloca
## 898	<NA>	<NA>	<NA>	0	6	2009	WD Alloca
## 949	<NA>	<NA>	<NA>	0	2	2006	WD Normal
## 985	<NA>	<NA>	<NA>	0	8	2009	COD Normal
## 1001	<NA>	<NA>	<NA>	0	7	2009	WD Normal
## 1012	<NA>	<NA>	<NA>	0	5	2010	WD Normal
## 1036	<NA>	<NA>	<NA>	0	1	2009	WD Normal
## 1046	<NA>	<NA>	<NA>	0	6	2009	WD Normal
## 1049	<NA>	GdPrv	<NA>	0	11	2009	WD Normal
## 1050	<NA>	<NA>	<NA>	0	4	2010	WD Abnorml
## 1091	<NA>	<NA>	<NA>	0	6	2009	WD Normal
## 1180	<NA>	<NA>	<NA>	0	4	2006	WD Normal
## 1217	<NA>	<NA>	<NA>	0	4	2010	WD Normal
## 1219	<NA>	<NA>	<NA>	0	7	2006	WD Normal
## 1233	<NA>	<NA>	<NA>	0	3	2007	WD Normal
## 1322	<NA>	<NA>	<NA>	0	7	2008	WD Normal
## 1413	<NA>	<NA>	<NA>	0	6	2009	WD Normal
##	SalePrice						
## 18	90000						
## 40	82000						
## 91	109900						
## 103	118964						
## 157	109500						
## 183	120000						
## 260	97000						
## 333	284000						
## 343	87500						
## 363	198500						

```
## 372      134432
## 393      106500
## 521      106250
## 533      107500
## 534       39300
## 554      108000
## 647       98300
## 706       55000
## 737       93500
## 750       98000
## 779      144000
## 869      169000
## 895      118858
## 898      142953
## 949      192500
## 985      126000
## 1001      82000
## 1012     100000
## 1036      84000
## 1046     139600
## 1049     115000
## 1050      84900
## 1091      92900
## 1180      93000
## 1217     112000
## 1219      80500
## 1233     101800
## 1322      72500
## 1413      90000
```

```
#Handle missing data for the basement value.
```

```
#Most have the same number of missing values except BSMT exposure and BSMT FinType2.For BSMT FinType2
```

```
# Change the value from NA to "No" in bsmt Exposure
train[949, 32] <- "No"
```

```
# Replace NA with "No basement" in the specified columns
train[, cols_to_check] <- lapply(train[, cols_to_check], function(col) {
  col[is.na(col)] <- "No basement"
  return(col)
})
```

```
colSums(is.na(train[30:35]))
```

```
##      BsmtQual      BsmtCond BsmtExposure BsmtFinType1 BsmtFinSF1 BsmtFinType2
##           0           0           0           0           0           0
```

```
#Fireplace
```

```
#Check null rows in the fireplace columns
```

```
cols_2 <- c("Fireplaces","FireplaceQu")
```

```
# Check for NA in those specific columns
na_cols2 <- apply(train[cols_2], 1, function(row) any(is.na(row)))

# Display rows where any of the specified columns have NA values
train[na_cols2, ]
```

##	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour
## 1	60	RL	65	8450	Pave	<NA>	Reg	Lvl
## 6	50	RL	85	14115	Pave	<NA>	IR1	Lvl
## 11	20	RL	70	11200	Pave	<NA>	Reg	Lvl
## 13	20	RL	NA	12968	Pave	<NA>	IR2	Lvl
## 16	45	RM	51	6120	Pave	<NA>	Reg	Lvl
## 18	90	RL	72	10791	Pave	<NA>	Reg	Lvl
## 19	20	RL	66	13695	Pave	<NA>	Reg	Lvl
## 20	20	RL	70	7560	Pave	<NA>	Reg	Lvl
## 27	20	RL	60	7200	Pave	<NA>	Reg	Lvl
## 30	30	RM	60	6324	Pave	<NA>	IR1	Lvl
## 31	70	C (all)	50	8500	Pave	Pave	Reg	Lvl
## 32	20	RL	NA	8544	Pave	<NA>	IR1	Lvl
## 33	20	RL	85	11049	Pave	<NA>	Reg	Lvl
## 37	20	RL	112	10859	Pave	<NA>	Reg	Lvl
## 39	20	RL	68	7922	Pave	<NA>	Reg	Lvl
## 40	90	RL	65	6040	Pave	<NA>	Reg	Lvl
## 43	85	RL	NA	9180	Pave	<NA>	IR1	Lvl
## 44	20	RL	NA	9200	Pave	<NA>	IR1	Lvl
## 45	20	RL	70	7945	Pave	<NA>	Reg	Lvl
## 48	20	FV	84	11096	Pave	<NA>	Reg	Lvl
## 49	190	RM	33	4456	Pave	<NA>	Reg	Lvl
## 50	20	RL	66	7742	Pave	<NA>	Reg	Lvl
## 51	60	RL	NA	13869	Pave	<NA>	IR2	Lvl
## 53	90	RM	110	8472	Grvl	<NA>	IR2	Bnk
## 57	160	FV	24	2645	Pave	Pave	Reg	Lvl
## 58	60	RL	89	11645	Pave	<NA>	IR1	Lvl
## 60	20	RL	60	7200	Pave	<NA>	Reg	Bnk
## 61	20	RL	63	13072	Pave	<NA>	Reg	Lvl
## 62	75	RM	60	7200	Pave	<NA>	Reg	Lvl
## 64	70	RM	50	10300	Pave	<NA>	IR1	Bnk
## 65	60	RL	NA	9375	Pave	<NA>	Reg	Lvl
## 68	20	RL	72	10665	Pave	<NA>	IR1	Lvl
## 69	30	RM	47	4608	Pave	<NA>	Reg	Lvl
## 72	20	RL	69	7599	Pave	<NA>	Reg	Lvl
## 74	20	RL	85	10200	Pave	<NA>	Reg	Lvl
## 75	50	RM	60	5790	Pave	<NA>	Reg	Lvl
## 76	180	RM	21	1596	Pave	<NA>	Reg	Lvl
## 77	20	RL	NA	8475	Pave	<NA>	IR1	Lvl
## 78	50	RM	50	8635	Pave	<NA>	Reg	Lvl
## 79	90	RL	72	10778	Pave	<NA>	Reg	Lvl
## 80	50	RM	60	10440	Pave	Grvl	Reg	Lvl
## 82	120	RM	32	4500	Pave	<NA>	Reg	Lvl
## 84	20	RL	80	8892	Pave	<NA>	IR1	Lvl
## 88	160	FV	40	3951	Pave	Pave	Reg	Lvl
## 89	50	C (all)	105	8470	Pave	<NA>	IR1	Lvl
## 90	20	RL	60	8070	Pave	<NA>	Reg	Lvl

## 91	20	RL	60	7200	Pave	<NA>	Reg	Lvl
## 92	20	RL	85	8500	Pave	<NA>	Reg	Lvl
## 93	30	RL	80	13360	Pave	Grvl	IR1	HLS
## 95	60	RL	69	9337	Pave	<NA>	IR1	Lvl
## 97	20	RL	78	10264	Pave	<NA>	IR1	Lvl
## 98	20	RL	73	10921	Pave	<NA>	Reg	HLS
## 99	30	RL	85	10625	Pave	<NA>	Reg	Lvl
## 100	20	RL	77	9320	Pave	<NA>	IR1	Lvl
## 103	90	RL	64	7018	Pave	<NA>	Reg	Bnk
## 104	20	RL	94	10402	Pave	<NA>	IR1	Lvl
## 107	30	RM	60	10800	Pave	Grvl	Reg	Lvl
## 108	20	RM	50	6000	Pave	<NA>	Reg	Lvl
## 109	50	RM	85	8500	Pave	<NA>	Reg	Lvl
## 111	50	RL	75	9525	Pave	<NA>	Reg	Lvl
## 118	20	RL	74	8536	Pave	<NA>	Reg	Lvl
## 122	50	RM	50	6060	Pave	<NA>	Reg	Lvl
## 123	20	RL	75	9464	Pave	<NA>	Reg	Lvl
## 124	120	RL	55	7892	Pave	<NA>	Reg	Lvl
## 126	190	RM	60	6780	Pave	<NA>	Reg	Lvl
## 130	20	RL	69	8973	Pave	<NA>	Reg	Lvl
## 133	20	RL	75	7388	Pave	<NA>	Reg	Lvl
## 134	20	RL	NA	6853	Pave	<NA>	IR1	Lvl
## 138	90	RL	82	11070	Pave	<NA>	Reg	Lvl
## 140	60	RL	65	15426	Pave	<NA>	IR1	Lvl
## 142	20	RL	78	11645	Pave	<NA>	Reg	Lvl
## 143	50	RL	71	8520	Pave	<NA>	Reg	Lvl
## 144	20	RL	78	10335	Pave	<NA>	IR1	Lvl
## 145	90	RM	70	9100	Pave	<NA>	Reg	Lvl
## 146	160	RM	24	2522	Pave	<NA>	Reg	Lvl
## 147	30	RM	51	6120	Pave	<NA>	Reg	Lvl
## 149	20	RL	63	7500	Pave	<NA>	Reg	Lvl
## 150	50	RM	NA	6240	Pave	<NA>	Reg	Lvl
## 151	20	RL	120	10356	Pave	<NA>	Reg	Lvl
## 155	30	RM	84	11340	Pave	<NA>	Reg	Lvl
## 156	50	RL	60	9600	Pave	<NA>	Reg	Lvl
## 157	20	RL	60	7200	Pave	<NA>	Reg	Lvl
## 161	20	RL	NA	11120	Pave	<NA>	IR1	Lvl
## 164	45	RL	55	5500	Pave	<NA>	Reg	Lvl
## 165	40	RM	40	5400	Pave	Pave	Reg	Lvl
## 166	190	RL	62	10106	Pave	<NA>	Reg	Lvl
## 171	50	RM	NA	12358	Pave	<NA>	IR1	Lvl
## 180	30	RM	60	8520	Pave	<NA>	Reg	Lvl
## 184	50	RM	63	11426	Pave	<NA>	Reg	Lvl
## 185	50	RL	92	7438	Pave	<NA>	IR1	Lvl
## 187	80	RL	NA	9947	Pave	<NA>	IR1	Lvl
## 188	50	RL	60	10410	Pave	<NA>	Reg	Lvl
## 192	60	RL	NA	7472	Pave	<NA>	IR1	Lvl
## 193	20	RL	68	9017	Pave	<NA>	IR1	Lvl
## 194	160	RM	24	2522	Pave	<NA>	Reg	Lvl
## 195	20	RL	60	7180	Pave	<NA>	IR1	Lvl
## 199	75	RM	92	5520	Pave	<NA>	Reg	Lvl
## 201	20	RM	80	8546	Pave	<NA>	Reg	Lvl
## 203	50	RL	50	7000	Pave	<NA>	Reg	Lvl
## 205	50	RM	50	3500	Pave	Grvl	Reg	Lvl

## 206	20	RL	99	11851	Pave	<NA>	Reg	Lvl
## 210	20	RL	75	8250	Pave	<NA>	Reg	Lvl
## 211	30	RL	67	5604	Pave	<NA>	Reg	Lvl
## 212	20	RL	83	10420	Pave	<NA>	Reg	Lvl
## 214	20	RL	43	13568	Pave	<NA>	IR2	Lvl
## 215	60	RL	NA	10900	Pave	<NA>	IR1	Lvl
## 217	20	RL	65	8450	Pave	<NA>	Reg	Lvl
## 218	70	RM	57	9906	Pave	Grv1	Reg	Lvl
## 220	120	RL	43	3010	Pave	<NA>	Reg	Lvl
## 221	20	RL	73	8990	Pave	<NA>	IR1	Lvl
## 224	20	RL	70	10500	Pave	<NA>	Reg	Lvl
## 226	160	RM	21	1680	Pave	<NA>	Reg	Lvl
## 228	160	RM	21	1869	Pave	<NA>	Reg	Lvl
## 231	20	RL	73	8760	Pave	<NA>	Reg	Lvl
## 234	20	RL	75	10650	Pave	<NA>	Reg	Lvl
## 236	160	RM	21	1680	Pave	<NA>	Reg	Lvl
## 237	20	RL	65	8773	Pave	<NA>	Reg	Lvl
## 238	60	RL	NA	9453	Pave	<NA>	IR1	Lvl
## 239	20	RL	93	12030	Pave	<NA>	Reg	Lvl
## 241	20	FV	75	9000	Pave	<NA>	Reg	Lvl
## 242	30	RM	40	3880	Pave	<NA>	Reg	Lvl
## 243	50	RM	63	5000	Pave	<NA>	Reg	Lvl
## 247	190	RM	69	9142	Pave	Grv1	Reg	Lvl
## 249	60	RL	72	11317	Pave	<NA>	Reg	Lvl
## 251	30	RL	55	5350	Pave	<NA>	IR1	Lvl
## 253	60	RL	65	8366	Pave	<NA>	IR1	Lvl
## 254	80	RL	85	9350	Pave	<NA>	Reg	Lvl
## 255	20	RL	70	8400	Pave	<NA>	Reg	Lvl
## 257	60	FV	64	8791	Pave	<NA>	IR1	Lvl
## 260	20	RM	70	12702	Pave	<NA>	Reg	Lvl
## 264	50	RM	50	5500	Pave	<NA>	Reg	Lvl
## 265	30	RM	30	5232	Pave	Grv1	IR3	Bnk
## 275	20	RL	76	8314	Pave	<NA>	Reg	Lvl
## 276	50	RL	55	7264	Pave	<NA>	Reg	Lvl
## 277	20	RL	129	9196	Pave	<NA>	IR1	Lvl
## 278	20	RL	140	19138	Pave	<NA>	Reg	Lvl
## 282	20	FV	60	7200	Pave	Pave	Reg	Lvl
## 285	120	RL	50	8012	Pave	<NA>	Reg	Lvl
## 286	160	FV	35	4251	Pave	Pave	IR1	Lvl
## 288	20	RL	NA	8125	Pave	<NA>	IR1	Lvl
## 289	20	RL	NA	9819	Pave	<NA>	IR1	Lvl
## 290	70	RL	60	8730	Pave	<NA>	Reg	Lvl
## 292	190	RL	55	5687	Pave	Grv1	Reg	Bnk
## 296	80	RL	37	7937	Pave	<NA>	IR1	Lvl
## 297	50	RM	75	13710	Pave	<NA>	Reg	Lvl
## 304	20	RL	70	9800	Pave	<NA>	Reg	Lvl
## 306	20	RL	80	10386	Pave	<NA>	Reg	Lvl
## 308	50	RM	NA	7920	Pave	Grv1	IR1	Lvl
## 309	30	RL	NA	12342	Pave	<NA>	IR1	Lvl
## 321	60	RL	111	16259	Pave	<NA>	Reg	Lvl
## 324	20	RM	49	5820	Pave	<NA>	Reg	Lvl
## 326	45	RM	50	5000	Pave	<NA>	Reg	Lvl
## 328	20	RL	80	11600	Pave	<NA>	Reg	Lvl
## 329	75	RL	NA	11888	Pave	Pave	IR1	Bnk

## 330	70	RM	60	6402	Pave	<NA>	Reg	Lvl
## 331	90	RL	NA	10624	Pave	<NA>	IR1	Lvl
## 332	20	RL	70	8176	Pave	<NA>	Reg	Lvl
## 338	20	RL	70	9135	Pave	<NA>	Reg	Lvl
## 339	20	RL	91	14145	Pave	<NA>	Reg	Lvl
## 340	20	RL	66	12400	Pave	<NA>	IR1	Lvl
## 341	60	RL	85	14191	Pave	<NA>	Reg	Lvl
## 342	20	RH	60	8400	Pave	<NA>	Reg	Lvl
## 343	90	RL	NA	8544	Pave	<NA>	Reg	Lvl
## 345	160	RM	36	2592	Pave	<NA>	Reg	Lvl
## 347	20	RL	NA	12772	Pave	<NA>	IR1	Lvl
## 349	160	RL	36	2448	Pave	<NA>	Reg	Lvl
## 353	50	RL	60	9084	Pave	<NA>	Reg	Lvl
## 354	30	RM	60	8520	Pave	<NA>	Reg	Lvl
## 356	20	RL	105	11249	Pave	<NA>	IR2	Lvl
## 357	20	RL	NA	9248	Pave	<NA>	IR1	Lvl
## 359	80	RL	92	6930	Pave	<NA>	IR1	Lvl
## 362	50	RL	NA	9144	Pave	Pave	Reg	Lvl
## 364	160	RM	21	1680	Pave	<NA>	Reg	Lvl
## 366	70	RM	59	10690	Pave	<NA>	Reg	Lvl
## 373	120	RL	50	7175	Pave	<NA>	Reg	Lvl
## 374	20	RL	79	10634	Pave	<NA>	Reg	Lvl
## 376	30	RL	NA	10020	Pave	<NA>	IR1	Low
## 377	85	RL	57	8846	Pave	<NA>	IR1	Lvl
## 383	60	RL	79	9245	Pave	<NA>	IR1	Lvl
## 384	45	RH	60	9000	Pave	<NA>	Reg	Lvl
## 387	50	RL	58	8410	Pave	<NA>	Reg	Lvl
## 389	20	RL	93	9382	Pave	<NA>	IR1	Lvl
## 391	50	RL	50	8405	Pave	Grv1	Reg	Lvl
## 393	20	RL	NA	8339	Pave	<NA>	IR1	Lvl
## 395	50	RL	60	10134	Pave	<NA>	Reg	Lvl
## 396	20	RL	68	9571	Pave	<NA>	Reg	Lvl
## 397	20	RL	60	7200	Pave	<NA>	Reg	Low
## 399	30	RM	60	8967	Pave	<NA>	Reg	Lvl
## 400	60	FV	65	8125	Pave	<NA>	Reg	Lvl
## 403	30	RL	60	10200	Pave	<NA>	Reg	Lvl
## 407	50	RL	51	10480	Pave	<NA>	Reg	Lvl
## 408	70	RL	63	15576	Pave	<NA>	Reg	Lvl
## 411	20	RL	68	9571	Pave	<NA>	Reg	Lvl
## 412	190	RL	100	34650	Pave	<NA>	Reg	Bnk
## 416	20	RL	73	8899	Pave	<NA>	IR1	Lvl
## 419	50	RL	60	8160	Pave	<NA>	Reg	Lvl
## 421	90	RM	78	7060	Pave	<NA>	Reg	Lvl
## 423	20	RL	100	21750	Pave	<NA>	Reg	HLS
## 428	20	RL	77	8593	Pave	<NA>	IR1	Lvl
## 429	20	RL	64	6762	Pave	<NA>	Reg	Lvl
## 431	160	RM	21	1680	Pave	<NA>	Reg	Lvl
## 432	50	RM	60	5586	Pave	<NA>	IR1	Bnk
## 433	160	RM	24	1920	Pave	<NA>	Reg	Lvl
## 435	180	RM	21	1890	Pave	<NA>	Reg	Lvl
## 437	50	RM	40	4400	Pave	<NA>	Reg	Lvl
## 438	45	RM	50	6000	Pave	<NA>	Reg	Lvl
## 440	50	RL	67	12354	Pave	Grv1	Reg	Lvl
## 442	90	RL	92	12108	Pave	<NA>	Reg	Lvl

## 450	50	RM	50	6000	Pave	<NA>	Reg	Lvl
## 451	30	RM	70	5684	Pave	<NA>	Reg	Lvl
## 453	60	RL	NA	9303	Pave	<NA>	IR1	Lvl
## 454	60	FV	75	9000	Pave	<NA>	Reg	Lvl
## 455	90	RL	63	9297	Pave	<NA>	Reg	Lvl
## 457	70	RM	34	4571	Pave	Grvl	Reg	Lvl
## 461	60	FV	75	8004	Pave	<NA>	IR1	Lvl
## 462	70	RL	60	7200	Pave	<NA>	Reg	Lvl
## 465	20	RL	60	8430	Pave	<NA>	Reg	HLS
## 470	60	RL	76	9291	Pave	<NA>	IR1	Lvl
## 471	120	RL	NA	6820	Pave	<NA>	IR1	Lvl
## 473	180	RM	35	3675	Pave	<NA>	Reg	Lvl
## 475	120	RL	41	5330	Pave	<NA>	Reg	Lvl
## 476	20	RL	80	8480	Pave	<NA>	Reg	Lvl
## 480	30	RM	50	5925	Pave	<NA>	Reg	Bnk
## 484	120	RM	32	4500	Pave	<NA>	Reg	Lvl
## 485	20	RL	NA	7758	Pave	<NA>	IR1	Lvl
## 487	20	RL	79	10289	Pave	<NA>	Reg	Lvl
## 490	180	RM	21	1526	Pave	<NA>	Reg	Lvl
## 493	60	RL	105	15578	Pave	<NA>	IR1	Lvl
## 495	30	RM	50	5784	Pave	<NA>	Reg	Lvl
## 496	30	C (all)	60	7879	Pave	<NA>	Reg	Lvl
## 498	50	RL	60	9120	Pave	Pave	Reg	Lvl
## 499	20	RL	65	7800	Pave	<NA>	Reg	Lvl
## 500	20	RL	70	7535	Pave	<NA>	IR1	Lvl
## 501	160	RM	21	1890	Pave	<NA>	Reg	Lvl
## 502	60	FV	75	9803	Pave	<NA>	Reg	Lvl
## 503	20	RL	70	9170	Pave	<NA>	Reg	Lvl
## 506	90	RM	60	7596	Pave	Grvl	Reg	Lvl
## 508	20	FV	75	7862	Pave	<NA>	IR1	Lvl
## 510	20	RL	80	9600	Pave	<NA>	Reg	Lvl
## 513	20	RL	70	9100	Pave	<NA>	Reg	Lvl
## 514	20	RL	71	9187	Pave	<NA>	Reg	Bnk
## 515	45	RL	55	10594	Pave	<NA>	Reg	Lvl
## 519	60	RL	NA	9531	Pave	<NA>	IR1	Lvl
## 521	190	RL	60	10800	Pave	Grvl	Reg	Lvl
## 527	20	RL	70	13300	Pave	<NA>	Reg	Lvl
## 529	30	RL	58	9098	Pave	<NA>	IR1	Lvl
## 532	70	RM	60	6155	Pave	<NA>	IR1	Lvl
## 534	20	RL	50	5000	Pave	<NA>	Reg	Low
## 536	190	RL	70	7000	Pave	<NA>	Reg	Lvl
## 537	60	RL	57	8924	Pave	<NA>	IR1	Lvl
## 538	20	RL	NA	12735	Pave	<NA>	IR1	Lvl
## 544	120	RH	34	4058	Pave	<NA>	Reg	Lvl
## 546	50	RL	NA	13837	Pave	<NA>	IR1	Lvl
## 548	85	RL	54	7244	Pave	<NA>	Reg	Lvl
## 549	20	RM	49	8235	Pave	<NA>	IR1	HLS
## 551	120	RL	53	4043	Pave	<NA>	Reg	Lvl
## 552	20	RM	50	6000	Pave	<NA>	Reg	Lvl
## 554	20	RL	67	8777	Pave	<NA>	Reg	Lvl
## 558	50	C (all)	60	11040	Pave	<NA>	Reg	Low
## 566	70	RL	66	6858	Pave	<NA>	Reg	Bnk
## 568	20	RL	70	10171	Pave	<NA>	IR1	Lvl
## 571	90	RL	74	13101	Pave	<NA>	IR1	Lvl



## 572	20	RL	60	7332	Pave	<NA>	Reg	Lvl
## 573	60	RL	83	13159	Pave	<NA>	IR1	HLS
## 575	80	RL	70	10500	Pave	<NA>	Reg	Lvl
## 576	50	RL	80	8480	Pave	<NA>	Reg	Lvl
## 579	160	FV	34	3604	Pave	Pave	Reg	Lvl
## 580	50	RM	81	12150	Pave	Grvl	Reg	Lvl
## 583	90	RL	81	11841	Grvl	<NA>	Reg	Lvl
## 585	50	RM	51	6120	Pave	<NA>	Reg	Lvl
## 587	30	RL	55	10267	Pave	<NA>	Reg	Lvl
## 588	85	RL	74	8740	Pave	<NA>	IR1	Lvl
## 590	40	RM	50	9100	Pave	<NA>	Reg	Lvl
## 591	60	RL	64	8320	Pave	<NA>	Reg	Lvl
## 593	20	RL	60	6600	Pave	<NA>	Reg	Lvl
## 594	120	RM	NA	4435	Pave	<NA>	Reg	Lvl
## 595	20	RL	88	7990	Pave	<NA>	IR1	Lvl
## 597	70	RM	60	3600	Pave	Grvl	Reg	Lvl
## 604	160	FV	30	3182	Pave	Pave	Reg	Lvl
## 607	20	RL	82	12464	Pave	<NA>	IR2	Low
## 608	20	RL	78	7800	Pave	<NA>	Reg	Bnk
## 610	20	RL	61	7943	Pave	<NA>	Reg	Lvl
## 614	20	RL	70	8402	Pave	<NA>	Reg	Lvl
## 615	180	RM	21	1491	Pave	<NA>	Reg	Lvl
## 616	85	RL	80	8800	Pave	<NA>	Reg	Lvl
## 618	45	RL	59	7227	Pave	<NA>	Reg	HLS
## 621	30	RL	45	8248	Pave	Grvl	Reg	Lvl
## 623	20	RL	71	7064	Pave	<NA>	Reg	Lvl
## 626	20	RL	87	10000	Pave	<NA>	IR1	Lvl
## 630	80	RL	82	9020	Pave	<NA>	Reg	Lvl
## 631	70	RM	50	9000	Pave	Grvl	Reg	Lvl
## 634	20	RL	80	9250	Pave	<NA>	Reg	Lvl
## 635	90	RL	64	6979	Pave	<NA>	Reg	Lvl
## 636	190	RH	60	10896	Pave	Pave	Reg	Bnk
## 638	190	RM	50	6000	Pave	<NA>	Reg	Lvl
## 639	30	RL	67	8777	Pave	<NA>	Reg	Lvl
## 644	60	RL	80	10793	Pave	<NA>	Reg	Lvl
## 646	20	RL	NA	10530	Pave	<NA>	IR1	Lvl
## 647	20	RL	60	7200	Pave	<NA>	Reg	Lvl
## 650	180	RM	21	1936	Pave	<NA>	Reg	Lvl
## 651	60	FV	65	8125	Pave	<NA>	Reg	Lvl
## 654	50	RM	60	10320	Pave	Grvl	Reg	Lvl
## 656	160	RM	21	1680	Pave	<NA>	Reg	Lvl
## 657	20	RL	72	10007	Pave	<NA>	IR1	Lvl
## 660	20	RL	75	9937	Pave	<NA>	Reg	Lvl
## 664	85	RL	90	10012	Pave	<NA>	Reg	Lvl
## 671	60	RL	64	8633	Pave	<NA>	Reg	Lvl
## 672	70	RH	54	6629	Pave	<NA>	Reg	Lvl
## 677	70	RM	60	9600	Pave	Grvl	Reg	Lvl
## 678	30	RL	52	9022	Pave	<NA>	Reg	Lvl
## 680	20	RL	NA	9945	Pave	<NA>	IR1	Lvl
## 682	50	RH	55	4500	Pave	Pave	IR2	Bnk
## 685	60	RL	58	16770	Pave	<NA>	IR2	Lvl
## 687	60	FV	84	10207	Pave	<NA>	Reg	Lvl
## 688	160	FV	NA	5105	Pave	<NA>	IR2	Lvl
## 694	30	RL	60	5400	Pave	<NA>	Reg	Lvl

## 695	50	RM	51	6120	Pave	<NA>	Reg	Lvl
## 697	30	RM	50	6000	Pave	<NA>	Reg	Lvl
## 698	20	RL	57	6420	Pave	<NA>	IR1	Lvl
## 700	120	FV	59	4282	Pave	Pave	IR2	Lvl
## 702	20	RL	80	9600	Pave	<NA>	Reg	Lvl
## 705	20	RL	70	8400	Pave	<NA>	Reg	Lvl
## 706	190	RM	70	5600	Pave	<NA>	Reg	Lvl
## 710	20	RL	NA	7162	Pave	<NA>	IR1	Lvl
## 711	30	RL	56	4130	Pave	<NA>	IR1	Lvl
## 712	50	C (all)	66	8712	Pave	Pave	Reg	HLS
## 714	190	RL	60	9873	Pave	<NA>	Reg	Lvl
## 715	60	RL	NA	13517	Pave	<NA>	IR1	Lvl
## 717	70	RM	60	10800	Pave	Grvl	Reg	Bnk
## 722	120	RM	NA	4426	Pave	<NA>	Reg	Lvl
## 723	20	RL	70	8120	Pave	<NA>	Reg	Lvl
## 724	50	RL	60	8172	Pave	<NA>	Reg	Lvl
## 726	20	RL	60	6960	Pave	<NA>	Reg	Lvl
## 728	20	RL	64	7314	Pave	<NA>	Reg	Lvl
## 729	90	RL	85	11475	Pave	<NA>	Reg	Lvl
## 730	30	RM	52	6240	Pave	Grvl	Reg	Lvl
## 735	20	RL	NA	8978	Pave	<NA>	IR1	Lvl
## 737	90	RL	60	8544	Pave	<NA>	Reg	Lvl
## 739	90	RL	60	10800	Pave	<NA>	Reg	Lvl
## 740	60	RL	65	9313	Pave	<NA>	IR1	Lvl
## 741	70	RM	60	9600	Pave	Grvl	Reg	Lvl
## 742	20	RL	65	6768	Pave	<NA>	IR1	Lvl
## 743	20	RL	65	8450	Pave	<NA>	Reg	Lvl
## 750	50	RL	50	8405	Pave	<NA>	Reg	Lvl
## 751	50	RM	55	8800	Pave	Grvl	Reg	Lvl
## 752	60	RL	NA	7750	Pave	<NA>	Reg	Lvl
## 753	20	RL	79	9236	Pave	<NA>	IR1	Lvl
## 755	20	RL	61	7930	Pave	<NA>	Reg	Lvl
## 756	160	FV	34	3230	Pave	Pave	Reg	Lvl
## 757	60	RL	68	10769	Pave	<NA>	IR1	Lvl
## 759	160	FV	24	2280	Pave	Pave	Reg	Lvl
## 761	20	RL	70	9100	Pave	<NA>	Reg	Lvl
## 762	30	RM	60	6911	Pave	<NA>	Reg	Lvl
## 763	60	FV	72	8640	Pave	<NA>	Reg	Lvl
## 768	50	RL	75	12508	Pave	<NA>	IR1	Lvl
## 771	85	RL	NA	7252	Pave	<NA>	IR1	Lvl
## 772	20	RL	67	8877	Pave	<NA>	Reg	Lvl
## 774	20	RL	70	10150	Pave	<NA>	Reg	Lvl
## 776	120	RM	32	4500	Pave	<NA>	Reg	Lvl
## 777	20	RL	86	11210	Pave	<NA>	IR1	Lvl
## 780	90	RL	78	10530	Pave	<NA>	Reg	Lvl
## 782	60	RL	65	7153	Pave	<NA>	Reg	Lvl
## 783	20	RL	67	16285	Pave	<NA>	IR2	Lvl
## 787	50	RM	60	10800	Pave	<NA>	Reg	Lvl
## 788	60	RL	76	10142	Pave	<NA>	IR1	Lvl
## 789	20	RM	50	6000	Pave	<NA>	Reg	Lvl
## 790	60	RL	NA	12205	Pave	<NA>	IR1	Low
## 794	20	RL	76	9158	Pave	<NA>	Reg	Lvl
## 798	20	RL	57	7677	Pave	<NA>	Reg	Lvl
## 801	60	RL	79	12798	Pave	<NA>	IR1	HLS

## 802	30	RM	40	4800	Pave	<NA>	Reg	Lvl
## 805	20	RL	75	9000	Pave	<NA>	Reg	Lvl
## 806	20	RL	91	12274	Pave	<NA>	IR1	Lvl
## 807	80	RL	75	9750	Pave	<NA>	Reg	Lvl
## 810	75	RM	90	8100	Pave	<NA>	Reg	Lvl
## 813	20	C (all)	66	8712	Grvl	<NA>	Reg	Bnk
## 814	20	RL	75	9750	Pave	<NA>	Reg	Lvl
## 815	50	RL	45	8248	Pave	Grvl	Reg	Lvl
## 816	20	RL	48	12137	Pave	<NA>	IR2	Lvl
## 819	80	RL	80	8816	Pave	<NA>	Reg	Lvl
## 821	60	RL	72	7226	Pave	<NA>	IR1	Lvl
## 822	20	RM	60	6000	Pave	Pave	Reg	Bnk
## 827	45	RM	50	6130	Pave	<NA>	Reg	Lvl
## 829	60	RL	NA	28698	Pave	<NA>	IR2	Low
## 830	160	FV	24	2544	Pave	Pave	Reg	Lvl
## 832	160	FV	30	3180	Pave	Pave	Reg	Lvl
## 834	20	RL	100	10004	Pave	<NA>	Reg	Lvl
## 835	20	RL	75	7875	Pave	<NA>	Reg	Lvl
## 836	20	RL	60	9600	Pave	<NA>	Reg	Lvl
## 837	30	RM	90	8100	Pave	Pave	Reg	Lvl
## 838	160	RM	21	1680	Pave	<NA>	Reg	Lvl
## 839	20	RL	75	9525	Pave	<NA>	Reg	Lvl
## 840	50	RL	70	11767	Pave	<NA>	Reg	Lvl
## 841	70	RH	NA	12155	Pave	<NA>	IR1	Lvl
## 843	80	RL	82	9020	Pave	<NA>	Reg	Lvl
## 844	90	RL	80	8000	Pave	<NA>	Reg	Lvl
## 851	120	RM	36	4435	Pave	<NA>	Reg	Lvl
## 856	20	RL	NA	6897	Pave	<NA>	IR1	Lvl
## 857	80	RL	NA	10970	Pave	<NA>	IR1	Low
## 862	190	RL	75	11625	Pave	<NA>	Reg	Lvl
## 863	20	RL	81	9672	Pave	<NA>	Reg	Lvl
## 864	20	RL	70	7931	Pave	<NA>	Reg	Lvl
## 865	20	FV	72	8640	Pave	<NA>	Reg	Lvl
## 866	20	RL	NA	8750	Pave	<NA>	IR1	Lvl
## 868	20	RL	85	6970	Pave	<NA>	Reg	Lvl
## 871	20	RL	60	6600	Pave	<NA>	Reg	Lvl
## 872	60	RL	70	8750	Pave	<NA>	Reg	Lvl
## 873	20	RL	74	8892	Pave	<NA>	Reg	Lvl
## 875	50	RM	52	5720	Pave	<NA>	Reg	Lvl
## 877	20	RL	94	25286	Pave	<NA>	Reg	HLS
## 879	85	RL	88	11782	Pave	<NA>	IR1	Lvl
## 880	20	RL	NA	7000	Pave	<NA>	IR1	Lvl
## 881	20	RL	60	7024	Pave	<NA>	Reg	Lvl
## 884	75	RL	60	6204	Pave	<NA>	Reg	Bnk
## 885	20	RL	65	7150	Pave	<NA>	Reg	Lvl
## 887	90	RL	70	8393	Pave	<NA>	Reg	Lvl
## 888	50	RL	59	16466	Pave	<NA>	IR1	Lvl
## 893	20	RL	70	8414	Pave	<NA>	Reg	Lvl
## 895	90	RL	64	7018	Pave	<NA>	Reg	Bnk
## 897	30	RM	50	8765	Pave	Grvl	Reg	Lvl
## 898	90	RL	64	7018	Pave	<NA>	Reg	Lvl
## 901	20	RL	NA	7340	Pave	<NA>	IR1	Lvl
## 902	20	RL	64	8712	Pave	<NA>	IR1	Lvl
## 905	20	RL	NA	6173	Pave	<NA>	IR1	Lvl

## 906	20	RL	80	9920	Pave	<NA>	Reg	Lvl
## 909	20	RL	NA	8885	Pave	<NA>	IR1	Low
## 911	90	RL	80	11600	Pave	<NA>	Reg	Lvl
## 912	20	RL	NA	9286	Pave	<NA>	IR1	Lvl
## 913	30	RM	51	6120	Pave	<NA>	Reg	Lvl
## 914	90	RH	82	6270	Pave	<NA>	Reg	HLS
## 915	160	FV	30	3000	Pave	Pave	Reg	Lvl
## 916	160	RM	21	2001	Pave	<NA>	Reg	Lvl
## 917	20	C (all)	50	9000	Pave	<NA>	Reg	Lvl
## 918	20	RL	NA	17140	Pave	<NA>	Reg	Lvl
## 921	60	RL	70	8462	Pave	<NA>	IR1	Lvl
## 922	90	RL	67	8777	Pave	<NA>	Reg	Lvl
## 926	20	RL	NA	15611	Pave	<NA>	IR1	Lvl
## 931	20	RL	73	8925	Pave	<NA>	IR1	HLS
## 932	20	RL	70	9100	Pave	<NA>	Reg	Lvl
## 934	20	RL	63	8487	Pave	<NA>	Reg	Lvl
## 936	30	RL	52	5825	Pave	<NA>	IR1	Lvl
## 937	20	RL	67	10083	Pave	<NA>	Reg	Lvl
## 939	60	RL	73	8760	Pave	<NA>	Reg	Lvl
## 941	90	RL	55	12640	Pave	<NA>	IR1	Lvl
## 943	90	RL	42	7711	Pave	<NA>	IR1	Lvl
## 944	90	RL	100	25000	Pave	<NA>	Reg	Low
## 946	50	RM	98	8820	Pave	<NA>	Reg	Lvl
## 951	20	RL	60	7200	Pave	<NA>	Reg	Lvl
## 952	20	RH	60	7800	Pave	<NA>	Reg	Lvl
## 953	85	RL	60	7200	Pave	<NA>	Reg	Lvl
## 955	90	RL	35	9400	Pave	<NA>	IR1	Lvl
## 956	90	RH	82	7136	Pave	<NA>	IR1	HLS
## 958	20	RL	70	7420	Pave	<NA>	Reg	Lvl
## 959	20	RL	65	8450	Pave	<NA>	Reg	Lvl
## 960	160	FV	24	2572	Pave	<NA>	Reg	Lvl
## 961	20	RL	50	7207	Pave	<NA>	IR1	Lvl
## 964	20	RL	122	11923	Pave	<NA>	IR1	Lvl
## 968	20	RL	NA	7390	Pave	<NA>	IR1	Lvl
## 969	50	RM	50	5925	Pave	<NA>	Reg	Lvl
## 970	190	RL	75	10382	Pave	<NA>	Reg	Lvl
## 971	50	RL	60	10800	Pave	<NA>	Reg	Lvl
## 972	160	RL	36	2268	Pave	<NA>	Reg	Lvl
## 974	20	FV	95	11639	Pave	<NA>	Reg	Lvl
## 975	70	RL	60	11414	Pave	<NA>	IR1	Lvl
## 976	160	FV	NA	2651	Pave	<NA>	Reg	Lvl
## 977	30	RL	51	5900	Pave	<NA>	IR1	Bnk
## 978	120	FV	35	4274	Pave	Pave	IR1	Lvl
## 979	20	RL	68	9450	Pave	<NA>	Reg	Bnk
## 980	20	RL	80	8816	Pave	<NA>	Reg	Lvl
## 981	85	RL	NA	12122	Pave	<NA>	IR1	Lvl
## 985	90	RL	75	10125	Pave	<NA>	Reg	Lvl
## 986	190	RL	68	10880	Pave	<NA>	Reg	Lvl
## 987	50	RM	59	5310	Pave	<NA>	Reg	Lvl
## 990	60	FV	65	8125	Pave	<NA>	Reg	Lvl
## 994	60	RL	68	8846	Pave	<NA>	Reg	Lvl
## 996	50	RL	51	4712	Pave	<NA>	IR1	Lvl
## 997	20	RL	NA	10659	Pave	<NA>	IR1	Lvl
## 1000	20	RL	64	6762	Pave	<NA>	Reg	Lvl

## 1001	20	RL	74	10206	Pave	<NA>	Reg	Lvl
## 1002	30	RL	60	5400	Pave	<NA>	Reg	Lvl
## 1004	90	RL	NA	11500	Pave	<NA>	IR1	Lvl
## 1006	80	RL	65	8385	Pave	<NA>	Reg	Lvl
## 1008	160	RM	21	2217	Pave	<NA>	Reg	Lvl
## 1010	50	RL	60	6000	Pave	<NA>	Reg	Lvl
## 1012	90	RL	75	9825	Pave	<NA>	Reg	Lvl
## 1014	30	RM	60	7200	Pave	<NA>	Reg	Lvl
## 1016	60	RL	70	8400	Pave	<NA>	Reg	Lvl
## 1021	20	RL	60	7024	Pave	<NA>	Reg	Lvl
## 1022	20	RL	64	7406	Pave	<NA>	Reg	Lvl
## 1023	50	RM	52	9439	Pave	<NA>	Reg	Lvl
## 1026	20	RL	70	7700	Pave	<NA>	Reg	Lvl
## 1030	160	RM	21	1680	Pave	<NA>	Reg	Lvl
## 1031	190	RH	NA	7082	Pave	<NA>	Reg	Lvl
## 1034	20	RL	NA	8125	Pave	<NA>	Reg	Lvl
## 1036	20	RL	NA	11500	Pave	<NA>	IR1	Lvl
## 1040	180	RM	21	1477	Pave	<NA>	Reg	Lvl
## 1042	60	RL	NA	9130	Pave	<NA>	Reg	Lvl
## 1048	20	RL	57	9245	Pave	<NA>	IR2	Lvl
## 1050	20	RL	60	11100	Pave	<NA>	Reg	Low
## 1051	20	RL	73	8993	Pave	<NA>	IR1	Lvl
## 1061	120	RL	41	4920	Pave	<NA>	Reg	Lvl
## 1062	30	C (all)	120	18000	Grvl	<NA>	Reg	Low
## 1063	190	RM	85	13600	Pave	Grvl	Reg	Lvl
## 1066	60	RL	80	14000	Pave	<NA>	Reg	Lvl
## 1068	60	RL	80	9760	Pave	<NA>	Reg	Lvl
## 1070	45	RL	60	9600	Pave	<NA>	Reg	Lvl
## 1071	20	RL	72	10152	Pave	<NA>	Reg	Lvl
## 1072	60	RL	78	11700	Pave	<NA>	Reg	Lvl
## 1074	60	RL	75	7950	Pave	<NA>	IR1	Bnk
## 1075	20	RL	74	8556	Pave	<NA>	Reg	Lvl
## 1078	20	RL	NA	15870	Pave	<NA>	IR1	Lvl
## 1080	20	RL	65	8775	Pave	<NA>	Reg	Lvl
## 1081	20	RL	80	11040	Pave	<NA>	Reg	Lvl
## 1082	20	RL	75	7500	Pave	<NA>	Reg	Lvl
## 1086	85	RL	73	9069	Pave	<NA>	Reg	Lvl
## 1087	160	RM	NA	1974	Pave	<NA>	Reg	Lvl
## 1089	160	RM	24	2522	Pave	<NA>	Reg	Lvl
## 1091	90	RL	60	8544	Pave	<NA>	Reg	Lvl
## 1092	160	FV	24	2160	Pave	Pave	Reg	Lvl
## 1094	20	RL	71	9230	Pave	<NA>	Reg	Lvl
## 1095	20	RL	74	5868	Pave	<NA>	Reg	Lvl
## 1097	70	RM	60	6882	Pave	<NA>	Reg	Lvl
## 1098	120	RL	NA	3696	Pave	<NA>	Reg	Lvl
## 1099	50	RM	50	6000	Pave	<NA>	Reg	Lvl
## 1101	30	RL	60	8400	Pave	<NA>	Reg	Bnk
## 1102	20	RL	61	9758	Pave	<NA>	IR1	Lvl
## 1103	20	RL	70	7000	Pave	<NA>	Reg	Lvl
## 1105	160	RM	24	2016	Pave	<NA>	Reg	Lvl
## 1113	20	RL	73	7100	Pave	<NA>	IR1	Lvl
## 1114	20	RL	66	8923	Pave	<NA>	Reg	Lvl
## 1115	20	RL	90	5400	Pave	<NA>	Reg	Lvl
## 1118	20	RL	57	9764	Pave	<NA>	IR1	Lvl

## 1119	80	RL	85	13825	Pave	<NA>	Reg	Lvl
## 1120	20	RL	70	7560	Pave	<NA>	Reg	Lvl
## 1122	20	RL	84	10084	Pave	<NA>	Reg	Lvl
## 1123	20	RL	NA	8926	Pave	<NA>	IR1	Lvl
## 1124	20	RL	50	9405	Pave	<NA>	Reg	Lvl
## 1130	90	RM	60	7200	Pave	Grvl	Reg	Lvl
## 1132	20	RL	63	10712	Pave	<NA>	Reg	Lvl
## 1133	70	RM	90	9900	Pave	<NA>	Reg	Lvl
## 1137	50	RL	80	9600	Pave	<NA>	Reg	Lvl
## 1138	50	RL	54	6342	Pave	<NA>	Reg	Lvl
## 1141	20	RL	60	7350	Pave	<NA>	Reg	Lvl
## 1144	20	RL	NA	9000	Pave	<NA>	Reg	Lvl
## 1145	190	RL	60	12180	Pave	<NA>	Reg	Lvl
## 1150	70	RM	50	9000	Pave	<NA>	Reg	Lvl
## 1154	30	RM	NA	5890	Pave	<NA>	Reg	Lvl
## 1159	20	RL	92	11932	Pave	<NA>	Reg	Lvl
## 1164	90	RL	60	12900	Pave	<NA>	Reg	Lvl
## 1166	20	RL	79	9541	Pave	<NA>	IR1	Lvl
## 1167	20	RL	64	10475	Pave	<NA>	IR1	Lvl
## 1173	160	FV	35	4017	Pave	Pave	IR1	Lvl
## 1177	20	RL	37	6951	Pave	<NA>	IR1	Lvl
## 1178	50	RM	NA	3950	Pave	Grvl	Reg	Bnk
## 1181	60	RL	NA	11170	Pave	<NA>	IR2	Lvl
## 1186	50	RL	60	9738	Pave	<NA>	Reg	Lvl
## 1187	190	RL	107	10615	Pave	<NA>	IR1	Bnk
## 1189	60	RL	68	8935	Pave	<NA>	IR1	Lvl
## 1192	160	FV	24	2645	Pave	Pave	Reg	Lvl
## 1193	50	RM	60	9600	Pave	Grvl	Reg	Lvl
## 1194	120	RM	NA	4500	Pave	<NA>	Reg	Lvl
## 1195	60	RL	80	9364	Pave	<NA>	Reg	Lvl
## 1196	60	RL	51	8029	Pave	<NA>	IR1	Lvl
## 1199	20	RL	70	9100	Pave	<NA>	Reg	Lvl
## 1201	20	RL	71	9353	Pave	<NA>	Reg	Lvl
## 1202	60	RL	80	10400	Pave	<NA>	Reg	Lvl
## 1205	20	RL	78	10140	Pave	<NA>	Reg	Lvl
## 1207	20	RH	NA	8900	Pave	<NA>	Reg	Lvl
## 1208	20	RL	70	9135	Pave	<NA>	Reg	Lvl
## 1209	20	RL	70	7763	Pave	<NA>	Reg	Lvl
## 1212	50	RL	152	12134	Pave	<NA>	IR1	Bnk
## 1213	30	RL	50	9340	Pave	<NA>	Reg	Lvl
## 1214	80	RL	NA	10246	Pave	<NA>	IR1	Lvl
## 1215	85	RL	69	10205	Pave	<NA>	IR1	Lvl
## 1216	20	RL	99	7094	Pave	<NA>	IR1	Lvl
## 1217	90	RM	68	8930	Pave	<NA>	Reg	Lvl
## 1218	20	FV	72	8640	Pave	<NA>	Reg	Lvl
## 1219	50	RM	52	6240	Pave	<NA>	Reg	Lvl
## 1220	160	RM	21	1680	Pave	<NA>	Reg	Lvl
## 1221	20	RL	66	7800	Pave	<NA>	IR1	Lvl
## 1224	20	RL	89	10680	Pave	<NA>	Reg	Lvl
## 1226	80	RL	65	10482	Pave	<NA>	Reg	Lvl
## 1228	20	RL	72	8872	Pave	<NA>	Reg	Lvl
## 1230	80	RL	70	7910	Pave	<NA>	Reg	Lvl
## 1232	90	RL	70	7728	Pave	<NA>	Reg	Lvl
## 1233	90	RL	70	9842	Pave	<NA>	Reg	Lvl

## 1234	20	RL	NA	12160	Pave	<NA>	IR1	Lvl
## 1235	70	RH	55	8525	Pave	<NA>	Reg	Bnk
## 1236	70	RL	96	13132	Pave	<NA>	Reg	Lvl
## 1237	160	RL	36	2628	Pave	<NA>	Reg	Lvl
## 1239	20	RL	63	13072	Pave	<NA>	Reg	Lvl
## 1241	60	RL	65	8158	Pave	<NA>	Reg	Lvl
## 1242	20	RL	83	9849	Pave	<NA>	Reg	Lvl
## 1247	60	FV	65	8125	Pave	<NA>	Reg	Lvl
## 1248	80	RL	NA	12328	Pave	<NA>	IR1	Lvl
## 1250	20	RL	60	7200	Pave	<NA>	Reg	Lvl
## 1253	20	RL	62	9858	Pave	<NA>	Reg	Lvl
## 1258	30	RL	56	4060	Pave	<NA>	Reg	Lvl
## 1259	80	RL	59	9587	Pave	<NA>	IR1	Lvl
## 1260	20	RL	65	9750	Pave	<NA>	Reg	Lvl
## 1262	20	RL	80	9600	Pave	<NA>	Reg	Lvl
## 1265	120	RH	34	4060	Pave	<NA>	Reg	Lvl
## 1266	160	FV	35	3735	Pave	<NA>	Reg	Lvl
## 1270	50	RL	78	11344	Pave	<NA>	Reg	Lvl
## 1273	20	RL	NA	13526	Pave	<NA>	IR1	Lvl
## 1276	90	RL	95	11345	Pave	<NA>	Reg	Lvl
## 1280	50	C (all)	60	7500	Pave	<NA>	Reg	Lvl
## 1281	20	RL	67	9808	Pave	<NA>	IR1	Lvl
## 1283	20	RL	61	8800	Pave	<NA>	IR1	Lvl
## 1284	90	RL	94	9400	Pave	<NA>	Reg	Low
## 1288	20	RL	NA	36500	Pave	<NA>	IR1	Low
## 1292	160	RM	21	1680	Pave	<NA>	Reg	Lvl
## 1293	70	RM	60	6600	Pave	<NA>	Reg	Lvl
## 1295	20	RL	60	8172	Pave	<NA>	Reg	Lvl
## 1296	20	RL	70	8400	Pave	<NA>	Reg	Lvl
## 1297	20	RL	80	8700	Pave	<NA>	Reg	Lvl
## 1298	180	RM	35	3675	Pave	<NA>	Reg	Lvl
## 1300	20	RL	75	7500	Pave	<NA>	Reg	Lvl
## 1304	20	RL	73	8688	Pave	<NA>	Reg	Lvl
## 1305	160	RM	32	3363	Pave	<NA>	Reg	Lvl
## 1308	20	RL	60	8072	Pave	<NA>	Reg	Lvl
## 1309	20	RM	100	12000	Pave	<NA>	Reg	Lvl
## 1310	20	RL	NA	7153	Pave	<NA>	Reg	Lvl
## 1312	20	RL	68	8814	Pave	<NA>	Reg	Lvl
## 1320	20	RL	75	10215	Pave	<NA>	Reg	Bnk
## 1322	20	RL	NA	6627	Pave	<NA>	IR1	Lvl
## 1324	30	RL	50	5330	Pave	<NA>	Reg	HLS
## 1326	30	RM	40	3636	Pave	<NA>	Reg	Lvl
## 1327	30	RH	70	4270	Pave	<NA>	Reg	Bnk
## 1332	80	RL	55	10780	Pave	<NA>	IR1	Lvl
## 1334	50	RM	60	7200	Pave	<NA>	Reg	Lvl
## 1335	160	RM	24	2368	Pave	<NA>	Reg	Lvl
## 1337	90	RL	87	9246	Pave	<NA>	IR1	Lvl
## 1338	30	RM	153	4118	Pave	Grv1	IR1	Bnk
## 1339	60	RL	95	13450	Pave	<NA>	IR1	Lvl
## 1340	20	RL	120	9560	Pave	<NA>	IR1	Lvl
## 1341	20	RL	70	8294	Pave	<NA>	Reg	Lvl
## 1342	20	RL	66	13695	Pave	<NA>	Reg	Lvl
## 1346	30	RM	50	6000	Pave	<NA>	Reg	Lvl
## 1350	70	RM	50	5250	Pave	Pave	Reg	Lvl

## 1351	90	RL	91	11643	Pave	<NA>	Reg	Lvl
## 1353	50	RM	50	6000	Pave	<NA>	Reg	Lvl
## 1357	20	RL	NA	9477	Pave	<NA>	Reg	Lvl
## 1359	160	FV	NA	2117	Pave	<NA>	Reg	Lvl
## 1361	70	RL	51	9842	Pave	<NA>	Reg	Lvl
## 1365	160	FV	30	3180	Pave	Pave	Reg	Lvl
## 1366	60	FV	NA	7500	Pave	<NA>	Reg	Lvl
## 1367	60	RL	68	9179	Pave	<NA>	IR1	Lvl
## 1369	120	RM	NA	4435	Pave	<NA>	Reg	Lvl
## 1371	50	RL	90	5400	Pave	<NA>	Reg	Lvl
## 1377	30	RL	52	6292	Pave	<NA>	Reg	Bnk
## 1378	50	RL	60	10998	Pave	Grvl	Reg	Lvl
## 1379	160	RM	21	1953	Pave	<NA>	Reg	Lvl
## 1380	80	RL	73	9735	Pave	<NA>	Reg	Lvl
## 1381	30	RL	45	8212	Pave	Grvl	Reg	Lvl
## 1383	70	RM	60	7200	Pave	<NA>	Reg	Lvl
## 1384	30	RL	NA	25339	Pave	<NA>	Reg	Lvl
## 1385	50	RL	60	9060	Pave	<NA>	Reg	Lvl
## 1386	50	RM	40	5436	Pave	<NA>	Reg	Lvl
## 1391	20	RL	70	9100	Pave	<NA>	Reg	Lvl
## 1392	90	RL	65	8944	Pave	<NA>	Reg	Lvl
## 1398	70	RM	51	6120	Pave	<NA>	Reg	Lvl
## 1399	50	RL	60	7200	Pave	<NA>	Reg	Lvl
## 1404	20	RL	49	15256	Pave	<NA>	IR1	Lvl
## 1405	50	RL	60	10410	Pave	Grvl	Reg	Lvl
## 1407	85	RL	70	8445	Pave	<NA>	Reg	Lvl
## 1408	20	RL	NA	8780	Pave	<NA>	IR1	Lvl
## 1409	70	RM	60	7740	Pave	<NA>	Reg	Lvl
## 1411	60	RL	79	12420	Pave	<NA>	Reg	Lvl
## 1412	50	RL	80	9600	Pave	<NA>	Reg	Lvl
## 1413	90	RL	60	7200	Pave	<NA>	Reg	Lvl
## 1417	190	RM	60	11340	Pave	<NA>	Reg	Lvl
## 1419	20	RL	71	9204	Pave	<NA>	Reg	Lvl
## 1423	120	RM	37	4435	Pave	<NA>	Reg	Lvl
## 1426	20	RL	80	10721	Pave	<NA>	IR1	Lvl
## 1432	120	RL	NA	4928	Pave	<NA>	IR1	Lvl
## 1433	30	RL	60	10800	Pave	Grvl	Reg	Lvl
## 1437	20	RL	60	9000	Pave	<NA>	Reg	Lvl
## 1439	20	RM	90	7407	Pave	<NA>	Reg	Lvl
## 1445	20	RL	63	8500	Pave	<NA>	Reg	Lvl
## 1446	85	RL	70	8400	Pave	<NA>	Reg	Lvl
## 1447	20	RL	NA	26142	Pave	<NA>	IR1	Lvl
## 1449	50	RL	70	11767	Pave	<NA>	Reg	Lvl
## 1450	180	RM	21	1533	Pave	<NA>	Reg	Lvl
## 1451	90	RL	60	9000	Pave	<NA>	Reg	Lvl
## 1453	180	RM	35	3675	Pave	<NA>	Reg	Lvl
## 1454	20	RL	90	17217	Pave	<NA>	Reg	Lvl
## 1455	20	FV	62	7500	Pave	Pave	Reg	Lvl
## 1459	20	RL	68	9717	Pave	<NA>	Reg	Lvl
## 1460	20	RL	75	9937	Pave	<NA>	Reg	Lvl
##	Utilities	LotConfig	LandSlope	Neighborhood	Condition1	Condition2	BldgType	
## 1	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam	
## 6	AllPub	Inside	Gtl	Mitchel	Norm	Norm	1Fam	
## 11	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam	



## 13	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 16	AllPub	Corner	Gtl	BrkSide	Norm	Norm	1Fam
## 18	AllPub	Inside	Gtl	Sawyer	Norm	Norm	Duplex
## 19	AllPub	Inside	Gtl	SawyerW	RRAe	Norm	1Fam
## 20	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 27	AllPub	Corner	Gtl	Names	Norm	Norm	1Fam
## 30	AllPub	Inside	Gtl	BrkSide	Feedr	RRNn	1Fam
## 31	AllPub	Inside	Gtl	IDOTRR	Feedr	Norm	1Fam
## 32	AllPub	CulDSac	Gtl	Sawyer	Norm	Norm	1Fam
## 33	AllPub	Corner	Gtl	CollgCr	Norm	Norm	1Fam
## 37	AllPub	Corner	Gtl	CollgCr	Norm	Norm	1Fam
## 39	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 40	AllPub	Inside	Gtl	Edwards	Norm	Norm	Duplex
## 43	AllPub	CulDSac	Gtl	SawyerW	Norm	Norm	1Fam
## 44	AllPub	CulDSac	Gtl	CollgCr	Norm	Norm	1Fam
## 45	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 48	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 49	AllPub	Inside	Gtl	OldTown	Norm	Norm	2fmCon
## 50	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 51	AllPub	Corner	Gtl	Gilbert	Norm	Norm	1Fam
## 53	AllPub	Corner	Mod	IDOTRR	RRNn	Norm	Duplex
## 57	AllPub	Inside	Gtl	Somerst	Norm	Norm	Twnhs
## 58	AllPub	Corner	Gtl	CollgCr	Norm	Norm	1Fam
## 60	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 61	AllPub	Inside	Gtl	SawyerW	RRAe	Norm	1Fam
## 62	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 64	AllPub	Inside	Gtl	OldTown	RRAn	Feedr	1Fam
## 65	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 68	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 69	AllPub	Corner	Gtl	OldTown	Artery	Norm	1Fam
## 72	AllPub	Corner	Gtl	Mitchel	Norm	Norm	1Fam
## 74	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 75	AllPub	Corner	Gtl	OldTown	Norm	Norm	1Fam
## 76	AllPub	Inside	Gtl	MeadowV	Norm	Norm	Twnhs
## 77	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 78	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 79	AllPub	Inside	Gtl	Sawyer	Norm	Norm	Duplex
## 80	AllPub	Corner	Gtl	OldTown	Norm	Norm	1Fam
## 82	AllPub	FR2	Gtl	Mitchel	Norm	Norm	TwnhsE
## 84	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 88	AllPub	Corner	Gtl	Somerst	Norm	Norm	TwnhsE
## 89	AllPub	Corner	Gtl	IDOTRR	Feedr	Feedr	1Fam
## 90	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 91	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 92	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 93	AllPub	Inside	Gtl	Crawfor	Norm	Norm	1Fam
## 95	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 97	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 98	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 99	AllPub	Corner	Gtl	Edwards	Norm	Norm	1Fam
## 100	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 103	AllPub	Inside	Gtl	SawyerW	Norm	Norm	Duplex
## 104	AllPub	Corner	Gtl	CollgCr	Norm	Norm	1Fam
## 107	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam

## 108	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 109	AllPub	Corner	Gtl	IDOTRR	Artery	Norm	1Fam
## 111	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 118	AllPub	Corner	Gtl	Edwards	Norm	Norm	1Fam
## 122	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 123	AllPub	Corner	Gtl	Names	Norm	Norm	1Fam
## 124	AllPub	Inside	Gtl	SawyerW	Norm	Norm	TwnhsE
## 126	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	2fmCon
## 130	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 133	AllPub	Corner	Gtl	Names	Norm	Norm	1Fam
## 134	AllPub	Inside	Gtl	Timber	Norm	Norm	1Fam
## 138	AllPub	Inside	Gtl	Mitchel	Norm	Norm	Duplex
## 140	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 142	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 143	AllPub	Corner	Gtl	Names	Artery	Norm	1Fam
## 144	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 145	AllPub	Inside	Gtl	Sawyer	RR Ae	Norm	Duplex
## 146	AllPub	Inside	Gtl	Edwards	Norm	Norm	Twnhs
## 147	AllPub	Corner	Gtl	BrkSide	Norm	Norm	1Fam
## 149	AllPub	Inside	Gtl	SawyerW	Norm	Norm	1Fam
## 150	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 151	AllPub	Corner	Gtl	CollgCr	Norm	Norm	1Fam
## 155	AllPub	Corner	Gtl	OldTown	Norm	Norm	1Fam
## 156	AllPub	Corner	Gtl	Edwards	Artery	Norm	1Fam
## 157	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 161	AllPub	CulDSac	Gtl	Veenker	Norm	Norm	1Fam
## 164	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 165	AllPub	Corner	Gtl	OldTown	Norm	Norm	1Fam
## 166	AllPub	Inside	Gtl	Edwards	Norm	Norm	2fmCon
## 171	AllPub	Inside	Gtl	OldTown	Feedr	Norm	1Fam
## 180	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 184	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 185	AllPub	Inside	Gtl	BrkSide	RR An	Feedr	1Fam
## 187	AllPub	CulDSac	Gtl	Mitchel	Norm	Norm	1Fam
## 188	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 192	AllPub	CulDSac	Gtl	Names	Norm	Norm	1Fam
## 193	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 194	AllPub	Inside	Gtl	Edwards	Norm	Norm	Twnhs
## 195	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 199	AllPub	Corner	Gtl	OldTown	Norm	Norm	1Fam
## 201	AllPub	Corner	Gtl	Edwards	Norm	Norm	1Fam
## 203	AllPub	Corner	Gtl	OldTown	Artery	Norm	1Fam
## 205	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 206	AllPub	Corner	Gtl	Gilbert	Norm	Norm	1Fam
## 210	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 211	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 212	AllPub	Corner	Gtl	Edwards	Norm	Norm	1Fam
## 214	AllPub	CulDSac	Gtl	CollgCr	Norm	Norm	1Fam
## 215	AllPub	FR2	Gtl	CollgCr	Norm	Norm	1Fam
## 217	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 218	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 220	AllPub	Inside	Gtl	Blmngtn	Norm	Norm	TwnhsE
## 221	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 224	AllPub	FR2	Gtl	Names	Norm	Norm	1Fam

## 226	AllPub	Inside	Gtl	BrDale	Norm	Norm	Twnhs
## 228	AllPub	Inside	Gtl	BrDale	Norm	Norm	Twnhs
## 231	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 234	AllPub	Corner	Gtl	CollgCr	Norm	Norm	1Fam
## 236	AllPub	Inside	Gtl	BrDale	Norm	Norm	TwnhsE
## 237	AllPub	FR2	Gtl	CollgCr	Norm	Norm	1Fam
## 238	AllPub	CulDSac	Gtl	SawyerW	RRNe	Norm	1Fam
## 239	AllPub	Inside	Gtl	NridgHt	Norm	Norm	1Fam
## 241	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 242	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 243	AllPub	Corner	Gtl	OldTown	Norm	Norm	1Fam
## 247	AllPub	Inside	Gtl	OldTown	Norm	Norm	2fmCon
## 249	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 251	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 253	AllPub	Inside	Gtl	SawyerW	Norm	Norm	1Fam
## 254	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 255	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 257	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 260	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 264	AllPub	Corner	Gtl	OldTown	Norm	Norm	1Fam
## 265	AllPub	Inside	Gtl	OldTown	Artery	Norm	1Fam
## 275	AllPub	Corner	Gtl	Mitchel	Norm	Norm	1Fam
## 276	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 277	AllPub	Inside	Gtl	Mitchel	Norm	Norm	1Fam
## 278	AllPub	Corner	Gtl	Gilbert	Norm	Norm	1Fam
## 282	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 285	AllPub	Inside	Gtl	SawyerW	Norm	Norm	TwnhsE
## 286	AllPub	Inside	Gtl	Somerst	Norm	Norm	TwnhsE
## 288	AllPub	Corner	Gtl	Names	Norm	Norm	1Fam
## 289	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 290	AllPub	Inside	Gtl	BrkSide	RRAn	Norm	1Fam
## 292	AllPub	Inside	Gtl	SWISU	Norm	Norm	2fmCon
## 296	AllPub	CulDSac	Gtl	Mitchel	Norm	Norm	1Fam
## 297	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 304	AllPub	Corner	Gtl	CollgCr	Norm	Norm	1Fam
## 306	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 308	AllPub	Inside	Gtl	IDOTRR	Artery	Norm	1Fam
## 309	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 321	AllPub	Corner	Gtl	NridgHt	Norm	Norm	1Fam
## 324	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 326	AllPub	Inside	Gtl	IDOTRR	RR Ae	Norm	1Fam
## 328	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 329	AllPub	Inside	Gtl	BrkSide	PosN	Norm	1Fam
## 330	AllPub	Corner	Gtl	IDOTRR	Norm	Norm	1Fam
## 331	AllPub	Inside	Gtl	Names	Norm	Norm	Duplex
## 332	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 338	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 339	AllPub	Corner	Gtl	NWames	Norm	Norm	1Fam
## 340	AllPub	Inside	Gtl	Names	Feedr	Norm	1Fam
## 341	AllPub	Inside	Gtl	Timber	Norm	Norm	1Fam
## 342	AllPub	Inside	Gtl	SawyerW	Feedr	Norm	1Fam
## 343	AllPub	Inside	Gtl	Names	Norm	Norm	Duplex
## 345	AllPub	Inside	Gtl	MeadowV	Norm	Norm	TwnhsE
## 347	AllPub	CulDSac	Gtl	Names	Norm	Norm	1Fam

## 349	AllPub	Inside	Gtl	NridgHt	Norm	Norm	Twnhs
## 353	AllPub	Inside	Gtl	Edwards	Artery	Norm	1Fam
## 354	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 356	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 357	AllPub	Inside	Gtl	Gilbert	Norm	Norm	1Fam
## 359	AllPub	Inside	Gtl	ClearCr	Norm	Norm	1Fam
## 362	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 364	AllPub	Inside	Gtl	BrDale	Norm	Norm	Twnhs
## 366	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 373	AllPub	Inside	Gtl	SawyerW	Norm	Norm	TwnhsE
## 374	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 376	AllPub	Inside	Sev	Edwards	Norm	Norm	1Fam
## 377	AllPub	CulDSac	Gtl	CollgCr	Norm	Norm	1Fam
## 383	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 384	AllPub	Corner	Gtl	SawyerW	Norm	Norm	1Fam
## 387	AllPub	FR2	Gtl	Edwards	Feedr	Norm	1Fam
## 389	AllPub	CulDSac	Gtl	CollgCr	Norm	Norm	1Fam
## 391	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 393	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 395	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 396	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 397	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 399	AllPub	Corner	Gtl	IDOTRR	Norm	Norm	1Fam
## 400	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 403	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 407	AllPub	Inside	Gtl	SWISU	Norm	Norm	1Fam
## 408	AllPub	Inside	Gtl	Crawfor	Norm	Norm	1Fam
## 411	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 412	AllPub	Inside	Gtl	Gilbert	Norm	Norm	2fmCon
## 416	AllPub	Inside	Gtl	Gilbert	Norm	Norm	1Fam
## 419	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 421	AllPub	Inside	Gtl	Mitchel	Norm	Norm	Duplex
## 423	AllPub	Inside	Mod	Mitchel	Artery	Norm	1Fam
## 428	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 429	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 431	AllPub	Inside	Gtl	BrDale	Norm	Norm	Twnhs
## 432	AllPub	Inside	Gtl	OldTown	Feedr	Norm	1Fam
## 433	AllPub	Inside	Gtl	BrDale	Norm	Norm	TwnhsE
## 435	AllPub	Inside	Gtl	MeadowV	Norm	Norm	Twnhs
## 437	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 438	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 440	AllPub	Corner	Gtl	Edwards	Norm	Norm	1Fam
## 442	AllPub	Inside	Gtl	Edwards	Norm	Norm	Duplex
## 450	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 451	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 453	AllPub	Corner	Gtl	Timber	Norm	Norm	1Fam
## 454	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 455	AllPub	Inside	Gtl	Mitchel	Norm	Norm	Duplex
## 457	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 461	AllPub	Inside	Gtl	Somerst	RRAn	Norm	1Fam
## 462	AllPub	Inside	Gtl	SWISU	Feedr	Norm	1Fam
## 465	AllPub	Inside	Mod	CollgCr	Norm	Norm	1Fam
## 470	AllPub	Corner	Gtl	SawyerW	RRNe	Norm	1Fam
## 471	AllPub	Corner	Gtl	StoneBr	Norm	Norm	TwnhsE

## 473	AllPub	Inside	Gtl	Edwards	Norm	Norm	TwnhsE
## 475	AllPub	Inside	Gtl	StoneBr	Norm	Norm	TwnhsE
## 476	AllPub	Corner	Gtl	Sawyer	Norm	Norm	1Fam
## 480	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 484	AllPub	FR2	Gtl	Mitchel	Norm	Norm	Twnhs
## 485	AllPub	Corner	Gtl	Sawyer	Norm	Norm	1Fam
## 487	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 490	AllPub	Inside	Gtl	MeadowV	Norm	Norm	Twnhs
## 493	AllPub	Corner	Gtl	Gilbert	Norm	Norm	1Fam
## 495	AllPub	Inside	Gtl	OldTown	Artery	Norm	1Fam
## 496	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 498	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 499	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 500	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 501	AllPub	Inside	Gtl	BrDale	Norm	Norm	Twnhs
## 502	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 503	AllPub	Corner	Gtl	Edwards	Feedr	Norm	1Fam
## 506	AllPub	Inside	Gtl	OldTown	Artery	Norm	Duplex
## 508	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 510	AllPub	Corner	Gtl	Names	Norm	Norm	1Fam
## 513	AllPub	Corner	Gtl	Names	Feedr	Norm	1Fam
## 514	AllPub	Corner	Gtl	Mitchel	Norm	Norm	1Fam
## 515	AllPub	Inside	Gtl	Crawfor	Norm	Norm	1Fam
## 519	AllPub	CulDSac	Gtl	CollgCr	Norm	Norm	1Fam
## 521	AllPub	Inside	Gtl	OldTown	Norm	Norm	2fmCon
## 527	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 529	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 532	AllPub	FR3	Gtl	BrkSide	RRNn	Feedr	1Fam
## 534	AllPub	Inside	Mod	BrkSide	Norm	Norm	1Fam
## 536	AllPub	Inside	Gtl	Edwards	Norm	Norm	2fmCon
## 537	AllPub	CulDSac	Gtl	CollgCr	Norm	Norm	1Fam
## 538	AllPub	FR2	Gtl	Names	Norm	Norm	1Fam
## 544	AllPub	Inside	Gtl	Names	Norm	Norm	TwnhsE
## 546	AllPub	Corner	Gtl	NWames	Norm	Norm	1Fam
## 548	AllPub	Inside	Gtl	Mitchel	Norm	Norm	1Fam
## 549	AllPub	Inside	Gtl	OldTown	Feedr	RRNn	1Fam
## 551	AllPub	Inside	Gtl	NPkVill	Norm	Norm	TwnhsE
## 552	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 554	AllPub	Inside	Gtl	Edwards	Feedr	Norm	1Fam
## 558	AllPub	Inside	Mod	IDOTRR	Norm	Norm	1Fam
## 566	AllPub	Corner	Gtl	SWISU	Norm	Norm	1Fam
## 568	AllPub	Inside	Gtl	NridgHt	Norm	Norm	1Fam
## 571	AllPub	Inside	Gtl	Names	Norm	Norm	Duplex
## 572	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 573	AllPub	Corner	Gtl	Timber	Norm	Norm	1Fam
## 575	AllPub	FR2	Gtl	Names	Norm	Norm	1Fam
## 576	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 579	AllPub	Corner	Gtl	Somerst	Norm	Norm	TwnhsE
## 580	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 583	AllPub	Inside	Gtl	Edwards	Norm	Norm	Duplex
## 585	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 587	AllPub	Inside	Gtl	BrkSide	RRAn	Norm	1Fam
## 588	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 590	AllPub	Inside	Gtl	BrkSide	RRAn	Feedr	1Fam

## 591	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 593	AllPub	Inside	Gtl	Mitchel	Norm	Norm	1Fam
## 594	AllPub	Inside	Gtl	CollgCr	Norm	Norm	TwnhsE
## 595	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 597	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 604	AllPub	Inside	Gtl	Somerst	Norm	Norm	TwnhsE
## 607	AllPub	Corner	Mod	CollgCr	Norm	Norm	1Fam
## 608	AllPub	Inside	Mod	Edwards	Norm	Norm	1Fam
## 610	AllPub	Inside	Gtl	Sawyer	Feedr	Norm	1Fam
## 614	AllPub	Inside	Gtl	Mitchel	Feedr	Norm	1Fam
## 615	AllPub	Inside	Gtl	MeadowV	Norm	Norm	TwnhsE
## 616	AllPub	Inside	Gtl	Names	Feedr	Norm	1Fam
## 618	AllPub	Corner	Mod	Names	Artery	Norm	1Fam
## 621	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 623	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 626	AllPub	Corner	Gtl	Names	Norm	Norm	1Fam
## 630	AllPub	Corner	Gtl	Names	Feedr	Norm	1Fam
## 631	AllPub	Corner	Gtl	OldTown	Artery	Norm	1Fam
## 634	AllPub	Corner	Gtl	Names	Norm	Norm	1Fam
## 635	AllPub	Inside	Gtl	OldTown	Norm	Norm	Duplex
## 636	AllPub	Inside	Gtl	SWISU	Feedr	Norm	2fmCon
## 638	AllPub	Inside	Gtl	OldTown	Norm	Norm	2fmCon
## 639	AllPub	Inside	Gtl	Edwards	Feedr	Norm	1Fam
## 644	AllPub	Inside	Gtl	NWames	RRAn	Norm	1Fam
## 646	AllPub	Corner	Gtl	Names	Norm	Norm	1Fam
## 647	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 650	AllPub	Inside	Gtl	MeadowV	Norm	Norm	Twnhs
## 651	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 654	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 656	AllPub	Inside	Gtl	BrDale	Norm	Norm	Twnhs
## 657	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 660	AllPub	Corner	Gtl	Edwards	Norm	Norm	1Fam
## 664	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 671	AllPub	FR2	Gtl	CollgCr	Norm	Norm	1Fam
## 672	AllPub	Inside	Gtl	Edwards	Artery	Norm	1Fam
## 677	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 678	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 680	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 682	AllPub	Inside	Gtl	SWISU	Norm	Norm	1Fam
## 685	AllPub	CulDSac	Gtl	NoRidge	Norm	Norm	1Fam
## 687	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 688	AllPub	FR2	Gtl	Somerst	Norm	Norm	TwnhsE
## 694	AllPub	Corner	Sev	OldTown	Norm	Norm	1Fam
## 695	AllPub	Corner	Gtl	BrkSide	Norm	Norm	1Fam
## 697	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 698	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 700	AllPub	Inside	Gtl	Somerst	Norm	Norm	TwnhsE
## 702	AllPub	Inside	Gtl	NWames	Norm	Norm	1Fam
## 705	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 706	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	2fmCon
## 710	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 711	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 712	AllPub	Inside	Mod	IDOTRR	Norm	Norm	1Fam
## 714	AllPub	Inside	Gtl	BrkSide	RRAn	Norm	2fmCon

## 715	AllPub	CulDSac	Gtl	Sawyer	RR Ae	Norm	1Fam
## 717	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 722	AllPub	Inside	Gtl	CollgCr	Norm	Norm	TwnhsE
## 723	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 724	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 726	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 728	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 729	AllPub	Corner	Gtl	Names	Norm	Norm	Duplex
## 730	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 735	AllPub	Corner	Gtl	Sawyer	Norm	Norm	1Fam
## 737	AllPub	Inside	Gtl	Names	Norm	Norm	Duplex
## 739	AllPub	Inside	Gtl	Edwards	Norm	Norm	Duplex
## 740	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 741	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 742	AllPub	Inside	Gtl	Sawyer	Feedr	Norm	1Fam
## 743	AllPub	Inside	Gtl	SawyerW	Norm	Norm	1Fam
## 750	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 751	AllPub	Corner	Gtl	OldTown	Norm	Norm	1Fam
## 752	AllPub	Inside	Gtl	Gilbert	RR An	Norm	1Fam
## 753	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 755	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 756	AllPub	Inside	Gtl	Somerst	Norm	Norm	TwnhsE
## 757	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 759	AllPub	Inside	Gtl	Somerst	Norm	Norm	Twnhs
## 761	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 762	AllPub	FR2	Gtl	BrkSide	Feedr	Norm	1Fam
## 763	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 768	AllPub	Inside	Gtl	Mitchel	Norm	Norm	1Fam
## 771	AllPub	CulDSac	Gtl	Sawyer	Norm	Norm	1Fam
## 772	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 774	AllPub	Inside	Gtl	Names	Feedr	Norm	1Fam
## 776	AllPub	FR2	Gtl	Mitchel	Norm	Norm	TwnhsE
## 777	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 780	AllPub	Inside	Gtl	Mitchel	Norm	Norm	Duplex
## 782	AllPub	Inside	Gtl	SawyerW	Norm	Norm	1Fam
## 783	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 787	AllPub	Inside	Gtl	OldTown	Artery	Norm	1Fam
## 788	AllPub	Inside	Gtl	SawyerW	Norm	Norm	1Fam
## 789	AllPub	Corner	Gtl	OldTown	Norm	Norm	1Fam
## 790	AllPub	Inside	Gtl	ClearCr	Norm	Norm	1Fam
## 794	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 798	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 801	AllPub	Inside	Mod	ClearCr	Feedr	Norm	1Fam
## 802	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 805	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 806	AllPub	FR2	Gtl	Somerst	Norm	Norm	1Fam
## 807	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 810	AllPub	Corner	Gtl	OldTown	Norm	Norm	1Fam
## 813	AllPub	Inside	Mod	IDOTRR	Norm	Norm	1Fam
## 814	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 815	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 816	AllPub	CulDSac	Gtl	CollgCr	Norm	Norm	1Fam
## 819	AllPub	Inside	Gtl	ClearCr	Norm	Norm	1Fam
## 821	AllPub	CulDSac	Gtl	CollgCr	Norm	Norm	1Fam

## 822	AllPub	Inside	Mod	OldTown	Norm	Norm	2fmCon
## 827	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 829	AllPub	CulDSac	Sev	ClearCr	Norm	Norm	1Fam
## 830	AllPub	Inside	Gtl	Somerst	Norm	Norm	Twnhs
## 832	AllPub	Inside	Gtl	Somerst	Norm	Norm	TwnhsE
## 834	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 835	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 836	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 837	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 838	AllPub	Inside	Gtl	BrDale	Norm	Norm	Twnhs
## 839	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 840	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 841	AllPub	Inside	Gtl	SWISU	Norm	Norm	1Fam
## 843	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 844	AllPub	Corner	Gtl	Names	Artery	Norm	Duplex
## 851	AllPub	Inside	Gtl	CollgCr	Norm	Norm	TwnhsE
## 856	AllPub	Corner	Gtl	Sawyer	Norm	Norm	1Fam
## 857	AllPub	Inside	Mod	CollgCr	Norm	Norm	1Fam
## 862	AllPub	Inside	Gtl	Sawyer	Norm	Norm	2fmCon
## 863	AllPub	Corner	Gtl	SawyerW	Norm	Norm	1Fam
## 864	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 865	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 866	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 868	AllPub	Corner	Gtl	Sawyer	Feedr	Norm	1Fam
## 871	AllPub	Inside	Gtl	Names	PosN	Norm	1Fam
## 872	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 873	AllPub	Corner	Gtl	Names	Norm	Norm	1Fam
## 875	AllPub	Inside	Gtl	OldTown	Artery	Norm	1Fam
## 877	AllPub	Inside	Mod	Mitchel	Norm	Norm	1Fam
## 879	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 880	AllPub	CulDSac	Gtl	CollgCr	Norm	Norm	1Fam
## 881	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 884	AllPub	Inside	Gtl	SWISU	Norm	Norm	1Fam
## 885	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 887	AllPub	Corner	Gtl	Names	Norm	Norm	Duplex
## 888	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 893	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 895	AllPub	Inside	Gtl	SawyerW	Norm	Norm	Duplex
## 897	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 898	AllPub	Inside	Gtl	SawyerW	Feedr	Norm	Duplex
## 901	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 902	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 905	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 906	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 909	AllPub	Inside	Mod	Mitchel	Norm	Norm	1Fam
## 911	AllPub	Corner	Gtl	Names	Feedr	Norm	Duplex
## 912	AllPub	CulDSac	Mod	CollgCr	Norm	Norm	1Fam
## 913	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 914	AllPub	Inside	Gtl	Crawfor	Norm	Norm	Duplex
## 915	AllPub	Inside	Gtl	Somerst	Norm	Norm	TwnhsE
## 916	AllPub	Inside	Gtl	MeadowV	Norm	Norm	Twnhs
## 917	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 918	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 921	AllPub	Inside	Gtl	SawyerW	Norm	Norm	1Fam



## 922	AllPub	Inside	Gtl	Edwards	Feedr	Norm	Duplex
## 926	AllPub	Corner	Gtl	NWAmes	Norm	Norm	1Fam
## 931	AllPub	Inside	Gtl	Timber	Norm	Norm	1Fam
## 932	AllPub	Inside	Gtl	NAmes	Norm	Norm	1Fam
## 934	AllPub	FR2	Gtl	CollgCr	Norm	Norm	1Fam
## 936	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 937	AllPub	Inside	Gtl	SawyerW	Norm	Norm	1Fam
## 939	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 941	AllPub	Inside	Gtl	Mitchel	Norm	Norm	Duplex
## 943	AllPub	Inside	Gtl	Edwards	Norm	Norm	Duplex
## 944	AllPub	Inside	Gtl	Mitchel	Norm	Norm	Duplex
## 946	AllPub	Corner	Gtl	OldTown	Norm	Norm	1Fam
## 951	AllPub	Inside	Gtl	NAmes	Norm	Norm	1Fam
## 952	AllPub	Corner	Gtl	SawyerW	Norm	Norm	1Fam
## 953	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 955	AllPub	CulDSac	Gtl	Edwards	Norm	Norm	Duplex
## 956	AllPub	Inside	Gtl	Crawfor	Norm	Norm	Duplex
## 958	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 959	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 960	AllPub	FR2	Gtl	Somerst	Norm	Norm	Twnhs
## 961	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 964	AllPub	Corner	Gtl	CollgCr	Norm	Norm	1Fam
## 968	AllPub	Inside	Gtl	NAmes	Norm	Norm	1Fam
## 969	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 970	AllPub	Inside	Gtl	NAmes	Norm	Norm	2fmCon
## 971	AllPub	Inside	Gtl	NAmes	Norm	Norm	1Fam
## 972	AllPub	Inside	Gtl	NridgHt	Norm	Norm	Twnhs
## 974	AllPub	Corner	Gtl	Somerst	Norm	Norm	1Fam
## 975	AllPub	Corner	Gtl	BrkSide	RRAn	Feedr	1Fam
## 976	AllPub	FR2	Gtl	Somerst	Norm	Norm	Twnhs
## 977	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 978	AllPub	Inside	Gtl	Somerst	Norm	Norm	TwnhsE
## 979	AllPub	Inside	Mod	Edwards	Norm	Norm	1Fam
## 980	AllPub	Corner	Gtl	Sawyer	Feedr	Norm	1Fam
## 981	AllPub	Corner	Gtl	NAmes	Norm	Norm	1Fam
## 985	AllPub	Inside	Gtl	Mitchel	Norm	Norm	Duplex
## 986	AllPub	Inside	Gtl	Edwards	Norm	Norm	2fmCon
## 987	AllPub	Corner	Gtl	OldTown	Feedr	Norm	1Fam
## 990	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 994	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 996	AllPub	Inside	Mod	BrkSide	Feedr	Norm	1Fam
## 997	AllPub	Inside	Gtl	NAmes	Norm	Norm	1Fam
## 1000	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1001	AllPub	Corner	Gtl	Edwards	Norm	Norm	1Fam
## 1002	AllPub	Corner	Gtl	OldTown	Norm	Norm	1Fam
## 1004	AllPub	Corner	Gtl	NWAmes	Feedr	RRAn	Duplex
## 1006	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1008	AllPub	Inside	Gtl	MeadowV	Norm	Norm	TwnhsE
## 1010	AllPub	Inside	Gtl	SWISU	Norm	Norm	1Fam
## 1012	AllPub	Inside	Gtl	Edwards	Norm	Norm	Duplex
## 1014	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 1016	AllPub	Inside	Gtl	NWAmes	Norm	Norm	1Fam
## 1021	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 1022	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam

## 1023	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 1026	AllPub	Corner	Gtl	CollgCr	Norm	Norm	1Fam
## 1030	AllPub	Inside	Gtl	BrDale	Norm	Norm	Twnhs
## 1031	AllPub	Inside	Gtl	SWISU	Norm	Norm	2fmCon
## 1034	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1036	AllPub	CulDSac	Gtl	Edwards	Norm	Norm	1Fam
## 1040	AllPub	Inside	Gtl	MeadowV	Norm	Norm	TwnhsE
## 1042	AllPub	Inside	Gtl	NWAmes	Feedr	Norm	1Fam
## 1048	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1050	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 1051	AllPub	Inside	Gtl	Gilbert	Norm	Norm	1Fam
## 1061	AllPub	Inside	Gtl	StoneBr	Norm	Norm	TwnhsE
## 1062	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 1063	AllPub	Inside	Gtl	OldTown	Norm	Norm	2fmCon
## 1066	AllPub	Inside	Mod	ClearCr	Norm	Norm	1Fam
## 1068	AllPub	Inside	Mod	NAmes	Norm	Norm	1Fam
## 1070	AllPub	Inside	Gtl	NAmes	Norm	Norm	1Fam
## 1071	AllPub	Inside	Gtl	NAmes	Norm	Norm	1Fam
## 1072	AllPub	Inside	Gtl	NWAmes	RRAn	Norm	1Fam
## 1074	AllPub	Corner	Gtl	Edwards	Norm	Norm	1Fam
## 1075	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1078	AllPub	Corner	Gtl	NAmes	Norm	Norm	1Fam
## 1080	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1081	AllPub	Inside	Gtl	NWAmes	Norm	Norm	1Fam
## 1082	AllPub	Corner	Gtl	Sawyer	Feedr	Norm	1Fam
## 1086	AllPub	Inside	Gtl	SawyerW	Norm	Norm	1Fam
## 1087	AllPub	Inside	Gtl	MeadowV	Norm	Norm	TwnhsE
## 1089	AllPub	Inside	Gtl	Edwards	Norm	Norm	Twnhs
## 1091	AllPub	Corner	Gtl	NAmes	Norm	Norm	Duplex
## 1092	AllPub	Inside	Gtl	Somerst	Norm	Norm	Twnhs
## 1094	AllPub	Corner	Gtl	NAmes	Feedr	Norm	1Fam
## 1095	AllPub	Inside	Gtl	NAmes	Norm	Norm	1Fam
## 1097	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 1098	AllPub	Inside	Gtl	StoneBr	Norm	Norm	TwnhsE
## 1099	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 1101	AllPub	Inside	Gtl	SWISU	Norm	Norm	1Fam
## 1102	AllPub	Inside	Gtl	NAmes	Norm	Norm	1Fam
## 1103	AllPub	Inside	Gtl	NAmes	Norm	Norm	1Fam
## 1105	AllPub	Inside	Gtl	BrDale	Norm	Norm	TwnhsE
## 1113	AllPub	Corner	Gtl	NAmes	Norm	Norm	1Fam
## 1114	AllPub	Inside	Gtl	NAmes	Norm	Norm	1Fam
## 1115	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 1118	AllPub	FR2	Gtl	Sawyer	Feedr	Norm	1Fam
## 1119	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 1120	AllPub	Inside	Gtl	NAmes	Norm	Norm	1Fam
## 1122	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1123	AllPub	Corner	Gtl	Edwards	Norm	Norm	1Fam
## 1124	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 1130	AllPub	Inside	Gtl	OldTown	Norm	Norm	Duplex
## 1132	AllPub	Inside	Gtl	Mitchel	Norm	Norm	1Fam
## 1133	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 1137	AllPub	Inside	Gtl	NAmes	Norm	Norm	1Fam
## 1138	AllPub	Inside	Gtl	Sawyer	Feedr	Norm	1Fam
## 1141	AllPub	Corner	Gtl	NAmes	Norm	Norm	1Fam

## 1144	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 1145	AllPub	Inside	Gtl	Edwards	Norm	Norm	2fmCon
## 1150	AllPub	Inside	Gtl	OldTown	Artery	Norm	1Fam
## 1154	AllPub	Corner	Gtl	IDOTRR	Norm	Norm	1Fam
## 1159	AllPub	FR2	Gtl	Somerst	Feedr	Norm	1Fam
## 1164	AllPub	Inside	Gtl	Sawyer	Feedr	Norm	Duplex
## 1166	AllPub	Inside	Gtl	NridgHt	Norm	Norm	1Fam
## 1167	AllPub	Corner	Gtl	CollgCr	Norm	Norm	1Fam
## 1173	AllPub	Inside	Gtl	Somerst	Norm	Norm	TwnhsE
## 1177	AllPub	CulDSac	Gtl	Mitchel	Norm	Norm	1Fam
## 1178	AllPub	Inside	Gtl	OldTown	Artery	Norm	1Fam
## 1181	AllPub	Corner	Gtl	Timber	Norm	Norm	1Fam
## 1186	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 1187	AllPub	Corner	Mod	OldTown	Artery	Artery	2fmCon
## 1189	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1192	AllPub	Inside	Gtl	Somerst	Norm	Norm	Twnhs
## 1193	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 1194	AllPub	FR2	Gtl	Mitchel	Norm	Norm	TwnhsE
## 1195	AllPub	Corner	Gtl	Sawyer	Norm	Norm	1Fam
## 1196	AllPub	Inside	Gtl	Gilbert	Norm	Norm	1Fam
## 1199	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1201	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1202	AllPub	Corner	Gtl	CollgCr	Norm	Norm	1Fam
## 1205	AllPub	Inside	Gtl	NWames	Norm	Norm	1Fam
## 1207	AllPub	Inside	Gtl	SawyerW	Norm	Norm	1Fam
## 1208	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1209	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1212	AllPub	Inside	Mod	Gilbert	Norm	Norm	1Fam
## 1213	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 1214	AllPub	CulDSac	Gtl	Sawyer	Norm	Norm	1Fam
## 1215	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1216	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 1217	AllPub	Inside	Gtl	Sawyer	RRAe	Norm	Duplex
## 1218	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 1219	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 1220	AllPub	Inside	Gtl	BrDale	Norm	Norm	Twnhs
## 1221	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1224	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1226	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1228	AllPub	Corner	Gtl	Names	Norm	Norm	1Fam
## 1230	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1232	AllPub	Inside	Gtl	Names	Norm	Norm	Duplex
## 1233	AllPub	FR2	Gtl	Names	Norm	Norm	Duplex
## 1234	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1235	AllPub	Inside	Gtl	SWISU	Norm	Norm	1Fam
## 1236	AllPub	Inside	Gtl	Crawfor	Norm	Norm	1Fam
## 1237	AllPub	Inside	Gtl	NridgHt	Norm	Norm	Twnhs
## 1239	AllPub	Inside	Gtl	SawyerW	RRAe	Norm	1Fam
## 1241	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1242	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 1247	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 1248	AllPub	Inside	Gtl	Mitchel	Norm	Norm	1Fam
## 1250	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1253	AllPub	Inside	Gtl	Mitchel	Norm	Norm	1Fam

## 1258	AllPub	Corner	Gtl	Edwards	Feedr	Norm	1Fam
## 1259	AllPub	Inside	Gtl	Gilbert	Norm	Norm	1Fam
## 1260	AllPub	FR2	Gtl	Names	Norm	Norm	1Fam
## 1262	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1265	AllPub	Inside	Gtl	Names	Norm	Norm	TwnhsE
## 1266	AllPub	FR3	Gtl	Somerst	Norm	Norm	TwnhsE
## 1270	AllPub	Inside	Gtl	Names	Feedr	Norm	1Fam
## 1273	AllPub	CulDSac	Gtl	Sawyer	Norm	Norm	1Fam
## 1276	AllPub	Corner	Gtl	Names	Feedr	Norm	Duplex
## 1280	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 1281	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1283	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1284	AllPub	Corner	Gtl	Mitchel	Norm	Norm	Duplex
## 1288	AllPub	Inside	Mod	ClearCr	Norm	Norm	1Fam
## 1292	AllPub	Inside	Gtl	BrDale	Norm	Norm	Twnhs
## 1293	AllPub	Corner	Gtl	OldTown	Norm	Norm	1Fam
## 1295	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 1296	AllPub	Inside	Gtl	Names	Feedr	Norm	1Fam
## 1297	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1298	AllPub	Inside	Gtl	Edwards	Norm	Norm	TwnhsE
## 1300	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1304	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 1305	AllPub	Inside	Gtl	Edwards	Norm	Norm	TwnhsE
## 1308	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1309	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 1310	AllPub	Inside	Gtl	SawyerW	Norm	Norm	1Fam
## 1312	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1320	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 1322	AllPub	Corner	Gtl	BrkSide	Feedr	Norm	1Fam
## 1324	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 1326	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 1327	AllPub	Inside	Mod	Edwards	Norm	Norm	1Fam
## 1332	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1334	AllPub	Corner	Gtl	IDOTRR	Norm	Norm	1Fam
## 1335	AllPub	Inside	Gtl	BrDale	Norm	Norm	TwnhsE
## 1337	AllPub	Inside	Gtl	NWames	Feedr	Norm	Duplex
## 1338	AllPub	Corner	Mod	OldTown	Feedr	Norm	1Fam
## 1339	AllPub	Corner	Gtl	CollgCr	Norm	Norm	1Fam
## 1340	AllPub	Corner	Gtl	CollgCr	Norm	Norm	1Fam
## 1341	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1342	AllPub	Inside	Gtl	SawyerW	RRAe	Norm	1Fam
## 1346	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 1350	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 1351	AllPub	Inside	Gtl	Names	Artery	Norm	Duplex
## 1353	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 1357	AllPub	Corner	Gtl	Names	Norm	Norm	1Fam
## 1359	AllPub	Inside	Gtl	Somerst	Norm	Norm	Twnhs
## 1361	AllPub	Inside	Gtl	SWISU	Feedr	Norm	1Fam
## 1365	AllPub	Inside	Gtl	Somerst	Norm	Norm	TwnhsE
## 1366	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 1367	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1369	AllPub	Inside	Gtl	CollgCr	Norm	Norm	TwnhsE
## 1371	AllPub	Corner	Gtl	OldTown	Artery	Norm	1Fam
## 1377	AllPub	Inside	Gtl	SWISU	Norm	Norm	1Fam

## 1378	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 1379	AllPub	Inside	Gtl	BrDale	Norm	Norm	Twnhs
## 1380	AllPub	Inside	Gtl	Timber	Norm	Norm	1Fam
## 1381	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 1383	AllPub	Corner	Gtl	OldTown	Norm	Norm	1Fam
## 1384	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 1385	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 1386	AllPub	Inside	Gtl	IDOTRR	Norm	Norm	1Fam
## 1391	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1392	AllPub	Inside	Gtl	Names	Norm	Norm	Duplex
## 1398	AllPub	Inside	Gtl	BrkSide	Norm	Norm	1Fam
## 1399	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1404	AllPub	CulDSac	Gtl	Somerst	RRAn	Norm	1Fam
## 1405	AllPub	Corner	Gtl	OldTown	Artery	Norm	1Fam
## 1407	AllPub	Corner	Gtl	CollgCr	Norm	Norm	1Fam
## 1408	AllPub	Corner	Gtl	Mitchel	Norm	Norm	1Fam
## 1409	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 1411	AllPub	Inside	Gtl	CollgCr	Norm	Norm	1Fam
## 1412	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1413	AllPub	Inside	Gtl	Names	Norm	Norm	Duplex
## 1417	AllPub	Inside	Gtl	OldTown	Norm	Norm	2fmCon
## 1419	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1423	AllPub	Inside	Gtl	CollgCr	Norm	Norm	TwnhsE
## 1426	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1432	AllPub	Inside	Gtl	NPkVill	Norm	Norm	TwnhsE
## 1433	AllPub	Inside	Gtl	OldTown	Norm	Norm	1Fam
## 1437	AllPub	FR2	Gtl	Names	Norm	Norm	1Fam
## 1439	AllPub	Inside	Gtl	OldTown	Artery	Norm	1Fam
## 1445	AllPub	FR2	Gtl	CollgCr	Norm	Norm	1Fam
## 1446	AllPub	Inside	Gtl	Sawyer	Norm	Norm	1Fam
## 1447	AllPub	CulDSac	Gtl	Mitchel	Norm	Norm	1Fam
## 1449	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam
## 1450	AllPub	Inside	Gtl	MeadowV	Norm	Norm	Twnhs
## 1451	AllPub	FR2	Gtl	Names	Norm	Norm	Duplex
## 1453	AllPub	Inside	Gtl	Edwards	Norm	Norm	TwnhsE
## 1454	AllPub	Inside	Gtl	Mitchel	Norm	Norm	1Fam
## 1455	AllPub	Inside	Gtl	Somerst	Norm	Norm	1Fam
## 1459	AllPub	Inside	Gtl	Names	Norm	Norm	1Fam
## 1460	AllPub	Inside	Gtl	Edwards	Norm	Norm	1Fam

##	HouseStyle	OverallQual	OverallCond	YearBuilt	YearRemodAdd	RoofStyle
## 1	2Story	7	5	2003	2003	Gable
## 6	1.5Fin	5	5	1993	1995	Gable
## 11	1Story	5	5	1965	1965	Hip
## 13	1Story	5	6	1962	1962	Hip
## 16	1.5Unf	7	8	1929	2001	Gable
## 18	1Story	4	5	1967	1967	Gable
## 19	1Story	5	5	2004	2004	Gable
## 20	1Story	5	6	1958	1965	Hip
## 27	1Story	5	7	1951	2000	Gable
## 30	1Story	4	6	1927	1950	Gable
## 31	2Story	4	4	1920	1950	Gambrel
## 32	1Story	5	6	1966	2006	Gable
## 33	1Story	8	5	2007	2007	Gable
## 37	1Story	5	5	1994	1995	Gable

## 39	1Story	5	7	1953	2007	Gable
## 40	1Story	4	5	1955	1955	Gable
## 43	SFoyer	5	7	1983	1983	Gable
## 44	1Story	5	6	1975	1980	Hip
## 45	1Story	5	6	1959	1959	Gable
## 48	1Story	8	5	2006	2006	Gable
## 49	2Story	4	5	1920	2008	Gable
## 50	1Story	5	7	1966	1966	Gable
## 51	2Story	6	6	1997	1997	Gable
## 53	1Story	5	5	1963	1963	Gable
## 57	2Story	8	5	1999	2000	Gable
## 58	2Story	7	5	2004	2004	Gable
## 60	1Story	5	7	1972	1972	Gable
## 61	1Story	6	5	2004	2004	Gable
## 62	2.5Unf	5	7	1920	1996	Gable
## 64	2Story	7	6	1921	1950	Gable
## 65	2Story	7	5	1997	1998	Gable
## 68	1Story	7	5	2003	2003	Gable
## 69	1Story	4	6	1945	1950	Gable
## 72	1Story	4	6	1982	2006	Gable
## 74	1Story	5	7	1954	2003	Gable
## 75	2Story	3	6	1915	1950	Gambrel
## 76	SLvl	4	5	1973	1973	Gable
## 77	1Story	4	7	1956	1956	Gable
## 78	1.5Fin	5	5	1948	2001	Gable
## 79	1Story	4	5	1968	1968	Hip
## 80	2Story	5	6	1910	1981	Gable
## 82	1Story	6	5	1998	1998	Hip
## 84	1Story	5	5	1960	1960	Gable
## 88	2Story	6	5	2009	2009	Gable
## 89	1.5Fin	3	2	1915	1982	Hip
## 90	1Story	4	5	1994	1995	Gable
## 91	1Story	4	5	1950	1950	Gable
## 92	1Story	5	3	1961	1961	Hip
## 93	1Story	5	7	1921	2006	Gable
## 95	2Story	6	5	1997	1997	Gable
## 97	1Story	7	5	1999	1999	Gable
## 98	1Story	4	5	1965	1965	Hip
## 99	1Story	5	5	1920	1950	Gable
## 100	1Story	4	5	1959	1959	Gable
## 103	1Story	5	5	1979	1979	Gable
## 104	1Story	7	5	2009	2009	Gable
## 107	1Story	4	7	1885	1995	Mansard
## 108	1Story	5	5	1948	1950	Gable
## 109	1.5Fin	5	7	1919	2005	Gable
## 111	1.5Fin	6	4	1954	1972	Gable
## 118	1Story	5	5	2006	2007	Gable
## 122	1.5Fin	4	5	1939	1950	Gable
## 123	1Story	6	7	1958	1958	Hip
## 124	1Story	6	5	1993	1993	Gable
## 126	1.5Fin	6	8	1935	1982	Gable
## 130	1Story	5	7	1958	1991	Gable
## 133	1Story	5	6	1959	2002	Gable
## 134	1Story	8	5	2001	2002	Gable

## 138	1Story	7	5	1988	1989	Gable
## 140	2Story	6	5	1997	1997	Gable
## 142	1Story	7	5	2005	2005	Gable
## 143	1.5Fin	5	4	1952	1952	Gable
## 144	1Story	7	5	1999	1999	Gable
## 145	1Story	5	5	1963	1963	Gable
## 146	2Story	6	5	2004	2006	Gable
## 147	1Story	5	7	1931	1993	Gable
## 149	1Story	7	5	2004	2005	Gable
## 150	1.5Fin	5	4	1936	1950	Gable
## 151	1Story	5	6	1975	1975	Gable
## 155	1Story	6	5	1923	1950	Gable
## 156	1.5Fin	6	5	1924	1950	Gable
## 157	1Story	5	7	1950	1950	Hip
## 161	1Story	6	6	1984	1984	Gable
## 164	1.5Unf	4	6	1956	1956	Gable
## 165	1Story	6	7	1926	2004	Gable
## 166	1.5Fin	5	7	1940	1999	Gable
## 171	1.5Fin	5	6	1941	1950	Gable
## 180	1Story	5	6	1923	2006	Gable
## 184	1.5Fin	7	5	2003	2003	Gable
## 185	1.5Fin	5	8	1908	1991	Gable
## 187	SLvl	7	5	1990	1991	Gable
## 188	1.5Fin	5	7	1916	1987	Gable
## 192	2Story	7	9	1972	2004	Gable
## 193	1Story	7	5	1999	1999	Gable
## 194	2Story	7	5	2004	2004	Gable
## 195	1Story	5	7	1972	1972	Hip
## 199	2.5Fin	6	6	1912	1950	Gable
## 201	1Story	4	5	2003	2004	Gable
## 203	1.5Fin	6	6	1924	1950	Gable
## 205	1.5Fin	5	7	1947	1950	Gable
## 206	1Story	7	5	1990	1990	Gable
## 210	1Story	6	7	1964	1964	Hip
## 211	1Story	5	6	1925	1950	Gable
## 212	1Story	6	5	2009	2009	Gable
## 214	1Story	5	5	1995	1995	Gable
## 215	2Story	6	7	1977	1977	Gable
## 217	1Story	7	5	2004	2004	Gable
## 218	2Story	4	4	1925	1950	Gable
## 220	1Story	7	5	2005	2006	Gable
## 221	1Story	7	5	2006	2006	Gable
## 224	1Story	4	6	1971	1971	Gable
## 226	2Story	5	5	1971	1971	Gable
## 228	2Story	6	6	1970	1970	Gable
## 231	1Story	6	6	1959	1959	Hip
## 234	1Story	5	6	1976	1976	Gable
## 236	2Story	6	3	1971	1971	Gable
## 237	1Story	7	5	2004	2004	Gable
## 238	2Story	7	7	1993	2003	Gable
## 239	1Story	8	5	2007	2007	Hip
## 241	1Story	8	5	2008	2008	Gable
## 242	1Story	5	9	1945	1997	Gable
## 243	1.5Fin	5	4	1900	1950	Gable

## 247	2Story	6	8	1910	1950	Gable
## 249	2Story	7	5	2003	2003	Gable
## 251	1Story	3	2	1940	1966	Gable
## 253	2Story	6	5	2004	2004	Gable
## 254	SLvl	6	7	1964	1991	Hip
## 255	1Story	5	6	1957	1957	Gable
## 257	2Story	6	5	2003	2003	Gable
## 260	1Story	5	5	1956	1956	Gable
## 264	1.5Fin	5	7	1929	2001	Gable
## 265	1Story	5	5	1925	2004	Gable
## 275	1Story	5	7	1982	1982	Gable
## 276	1.5Fin	7	7	1925	2007	Gable
## 277	1Story	7	5	2003	2003	Gable
## 278	1Story	4	5	1951	1951	Gable
## 282	1Story	6	5	2006	2006	Gable
## 285	1Story	6	5	1992	1992	Gable
## 286	2Story	7	5	2006	2007	Gable
## 288	1Story	4	4	1971	1971	Gable
## 289	1Story	5	5	1967	1967	Gable
## 290	2Story	6	7	1915	2003	Gable
## 292	2Story	5	6	1912	2000	Gable
## 296	SLvl	6	6	1984	1984	Gable
## 297	1.5Fin	5	5	1950	1950	Gable
## 304	1Story	5	7	1972	1972	Gable
## 306	1Story	8	5	2004	2005	Gable
## 308	1.5Fin	6	7	1920	1950	Gable
## 309	1Story	4	5	1940	1950	Gable
## 321	2Story	9	5	2006	2006	Gable
## 324	1Story	3	8	1955	2005	Gable
## 326	1.5Unf	5	6	1941	1950	Gable
## 328	1Story	6	5	1960	1960	Hip
## 329	2.5Unf	6	6	1916	1994	Gable
## 330	2Story	5	5	1920	1950	Gable
## 331	1Story	5	4	1964	1964	Gable
## 332	1Story	5	6	1958	1992	Gable
## 338	1Story	7	5	2002	2003	Gable
## 339	1Story	7	7	1984	1998	Gable
## 340	1Story	6	7	1958	1998	Hip
## 341	2Story	8	5	2002	2002	Gable
## 342	1Story	4	4	1950	1950	Gable
## 343	1Story	3	4	1949	1950	Gable
## 345	2Story	5	3	1976	1976	Gable
## 347	1Story	6	8	1960	1998	Hip
## 349	2Story	7	5	2003	2004	Gable
## 353	1.5Fin	5	6	1941	1950	Gable
## 354	1Story	6	8	1928	2003	Gable
## 356	1Story	6	5	1995	1995	Gable
## 357	1Story	6	6	1992	1992	Gable
## 359	SLvl	5	4	1958	1958	Hip
## 362	1.5Fin	5	5	1940	1982	Gable
## 364	2Story	6	8	1972	2007	Gable
## 366	2Story	5	7	1920	1997	Hip
## 373	1Story	6	5	1984	1984	Gable
## 374	1Story	5	6	1953	1953	Gable



## 376	1Story	1	1	1922	1950	Gable
## 377	SFoyer	5	5	1996	1996	Gable
## 383	2Story	7	5	2006	2006	Gable
## 384	1.5Unf	6	3	1928	1950	Gable
## 387	1.5Fin	5	3	1910	1996	Gambrel
## 389	1Story	7	5	1999	2000	Gable
## 391	1.5Fin	5	8	1900	1950	Gable
## 393	1Story	5	7	1959	1959	Gable
## 395	1.5Fin	5	6	1940	1950	Gable
## 396	1Story	5	6	1956	1956	Gable
## 397	1Story	5	5	1972	1972	Hip
## 399	1Story	5	2	1920	1950	Gable
## 400	2Story	7	5	2006	2007	Gable
## 403	1Story	5	8	1940	1997	Gable
## 407	1.5Fin	6	5	1936	1950	Gable
## 408	2Story	6	7	1915	1976	Gable
## 411	1Story	5	3	1958	1958	Gable
## 412	1Story	5	5	1955	1955	Hip
## 416	1Story	7	5	2007	2007	Gable
## 419	1.5Fin	5	6	1940	1950	Gable
## 421	SFoyer	7	5	1997	1998	Gable
## 423	1Story	5	5	1954	1954	Hip
## 428	1Story	4	6	1957	1957	Hip
## 429	1Story	7	5	2007	2007	Gable
## 431	2Story	6	5	1971	1971	Gable
## 432	1.5Fin	6	7	1920	1998	Gable
## 433	2Story	5	5	1971	1971	Gable
## 435	SFoyer	4	7	1972	1972	Gable
## 437	1.5Fin	6	8	1920	1950	Gable
## 438	1.5Unf	6	7	1926	2004	Gable
## 440	1.5Fin	6	8	1920	2000	Gable
## 442	1Story	4	4	1955	1955	Gable
## 450	1.5Fin	3	7	1948	2002	Gable
## 451	1Story	6	8	1930	2005	Hip
## 453	2Story	6	5	1996	1997	Hip
## 454	2Story	8	5	2008	2008	Gable
## 455	1Story	5	5	1976	1976	Gable
## 457	2Story	5	5	1916	1950	Gable
## 461	2Story	8	5	2009	2009	Gable
## 462	2Story	7	9	1936	2007	Gable
## 465	1Story	5	5	1978	1978	Gable
## 470	2Story	6	5	1993	1993	Gable
## 471	1Story	8	5	1985	1985	Gable
## 473	SLvl	6	5	2005	2005	Gable
## 475	1Story	8	5	2000	2000	Gable
## 476	1Story	5	6	1963	1963	Hip
## 480	1Story	4	7	1937	2000	Hip
## 484	1Story	6	5	1998	1998	Hip
## 485	1Story	5	7	1962	2001	Gable
## 487	1Story	5	7	1965	1965	Hip
## 490	SFoyer	4	8	1970	2002	Gable
## 493	2Story	6	5	2006	2006	Gable
## 495	1Story	5	8	1938	1996	Gable
## 496	1Story	4	5	1920	1950	Gable

## 498	1.5Fin	7	6	1925	1950	Gable
## 499	1Story	5	7	1967	2004	Hip
## 500	1Story	5	7	1958	1985	Gable
## 501	2Story	6	5	1973	1973	Gable
## 502	2Story	7	5	2005	2005	Gable
## 503	1Story	5	7	1965	1965	Hip
## 506	2Story	5	5	1952	1952	Hip
## 508	1Story	6	5	2009	2009	Gable
## 510	1Story	5	6	1959	1959	Gable
## 513	1Story	5	5	1958	1958	Gable
## 514	1Story	6	5	1983	1983	Gable
## 515	1.5Unf	5	5	1926	1950	Gable
## 519	2Story	6	5	1998	1998	Gable
## 521	2Story	4	7	1900	2000	Gable
## 527	1Story	5	7	1956	2000	Hip
## 529	1Story	4	7	1920	2002	Gable
## 532	2Story	6	8	1920	1999	Gable
## 534	1Story	1	3	1946	1950	Gable
## 536	2Story	5	7	1910	1991	Gable
## 537	2Story	7	5	1998	1999	Gable
## 538	1Story	4	5	1972	1972	Hip
## 544	SFoyer	7	5	1998	1998	Gable
## 546	1.5Fin	7	5	1988	1988	Gable
## 548	SFoyer	5	7	1970	1970	Gable
## 549	1Story	5	7	1955	1995	Gable
## 551	1Story	6	6	1977	1977	Gable
## 552	1Story	5	6	1957	1957	Hip
## 554	1Story	4	5	1949	2003	Gable
## 558	1.5Fin	4	6	1920	1950	Gable
## 566	2Story	6	4	1915	1950	Gable
## 568	1Story	7	5	2004	2004	Gable
## 571	1Story	5	5	1965	1965	Gable
## 572	1Story	6	6	1959	1959	Gable
## 573	2Story	7	5	2009	2009	Gable
## 575	SLvl	5	7	1971	2005	Gambrel
## 576	1.5Fin	5	5	1947	1950	Gable
## 579	2Story	7	5	2007	2007	Gable
## 580	1.5Fin	5	5	1954	1954	Gable
## 583	SFoyer	6	5	1990	1990	Gable
## 585	1.5Fin	4	7	1935	1995	Gable
## 587	1Story	6	7	1918	2000	Gable
## 588	SFoyer	5	6	1982	1982	Hip
## 590	1Story	5	6	1930	1960	Gable
## 591	2Story	7	5	2004	2004	Gable
## 593	1Story	5	8	1982	2003	Gable
## 594	1Story	6	5	2003	2003	Gable
## 595	1Story	5	6	1975	1975	Hip
## 597	2Story	6	7	1910	1993	Gable
## 604	2Story	7	5	2004	2005	Gable
## 607	1Story	5	5	1996	1996	Gable
## 608	2Story	5	8	1948	2002	Gable
## 610	1Story	4	5	1961	1961	Gable
## 614	1Story	5	5	2007	2007	Gable
## 615	SFoyer	4	6	1972	1972	Gable

## 616	SFoyer	6	7	1963	1963	Gable
## 618	1.5Unf	6	6	1954	1954	Gable
## 621	1Story	3	3	1914	1950	Gable
## 623	1Story	5	6	1977	1977	Gable
## 626	1Story	6	6	1962	1962	Hip
## 630	SLvl	6	5	1964	1964	Gable
## 631	2Story	5	6	1880	1991	Gable
## 634	1Story	5	7	1954	2005	Gable
## 635	SFoyer	6	5	1980	1980	Gable
## 636	2.5Fin	6	7	1914	1995	Hip
## 638	1.5Fin	5	4	1954	1954	Gable
## 639	1Story	5	7	1910	1950	Gable
## 644	2Story	5	5	1969	1969	Mansard
## 646	1Story	6	5	1971	1971	Hip
## 647	1Story	5	5	1950	1950	Hip
## 650	SFoyer	4	6	1970	1970	Gable
## 651	2Story	7	6	2007	2007	Gable
## 654	1.5Fin	6	7	1906	1995	Gable
## 656	2Story	6	5	1971	1971	Gable
## 657	1Story	5	7	1959	2006	Gable
## 660	1Story	5	7	1964	1999	Hip
## 664	SFoyer	4	5	1972	1972	Gable
## 671	2Story	6	5	2005	2005	Gable
## 672	2Story	6	6	1925	1950	Gambrel
## 677	2Story	4	2	1900	1950	Gable
## 678	1Story	5	8	1924	2006	Gable
## 680	1Story	5	5	1961	1961	Hip
## 682	1.5Fin	5	5	1932	2000	Gable
## 685	2Story	7	5	1998	1998	Gable
## 687	2Story	7	6	2007	2007	Gable
## 688	2Story	7	5	2004	2004	Gable
## 694	1Story	5	6	1921	1968	Gable
## 695	1.5Fin	5	6	1936	1950	Gable
## 697	1Story	5	7	1921	1950	Gable
## 698	1Story	5	7	1952	1952	Gable
## 700	1Story	7	5	2004	2004	Gable
## 702	1Story	7	5	1969	1969	Hip
## 705	1Story	7	5	2004	2005	Gable
## 706	2Story	4	5	1930	1950	Hip
## 710	1Story	5	7	1966	1966	Gable
## 711	1Story	3	6	1935	2003	Gable
## 712	1.5Fin	4	7	1900	1950	Gable
## 714	1Story	4	5	1970	1970	Gable
## 715	2Story	6	8	1976	2005	Gable
## 717	2Story	7	8	1890	1998	Gable
## 722	1Story	6	5	2004	2004	Gable
## 723	1Story	4	7	1970	1970	Gable
## 724	1.5Fin	4	6	1954	1972	Gable
## 726	1Story	4	6	1970	1970	Gable
## 728	1Story	7	5	2007	2007	Gable
## 729	1Story	5	5	1958	1958	Gable
## 730	1.5Fin	4	5	1925	1950	Gable
## 735	1Story	5	5	1968	1968	Gable
## 737	1Story	3	4	1950	1950	Gable

## 739	1Story	5	5	1987	1988	Gable
## 740	2Story	7	5	2004	2004	Gable
## 741	2Story	5	7	1910	2002	Gable
## 742	1Story	6	8	1961	1996	Hip
## 743	1Story	7	5	2000	2001	Gable
## 750	1.5Fin	4	3	1945	1950	Gable
## 751	1.5Fin	4	7	1910	2004	Gable
## 752	2Story	7	5	2003	2003	Gable
## 753	1Story	6	5	1997	1997	Gable
## 755	1Story	6	8	1969	2005	Gable
## 756	2Story	6	5	1999	1999	Gable
## 757	2Story	8	5	2007	2007	Gable
## 759	2Story	7	5	1999	1999	Gable
## 761	1Story	6	6	1959	1959	Hip
## 762	1Story	5	5	1924	1950	Gable
## 763	2Story	7	5	2009	2009	Gable
## 768	1.5Fin	6	7	1940	1985	Gable
## 771	SFoyer	5	5	1982	1982	Hip
## 772	1Story	4	5	1951	1951	Gable
## 774	1Story	5	5	1958	1958	Gable
## 776	1Story	6	5	1998	1998	Hip
## 777	1Story	7	5	2005	2006	Gable
## 780	SFoyer	6	5	1977	1977	Gable
## 782	2Story	6	5	1992	1992	Gable
## 783	1Story	7	5	2001	2002	Gable
## 787	1.5Fin	5	6	1915	1950	Gable
## 788	2Story	7	5	2004	2004	Gable
## 789	1Story	4	7	1954	2000	Gable
## 790	2Story	6	8	1966	2007	Gable
## 794	1Story	8	5	2007	2007	Gable
## 798	1Story	5	5	1953	1953	Gable
## 801	2Story	6	5	1997	1997	Gable
## 802	1Story	4	7	1916	1990	Gable
## 805	1Story	5	5	1954	1954	Gable
## 806	1Story	7	5	2008	2008	Gable
## 807	SLvl	5	5	1967	1967	Gable
## 810	2.5Unf	5	5	1898	1965	Hip
## 813	1Story	5	5	1952	1952	Hip
## 814	1Story	6	6	1958	1958	Gable
## 815	1.5Fin	5	7	1918	1950	Gable
## 816	1Story	7	5	1998	1998	Gable
## 819	SLvl	6	7	1971	1971	Gable
## 821	2Story	7	5	2003	2003	Gable
## 822	1Story	4	4	1953	1953	Gable
## 827	1.5Unf	5	6	1924	1950	Gable
## 829	2Story	5	5	1967	1967	Flat
## 830	2Story	7	5	2005	2005	Gable
## 832	2Story	7	5	2005	2005	Gable
## 834	1Story	6	6	1964	1964	Gable
## 835	1Story	5	6	1961	1961	Gable
## 836	1Story	4	7	1950	1995	Gable
## 837	1Story	5	6	1948	1973	Gable
## 838	2Story	6	5	1973	1973	Gable
## 839	1Story	5	6	1995	2006	Gable

## 840	1.5Fin	5	6	1946	1995	Gable
## 841	2Story	6	8	1925	1950	Gable
## 843	SLvl	6	7	1966	1966	Gable
## 844	1Story	5	4	1961	1961	Gable
## 851	1Story	6	5	2003	2003	Gable
## 856	1Story	5	8	1962	2010	Gable
## 857	SLvl	6	6	1978	1978	Gable
## 862	1Story	5	4	1965	1965	Hip
## 863	1Story	6	5	1984	1985	Hip
## 864	1Story	5	5	1959	1959	Hip
## 865	1Story	7	5	2007	2008	Gable
## 866	1Story	5	6	1970	1970	Gable
## 868	1Story	4	5	1961	1961	Gable
## 871	1Story	5	5	1962	1962	Hip
## 872	2Story	6	5	1998	1998	Gable
## 873	1Story	5	7	1953	1996	Gable
## 875	1.5Fin	5	6	1941	1950	Gable
## 877	1Story	4	5	1963	1963	Gable
## 879	SFoyer	5	7	1961	1995	Gable
## 880	1Story	5	8	1978	2005	Gable
## 881	1Story	5	5	2005	2006	Gable
## 884	2.5Fin	4	5	1912	1950	Gable
## 885	1Story	5	5	1967	1967	Gable
## 887	1Story	5	5	1959	2005	Gable
## 888	1.5Fin	5	7	1955	1955	Gable
## 893	1Story	6	8	1963	2003	Hip
## 895	1Story	5	5	1979	1979	Gable
## 897	1Story	4	6	1936	1950	Gable
## 898	2Story	5	5	1979	1979	Gable
## 901	1Story	4	6	1971	1971	Gable
## 902	1Story	5	7	1957	2000	Hip
## 905	1Story	5	6	1967	1967	Gable
## 906	1Story	5	5	1954	1954	Gable
## 909	1Story	5	5	1983	1983	Gable
## 911	2Story	5	5	1960	1960	Gable
## 912	1Story	5	7	1977	1989	Gable
## 913	1Story	5	7	1925	1950	Gable
## 914	2Story	5	6	1949	1950	Gable
## 915	2Story	6	5	2009	2009	Gable
## 916	2Story	4	5	1970	1970	Gable
## 917	1Story	2	3	1949	1950	Gable
## 918	1Story	4	6	1956	1956	Gable
## 921	2Story	6	5	1994	1994	Gable
## 922	1.5Fin	5	7	1900	2003	Gable
## 926	1Story	5	6	1977	1977	Gable
## 931	1Story	8	5	2007	2007	Gable
## 932	1Story	5	6	1965	1965	Gable
## 934	1Story	7	5	2004	2004	Gable
## 936	1Story	4	5	1926	1953	Gable
## 937	1Story	7	5	2003	2003	Gable
## 939	2Story	7	5	2006	2006	Gable
## 941	1Story	6	5	1976	1976	Gable
## 943	1Story	4	3	1977	1977	Gable
## 944	1Story	5	4	1967	1967	Gable

## 946	1.5Fin	5	6	1890	1996	Hip
## 951	1Story	5	8	1950	2002	Gable
## 952	1Story	5	5	1965	1965	Gable
## 953	SFoyer	5	8	1972	2003	Gable
## 955	SFoyer	6	5	1975	1975	Flat
## 956	2Story	6	6	1946	1950	Gable
## 958	1Story	5	5	1962	1962	Hip
## 959	1Story	7	5	2003	2003	Gable
## 960	2Story	7	5	1999	1999	Hip
## 961	1Story	5	7	1958	2008	Gable
## 964	1Story	9	5	2007	2007	Gable
## 968	1Story	5	7	1955	1955	Hip
## 969	1.5Fin	3	6	1910	1950	Gable
## 970	SLvl	6	5	1958	1958	Hip
## 971	1.5Fin	4	4	1949	1950	Gable
## 972	2Story	7	5	2003	2004	Gable
## 974	1Story	7	5	2007	2008	Gable
## 975	2Story	7	8	1910	1993	Gable
## 976	2Story	7	5	2000	2000	Gable
## 977	1Story	4	7	1923	1958	Gable
## 978	1Story	7	5	2006	2007	Gable
## 979	1Story	4	5	1954	1954	Gable
## 980	1Story	5	6	1963	1963	Gable
## 981	SFoyer	7	9	1961	2007	Gable
## 985	1.5Fin	5	5	1977	1977	Gable
## 986	1Story	5	5	1950	1950	Gable
## 987	1.5Fin	6	8	1910	2003	Hip
## 990	2Story	7	5	2006	2006	Gable
## 994	2Story	6	5	2005	2006	Gable
## 996	1.5Fin	4	7	1946	1950	Gable
## 997	1Story	5	6	1961	1961	Hip
## 1000	1Story	7	5	2006	2006	Gable
## 1001	1Story	3	3	1952	1952	Flat
## 1002	1Story	5	6	1920	1950	Gable
## 1004	1Story	5	6	1976	1976	Gable
## 1006	SLvl	5	8	1977	1977	Gable
## 1008	2Story	4	4	1970	1970	Gable
## 1010	1.5Fin	5	5	1926	1950	Gable
## 1012	1Story	5	5	1965	1965	Hip
## 1014	1Story	5	4	1910	2006	Hip
## 1016	2Story	8	6	2001	2001	Gable
## 1021	1Story	4	5	2005	2005	Gable
## 1022	1Story	7	5	2006	2006	Gable
## 1023	1.5Fin	5	5	1930	1950	Gable
## 1026	1Story	5	5	1972	1972	Gable
## 1030	2Story	6	7	1972	1972	Gable
## 1031	2Story	5	8	1916	1995	Gable
## 1034	1Story	7	5	2002	2002	Gable
## 1036	1Story	4	3	1957	1957	Gable
## 1040	SFoyer	4	4	1970	1970	Gable
## 1042	2Story	6	8	1966	2000	Hip
## 1048	1Story	5	5	1994	1995	Gable
## 1050	1Story	4	7	1946	2006	Gable
## 1051	1Story	7	5	2007	2007	Gable

## 1061	1Story	8	5	2001	2001	Gable
## 1062	1Story	3	4	1935	1950	Gable
## 1063	2Story	5	5	1900	1950	Gable
## 1066	2Story	7	5	1996	1997	Gable
## 1068	2Story	6	6	1964	1964	Gable
## 1070	1.5Unf	5	7	1949	2003	Gable
## 1071	1Story	5	5	1956	1956	Hip
## 1072	2Story	6	6	1968	1968	Gable
## 1074	2Story	6	6	1977	1977	Hip
## 1075	1Story	7	5	2006	2006	Gable
## 1078	1Story	5	5	1969	1969	Gable
## 1080	1Story	5	5	1994	1994	Gable
## 1081	1Story	6	7	1971	2004	Gable
## 1082	1Story	5	5	1963	1963	Gable
## 1086	SFoyer	6	6	1992	1992	Gable
## 1087	2Story	4	5	1973	1973	Gable
## 1089	2Story	7	5	2004	2004	Gable
## 1091	1Story	3	4	1950	1950	Gable
## 1092	2Story	7	5	1999	2000	Gable
## 1094	1Story	5	8	1965	1998	Hip
## 1095	1Story	5	7	1956	2000	Gable
## 1097	2Story	6	7	1914	2006	Gable
## 1098	1Story	8	5	1986	1986	Gable
## 1099	1.5Fin	4	6	1936	1950	Gable
## 1101	1Story	2	5	1920	1950	Gable
## 1102	1Story	5	5	1971	1971	Gable
## 1103	1Story	5	7	1960	2002	Gable
## 1105	2Story	5	5	1970	1970	Gable
## 1113	1Story	5	7	1957	1957	Gable
## 1114	1Story	5	7	1953	2006	Gable
## 1115	1Story	5	7	1954	2000	Gable
## 1118	1Story	5	7	1967	2003	Gable
## 1119	SLvl	5	6	1958	1987	Gable
## 1120	1Story	5	5	1959	1959	Gable
## 1122	1Story	7	5	2005	2006	Gable
## 1123	1Story	4	3	1956	1956	Gable
## 1124	1Story	5	9	1947	2008	Hip
## 1130	SFoyer	5	5	1980	1980	Gable
## 1132	1Story	5	5	1991	1992	Gable
## 1133	2Story	6	4	1880	1950	Gable
## 1137	1.5Fin	6	5	1950	1950	Gable
## 1138	1.5Fin	5	8	1875	1996	Gable
## 1141	1Story	5	7	1951	1951	Gable
## 1144	1Story	5	3	1959	1959	Gable
## 1145	1.5Fin	4	4	1941	1950	Gable
## 1150	2Story	7	9	1920	1988	Hip
## 1154	1Story	6	8	1930	2007	Gable
## 1159	1Story	8	5	2007	2008	Gable
## 1164	SFoyer	4	4	1969	1969	Gable
## 1166	1Story	7	5	2009	2009	Gable
## 1167	1Story	8	5	2008	2008	Gable
## 1173	2Story	7	5	2006	2007	Gable
## 1177	1Story	5	5	1984	1985	Gable
## 1178	1.5Fin	6	8	1926	2004	Gable

## 1181	2Story	7	5	1990	1991	Gable
## 1186	1.5Fin	5	7	1924	1950	Gable
## 1187	2Story	3	5	1900	1970	Gable
## 1189	2Story	7	5	2002	2002	Gable
## 1192	2Story	8	5	1999	2000	Gable
## 1193	1.5Fin	5	8	1925	1994	Gambrel
## 1194	1Story	6	5	1999	1999	Hip
## 1195	2Story	6	7	1969	1969	Gable
## 1196	2Story	6	5	2005	2005	Gable
## 1199	1Story	7	5	2001	2001	Gable
## 1201	1Story	4	5	1970	1970	Gable
## 1202	2Story	7	5	1998	1998	Gable
## 1205	1Story	5	6	1975	1975	Gable
## 1207	1Story	4	4	1966	1966	Gable
## 1208	1Story	6	5	2003	2003	Gable
## 1209	1Story	5	7	1962	1980	Gable
## 1212	1.5Fin	8	7	1988	2005	Gable
## 1213	1Story	4	6	1941	1950	Hip
## 1214	SLvl	4	9	1965	2001	Gable
## 1215	SFoyer	5	5	1962	1962	Gable
## 1216	1Story	5	5	1966	1966	Gable
## 1217	1.5Fin	6	5	1978	1978	Gable
## 1218	1Story	8	5	2009	2009	Gable
## 1219	1.5Fin	4	5	1947	1950	Gable
## 1220	2Story	6	5	1971	1971	Gable
## 1221	1Story	5	5	1964	1964	Gable
## 1224	1Story	5	3	1951	1951	Hip
## 1226	SLvl	6	8	1958	1958	Hip
## 1228	1Story	5	8	1965	2008	Gable
## 1230	SLvl	5	5	1960	1960	Hip
## 1232	SLvl	5	6	1962	1962	Hip
## 1233	1Story	4	5	1962	1962	Gable
## 1234	1Story	5	5	1959	1959	Hip
## 1235	2Story	5	6	1911	1950	Gable
## 1236	2Story	5	5	1914	1950	Gable
## 1237	2Story	7	5	2003	2003	Gable
## 1239	1Story	6	5	2005	2005	Gable
## 1241	2Story	7	5	2003	2003	Gable
## 1242	1Story	7	6	2007	2007	Hip
## 1247	2Story	7	5	2005	2006	Gable
## 1248	SLvl	6	5	1976	1976	Gable
## 1250	1Story	5	7	1950	1950	Gable
## 1253	1Story	5	6	1968	1968	Gable
## 1258	1Story	5	8	1922	1950	Gable
## 1259	SLvl	7	5	2005	2005	Gable
## 1260	1Story	6	8	1969	1969	Gable
## 1262	1Story	5	6	1956	1956	Hip
## 1265	1Story	6	5	1998	1999	Gable
## 1266	2Story	7	5	1999	1999	Hip
## 1270	1.5Fin	5	5	1958	1958	Gable
## 1273	1Story	5	6	1965	1965	Hip
## 1276	2Story	5	5	1948	1950	Gable
## 1280	1.5Fin	4	4	1920	1950	Gable
## 1281	1Story	7	5	2002	2002	Gable



## 1283	1Story	5	7	1977	2008	Gable
## 1284	2Story	6	5	1971	1971	Mansard
## 1288	1Story	5	5	1964	1964	Gable
## 1292	2Story	5	7	1972	1972	Gable
## 1293	2Story	5	4	1892	1965	Gable
## 1295	1Story	5	7	1955	1990	Hip
## 1296	1Story	5	5	1968	1968	Hip
## 1297	1Story	5	6	1963	1963	Hip
## 1298	SFoyer	6	5	2005	2006	Gable
## 1300	1Story	5	7	1959	1994	Hip
## 1304	1Story	7	5	2005	2005	Gable
## 1305	2Story	7	5	2004	2004	Gable
## 1308	1Story	5	5	1994	1995	Gable
## 1309	1Story	5	7	1948	2005	Gable
## 1310	1Story	6	5	1991	1991	Gable
## 1312	1Story	7	5	2005	2007	Gable
## 1320	1Story	4	5	1954	1954	Hip
## 1322	1Story	3	6	1949	1950	Hip
## 1324	1Story	4	7	1940	1950	Hip
## 1326	1Story	4	4	1922	1950	Gable
## 1327	1Story	3	6	1931	2006	Gable
## 1332	SLvl	5	5	1976	1976	Gable
## 1334	1.5Fin	5	6	1938	1995	Gable
## 1335	2Story	5	6	1970	1970	Gable
## 1337	1Story	5	5	1973	1973	Gable
## 1338	1Story	4	4	1941	1950	Gable
## 1339	2Story	7	5	2002	2002	Gable
## 1340	1Story	5	7	1972	1972	Hip
## 1341	1Story	4	5	1971	1971	Gable
## 1342	1Story	6	5	2003	2004	Gable
## 1346	1Story	4	4	1920	1950	Hip
## 1350	2Story	8	5	1872	1987	Gable
## 1351	2Story	5	5	1969	1969	Gable
## 1353	1.5Fin	6	9	1937	2000	Gable
## 1357	1Story	5	5	1966	1966	Gable
## 1359	2Story	6	5	2000	2000	Gable
## 1361	2Story	5	6	1921	1998	Gable
## 1365	2Story	7	5	2005	2005	Gable
## 1366	2Story	7	5	2000	2000	Gable
## 1367	2Story	7	5	1999	1999	Gable
## 1369	1Story	6	5	2003	2004	Gable
## 1371	1.5Fin	4	6	1920	1950	Gable
## 1377	1Story	6	5	1930	1950	Gable
## 1378	1.5Fin	5	5	1941	1960	Gable
## 1379	2Story	6	5	1973	1973	Gable
## 1380	SLvl	5	5	2006	2007	Gable
## 1381	1Story	3	3	1914	1950	Gable
## 1383	2Story	7	7	1920	1950	Hip
## 1384	1Story	5	7	1918	2007	Gable
## 1385	1.5Fin	6	5	1939	1950	Gable
## 1386	1.5Fin	4	8	1922	2007	Gable
## 1391	1Story	7	5	2000	2000	Gable
## 1392	1Story	5	5	1967	1967	Gable
## 1398	2Story	5	8	1920	2004	Gable

##	1399	1.5Fin	5	4	1950	1982	Gable
##	1404	1Story	8	5	2007	2007	Gable
##	1405	1.5Fin	3	4	1915	1950	Gable
##	1407	SFoyer	5	7	1972	2007	Gable
##	1408	1Story	5	5	1985	1985	Gable
##	1409	2Story	4	7	1910	1950	Gable
##	1411	2Story	7	5	2001	2001	Gable
##	1412	1.5Fin	6	8	1950	2005	Gable
##	1413	1Story	4	5	1949	1950	Gable
##	1417	2Story	4	6	1885	1950	Gable
##	1419	1Story	5	5	1963	1963	Gable
##	1423	1Story	6	5	2003	2003	Gable
##	1426	1Story	6	6	1959	1959	Hip
##	1432	1Story	6	6	1976	1976	Gable
##	1433	1Story	4	6	1927	2007	Gable
##	1437	1Story	4	6	1971	1971	Gable
##	1439	1Story	6	7	1957	1996	Gable
##	1445	1Story	7	5	2004	2004	Gable
##	1446	SFoyer	6	5	1966	1966	Gable
##	1447	1Story	5	7	1962	1962	Gable
##	1449	2Story	4	7	1910	2000	Gable
##	1450	SFoyer	5	7	1970	1970	Gable
##	1451	2Story	5	5	1974	1974	Gable
##	1453	SLvl	5	5	2005	2005	Gable
##	1454	1Story	5	5	2006	2006	Gable
##	1455	1Story	7	5	2004	2005	Gable
##	1459	1Story	5	6	1950	1996	Hip
##	1460	1Story	5	6	1965	1965	Gable
##		RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual ExterCond
##	1	CompShg	VinylSd	VinylSd	BrkFace	196	Gd TA
##	6	CompShg	VinylSd	VinylSd	None	0	TA TA
##	11	CompShg	HdBoard	HdBoard	None	0	TA TA
##	13	CompShg	HdBoard	Plywood	None	0	TA TA
##	16	CompShg	Wd Sdng	Wd Sdng	None	0	TA TA
##	18	CompShg	MetalSd	MetalSd	None	0	TA TA
##	19	CompShg	VinylSd	VinylSd	None	0	TA TA
##	20	CompShg	BrkFace	Plywood	None	0	TA TA
##	27	CompShg	Wd Sdng	Wd Sdng	None	0	TA TA
##	30	CompShg	MetalSd	MetalSd	None	0	TA TA
##	31	CompShg	BrkFace	BrkFace	None	0	TA Fa
##	32	CompShg	HdBoard	HdBoard	None	0	TA TA
##	33	CompShg	VinylSd	VinylSd	None	0	Gd TA
##	37	CompShg	VinylSd	VinylSd	None	0	TA TA
##	39	CompShg	VinylSd	VinylSd	None	0	TA Gd
##	40	CompShg	AsbShng	Plywood	None	0	TA TA
##	43	CompShg	HdBoard	HdBoard	None	0	TA TA
##	44	CompShg	VinylSd	VinylSd	None	0	TA TA
##	45	CompShg	BrkFace	Wd Sdng	None	0	TA TA
##	48	CompShg	VinylSd	VinylSd	None	0	Gd TA
##	49	CompShg	MetalSd	MetalSd	None	0	TA TA
##	50	CompShg	HdBoard	HdBoard	None	0	TA TA
##	51	CompShg	VinylSd	VinylSd	None	0	TA TA
##	53	CompShg	Wd Sdng	Wd Sdng	None	0	Fa TA
##	57	CompShg	MetalSd	MetalSd	BrkFace	456	Gd TA

## 58	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 60	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 61	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 62	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 64	CompShg	Stucco	Stucco	None	0	TA	TA
## 65	CompShg	VinylSd	VinylSd	BrkFace	573	TA	TA
## 68	CompShg	VinylSd	VinylSd	BrkFace	167	Gd	TA
## 69	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 72	CompShg	HdBoard	Plywood	None	0	TA	TA
## 74	CompShg	Wd Sdng	Wd Sdng	BrkFace	104	TA	TA
## 75	CompShg	VinylSd	VinylSd	None	0	Gd	Gd
## 76	CompShg	CemntBd	CmentBd	None	0	TA	TA
## 77	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 78	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 79	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 80	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 82	CompShg	VinylSd	VinylSd	BrkFace	443	TA	Gd
## 84	CompShg	MetalSd	MetalSd	BrkCmn	66	TA	TA
## 88	CompShg	VinylSd	VinylSd	Stone	76	Gd	TA
## 89	CompShg	Plywood	Plywood	None	0	Fa	Fa
## 90	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 91	CompShg	BrkFace	Wd Sdng	None	0	TA	TA
## 92	CompShg	HdBoard	HdBoard	BrkCmn	203	TA	TA
## 93	CompShg	Wd Sdng	Wd Sdng	None	0	TA	Gd
## 95	CompShg	VinylSd	VinylSd	None	0	TA	Gd
## 97	CompShg	VinylSd	VinylSd	BrkFace	183	Gd	TA
## 98	CompShg	HdBoard	HdBoard	BrkFace	48	TA	TA
## 99	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 100	CompShg	Plywood	Plywood	None	0	TA	TA
## 103	CompShg	HdBoard	HdBoard	None	0	TA	Fa
## 104	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 107	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 108	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 109	CompShg	CemntBd	CmentBd	None	0	TA	TA
## 111	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 118	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 122	CompShg	AsbShng	AsbShng	None	0	TA	TA
## 123	CompShg	MetalSd	MetalSd	BrkFace	135	TA	Gd
## 124	CompShg	Plywood	Plywood	None	0	Gd	TA
## 126	CompShg	Wd Sdng	Wd Sdng	None	0	TA	Fa
## 130	CompShg	Plywood	Plywood	BrkFace	85	TA	TA
## 133	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 134	CompShg	VinylSd	VinylSd	BrkFace	136	Gd	TA
## 138	CompShg	VinylSd	VinylSd	BrkFace	70	TA	TA
## 140	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 142	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 143	CompShg	BrkFace	Wd Sdng	None	0	TA	Fa
## 144	CompShg	VinylSd	VinylSd	BrkFace	183	Gd	TA
## 145	CompShg	HdBoard	HdBoard	BrkFace	336	TA	TA
## 146	CompShg	VinylSd	VinylSd	Stone	50	Gd	TA
## 147	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 149	CompShg	VinylSd	VinylSd	BrkFace	120	TA	TA
## 150	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 151	CompShg	HdBoard	HdBoard	None	0	TA	TA

## 155	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 156	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 157	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 161	CompShg	Plywood	Plywood	None	0	TA	TA
## 164	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 165	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 166	CompShg	Wd Sdng	Wd Sdng	None	0	TA	Gd
## 171	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 180	CompShg	Wd Sdng	Wd Sdng	None	0	Gd	TA
## 184	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 185	CompShg	AsbShng	Plywood	None	0	TA	TA
## 187	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 188	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 192	CompShg	HdBoard	HdBoard	BrkFace	138	TA	TA
## 193	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 194	CompShg	VinylSd	VinylSd	Stone	50	Gd	TA
## 195	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 199	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 201	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 203	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 205	CompShg	AsbShng	AsbShng	None	0	TA	TA
## 206	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 210	CompShg	HdBoard	HdBoard	Stone	260	TA	TA
## 211	CompShg	Stucco	Stucco	None	0	TA	TA
## 212	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 214	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 215	CompShg	HdBoard	HdBoard	BrkFace	153	TA	TA
## 217	CompShg	VinylSd	VinylSd	BrkFace	266	Gd	TA
## 218	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 220	CompShg	VinylSd	VinylSd	BrkFace	16	Gd	TA
## 221	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 224	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 226	CompShg	HdBoard	HdBoard	BrkFace	142	TA	TA
## 228	CompShg	HdBoard	HdBoard	BrkFace	127	TA	TA
## 231	CompShg	MetalSd	MetalSd	BrkFace	220	TA	TA
## 234	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 236	CompShg	HdBoard	HdBoard	BrkFace	604	TA	TA
## 237	CompShg	VinylSd	VinylSd	BrkFace	98	Gd	TA
## 238	CompShg	HdBoard	HdBoard	None	0	Gd	TA
## 239	CompShg	VinylSd	VinylSd	BrkFace	254	Ex	TA
## 241	CompShg	VinylSd	VinylSd	Stone	36	Gd	TA
## 242	CompShg	VinylSd	VinylSd	None	0	TA	Gd
## 243	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 247	CompShg	AsbShng	AsbShng	None	0	TA	Fa
## 249	CompShg	VinylSd	VinylSd	BrkFace	101	Gd	TA
## 251	CompShg	Wd Sdng	Plywood	None	0	TA	Po
## 253	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 254	CompShg	HdBoard	HdBoard	BrkFace	108	TA	TA
## 255	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 257	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 260	CompShg	BrkFace	BrkFace	None	0	TA	TA
## 264	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 265	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 275	CompShg	HdBoard	ImStucc	None	0	TA	TA

## 276	CompShg	Wd Sdng	Wd Sdng	None	0	Gd	Gd
## 277	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 278	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 282	CompShg	VinylSd	VinylSd	Stone	68	Gd	TA
## 285	CompShg	Plywood	ImStucc	None	0	Gd	TA
## 286	CompShg	MetalSd	MetalSd	None	0	Gd	TA
## 288	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 289	CompShg	MetalSd	MetalSd	BrkFace	31	TA	Gd
## 290	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 292	CompShg	VinylSd	VinylSd	None	0	TA	Fa
## 296	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 297	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 304	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 306	CompShg	CemntBd	CmentBd	Stone	246	Gd	TA
## 308	CompShg	MetalSd	MetalSd	None	0	TA	Fa
## 309	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 321	CompShg	VinylSd	VinylSd	Stone	370	TA	TA
## 324	CompShg	VinylSd	VinylSd	None	0	TA	Gd
## 326	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 328	CompShg	Wd Sdng	Wd Sdng	BrkFace	175	TA	TA
## 329	CompShg	Wd Sdng	Wd Shng	None	0	TA	TA
## 330	CompShg	Wd Sdng	Wd Shng	None	0	TA	TA
## 331	CompShg	HdBoard	HdBoard	BrkFace	84	TA	TA
## 332	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 338	CompShg	VinylSd	VinylSd	BrkFace	113	Gd	TA
## 339	CompShg	Wd Sdng	Wd Sdng	None	0	Gd	TA
## 340	CompShg	Wd Sdng	Wd Sdng	BrkFace	176	TA	TA
## 341	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 342	CompShg	Wd Sdng	AsbShng	None	0	Fa	Fa
## 343	CompShg	Stucco	Stucco	BrkFace	340	TA	TA
## 345	CompShg	CemntBd	CmentBd	None	0	TA	TA
## 347	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 349	CompShg	VinylSd	Wd Shng	Stone	106	Gd	TA
## 353	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 354	CompShg	VinylSd	VinylSd	None	0	TA	Gd
## 356	CompShg	VinylSd	VinylSd	None	0	Gd	Gd
## 357	CompShg	HdBoard	HdBoard	BrkFace	106	TA	TA
## 359	CompShg	Wd Sdng	ImStucc	BrkFace	120	TA	TA
## 362	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 364	CompShg	HdBoard	HdBoard	BrkFace	510	TA	TA
## 366	CompShg	VinylSd	VinylSd	None	0	TA	Gd
## 373	CompShg	Plywood	Plywood	None	0	TA	TA
## 374	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 376	CompShg	Wd Sdng	Wd Sdng	None	0	Fa	Fa
## 377	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 383	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 384	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 387	CompShg	Wd Sdng	VinylSd	None	0	TA	Fa
## 389	CompShg	VinylSd	VinylSd	BrkFace	125	Gd	TA
## 391	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 393	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 395	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 396	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 397	CompShg	MetalSd	MetalSd	None	0	TA	TA

## 399	CompShg	MetalSd	MetalSd	None	0	TA	Fa
## 400	CompShg	CemntBd	CmentBd	Stone	100	Gd	TA
## 403	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 407	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 408	CompShg	Wd Sdng	Plywood	None	0	TA	TA
## 411	CompShg	BrkComm	Brk Cmn	None	0	TA	Fa
## 412	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 416	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 419	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 421	CompShg	VinylSd	VinylSd	BrkFace	200	TA	Gd
## 423	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 428	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 429	CompShg	VinylSd	VinylSd	BrkFace	108	Gd	TA
## 431	CompShg	HdBoard	HdBoard	BrkFace	232	TA	TA
## 432	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 433	CompShg	HdBoard	HdBoard	BrkFace	376	TA	TA
## 435	CompShg	CemntBd	CmentBd	None	0	TA	Gd
## 437	CompShg	Stucco	Stucco	None	0	TA	TA
## 438	CompShg	Wd Sdng	Wd Sdng	None	0	Gd	TA
## 440	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 442	CompShg	VinylSd	VinylSd	BrkFace	270	TA	TA
## 450	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 451	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 453	CompShg	VinylSd	VinylSd	BrkFace	42	Gd	TA
## 454	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 455	CompShg	Plywood	Plywood	None	0	TA	TA
## 457	CompShg	AsbShng	AsbShng	None	0	TA	TA
## 461	CompShg	VinylSd	VinylSd	Stone	110	Gd	TA
## 462	CompShg	Wd Sdng	Wd Sdng	None	0	Gd	Gd
## 465	CompShg	HdBoard	HdBoard	BrkFace	136	TA	TA
## 470	CompShg	HdBoard	HdBoard	BrkFace	120	Gd	TA
## 471	CompShg	HdBoard	HdBoard	None	0	Gd	TA
## 473	CompShg	VinylSd	VinylSd	BrkFace	80	TA	TA
## 475	CompShg	CemntBd	CmentBd	None	0	Gd	TA
## 476	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 480	CompShg	Stucco	Stucco	BrkCmn	435	TA	TA
## 484	CompShg	VinylSd	VinylSd	BrkFace	116	TA	TA
## 485	CompShg	HdBoard	Plywood	None	0	TA	Gd
## 487	CompShg	MetalSd	MetalSd	BrkFace	168	TA	TA
## 490	CompShg	CemntBd	CmentBd	None	0	TA	Gd
## 493	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 495	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 496	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 498	CompShg	Wd Sdng	Wd Sdng	None	0	TA	Gd
## 499	CompShg	HdBoard	HdBoard	BrkFace	89	TA	TA
## 500	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 501	CompShg	HdBoard	HdBoard	BrkFace	285	TA	TA
## 502	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 503	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 506	CompShg	Wd Sdng	Wd Sdng	BrkFace	360	TA	TA
## 508	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 510	CompShg	MetalSd	MetalSd	BrkFace	132	TA	TA
## 513	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 514	CompShg	VinylSd	VinylSd	None	0	TA	Gd

## 515	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 519	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 521	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 527	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 529	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 532	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 534	CompShg	VinylSd	VinylSd	None	0	Fa	Fa
## 536	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 537	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 538	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 544	CompShg	MetalSd	MetalSd	BrkFace	182	TA	TA
## 546	CompShg	HdBoard	HdBoard	BrkFace	178	Gd	Gd
## 548	CompShg	VinylSd	VinylSd	None	0	TA	Gd
## 549	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 551	CompShg	Plywood	Plywood	None	0	TA	TA
## 552	CompShg	BrkFace	BrkFace	None	0	TA	TA
## 554	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 558	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 566	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 568	CompShg	VinylSd	VinylSd	BrkFace	168	Gd	TA
## 571	CompShg	HdBoard	HdBoard	BrkFace	108	TA	TA
## 572	CompShg	WdShng	Wd Shng	BrkFace	207	TA	TA
## 573	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 575	CompShg	MetalSd	AsphShn	BrkFace	82	TA	TA
## 576	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 579	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 580	CompShg	MetalSd	MetalSd	BrkFace	335	TA	TA
## 583	CompShg	HdBoard	HdBoard	BrkFace	104	TA	Gd
## 585	CompShg	AsbShng	AsbShng	None	0	TA	TA
## 587	CompShg	Stucco	Wd Shng	None	0	TA	Gd
## 588	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 590	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 591	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 593	CompShg	HdBoard	HdBoard	None	0	TA	Gd
## 594	CompShg	VinylSd	VinylSd	BrkFace	170	Gd	TA
## 595	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 597	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 604	CompShg	MetalSd	MetalSd	None	0	Gd	TA
## 607	CompShg	VinylSd	VinylSd	None	0	TA	Gd
## 608	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 610	CompShg	VinylSd	VinylSd	BrkCmn	192	TA	Fa
## 614	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 615	CompShg	CemntBd	CmentBd	None	0	TA	TA
## 616	CompShg	MetalSd	MetalSd	BrkFace	156	TA	Gd
## 618	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 621	CompShg	Stucco	Stucco	None	0	TA	TA
## 623	CompShg	Plywood	Plywood	BrkFace	153	TA	TA
## 626	CompShg	Wd Sdng	Wd Sdng	BrkFace	261	TA	TA
## 630	WdShngl	Plywood	Wd Sdng	BrkFace	259	TA	TA
## 631	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 634	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 635	CompShg	Plywood	Plywood	None	0	TA	TA
## 636	CompShg	VinylSd	VinylSd	None	0	Fa	TA
## 638	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA

## 639	CompShg	MetalSd	Wd Sdng	None	0	TA	TA
## 644	CompShg	WdShng	HdBoard	BrkFace	263	TA	TA
## 646	CompShg	Plywood	Plywood	None	0	TA	TA
## 647	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 650	CompShg	CemntBd	CmentBd	None	0	TA	TA
## 651	CompShg	CemntBd	CmentBd	<NA>	NA	Gd	TA
## 654	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 656	CompShg	HdBoard	ImStucc	BrkFace	381	TA	TA
## 657	CompShg	HdBoard	HdBoard	BrkFace	54	Gd	TA
## 660	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 664	CompShg	Plywood	Plywood	None	0	TA	TA
## 671	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 672	CompShg	Wd Sdng	Wd Sdng	None	0	TA	Gd
## 677	CompShg	AsbShng	Stucco	None	0	TA	TA
## 678	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 680	CompShg	Wd Sdng	Wd Sdng	BrkFace	57	TA	TA
## 682	CompShg	VinylSd	Stucco	None	0	TA	TA
## 685	CompShg	VinylSd	VinylSd	BrkFace	30	Gd	TA
## 687	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 688	CompShg	MetalSd	MetalSd	None	0	Gd	TA
## 694	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 695	CompShg	Wd Sdng	Wd Sdng	None	0	TA	Fa
## 697	CompShg	Wd Sdng	Wd Shng	None	0	TA	TA
## 698	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 700	CompShg	MetalSd	MetalSd	None	0	Gd	TA
## 702	CompShg	HdBoard	HdBoard	BrkFace	168	TA	TA
## 705	CompShg	VinylSd	VinylSd	BrkFace	109	Gd	TA
## 706	CompShg	VinylSd	Wd Shng	None	0	Fa	Fa
## 710	CompShg	HdBoard	HdBoard	BrkCmn	41	TA	TA
## 711	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 712	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 714	CompShg	HdBoard	HdBoard	BrkFace	160	TA	TA
## 715	CompShg	HdBoard	Plywood	BrkFace	289	Gd	TA
## 717	CompShg	Wd Sdng	VinylSd	None	0	TA	Gd
## 722	CompShg	VinylSd	VinylSd	BrkFace	169	Gd	TA
## 723	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 724	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 726	CompShg	HdBoard	Plywood	None	0	TA	TA
## 728	CompShg	VinylSd	VinylSd	Stone	82	Gd	TA
## 729	CompShg	VinylSd	VinylSd	BrkFace	95	TA	TA
## 730	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 735	CompShg	Plywood	Plywood	None	0	TA	TA
## 737	CompShg	Stucco	Stone	None	0	TA	TA
## 739	CompShg	Plywood	Plywood	None	0	TA	TA
## 740	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 741	CompShg	Wd Sdng	Wd Shng	None	0	TA	Gd
## 742	CompShg	HdBoard	HdBoard	None	0	TA	Gd
## 743	CompShg	VinylSd	VinylSd	BrkFace	108	TA	TA
## 750	CompShg	WdShng	Wd Shng	None	0	TA	TA
## 751	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 752	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 753	CompShg	VinylSd	VinylSd	None	0	TA	Gd
## 755	CompShg	Plywood	Plywood	None	0	TA	TA
## 756	CompShg	MetalSd	MetalSd	BrkFace	894	TA	TA



## 757	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 759	CompShg	MetalSd	MetalSd	BrkFace	360	TA	TA
## 761	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 762	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 763	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 768	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 771	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 772	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 774	CompShg	Wd Sdng	Wd Sdng	None	1	TA	TA
## 776	CompShg	VinylSd	VinylSd	BrkFace	320	TA	TA
## 777	CompShg	VinylSd	VinylSd	BrkFace	240	Gd	TA
## 780	CompShg	Plywood	ImStucc	BrkFace	90	TA	TA
## 782	CompShg	VinylSd	VinylSd	None	0	Gd	Gd
## 783	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 787	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 788	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 789	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 790	CompShg	HdBoard	HdBoard	BrkFace	157	TA	TA
## 794	CompShg	CemntBd	CmentBd	Stone	140	Gd	TA
## 798	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 801	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 802	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 805	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 806	CompShg	VinylSd	VinylSd	Stone	256	Gd	TA
## 807	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 810	CompShg	AsbShng	AsbShng	None	0	TA	TA
## 813	CompShg	Wd Sdng	Wd Sdng	None	0	Fa	TA
## 814	CompShg	MetalSd	MetalSd	BrkFace	243	TA	TA
## 815	CompShg	Stucco	Stucco	None	0	TA	TA
## 816	CompShg	VinylSd	VinylSd	BrkFace	442	TA	TA
## 819	CompShg	HdBoard	HdBoard	BrkFace	80	TA	TA
## 821	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 822	CompShg	MetalSd	MetalSd	None	0	Fa	TA
## 827	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 829	Tar&Grv	Plywood	Plywood	None	0	TA	TA
## 830	CompShg	MetalSd	MetalSd	None	0	Gd	TA
## 832	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 834	CompShg	HdBoard	Plywood	BrkFace	180	TA	TA
## 835	CompShg	VinylSd	VinylSd	BrkFace	136	TA	TA
## 836	CompShg	VinylSd	HdBoard	None	0	TA	TA
## 837	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 838	CompShg	HdBoard	HdBoard	BrkFace	158	TA	TA
## 839	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 840	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 841	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 843	CompShg	HdBoard	HdBoard	BrkFace	183	TA	TA
## 844	CompShg	BrkFace	BrkFace	None	0	TA	TA
## 851	CompShg	VinylSd	VinylSd	BrkFace	170	Gd	TA
## 856	CompShg	HdBoard	HdBoard	None	0	TA	Gd
## 857	CompShg	Plywood	HdBoard	None	0	TA	TA
## 862	CompShg	Plywood	HdBoard	None	0	TA	TA
## 863	CompShg	HdBoard	Plywood	None	0	TA	TA
## 864	CompShg	BrkFace	Plywood	None	0	TA	TA
## 865	CompShg	VinylSd	VinylSd	None	0	Gd	TA

## 866	CompShg	MetalSd	MetalSd	BrkFace	76	TA	TA
## 868	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 871	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 872	CompShg	VinylSd	VinylSd	BrkFace	116	TA	TA
## 873	CompShg	WdShng	Wd Shng	None	0	Gd	TA
## 875	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 877	CompShg	HdBoard	Plywood	None	0	TA	TA
## 879	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 880	CompShg	VinylSd	VinylSd	BrkFace	90	Gd	Gd
## 881	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 884	CompShg	Wd Sdng	Wd Sdng	None	0	Gd	TA
## 885	CompShg	HdBoard	HdBoard	BrkFace	60	TA	TA
## 887	CompShg	MetalSd	MetalSd	BrkFace	122	TA	TA
## 888	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 893	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 895	CompShg	Plywood	Plywood	None	0	TA	TA
## 897	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 898	CompShg	Plywood	Plywood	None	0	TA	TA
## 901	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 902	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 905	CompShg	HdBoard	Wd Sdng	BrkFace	75	TA	TA
## 906	CompShg	HdBoard	HdBoard	Stone	110	TA	TA
## 909	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 911	CompShg	MetalSd	MetalSd	BrkFace	361	TA	TA
## 912	CompShg	HdBoard	Plywood	None	0	TA	TA
## 913	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 914	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 915	CompShg	VinylSd	VinylSd	Stone	76	Gd	TA
## 916	CompShg	CemntBd	CmentBd	BrkFace	80	TA	TA
## 917	CompShg	AsbShng	AsbShng	None	0	TA	TA
## 918	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 921	CompShg	HdBoard	HdBoard	BrkFace	105	Gd	Gd
## 922	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 926	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 931	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 932	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 934	CompShg	VinylSd	VinylSd	BrkFace	210	Gd	TA
## 936	CompShg	MetalSd	MetalSd	BrkFace	108	TA	Gd
## 937	CompShg	VinylSd	VinylSd	<NA>	NA	Gd	TA
## 939	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 941	CompShg	Plywood	Plywood	None	0	TA	TA
## 943	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 944	CompShg	HdBoard	Plywood	None	0	TA	TA
## 946	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 951	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 952	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 953	CompShg	WdShng	HdBoard	None	0	TA	Gd
## 955	Tar&Grv	WdShng	Plywood	BrkFace	250	TA	TA
## 956	CompShg	MetalSd	MetalSd	BrkFace	423	TA	TA
## 958	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 959	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 960	CompShg	MetalSd	MetalSd	None	0	Gd	TA
## 961	CompShg	Wd Sdng	Plywood	None	0	TA	Gd
## 964	CompShg	VinylSd	VinylSd	None	0	Gd	TA

## 968	CompShg	Wd Sdng	Wd Sdng	BrkFace	151	TA	TA
## 969	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 970	CompShg	HdBoard	HdBoard	BrkFace	105	TA	Fa
## 971	CompShg	AsbShng	AsbShng	None	0	TA	TA
## 972	CompShg	VinylSd	Wd Shng	Stone	106	Gd	TA
## 974	CompShg	CemntBd	CmentBd	<NA>	NA	Gd	TA
## 975	CompShg	HdBoard	HdBoard	None	0	TA	Gd
## 976	CompShg	MetalSd	MetalSd	None	0	Gd	TA
## 977	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 978	CompShg	VinylSd	VinylSd	<NA>	NA	Gd	TA
## 979	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 980	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 981	CompShg	CemntBd	CmentBd	Stone	210	Ex	TA
## 985	CompShg	Plywood	Plywood	None	0	TA	TA
## 986	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 987	CompShg	VinylSd	VinylSd	None	0	TA	Gd
## 990	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 994	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 996	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 997	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1000	CompShg	VinylSd	VinylSd	Stone	24	Gd	TA
## 1001	Tar&Grv	BrkComm	Brk Cmn	None	0	TA	TA
## 1002	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1004	CompShg	VinylSd	VinylSd	BrkFace	164	TA	TA
## 1006	CompShg	HdBoard	HdBoard	BrkFace	220	Gd	TA
## 1008	CompShg	CemntBd	CmentBd	None	0	TA	TA
## 1010	CompShg	Wd Sdng	Wd Sdng	None	0	TA	Fa
## 1012	CompShg	AsphShn	AsphShn	None	0	TA	TA
## 1014	CompShg	MetalSd	Stucco	None	0	TA	TA
## 1016	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 1021	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1022	CompShg	VinylSd	VinylSd	Stone	84	Gd	TA
## 1023	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1026	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1030	CompShg	HdBoard	HdBoard	BrkFace	281	TA	TA
## 1031	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1034	CompShg	VinylSd	VinylSd	Stone	295	Gd	TA
## 1036	CompShg	Wd Sdng	Wd Sdng	None	0	TA	Gd
## 1040	CompShg	CemntBd	CmentBd	None	0	TA	TA
## 1042	CompShg	HdBoard	HdBoard	BrkFace	252	TA	TA
## 1048	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1050	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1051	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 1061	CompShg	CemntBd	CmentBd	None	0	Gd	TA
## 1062	CompShg	MetalSd	MetalSd	None	0	Fa	TA
## 1063	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1066	CompShg	Wd Sdng	Wd Sdng	None	0	Gd	TA
## 1068	CompShg	HdBoard	HdBoard	BrkFace	360	TA	TA
## 1070	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1071	CompShg	MetalSd	MetalSd	BrkFace	120	TA	TA
## 1072	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1074	CompShg	HdBoard	Plywood	BrkFace	140	TA	TA
## 1075	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 1078	CompShg	VinylSd	Plywood	None	0	TA	TA

## 1080	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1081	CompShg	VinylSd	VinylSd	BrkFace	144	Gd	Gd
## 1082	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 1086	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 1087	CompShg	CemntBd	CmentBd	None	0	TA	TA
## 1089	CompShg	VinylSd	VinylSd	Stone	50	Gd	TA
## 1091	CompShg	BrkFace	BrkFace	None	0	TA	TA
## 1092	CompShg	MetalSd	MetalSd	BrkFace	212	Gd	TA
## 1094	CompShg	MetalSd	MetalSd	BrkFace	166	TA	TA
## 1095	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1097	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1098	CompShg	HdBoard	HdBoard	None	0	Gd	TA
## 1099	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1101	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1102	CompShg	HdBoard	MetalSd	None	0	TA	TA
## 1103	CompShg	Wd Sdng	Wd Sdng	BrkFace	45	TA	TA
## 1105	CompShg	HdBoard	HdBoard	BrkFace	304	TA	TA
## 1113	CompShg	WdShng	Wd Shng	None	0	TA	TA
## 1114	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1115	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 1118	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1119	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 1120	CompShg	BrkFace	Wd Sdng	None	0	TA	TA
## 1122	CompShg	VinylSd	VinylSd	BrkFace	196	Gd	TA
## 1123	CompShg	AsbShng	AsbShng	None	0	TA	TA
## 1124	CompShg	VinylSd	VinylSd	None	0	TA	Ex
## 1130	CompShg	MetalSd	MetalSd	BrkFace	180	TA	TA
## 1132	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 1133	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1137	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1138	CompShg	VinylSd	VinylSd	None	0	TA	Gd
## 1141	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 1144	CompShg	Wd Sdng	Plywood	None	0	TA	TA
## 1145	CompShg	MetalSd	MetalSd	None	0	TA	Fa
## 1150	CompShg	VinylSd	VinylSd	None	0	TA	Gd
## 1154	CompShg	Wd Sdng	Wd Sdng	None	0	Gd	Gd
## 1159	CompShg	VinylSd	VinylSd	Stone	186	Gd	TA
## 1164	CompShg	Plywood	Plywood	None	0	TA	TA
## 1166	CompShg	VinylSd	VinylSd	Stone	268	Gd	TA
## 1167	CompShg	VinylSd	VinylSd	Stone	72	Gd	TA
## 1173	CompShg	MetalSd	MetalSd	None	0	Gd	TA
## 1177	CompShg	HdBoard	Plywood	None	0	TA	TA
## 1178	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1181	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1186	CompShg	AsbShng	AsbShng	None	0	TA	Gd
## 1187	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 1189	CompShg	VinylSd	VinylSd	BrkFace	95	Gd	TA
## 1192	CompShg	MetalSd	MetalSd	BrkFace	456	Gd	TA
## 1193	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1194	CompShg	VinylSd	VinylSd	BrkFace	425	TA	TA
## 1195	CompShg	HdBoard	HdBoard	Stone	143	TA	TA
## 1196	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1199	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 1201	CompShg	MetalSd	MetalSd	None	0	TA	TA

##	1202	CompShg	VinylSd	VinylSd	None	0	TA	TA
##	1205	CompShg	HdBoard	HdBoard	None	0	TA	TA
##	1207	CompShg	HdBoard	HdBoard	None	0	TA	TA
##	1208	CompShg	VinylSd	VinylSd	BrkFace	120	Gd	TA
##	1209	CompShg	MetalSd	MetalSd	None	0	TA	Gd
##	1212	CompShg	Wd Sdng	Wd Sdng	None	0	Gd	TA
##	1213	CompShg	MetalSd	MetalSd	None	0	TA	TA
##	1214	CompShg	VinylSd	VinylSd	None	0	TA	Gd
##	1215	CompShg	MetalSd	MetalSd	None	0	TA	TA
##	1216	CompShg	VinylSd	VinylSd	None	0	TA	TA
##	1217	CompShg	VinylSd	VinylSd	None	0	TA	TA
##	1218	CompShg	CemntBd	CmentBd	Stone	72	Gd	TA
##	1219	CompShg	AsbShng	AsbShng	None	0	TA	TA
##	1220	CompShg	CemntBd	CmentBd	BrkFace	236	TA	TA
##	1221	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
##	1224	CompShg	Wd Sdng	Wd Sdng	BrkFace	44	TA	TA
##	1226	CompShg	VinylSd	VinylSd	BrkFace	63	TA	Gd
##	1228	CompShg	VinylSd	VinylSd	BrkFace	300	TA	TA
##	1230	CompShg	BrkFace	HdBoard	None	0	TA	TA
##	1232	CompShg	Wd Sdng	Wd Sdng	BrkFace	120	TA	TA
##	1233	CompShg	HdBoard	HdBoard	None	0	TA	TA
##	1234	CompShg	Plywood	Plywood	BrkFace	180	TA	TA
##	1235	CompShg	MetalSd	MetalSd	None	0	TA	TA
##	1236	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
##	1237	CompShg	VinylSd	Wd Shng	Stone	106	Gd	TA
##	1239	CompShg	VinylSd	VinylSd	None	0	Gd	TA
##	1241	CompShg	VinylSd	VinylSd	BrkFace	252	Gd	TA
##	1242	CompShg	VinylSd	VinylSd	Stone	0	Gd	TA
##	1247	CompShg	VinylSd	VinylSd	None	0	Gd	TA
##	1248	CompShg	HdBoard	HdBoard	BrkFace	335	TA	TA
##	1250	CompShg	MetalSd	MetalSd	None	0	TA	TA
##	1253	CompShg	HdBoard	HdBoard	None	0	TA	TA
##	1258	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
##	1259	CompShg	VinylSd	VinylSd	Stone	182	Gd	TA
##	1260	CompShg	HdBoard	HdBoard	None	0	TA	TA
##	1262	CompShg	MetalSd	MetalSd	None	0	TA	TA
##	1265	CompShg	MetalSd	MetalSd	None	0	Gd	TA
##	1266	CompShg	MetalSd	MetalSd	BrkFace	218	Gd	TA
##	1270	CompShg	MetalSd	MetalSd	BrkFace	180	TA	TA
##	1273	CompShg	HdBoard	Plywood	BrkFace	114	TA	TA
##	1276	Roll	AsbShng	AsbShng	Stone	567	TA	TA
##	1280	CompShg	MetalSd	MetalSd	None	0	TA	Gd
##	1281	CompShg	VinylSd	VinylSd	BrkFace	110	Gd	TA
##	1283	CompShg	HdBoard	HdBoard	None	0	TA	TA
##	1284	CompShg	MetalSd	Wd Shng	None	0	TA	TA
##	1288	CompShg	Wd Sdng	Wd Sdng	BrkCmn	621	TA	Gd
##	1292	CompShg	CemntBd	CmentBd	BrkFace	268	TA	TA
##	1293	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
##	1295	CompShg	WdShng	Plywood	None	0	TA	TA
##	1296	CompShg	HdBoard	HdBoard	BrkFace	168	TA	TA
##	1297	CompShg	MetalSd	MetalSd	BrkFace	148	TA	Gd
##	1298	CompShg	VinylSd	VinylSd	BrkFace	82	TA	TA
##	1300	CompShg	BrkFace	BrkFace	None	0	TA	TA
##	1304	CompShg	VinylSd	VinylSd	BrkFace	228	Gd	TA

## 1305	CompShg	VinylSd	VinylSd	Stone	117	Gd	TA
## 1308	CompShg	VinylSd	VinylSd	None	0	TA	Gd
## 1309	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1310	CompShg	HdBoard	HdBoard	BrkFace	88	TA	TA
## 1312	CompShg	VinylSd	VinylSd	BrkFace	80	Gd	TA
## 1320	CompShg	Wd Sdng	Wd Sdng	BrkFace	132	TA	TA
## 1322	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1324	CompShg	VinylSd	VinylSd	None	0	Fa	TA
## 1326	CompShg	AsbShng	AsbShng	None	0	TA	TA
## 1327	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1332	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1334	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1335	CompShg	HdBoard	HdBoard	None	312	TA	TA
## 1337	CompShg	Plywood	Plywood	BrkFace	564	TA	TA
## 1338	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1339	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 1340	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 1341	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1342	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1346	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1350	CompShg	MetalSd	MetalSd	None	0	TA	Gd
## 1351	CompShg	MetalSd	MetalSd	BrkFace	368	TA	TA
## 1353	CompShg	MetalSd	MetalSd	None	0	Gd	TA
## 1357	CompShg	HdBoard	HdBoard	BrkFace	65	TA	TA
## 1359	CompShg	MetalSd	MetalSd	BrkFace	216	Gd	TA
## 1361	CompShg	MetalSd	Wd Sdng	None	0	TA	TA
## 1365	CompShg	MetalSd	MetalSd	None	0	Gd	TA
## 1366	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 1367	CompShg	VinylSd	VinylSd	BrkFace	158	Gd	TA
## 1369	CompShg	VinylSd	VinylSd	BrkFace	170	Gd	TA
## 1371	CompShg	CBlock	CBlock	None	0	Fa	TA
## 1377	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1378	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1379	CompShg	HdBoard	HdBoard	BrkFace	408	TA	TA
## 1380	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1381	CompShg	Stucco	Stucco	None	0	TA	Fa
## 1383	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1384	CompShg	Wd Sdng	Wd Sdng	None	0	TA	Gd
## 1385	CompShg	WdShng	Wd Shng	None	0	TA	TA
## 1386	CompShg	VinylSd	VinylSd	None	0	TA	Gd
## 1391	CompShg	VinylSd	VinylSd	BrkFace	244	Gd	TA
## 1392	CompShg	Plywood	Plywood	None	0	TA	TA
## 1398	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1399	CompShg	VinylSd	Wd Sdng	None	0	TA	TA
## 1404	CompShg	VinylSd	VinylSd	Stone	84	Gd	TA
## 1405	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1407	CompShg	HdBoard	Wd Shng	None	0	TA	TA
## 1408	CompShg	HdBoard	Plywood	None	0	TA	TA
## 1409	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1411	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 1412	CompShg	VinylSd	VinylSd	None	0	TA	Gd
## 1413	CompShg	BrkFace	Stone	None	0	TA	TA
## 1417	CompShg	VinylSd	AsbShng	None	0	TA	TA
## 1419	CompShg	HdBoard	HdBoard	None	0	TA	TA

## 1423	CompShg	VinylSd	VinylSd	BrkFace	170	Gd	TA
## 1426	CompShg	HdBoard	HdBoard	Stone	243	Gd	TA
## 1432	CompShg	Plywood	Plywood	None	0	TA	TA
## 1433	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
## 1437	CompShg	HdBoard	HdBoard	None	0	TA	TA
## 1439	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1445	CompShg	VinylSd	VinylSd	BrkFace	106	Gd	TA
## 1446	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1447	CompShg	HdBoard	HdBoard	BrkFace	189	TA	TA
## 1449	CompShg	MetalSd	HdBoard	None	0	TA	TA
## 1450	CompShg	CemntBd	CmentBd	None	0	TA	TA
## 1451	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1453	CompShg	VinylSd	VinylSd	BrkFace	80	TA	TA
## 1454	CompShg	VinylSd	VinylSd	None	0	TA	TA
## 1455	CompShg	VinylSd	VinylSd	None	0	Gd	TA
## 1459	CompShg	MetalSd	MetalSd	None	0	TA	TA
## 1460	CompShg	HdBoard	HdBoard	None	0	Gd	TA
##	Foundation	BsmtQual	BsmtCond	BsmtExposure	BsmtFinType1	BsmtFinSF1	
## 1	PConc	Gd	TA	No	GLQ	706	
## 6	Wood	Gd	TA	No	GLQ	732	
## 11	CBlock	TA	TA	No	Rec	906	
## 13	CBlock	TA	TA	No	ALQ	737	
## 16	BrkTil	TA	TA	No	Unf	0	
## 18	Slab	No basement	No basement	No basement	No basement	0	
## 19	PConc	TA	TA	No	GLQ	646	
## 20	CBlock	TA	TA	No	LwQ	504	
## 27	CBlock	TA	TA	Mn	BLQ	234	
## 30	BrkTil	TA	TA	No	Unf	0	
## 31	BrkTil	TA	TA	No	Unf	0	
## 32	CBlock	TA	TA	No	Unf	0	
## 33	PConc	Ex	TA	Av	Unf	0	
## 37	PConc	Gd	TA	No	Unf	0	
## 39	CBlock	TA	TA	No	GLQ	731	
## 40	PConc	No basement	No basement	No basement	No basement	0	
## 43	CBlock	Gd	TA	Av	ALQ	747	
## 44	CBlock	Gd	TA	Av	LwQ	280	
## 45	CBlock	TA	TA	No	ALQ	179	
## 48	PConc	Gd	TA	Av	GLQ	24	
## 49	BrkTil	TA	TA	No	Unf	0	
## 50	CBlock	TA	TA	No	BLQ	763	
## 51	PConc	Gd	TA	Av	GLQ	182	
## 53	CBlock	Gd	TA	Gd	LwQ	104	
## 57	PConc	Gd	TA	No	GLQ	649	
## 58	PConc	Gd	TA	No	Unf	0	
## 60	CBlock	TA	TA	Av	ALQ	632	
## 61	PConc	Gd	TA	No	ALQ	941	
## 62	BrkTil	TA	Fa	No	Unf	0	
## 64	BrkTil	TA	TA	No	Unf	0	
## 65	PConc	Gd	TA	No	GLQ	739	
## 68	PConc	Gd	TA	Av	GLQ	1013	
## 69	CBlock	TA	TA	No	Unf	0	
## 72	CBlock	TA	TA	No	ALQ	565	
## 74	CBlock	TA	TA	No	ALQ	320	
## 75	CBlock	Fa	TA	No	Unf	0	

## 76	CBlock	Gd	TA	Gd	GLQ	462
## 77	CBlock	TA	TA	No	ALQ	228
## 78	CBlock	TA	TA	No	BLQ	336
## 79	CBlock	TA	TA	No	Unf	0
## 80	PConc	TA	TA	No	Unf	0
## 82	PConc	Ex	Gd	No	GLQ	1201
## 84	CBlock	TA	TA	No	Unf	0
## 88	PConc	Gd	TA	Av	Unf	0
## 89	CBlock	TA	Fa	No	Unf	0
## 90	PConc	Gd	TA	No	GLQ	588
## 91	Slab	No basement	No basement	No basement	No basement	0
## 92	CBlock	TA	TA	No	Rec	600
## 93	BrkTil	Gd	TA	No	ALQ	713
## 95	PConc	Gd	TA	No	GLQ	648
## 97	PConc	Gd	TA	Av	ALQ	1162
## 98	CBlock	TA	TA	No	Rec	520
## 99	BrkTil	TA	TA	No	ALQ	108
## 100	CBlock	TA	TA	No	ALQ	569
## 103	Slab	No basement	No basement	No basement	No basement	0
## 104	PConc	Gd	TA	No	Unf	0
## 107	BrkTil	Fa	TA	No	Unf	0
## 108	CBlock	TA	TA	No	ALQ	104
## 109	CBlock	TA	TA	No	Unf	0
## 111	CBlock	TA	Fa	No	Rec	444
## 118	PConc	Gd	TA	No	Unf	0
## 122	PConc	TA	TA	No	Unf	0
## 123	CBlock	TA	TA	No	BLQ	570
## 124	PConc	Gd	TA	No	GLQ	300
## 126	CBlock	TA	TA	Av	GLQ	490
## 130	CBlock	TA	TA	No	Rec	567
## 133	CBlock	TA	TA	No	Rec	405
## 134	PConc	Ex	TA	No	GLQ	1005
## 138	CBlock	TA	TA	No	Unf	0
## 140	PConc	Gd	TA	No	GLQ	821
## 142	PConc	Gd	TA	Av	GLQ	1300
## 143	CBlock	TA	TA	No	Rec	507
## 144	PConc	Gd	TA	Gd	GLQ	679
## 145	CBlock	TA	TA	No	Rec	1332
## 146	PConc	Gd	TA	No	Unf	0
## 147	BrkTil	TA	TA	No	BLQ	209
## 149	PConc	Gd	TA	No	GLQ	680
## 150	BrkTil	Gd	TA	No	Unf	0
## 151	CBlock	TA	TA	Av	BLQ	716
## 155	BrkTil	TA	TA	No	Unf	0
## 156	BrkTil	TA	TA	No	Unf	0
## 157	CBlock	No basement	No basement	No basement	No basement	0
## 161	PConc	Gd	TA	No	BLQ	660
## 164	CBlock	TA	TA	No	Unf	0
## 165	BrkTil	TA	TA	Mn	LwQ	370
## 166	BrkTil	TA	TA	No	ALQ	351
## 171	CBlock	TA	TA	No	Rec	360
## 180	CBlock	TA	TA	No	Unf	0
## 184	PConc	Gd	TA	No	Unf	0
## 185	PConc	Fa	TA	No	Unf	0



## 187	PConc	Gd	TA	Av	GLQ	611
## 188	CBlock	Fa	TA	No	Unf	0
## 192	CBlock	TA	TA	No	ALQ	626
## 193	PConc	Gd	TA	Av	GLQ	560
## 194	PConc	Gd	TA	No	Unf	0
## 195	CBlock	TA	TA	Av	ALQ	390
## 199	CBlock	TA	TA	No	Unf	0
## 201	PConc	Gd	TA	No	Unf	0
## 203	BrkTil	Fa	TA	No	LwQ	617
## 205	CBlock	TA	TA	No	LwQ	312
## 206	PConc	Gd	TA	No	Unf	0
## 210	CBlock	Gd	TA	No	Rec	787
## 211	CBlock	TA	TA	No	Rec	468
## 212	PConc	Gd	TA	Mn	GLQ	36
## 214	PConc	Gd	TA	No	ALQ	716
## 215	CBlock	Gd	TA	No	GLQ	378
## 217	PConc	Gd	TA	Mn	GLQ	946
## 218	CBlock	TA	TA	No	Unf	0
## 220	PConc	Gd	TA	Av	GLQ	16
## 221	PConc	Gd	TA	Mn	Unf	0
## 224	CBlock	TA	TA	No	ALQ	524
## 226	CBlock	TA	TA	No	Unf	0
## 228	CBlock	TA	TA	No	Rec	321
## 231	CBlock	TA	TA	No	Unf	0
## 234	CBlock	TA	Gd	Av	LwQ	182
## 236	CBlock	TA	TA	No	ALQ	358
## 237	PConc	Gd	TA	Av	GLQ	24
## 238	PConc	Gd	TA	No	BLQ	402
## 239	PConc	Ex	TA	No	Unf	0
## 241	PConc	Gd	TA	Av	GLQ	1078
## 242	CBlock	TA	TA	No	ALQ	329
## 243	BrkTil	TA	TA	No	Unf	0
## 247	Stone	Fa	TA	No	Unf	0
## 249	PConc	Gd	TA	No	Unf	0
## 251	CBlock	TA	TA	No	Unf	0
## 253	PConc	Gd	TA	No	Unf	0
## 254	CBlock	Gd	TA	Gd	LwQ	270
## 255	CBlock	TA	TA	No	Rec	922
## 257	PConc	Gd	TA	No	Rec	503
## 260	PConc	No basement	No basement	No basement	No basement	0
## 264	BrkTil	TA	TA	No	LwQ	234
## 265	BrkTil	Fa	TA	No	Unf	0
## 275	CBlock	TA	TA	Gd	ALQ	546
## 276	BrkTil	TA	TA	No	Unf	0
## 277	PConc	Ex	TA	No	Unf	0
## 278	CBlock	TA	TA	No	LwQ	120
## 282	PConc	Gd	TA	No	GLQ	905
## 285	PConc	Gd	TA	No	GLQ	430
## 286	PConc	Gd	TA	No	Unf	0
## 288	CBlock	TA	TA	No	BLQ	614
## 289	CBlock	TA	TA	No	BLQ	450
## 290	BrkTil	TA	TA	No	Unf	0
## 292	PConc	TA	Fa	No	Rec	210
## 296	CBlock	TA	TA	Av	GLQ	819

## 297	CBlock	TA	TA	No	BLQ	420
## 304	PConc	TA	TA	No	ALQ	894
## 306	PConc	Gd	TA	No	GLQ	1464
## 308	CBlock	TA	TA	No	Unf	0
## 309	CBlock	TA	TA	No	BLQ	262
## 321	PConc	Ex	Gd	Av	Unf	0
## 324	CBlock	TA	TA	No	ALQ	256
## 326	CBlock	TA	TA	Av	BLQ	116
## 328	CBlock	TA	TA	No	Rec	565
## 329	BrkTil	TA	TA	No	Unf	0
## 330	PConc	TA	TA	Mn	Unf	0
## 331	CBlock	TA	TA	No	GLQ	40
## 332	CBlock	TA	TA	No	Rec	846
## 338	PConc	Gd	TA	Av	GLQ	810
## 339	CBlock	Gd	TA	Mn	ALQ	213
## 340	CBlock	TA	Fa	No	Rec	585
## 341	PConc	Gd	TA	No	Unf	0
## 342	CBlock	TA	Fa	No	Unf	0
## 343	Slab	No basement	No basement	No basement	No basement	0
## 345	CBlock	Gd	TA	No	Rec	129
## 347	CBlock	TA	TA	Mn	BLQ	498
## 349	PConc	Gd	TA	No	GLQ	573
## 353	CBlock	TA	Fa	Mn	LwQ	236
## 354	BrkTil	TA	TA	No	Unf	0
## 356	PConc	Gd	Gd	No	ALQ	334
## 357	PConc	Gd	TA	No	GLQ	560
## 359	CBlock	TA	TA	Av	BLQ	300
## 362	CBlock	TA	TA	No	Rec	399
## 364	CBlock	TA	TA	No	ALQ	162
## 366	CBlock	TA	Fa	No	Rec	456
## 373	CBlock	Gd	TA	No	ALQ	623
## 374	PConc	TA	TA	No	BLQ	428
## 376	BrkTil	Fa	Po	Gd	BLQ	350
## 377	PConc	Gd	TA	Av	GLQ	298
## 383	PConc	Gd	TA	Av	Unf	0
## 384	BrkTil	Fa	Fa	No	Unf	0
## 387	PConc	TA	TA	No	Unf	0
## 389	PConc	Gd	TA	No	Unf	0
## 391	BrkTil	TA	Gd	No	Rec	241
## 393	Slab	No basement	No basement	No basement	No basement	0
## 395	CBlock	TA	TA	No	Unf	0
## 396	CBlock	TA	TA	Av	BLQ	739
## 397	CBlock	TA	TA	Av	Rec	777
## 399	BrkTil	Fa	Po	No	Unf	0
## 400	PConc	Gd	TA	No	GLQ	812
## 403	PConc	TA	TA	No	Unf	0
## 407	BrkTil	TA	TA	No	Unf	0
## 408	BrkTil	Gd	TA	No	Unf	0
## 411	CBlock	TA	Fa	No	Unf	0
## 412	CBlock	TA	TA	Mn	Rec	1056
## 416	PConc	Gd	TA	Av	GLQ	24
## 419	BrkTil	TA	TA	No	ALQ	312
## 421	PConc	Gd	Gd	Gd	GLQ	1309
## 423	CBlock	TA	TA	No	Unf	0

## 428	CBlock	TA	TA	No	Rec	288
## 429	PConc	Gd	TA	No	GLQ	664
## 431	CBlock	TA	TA	No	ALQ	387
## 432	BrkTil	TA	TA	No	Unf	0
## 433	CBlock	TA	TA	No	ALQ	471
## 435	CBlock	Gd	TA	Av	ALQ	495
## 437	BrkTil	Fa	TA	No	Unf	0
## 438	PConc	TA	TA	No	Unf	0
## 440	BrkTil	TA	Fa	Mn	Unf	0
## 442	CBlock	TA	TA	No	ALQ	133
## 450	CBlock	TA	TA	No	ALQ	331
## 451	BrkTil	TA	TA	No	Unf	0
## 453	PConc	Ex	TA	No	ALQ	742
## 454	PConc	Gd	TA	No	Unf	0
## 455	CBlock	TA	TA	No	ALQ	1606
## 457	BrkTil	TA	TA	No	Unf	0
## 461	PConc	Gd	TA	No	GLQ	544
## 462	PConc	Gd	Gd	No	ALQ	350
## 465	CBlock	Gd	TA	No	Rec	616
## 470	PConc	Gd	TA	No	GLQ	426
## 471	PConc	Gd	TA	Av	GLQ	368
## 473	PConc	Gd	TA	Gd	GLQ	459
## 475	PConc	Gd	TA	Av	GLQ	1196
## 476	CBlock	TA	TA	No	GLQ	630
## 480	BrkTil	Fa	TA	No	Rec	168
## 484	PConc	Ex	TA	No	GLQ	897
## 485	CBlock	TA	TA	No	ALQ	588
## 487	CBlock	TA	TA	No	ALQ	836
## 490	CBlock	Gd	TA	Av	GLQ	515
## 493	PConc	Gd	TA	No	Unf	0
## 495	BrkTil	Fa	TA	No	Unf	0
## 496	CBlock	TA	TA	No	Rec	495
## 498	PConc	TA	TA	No	Rec	329
## 499	PConc	TA	TA	No	ALQ	450
## 500	CBlock	TA	TA	No	BLQ	111
## 501	CBlock	TA	TA	No	BLQ	356
## 502	PConc	Gd	TA	No	GLQ	400
## 503	CBlock	TA	TA	No	ALQ	698
## 506	CBlock	TA	TA	No	Unf	0
## 508	PConc	Gd	TA	No	GLQ	27
## 510	CBlock	TA	TA	No	ALQ	991
## 513	CBlock	TA	TA	No	BLQ	521
## 514	PConc	TA	TA	No	ALQ	336
## 515	BrkTil	TA	TA	No	Unf	0
## 519	PConc	Gd	TA	Mn	GLQ	706
## 521	BrkTil	No basement	No basement	No basement	No basement	0
## 527	CBlock	Gd	TA	No	Rec	377
## 529	BrkTil	TA	TA	Mn	ALQ	348
## 532	BrkTil	Fa	Fa	Mn	Unf	0
## 534	Slab	No basement	No basement	No basement	No basement	0
## 536	CBlock	Gd	TA	Gd	GLQ	969
## 537	PConc	Gd	TA	Av	Unf	0
## 538	CBlock	TA	TA	No	BLQ	600
## 544	PConc	Gd	TA	Av	GLQ	584

## 546	PConc	Gd	Gd	No	GLQ	1002
## 548	CBlock	Gd	TA	Av	ALQ	619
## 549	CBlock	TA	TA	No	LwQ	180
## 551	CBlock	Gd	TA	No	ALQ	559
## 552	CBlock	TA	TA	No	Rec	308
## 554	CBlock	No basement	No basement	No basement	No basement	0
## 558	CBlock	TA	TA	No	Rec	637
## 566	PConc	Gd	TA	No	Unf	0
## 568	PConc	Gd	TA	No	GLQ	2
## 571	CBlock	TA	TA	No	LwQ	231
## 572	CBlock	TA	TA	No	BLQ	414
## 573	PConc	Ex	TA	Av	Unf	0
## 575	CBlock	TA	TA	Av	ALQ	349
## 576	CBlock	TA	TA	No	Rec	442
## 579	PConc	Gd	TA	No	Unf	0
## 580	BrkTil	TA	TA	No	Unf	0
## 583	CBlock	Gd	TA	Av	GLQ	816
## 585	BrkTil	TA	TA	No	Unf	0
## 587	BrkTil	TA	Gd	Mn	Rec	210
## 588	CBlock	TA	TA	Av	ALQ	672
## 590	BrkTil	TA	TA	No	Unf	0
## 591	PConc	Gd	TA	No	GLQ	490
## 593	PConc	TA	Gd	No	GLQ	816
## 594	PConc	Gd	TA	Av	GLQ	685
## 595	CBlock	Gd	TA	No	Unf	0
## 597	CBlock	TA	TA	No	Unf	0
## 604	PConc	Gd	TA	No	Unf	0
## 607	PConc	Gd	TA	No	GLQ	732
## 608	CBlock	TA	Gd	No	GLQ	603
## 610	CBlock	TA	TA	Mn	Rec	903
## 614	PConc	Gd	TA	No	ALQ	206
## 615	CBlock	Gd	TA	Av	LwQ	150
## 616	PConc	TA	TA	Gd	GLQ	763
## 618	CBlock	TA	TA	No	Unf	0
## 621	BrkTil	TA	TA	No	BLQ	41
## 623	CBlock	TA	TA	No	BLQ	560
## 626	CBlock	TA	TA	No	Unf	0
## 630	CBlock	TA	TA	Gd	GLQ	624
## 631	BrkTil	Fa	Fa	No	Unf	0
## 634	CBlock	TA	TA	No	BLQ	480
## 635	CBlock	TA	TA	No	GLQ	1056
## 636	CBlock	TA	Fa	No	LwQ	256
## 638	CBlock	TA	TA	No	Unf	0
## 639	CBlock	Fa	TA	No	Unf	0
## 644	CBlock	TA	TA	No	Rec	493
## 646	CBlock	TA	TA	No	ALQ	282
## 647	CBlock	No basement	No basement	No basement	No basement	0
## 650	CBlock	Gd	TA	Av	BLQ	131
## 651	PConc	Gd	TA	No	Unf	0
## 654	CBlock	TA	TA	No	Unf	0
## 656	CBlock	TA	TA	No	Unf	0
## 657	CBlock	TA	TA	No	ALQ	806
## 660	PConc	TA	TA	No	BLQ	637
## 664	CBlock	Gd	TA	Av	BLQ	920

## 671	PConc	Gd	TA	No	GLQ	193
## 672	BrkTil	TA	TA	No	BLQ	551
## 677	BrkTil	TA	Fa	No	Unf	0
## 678	BrkTil	TA	TA	No	Unf	0
## 680	CBlock	TA	TA	No	Rec	827
## 682	BrkTil	TA	TA	No	Rec	182
## 685	PConc	Gd	TA	No	Unf	0
## 687	PConc	Gd	TA	No	Unf	0
## 688	PConc	Gd	TA	No	GLQ	239
## 694	BrkTil	TA	TA	No	Unf	0
## 695	BrkTil	TA	TA	No	Unf	0
## 697	CBlock	TA	TA	No	LwQ	616
## 698	PConc	Ex	Gd	Mn	LwQ	210
## 700	PConc	Gd	TA	Mn	GLQ	16
## 702	CBlock	TA	TA	No	Unf	0
## 705	PConc	Gd	TA	Av	GLQ	712
## 706	Slab	No basement	No basement	No basement	No basement	0
## 710	PConc	TA	TA	No	Unf	0
## 711	CBlock	TA	TA	No	Unf	0
## 712	Stone	TA	TA	Mn	Unf	0
## 714	CBlock	TA	TA	Av	ALQ	789
## 715	CBlock	TA	TA	No	GLQ	533
## 717	BrkTil	TA	TA	No	Unf	0
## 722	PConc	Gd	TA	Av	GLQ	662
## 723	CBlock	TA	TA	No	ALQ	191
## 724	PConc	TA	TA	No	Unf	0
## 726	CBlock	TA	TA	No	ALQ	375
## 728	PConc	Gd	TA	Av	GLQ	724
## 729	CBlock	TA	TA	No	Unf	0
## 730	CBlock	TA	TA	No	BLQ	152
## 735	PConc	TA	TA	No	Unf	0
## 737	CBlock	No basement	No basement	No basement	No basement	0
## 739	CBlock	Gd	Gd	Gd	GLQ	1200
## 740	PConc	Gd	TA	No	Unf	0
## 741	BrkTil	Fa	Fa	No	Unf	0
## 742	CBlock	TA	TA	Mn	GLQ	832
## 743	PConc	Gd	TA	No	Unf	0
## 750	Slab	No basement	No basement	No basement	No basement	0
## 751	BrkTil	TA	Fa	No	Unf	0
## 752	PConc	Gd	TA	No	Unf	0
## 753	PConc	Gd	TA	Gd	GLQ	1200
## 755	CBlock	TA	TA	No	GLQ	439
## 756	PConc	Gd	TA	No	GLQ	381
## 757	PConc	Gd	TA	Av	GLQ	20
## 759	PConc	Gd	TA	No	ALQ	549
## 761	CBlock	TA	TA	No	Rec	612
## 762	PConc	TA	TA	Mn	LwQ	405
## 763	PConc	Gd	TA	Mn	GLQ	24
## 768	CBlock	Gd	TA	Mn	ALQ	660
## 771	CBlock	Gd	TA	Av	GLQ	685
## 772	CBlock	Fa	Fa	No	LwQ	836
## 774	CBlock	TA	TA	No	Rec	456
## 776	PConc	Ex	TA	No	GLQ	866
## 777	PConc	Gd	TA	Av	GLQ	20

## 780	CBlock	Gd	TA	Gd	GLQ	975
## 782	PConc	Gd	TA	No	ALQ	387
## 783	PConc	Gd	TA	No	Unf	0
## 787	PConc	Fa	TA	No	LwQ	686
## 788	PConc	Gd	TA	No	GLQ	656
## 789	CBlock	TA	TA	No	Unf	0
## 790	CBlock	TA	Fa	Gd	LwQ	568
## 794	PConc	Gd	TA	Av	Unf	0
## 798	CBlock	TA	TA	No	BLQ	570
## 801	PConc	Gd	TA	Gd	GLQ	462
## 802	CBlock	TA	TA	No	LwQ	197
## 805	CBlock	TA	TA	No	LwQ	812
## 806	PConc	Gd	TA	No	Unf	0
## 807	PConc	TA	TA	Av	ALQ	400
## 810	PConc	TA	TA	No	Unf	0
## 813	CBlock	TA	TA	Av	Unf	0
## 814	CBlock	TA	TA	No	Rec	608
## 815	BrkTil	TA	TA	No	Unf	0
## 816	PConc	Gd	TA	No	Unf	0
## 819	CBlock	TA	TA	Av	GLQ	504
## 821	PConc	Gd	TA	No	Unf	0
## 822	CBlock	Fa	TA	No	Unf	0
## 827	BrkTil	TA	TA	No	ALQ	784
## 829	PConc	TA	Gd	Gd	LwQ	249
## 830	PConc	Gd	TA	No	Unf	0
## 832	PConc	Gd	TA	No	Unf	0
## 834	CBlock	TA	TA	No	Rec	196
## 835	CBlock	TA	TA	No	Rec	572
## 836	CBlock	Gd	TA	No	BLQ	442
## 837	BrkTil	TA	TA	No	Rec	338
## 838	CBlock	TA	TA	No	BLQ	330
## 839	PConc	Gd	TA	No	Unf	0
## 840	CBlock	TA	TA	No	BLQ	352
## 841	BrkTil	TA	TA	No	BLQ	156
## 843	CBlock	TA	TA	Gd	Rec	312
## 844	CBlock	TA	TA	No	Unf	0
## 851	PConc	Gd	TA	Av	GLQ	659
## 856	CBlock	TA	TA	No	ALQ	659
## 857	CBlock	Gd	Gd	Gd	GLQ	505
## 862	PConc	TA	TA	Mn	BLQ	841
## 863	PConc	Gd	TA	No	GLQ	338
## 864	CBlock	TA	TA	No	BLQ	1148
## 865	PConc	Ex	TA	No	Unf	0
## 866	CBlock	TA	TA	No	BLQ	828
## 868	CBlock	TA	TA	No	ALQ	932
## 871	CBlock	TA	TA	No	Unf	0
## 872	PConc	Gd	TA	No	GLQ	505
## 873	Stone	TA	TA	Av	Unf	0
## 875	CBlock	TA	TA	No	Unf	0
## 877	PConc	TA	TA	Gd	ALQ	633
## 879	CBlock	TA	TA	Av	ALQ	899
## 880	CBlock	TA	TA	No	ALQ	646
## 881	PConc	Ex	Gd	No	ALQ	980
## 884	PConc	TA	Fa	No	Unf	0

## 885	CBlock	TA	TA	No	BLQ	432
## 887	CBlock	TA	TA	No	LwQ	528
## 888	PConc	TA	TA	No	Unf	0
## 893	CBlock	TA	TA	No	GLQ	663
## 895	Slab	No basement	No basement	No basement	No basement	0
## 897	BrkTil	TA	TA	No	ALQ	285
## 898	Slab	No basement	No basement	No basement	No basement	0
## 901	CBlock	TA	TA	No	ALQ	322
## 902	CBlock	TA	TA	Mn	BLQ	860
## 905	CBlock	TA	TA	No	GLQ	599
## 906	CBlock	TA	TA	No	Rec	354
## 909	CBlock	Gd	TA	Av	BLQ	301
## 911	CBlock	TA	TA	No	Rec	443
## 912	CBlock	Gd	Gd	Av	ALQ	196
## 913	BrkTil	TA	TA	No	Rec	489
## 914	CBlock	TA	TA	No	BLQ	284
## 915	PConc	Gd	TA	Av	GLQ	294
## 916	CBlock	TA	TA	No	Unf	0
## 917	CBlock	TA	TA	Av	BLQ	50
## 918	CBlock	TA	TA	No	ALQ	1059
## 921	PConc	Gd	Gd	No	GLQ	814
## 922	CBlock	TA	TA	No	ALQ	1084
## 926	PConc	Gd	TA	Av	ALQ	767
## 931	PConc	Gd	TA	Av	GLQ	16
## 932	CBlock	TA	TA	No	BLQ	338
## 934	PConc	Gd	TA	Av	GLQ	20
## 936	PConc	Fa	TA	Mn	Unf	0
## 937	PConc	Gd	TA	No	GLQ	833
## 939	PConc	Gd	Gd	Mn	GLQ	464
## 941	CBlock	TA	TA	Gd	Rec	936
## 943	PConc	Gd	TA	Gd	GLQ	1440
## 944	CBlock	TA	TA	Av	Unf	0
## 946	BrkTil	TA	TA	No	LwQ	1088
## 951	CBlock	TA	TA	No	ALQ	398
## 952	CBlock	TA	TA	No	BLQ	641
## 953	CBlock	Gd	TA	Av	GLQ	660
## 955	CBlock	Gd	Gd	Gd	GLQ	945
## 956	CBlock	Gd	TA	No	Rec	484
## 958	CBlock	TA	TA	No	Rec	417
## 959	PConc	Gd	TA	Mn	GLQ	699
## 960	PConc	Gd	TA	No	ALQ	604
## 961	CBlock	TA	TA	Gd	BLQ	696
## 964	PConc	Ex	TA	No	Unf	0
## 968	CBlock	TA	TA	No	ALQ	902
## 969	BrkTil	TA	TA	No	Unf	0
## 970	CBlock	TA	TA	Gd	ALQ	513
## 971	CBlock	TA	TA	No	Unf	0
## 972	PConc	Gd	TA	No	GLQ	567
## 974	PConc	Gd	TA	No	Unf	0
## 975	BrkTil	Gd	TA	No	Unf	0
## 976	PConc	Gd	TA	No	GLQ	641
## 977	PConc	Gd	TA	No	Unf	0
## 978	PConc	Gd	TA	No	GLQ	1106
## 979	CBlock	TA	TA	No	LwQ	552

## 980	PConc	TA	TA	No	Rec	651
## 981	CBlock	TA	TA	Av	ALQ	867
## 985	CBlock	No basement	No basement	No basement	No basement	0
## 986	CBlock	TA	TA	No	ALQ	1040
## 987	CBlock	TA	Fa	No	Unf	0
## 990	PConc	Gd	Gd	No	Unf	0
## 994	PConc	Gd	TA	No	Unf	0
## 996	CBlock	TA	TA	No	ALQ	384
## 997	CBlock	TA	TA	No	Rec	915
## 1000	PConc	Gd	TA	Av	GLQ	686
## 1001	Slab	No basement	No basement	No basement	No basement	0
## 1002	BrkTil	Fa	TA	No	Unf	0
## 1004	CBlock	TA	TA	No	Unf	0
## 1006	CBlock	Gd	Gd	Av	GLQ	595
## 1008	CBlock	TA	TA	No	BLQ	273
## 1010	BrkTil	TA	TA	No	Unf	0
## 1012	CBlock	No basement	No basement	No basement	No basement	0
## 1014	BrkTil	TA	TA	No	ALQ	247
## 1016	PConc	Gd	TA	No	GLQ	643
## 1021	PConc	Gd	TA	No	GLQ	1024
## 1022	PConc	Gd	TA	Av	GLQ	684
## 1023	CBlock	TA	TA	No	LwQ	324
## 1026	CBlock	TA	TA	No	LwQ	138
## 1030	CBlock	TA	TA	No	BLQ	317
## 1031	PConc	TA	TA	Mn	Unf	0
## 1034	PConc	Gd	TA	No	GLQ	986
## 1036	Slab	No basement	No basement	No basement	No basement	0
## 1040	CBlock	Gd	TA	Av	GLQ	509
## 1042	CBlock	TA	TA	No	GLQ	400
## 1048	PConc	Gd	TA	No	GLQ	686
## 1050	CBlock	No basement	No basement	No basement	No basement	0
## 1051	PConc	Gd	TA	Av	Unf	0
## 1061	PConc	Gd	TA	Mn	GLQ	616
## 1062	CBlock	TA	TA	No	Unf	0
## 1063	BrkTil	TA	TA	No	Unf	0
## 1066	PConc	Ex	TA	Gd	GLQ	1201
## 1068	CBlock	TA	TA	Gd	GLQ	674
## 1070	CBlock	TA	TA	No	ALQ	220
## 1071	CBlock	TA	TA	No	BLQ	586
## 1072	CBlock	TA	TA	No	Rec	298
## 1074	CBlock	TA	TA	No	BLQ	535
## 1075	PConc	Gd	TA	Av	Unf	0
## 1078	CBlock	TA	TA	Mn	BLQ	75
## 1080	PConc	Gd	TA	No	GLQ	495
## 1081	CBlock	TA	TA	No	ALQ	656
## 1082	CBlock	TA	TA	No	ALQ	824
## 1086	PConc	Gd	TA	Av	GLQ	747
## 1087	CBlock	TA	TA	No	BLQ	334
## 1089	PConc	Gd	TA	No	Unf	0
## 1091	Slab	No basement	No basement	No basement	No basement	0
## 1092	PConc	Gd	TA	No	BLQ	510
## 1094	CBlock	TA	TA	Mn	GLQ	661
## 1095	CBlock	TA	TA	No	BLQ	248
## 1097	PConc	TA	TA	No	Unf	0



## 1098	CBlock	Gd	TA	No	Unf	0
## 1099	BrkTil	TA	TA	No	BLQ	672
## 1101	CBlock	TA	Fa	No	Rec	290
## 1102	CBlock	TA	TA	No	BLQ	412
## 1103	CBlock	TA	TA	No	Rec	588
## 1105	CBlock	TA	TA	No	Unf	0
## 1113	CBlock	TA	TA	No	GLQ	708
## 1114	CBlock	TA	TA	No	BLQ	643
## 1115	CBlock	TA	TA	No	Rec	415
## 1118	CBlock	TA	TA	No	BLQ	702
## 1119	CBlock	TA	TA	No	Unf	0
## 1120	CBlock	TA	TA	No	LwQ	369
## 1122	PConc	Gd	TA	Av	GLQ	24
## 1123	CBlock	TA	TA	No	Unf	0
## 1124	CBlock	TA	TA	No	Unf	0
## 1130	CBlock	Gd	TA	Gd	GLQ	936
## 1132	PConc	Gd	TA	Mn	BLQ	212
## 1133	BrkTil	TA	TA	Mn	Unf	0
## 1137	CBlock	TA	TA	No	BLQ	280
## 1138	CBlock	TA	TA	No	Unf	0
## 1141	CBlock	TA	TA	Mn	ALQ	852
## 1144	CBlock	TA	TA	No	GLQ	288
## 1145	BrkTil	Gd	TA	No	BLQ	348
## 1150	PConc	TA	TA	No	ALQ	624
## 1154	BrkTil	TA	TA	Av	ALQ	538
## 1159	PConc	Gd	TA	No	Unf	0
## 1164	CBlock	Gd	TA	Av	GLQ	1198
## 1166	PConc	Gd	TA	No	Unf	0
## 1167	PConc	Gd	TA	Av	Unf	0
## 1173	PConc	Gd	TA	No	Unf	0
## 1177	CBlock	TA	TA	No	ALQ	658
## 1178	CBlock	TA	TA	No	Rec	468
## 1181	Wood	Gd	TA	No	LwQ	1216
## 1186	BrkTil	TA	TA	No	BLQ	392
## 1187	CBlock	Fa	TA	Mn	BLQ	440
## 1189	PConc	Gd	TA	No	Unf	0
## 1192	PConc	Gd	TA	No	Unf	0
## 1193	PConc	TA	TA	Mn	Unf	0
## 1194	PConc	Ex	TA	No	GLQ	883
## 1195	CBlock	TA	TA	No	ALQ	371
## 1196	PConc	Gd	TA	No	Unf	0
## 1199	PConc	Gd	TA	No	Unf	0
## 1201	CBlock	TA	TA	No	Unf	0
## 1202	PConc	Gd	TA	Av	Unf	0
## 1205	CBlock	Gd	TA	No	ALQ	788
## 1207	CBlock	TA	TA	No	Rec	1056
## 1208	PConc	Gd	TA	Av	GLQ	340
## 1209	CBlock	TA	TA	No	Rec	504
## 1212	Wood	Gd	TA	Av	GLQ	427
## 1213	CBlock	TA	TA	No	Rec	344
## 1214	CBlock	TA	Gd	Av	GLQ	648
## 1215	CBlock	TA	TA	Av	BLQ	784
## 1216	CBlock	TA	TA	No	Rec	180
## 1217	Slab	No basement	No basement	No basement	No basement	0

## 1218	PConc	Gd	TA	Mn	GLQ	936
## 1219	Slab	No basement	No basement	No basement	No basement	0
## 1220	CBlock	TA	TA	No	Unf	0
## 1221	CBlock	TA	TA	No	Rec	312
## 1224	CBlock	TA	Fa	No	LwQ	756
## 1226	CBlock	TA	TA	Av	GLQ	507
## 1228	CBlock	TA	TA	No	ALQ	595
## 1230	CBlock	TA	TA	No	ALQ	666
## 1232	CBlock	TA	TA	Av	ALQ	803
## 1233	Slab	No basement	No basement	No basement	No basement	0
## 1234	CBlock	TA	TA	No	Rec	1000
## 1235	PConc	TA	TA	Av	Unf	0
## 1236	BrkTil	Gd	TA	Mn	Unf	0
## 1237	PConc	Gd	TA	No	Unf	0
## 1239	PConc	Gd	TA	No	Unf	0
## 1241	PConc	Gd	TA	No	GLQ	550
## 1242	PConc	Gd	TA	Av	Unf	0
## 1247	PConc	Gd	TA	No	Unf	0
## 1248	CBlock	TA	TA	Av	GLQ	539
## 1250	CBlock	TA	TA	No	BLQ	534
## 1253	CBlock	TA	TA	No	BLQ	510
## 1258	PConc	Fa	TA	No	Unf	0
## 1259	PConc	Gd	TA	Gd	GLQ	655
## 1260	CBlock	Gd	TA	No	ALQ	602
## 1262	CBlock	TA	TA	No	Rec	504
## 1265	PConc	Gd	TA	No	GLQ	266
## 1266	PConc	Gd	TA	No	GLQ	450
## 1270	CBlock	TA	TA	No	BLQ	460
## 1273	CBlock	TA	TA	No	BLQ	560
## 1276	CBlock	TA	TA	No	Rec	220
## 1280	CBlock	TA	TA	No	Unf	0
## 1281	PConc	Gd	TA	No	GLQ	788
## 1283	CBlock	Gd	TA	Mn	LwQ	532
## 1284	CBlock	TA	TA	Av	Unf	0
## 1288	CBlock	TA	TA	Av	Rec	812
## 1292	CBlock	TA	TA	No	ALQ	231
## 1293	Stone	TA	TA	No	Unf	0
## 1295	CBlock	TA	TA	No	Rec	167
## 1296	CBlock	TA	TA	Av	BLQ	1016
## 1297	CBlock	TA	TA	Mn	ALQ	776
## 1298	PConc	Gd	TA	Gd	GLQ	547
## 1300	CBlock	TA	TA	No	LwQ	340
## 1304	PConc	Gd	TA	Av	Unf	0
## 1305	PConc	Gd	TA	No	Unf	0
## 1308	PConc	Gd	Gd	No	ALQ	746
## 1309	CBlock	TA	TA	No	GLQ	144
## 1310	CBlock	Gd	TA	No	GLQ	1200
## 1312	PConc	Gd	TA	No	GLQ	925
## 1320	PConc	TA	TA	No	ALQ	492
## 1322	CBlock	No basement	No basement	No basement	No basement	0
## 1324	CBlock	TA	TA	No	LwQ	280
## 1326	BrkTil	TA	Fa	No	Unf	0
## 1327	BrkTil	TA	TA	No	Rec	544
## 1332	CBlock	TA	TA	Av	ALQ	483

## 1334	CBlock	TA	TA	No	Unf	0
## 1335	CBlock	TA	TA	No	LwQ	765
## 1337	CBlock	TA	TA	No	Unf	0
## 1338	CBlock	TA	TA	No	Unf	0
## 1339	PConc	Gd	TA	No	GLQ	700
## 1340	CBlock	TA	TA	Mn	Rec	360
## 1341	CBlock	TA	TA	No	Unf	0
## 1342	PConc	Gd	TA	No	GLQ	814
## 1346	PConc	TA	TA	No	ALQ	250
## 1350	BrkTil	TA	Fa	No	LwQ	259
## 1351	CBlock	TA	TA	No	LwQ	500
## 1353	BrkTil	TA	TA	No	Unf	0
## 1357	CBlock	TA	TA	No	Rec	340
## 1359	PConc	Gd	TA	No	GLQ	378
## 1361	BrkTil	TA	Fa	No	Unf	0
## 1365	PConc	Gd	TA	No	Unf	0
## 1366	PConc	Gd	TA	No	GLQ	533
## 1367	PConc	Gd	TA	No	GLQ	633
## 1369	PConc	Gd	TA	Av	GLQ	685
## 1371	PConc	TA	TA	No	ALQ	315
## 1377	BrkTil	Gd	TA	Mn	Rec	384
## 1378	CBlock	TA	TA	No	LwQ	408
## 1379	CBlock	TA	Fa	No	BLQ	309
## 1380	PConc	Gd	TA	No	Unf	0
## 1381	BrkTil	TA	Fa	No	Rec	203
## 1383	BrkTil	Fa	TA	No	Unf	0
## 1384	BrkTil	TA	TA	No	Unf	0
## 1385	BrkTil	TA	TA	Mn	Rec	204
## 1386	BrkTil	TA	TA	No	BLQ	735
## 1391	PConc	Gd	TA	Av	GLQ	1400
## 1392	CBlock	TA	TA	No	Unf	0
## 1398	BrkTil	TA	TA	Mn	Unf	0
## 1399	CBlock	TA	TA	No	Rec	180
## 1404	PConc	Gd	TA	Gd	GLQ	929
## 1405	PConc	TA	TA	No	Unf	0
## 1407	CBlock	Gd	TA	Av	GLQ	656
## 1408	CBlock	TA	TA	No	ALQ	625
## 1409	CBlock	Fa	TA	No	Unf	0
## 1411	PConc	Gd	TA	No	GLQ	666
## 1412	CBlock	TA	TA	No	BLQ	120
## 1413	Slab	No basement	No basement	No basement	No basement	0
## 1417	PConc	TA	TA	No	Unf	0
## 1419	CBlock	TA	TA	No	BLQ	25
## 1423	PConc	Gd	TA	Av	GLQ	686
## 1426	CBlock	TA	TA	No	Unf	0
## 1432	CBlock	Gd	TA	No	LwQ	958
## 1433	BrkTil	TA	TA	No	Unf	0
## 1437	PConc	TA	TA	No	ALQ	616
## 1439	CBlock	TA	TA	No	GLQ	600
## 1445	PConc	Gd	TA	Av	Unf	0
## 1446	CBlock	TA	TA	Gd	LwQ	187
## 1447	CBlock	TA	TA	No	Rec	593
## 1449	CBlock	Fa	TA	No	Unf	0
## 1450	CBlock	Gd	TA	Av	GLQ	553

## 1451	CBlock	Gd	TA	No	Unf	0	
## 1453	PConc	Gd	TA	Gd	GLQ	547	
## 1454	PConc	Gd	TA	No	Unf	0	
## 1455	PConc	Gd	TA	No	GLQ	410	
## 1459	CBlock	TA	TA	Mn	GLQ	49	
## 1460	CBlock	TA	TA	No	BLQ	830	
##	BsmtFinType2	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	Heating	HeatingQC	CentralAir
## 1	Unf	0	150	856	GasA	Ex	Y
## 6	Unf	0	64	796	GasA	Ex	Y
## 11	Unf	0	134	1040	GasA	Ex	Y
## 13	Unf	0	175	912	GasA	TA	Y
## 16	Unf	0	832	832	GasA	Ex	Y
## 18	No basement	0	0	0	GasA	TA	Y
## 19	Unf	0	468	1114	GasA	Ex	Y
## 20	Unf	0	525	1029	GasA	TA	Y
## 27	Rec	486	180	900	GasA	TA	Y
## 30	Unf	0	520	520	GasA	Fa	N
## 31	Unf	0	649	649	GasA	TA	N
## 32	Unf	0	1228	1228	GasA	Gd	Y
## 33	Unf	0	1234	1234	GasA	Ex	Y
## 37	Unf	0	1097	1097	GasA	Ex	Y
## 39	Unf	0	326	1057	GasA	TA	Y
## 40	No basement	0	0	0	GasA	TA	N
## 43	LwQ	93	0	840	GasA	Gd	Y
## 44	BLQ	491	167	938	GasA	TA	Y
## 45	BLQ	506	465	1150	GasA	Ex	Y
## 48	Unf	0	1632	1656	GasA	Ex	Y
## 49	Unf	0	736	736	GasA	Gd	Y
## 50	Unf	0	192	955	GasA	Ex	Y
## 51	Unf	0	612	794	GasA	Gd	Y
## 53	GLQ	712	0	816	GasA	TA	N
## 57	Unf	0	321	970	GasA	Ex	Y
## 58	Unf	0	860	860	GasA	Ex	Y
## 60	Unf	0	148	780	GasA	Ex	Y
## 61	Unf	0	217	1158	GasA	Ex	Y
## 62	Unf	0	530	530	GasA	TA	N
## 64	Unf	0	576	576	GasA	Gd	Y
## 65	Unf	0	318	1057	GasA	Ex	Y
## 68	Unf	0	440	1453	GasA	Ex	Y
## 69	Unf	0	747	747	GasA	TA	Y
## 72	Unf	0	280	845	GasA	TA	Y
## 74	BLQ	362	404	1086	GasA	Gd	Y
## 75	Unf	0	840	840	GasA	Gd	N
## 76	Unf	0	0	462	GasA	TA	Y
## 77	Unf	0	724	952	GasA	Ex	Y
## 78	GLQ	41	295	672	GasA	TA	Y
## 79	Unf	0	1768	1768	GasA	TA	N
## 80	Unf	0	440	440	GasA	Gd	Y
## 82	Unf	0	36	1237	GasA	Ex	Y
## 84	Unf	0	1065	1065	GasA	Gd	Y
## 88	Unf	0	612	612	GasA	Ex	Y
## 89	Unf	0	1013	1013	GasA	TA	N
## 90	Unf	0	402	990	GasA	Ex	Y
## 91	No basement	0	0	0	GasA	TA	Y

## 92	Unf	0	635	1235	GasA	TA	Y
## 93	Unf	0	163	876	GasA	Ex	Y
## 95	Unf	0	176	824	GasA	Ex	Y
## 97	Unf	0	426	1588	GasA	Ex	Y
## 98	Unf	0	440	960	GasA	TA	Y
## 99	Unf	0	350	458	GasA	Fa	N
## 100	Unf	0	381	950	GasA	Fa	Y
## 103	No basement	0	0	0	GasA	TA	Y
## 104	Unf	0	1226	1226	GasA	Ex	Y
## 107	Unf	0	641	641	GasA	Gd	Y
## 108	BLQ	169	516	789	GasA	Ex	Y
## 109	Unf	0	793	793	GasW	TA	N
## 111	Unf	0	550	994	GasA	Gd	Y
## 118	Unf	0	1125	1125	GasA	Gd	Y
## 122	Unf	0	732	732	GasA	Gd	Y
## 123	Unf	0	510	1080	GasA	Gd	Y
## 124	Unf	0	899	1199	GasA	Ex	Y
## 126	Unf	0	30	520	GasA	Gd	N
## 130	BLQ	28	413	1008	GasA	TA	Y
## 133	Unf	0	658	1063	GasA	Gd	Y
## 134	Unf	0	262	1267	GasA	Ex	Y
## 138	Unf	0	1907	1907	GasA	Gd	Y
## 140	Unf	0	107	928	GasA	Ex	Y
## 142	Unf	0	434	1734	GasA	Ex	Y
## 143	Unf	0	403	910	GasA	Fa	Y
## 144	Unf	0	811	1490	GasA	Ex	Y
## 145	Unf	0	396	1728	GasA	TA	Y
## 146	Unf	0	970	970	GasA	Ex	Y
## 147	Unf	0	506	715	GasA	TA	Y
## 149	Unf	0	400	1080	GasA	Ex	Y
## 150	Unf	0	896	896	GasA	Gd	Y
## 151	Unf	0	253	969	GasA	TA	Y
## 155	Unf	0	1200	1200	GasA	TA	Y
## 156	Unf	0	572	572	Grav	Fa	N
## 157	No basement	0	0	0	GasA	TA	Y
## 161	Unf	0	572	1232	GasA	TA	Y
## 164	Unf	0	882	882	GasA	Ex	Y
## 165	Unf	0	779	1149	GasA	Gd	Y
## 166	Rec	181	112	644	GasA	Gd	Y
## 171	Unf	0	360	720	GasA	TA	Y
## 180	Unf	0	968	968	GasA	TA	Y
## 184	Unf	0	1362	1362	GasA	Ex	Y
## 185	Unf	0	504	504	GasA	Gd	Y
## 187	Unf	0	577	1188	GasA	Ex	Y
## 188	Unf	0	660	660	GasA	Ex	Y
## 192	Unf	0	99	725	GasA	Gd	Y
## 193	Unf	0	871	1431	GasA	Ex	Y
## 194	Unf	0	970	970	GasA	Ex	Y
## 195	Unf	0	474	864	GasA	TA	Y
## 199	Unf	0	755	755	GasA	Ex	Y
## 201	Unf	0	1121	1121	GasA	Ex	Y
## 203	Unf	0	0	617	GasA	Gd	Y
## 205	Unf	0	408	720	GasA	TA	Y
## 206	Unf	0	1424	1424	GasA	Ex	Y

## 210	Unf	0	305	1092	GasA	Ex	Y
## 211	Unf	0	396	864	GasA	TA	N
## 212	Unf	0	1176	1212	GasA	Ex	Y
## 214	Unf	0	274	990	GasA	Ex	Y
## 215	Unf	0	311	689	GasA	Ex	Y
## 217	Unf	0	490	1436	GasA	Ex	Y
## 218	Unf	0	686	686	GasA	Fa	N
## 220	Unf	0	1232	1248	GasA	Ex	Y
## 221	Unf	0	1498	1498	GasA	Ex	Y
## 224	LwQ	180	160	864	GasA	Gd	Y
## 226	Unf	0	630	630	GasA	TA	Y
## 228	Unf	0	162	483	GasA	TA	Y
## 231	Unf	0	1194	1194	GasA	TA	Y
## 234	ALQ	712	0	894	GasA	TA	Y
## 236	Unf	0	125	483	GasA	TA	Y
## 237	Unf	0	1390	1414	GasA	Ex	Y
## 238	Unf	0	594	996	GasA	Ex	Y
## 239	Unf	0	1694	1694	GasA	Ex	Y
## 241	Unf	0	488	1566	GasA	Ex	Y
## 242	Unf	0	357	686	GasA	Gd	Y
## 243	Unf	0	540	540	GasA	Gd	N
## 247	Unf	0	1020	1020	GasA	Gd	N
## 249	Unf	0	840	840	GasA	Ex	Y
## 251	Unf	0	728	728	GasA	Ex	Y
## 253	Unf	0	798	798	GasA	Ex	Y
## 254	ALQ	580	452	1302	GasA	Ex	Y
## 255	Unf	0	392	1314	GasA	TA	Y
## 257	Unf	0	361	864	GasA	Ex	Y
## 260	No basement	0	0	0	GasA	Gd	Y
## 264	ALQ	692	0	926	GasA	TA	Y
## 265	Unf	0	680	680	GasA	Gd	N
## 275	Unf	0	270	816	GasA	TA	Y
## 276	Unf	0	952	952	GasW	Gd	N
## 277	Unf	0	1560	1560	GasA	Ex	Y
## 278	Unf	0	744	864	GasA	Ex	Y
## 282	Unf	0	357	1262	GasA	Gd	Y
## 285	Unf	0	1145	1575	GasA	Gd	Y
## 286	Unf	0	625	625	GasA	Ex	Y
## 288	Unf	0	244	858	GasA	TA	Y
## 289	Unf	0	432	882	GasA	TA	Y
## 290	Unf	0	698	698	GasA	Ex	Y
## 292	Unf	0	570	780	GasA	Ex	N
## 296	Unf	0	184	1003	GasA	TA	Y
## 297	Unf	0	490	910	GasA	TA	Y
## 304	Unf	0	0	894	GasA	TA	Y
## 306	Unf	0	536	2000	GasA	Ex	Y
## 308	Unf	0	319	319	GasA	TA	Y
## 309	Unf	0	599	861	GasA	Ex	Y
## 321	Unf	0	1249	1249	GasA	Ex	Y
## 324	Unf	0	906	1162	GasA	Ex	Y
## 326	Unf	0	604	720	GasA	Po	N
## 328	Unf	0	818	1383	GasA	TA	Y
## 329	Unf	0	844	844	GasA	Gd	N
## 330	Unf	0	596	596	GasA	TA	N

## 331	Rec	264	1424	1728	GasA	TA	Y
## 332	Unf	0	210	1056	GasA	Fa	Y
## 338	Unf	0	726	1536	GasA	Ex	Y
## 339	Unf	0	995	1208	GasA	Ex	Y
## 340	Unf	0	630	1215	GasA	TA	Y
## 341	Unf	0	967	967	GasA	Ex	Y
## 342	Unf	0	721	721	GasA	Gd	Y
## 343	No basement	0	0	0	Wall	Fa	N
## 345	BLQ	232	175	536	GasA	TA	Y
## 347	Unf	0	460	958	GasA	TA	Y
## 349	Unf	0	191	764	GasA	Ex	Y
## 353	Rec	380	0	616	GasA	TA	N
## 354	Unf	0	624	624	GasA	Gd	Y
## 356	BLQ	544	322	1200	GasA	Ex	Y
## 357	Unf	0	598	1158	GasA	Gd	Y
## 359	Rec	294	468	1062	GasA	Ex	Y
## 362	Unf	0	484	883	GasA	Gd	Y
## 364	Unf	0	321	483	GasA	Gd	Y
## 366	Unf	0	216	672	GasA	Gd	Y
## 373	LwQ	121	0	744	GasA	TA	Y
## 374	LwQ	180	0	608	GasA	TA	Y
## 376	Unf	0	333	683	GasA	Gd	N
## 377	Unf	0	572	870	GasA	Ex	Y
## 383	Unf	0	939	939	GasA	Ex	Y
## 384	Unf	0	784	784	GasA	TA	N
## 387	Unf	0	658	658	GasA	TA	Y
## 389	Unf	0	1468	1468	GasA	Ex	Y
## 391	BLQ	391	229	861	GasA	Ex	Y
## 393	No basement	0	0	0	GasA	TA	Y
## 395	Unf	0	735	735	GasA	Gd	Y
## 396	Unf	0	405	1144	GasA	TA	Y
## 397	Unf	0	117	894	GasA	TA	Y
## 399	Unf	0	961	961	GasA	Gd	Y
## 400	Unf	0	280	1092	GasA	Ex	Y
## 403	Unf	0	672	672	GasA	Ex	Y
## 407	Unf	0	1064	1064	GasA	Ex	Y
## 408	Unf	0	840	840	GasA	Ex	Y
## 411	Unf	0	1276	1276	GasA	TA	Y
## 412	Unf	0	0	1056	GasA	TA	N
## 416	Unf	0	1316	1340	GasA	Ex	Y
## 419	Unf	0	444	756	GasA	Fa	N
## 421	Unf	0	35	1344	GasA	Ex	Y
## 423	Unf	0	988	988	GasA	Ex	Y
## 428	Unf	0	619	907	GasA	Ex	Y
## 429	Unf	0	544	1208	GasA	Ex	Y
## 431	Unf	0	96	483	GasA	TA	Y
## 432	Unf	0	901	901	GasA	Gd	Y
## 433	Unf	0	294	765	GasA	Ex	Y
## 435	Unf	0	135	630	GasA	Gd	Y
## 437	Unf	0	648	648	GasA	TA	Y
## 438	Unf	0	884	884	GasA	Gd	Y
## 440	Unf	0	684	684	GasA	Gd	Y
## 442	Unf	0	1307	1440	GasA	TA	N
## 450	Unf	0	318	649	GasA	Ex	Y

## 451	Unf	0	813	813	GasA	Ex	Y
## 453	Unf	0	130	872	GasA	Ex	Y
## 454	Unf	0	768	768	GasA	Ex	Y
## 455	Unf	0	122	1728	GasA	TA	Y
## 457	Unf	0	624	624	GasA	Fa	N
## 461	Unf	0	288	832	GasA	Ex	Y
## 462	BLQ	210	0	560	GasA	Ex	Y
## 465	Unf	0	424	1040	GasA	TA	Y
## 470	Unf	0	406	832	GasA	Ex	Y
## 471	BLQ	1120	0	1488	GasA	TA	Y
## 473	Unf	0	88	547	GasA	Ex	Y
## 475	Unf	0	298	1494	GasA	Ex	Y
## 476	Unf	0	340	970	GasA	TA	Y
## 480	Unf	0	739	907	GasA	TA	Y
## 484	Unf	0	319	1216	GasA	Ex	Y
## 485	Unf	0	411	999	GasA	Gd	Y
## 487	Unf	0	237	1073	GasA	TA	Y
## 490	Unf	0	115	630	GasA	TA	Y
## 493	Unf	0	728	728	GasA	Gd	Y
## 495	Unf	0	190	190	GasA	Gd	Y
## 496	Unf	0	225	720	GasA	TA	N
## 498	Unf	0	697	1026	GasA	Ex	Y
## 499	Unf	0	414	864	GasA	Ex	Y
## 500	LwQ	279	522	912	GasA	Fa	Y
## 501	Unf	0	316	672	GasA	TA	Y
## 502	Unf	0	466	866	GasA	Gd	Y
## 503	GLQ	96	420	1214	GasA	Ex	Y
## 506	Unf	0	960	960	GasA	Gd	Y
## 508	Unf	0	1191	1218	GasA	Ex	Y
## 510	Unf	0	50	1041	GasA	Ex	Y
## 513	LwQ	174	169	864	GasA	TA	Y
## 514	Unf	0	748	1084	GasA	TA	Y
## 515	Unf	0	768	768	Grav	Fa	N
## 519	Unf	0	88	794	GasA	Ex	Y
## 521	No basement	0	0	0	GasA	TA	N
## 527	Unf	0	551	928	GasA	TA	Y
## 529	Unf	0	180	528	GasA	Ex	Y
## 532	Unf	0	611	611	GasA	Ex	Y
## 534	No basement	0	0	0	GasA	Fa	N
## 536	Unf	0	148	1117	GasA	TA	Y
## 537	Unf	0	880	880	GasA	Ex	Y
## 538	Unf	0	264	864	GasA	TA	Y
## 544	LwQ	139	0	723	GasA	Ex	Y
## 546	LwQ	202	0	1204	GasA	Gd	Y
## 548	Unf	0	149	768	GasA	Ex	Y
## 549	Rec	645	0	825	GasA	TA	Y
## 551	Unf	0	510	1069	GasA	TA	Y
## 552	Unf	0	620	928	GasA	Gd	Y
## 554	No basement	0	0	0	GasA	Ex	Y
## 558	Unf	0	0	637	GasA	Gd	Y
## 566	Unf	0	806	806	GasA	TA	N
## 568	Unf	0	1515	1517	GasA	Ex	Y
## 571	Unf	0	1497	1728	GasA	TA	Y
## 572	Unf	0	450	864	GasA	Ex	Y



## 573	Unf	0	846	846	GasA	Gd	Y
## 575	Unf	0	23	372	GasA	TA	Y
## 576	Unf	0	390	832	GasA	TA	Y
## 579	Unf	0	689	689	GasA	Ex	Y
## 580	Unf	0	1050	1050	GasA	Ex	N
## 583	Unf	0	0	816	GasA	TA	Y
## 585	Unf	0	884	884	GasA	Ex	Y
## 587	ALQ	606	0	816	GasA	Ex	Y
## 588	Unf	0	168	840	GasA	TA	Y
## 590	Unf	0	742	742	GasA	TA	Y
## 591	Unf	0	280	770	GasA	Ex	Y
## 593	Unf	0	0	816	GasA	Ex	Y
## 594	Unf	0	163	848	GasA	Ex	Y
## 595	Unf	0	924	924	GasA	TA	Y
## 597	Unf	0	684	684	GasA	Ex	N
## 604	Unf	0	600	600	GasA	Ex	Y
## 607	Unf	0	308	1040	GasA	Gd	Y
## 608	Unf	0	293	896	GasA	Ex	Y
## 610	Unf	0	126	1029	GasA	Gd	Y
## 614	Unf	0	914	1120	GasA	Ex	Y
## 615	GLQ	480	0	630	GasA	Ex	Y
## 616	Unf	0	173	936	GasA	Ex	Y
## 618	Unf	0	832	832	GasA	Gd	Y
## 621	Unf	0	823	864	GasA	TA	N
## 623	Unf	0	420	980	GasA	TA	Y
## 626	Unf	0	1116	1116	GasA	TA	Y
## 630	Rec	336	288	1248	GasA	TA	Y
## 631	Unf	0	636	636	GasA	TA	Y
## 634	LwQ	468	108	1056	GasA	TA	Y
## 635	Unf	0	0	1056	GasA	Gd	Y
## 636	Unf	0	1184	1440	GasA	Ex	Y
## 638	Unf	0	811	811	GasA	TA	Y
## 639	Unf	0	796	796	GasA	Gd	Y
## 644	BLQ	287	0	780	GasA	Ex	Y
## 646	LwQ	35	664	981	GasA	TA	Y
## 647	No basement	0	0	0	GasA	Gd	Y
## 650	GLQ	499	0	630	GasA	Gd	Y
## 651	Unf	0	813	813	GasA	Ex	Y
## 654	Unf	0	756	756	GasA	Ex	Y
## 656	Unf	0	525	525	GasA	TA	Y
## 657	Unf	0	247	1053	GasA	Ex	Y
## 660	Unf	0	849	1486	GasA	Ex	Y
## 664	Rec	180	38	1138	GasA	TA	Y
## 671	Unf	0	545	738	GasA	Ex	Y
## 672	Unf	0	121	672	GasA	TA	N
## 677	Unf	0	1095	1095	GasW	Fa	N
## 678	Unf	0	768	768	GasA	Ex	Y
## 680	Unf	0	161	988	GasA	TA	Y
## 682	Unf	0	611	793	GasA	Ex	Y
## 685	Unf	0	1195	1195	GasA	Gd	Y
## 687	Unf	0	874	874	GasA	Ex	Y
## 688	Unf	0	312	551	GasA	Ex	Y
## 694	Unf	0	1073	1073	GasA	Ex	Y
## 695	Unf	0	927	927	GasA	TA	Y

## 697	Unf	0	0	616	GasA	Gd	Y
## 698	ALQ	551	219	980	GasA	Fa	Y
## 700	Unf	0	1375	1391	GasA	Ex	Y
## 702	Unf	0	1164	1164	GasA	TA	Y
## 705	Unf	0	761	1473	GasA	Ex	Y
## 706	No basement	0	0	0	GasA	Fa	N
## 710	Unf	0	876	876	GasA	TA	Y
## 711	Unf	0	270	270	GasA	Gd	Y
## 712	Unf	0	859	859	GasA	Gd	Y
## 714	Unf	0	171	960	GasW	TA	N
## 715	Unf	0	192	725	GasA	Ex	Y
## 717	Unf	0	718	718	GasA	Ex	Y
## 722	Unf	0	186	848	GasA	Ex	Y
## 723	Unf	0	673	864	GasA	Ex	Y
## 724	Unf	0	941	941	GasA	Ex	Y
## 726	BLQ	239	250	864	GasA	TA	Y
## 728	Unf	0	508	1232	GasA	Ex	Y
## 729	Unf	0	1584	1584	GasA	TA	Y
## 730	Unf	0	628	780	GasA	TA	Y
## 735	Unf	0	948	948	GasA	TA	Y
## 737	No basement	0	0	0	GasA	Gd	N
## 739	Unf	0	0	1200	GasA	TA	Y
## 740	Unf	0	864	864	GasA	Ex	Y
## 741	Unf	0	264	264	GasA	Ex	Y
## 742	Unf	0	80	912	GasA	Gd	Y
## 743	Unf	0	1349	1349	GasA	Ex	Y
## 750	No basement	0	0	0	Wall	TA	N
## 751	Unf	0	576	576	GasA	Gd	Y
## 752	Unf	0	660	660	GasA	Ex	Y
## 753	Unf	0	279	1479	GasA	Ex	Y
## 755	LwQ	472	115	1026	GasA	Gd	Y
## 756	Unf	0	348	729	GasA	Gd	Y
## 757	Unf	0	846	866	GasA	Ex	Y
## 759	Unf	0	195	744	GasA	Gd	Y
## 761	Unf	0	252	864	GasA	Ex	Y
## 762	Unf	0	740	1145	GasA	TA	Y
## 763	Unf	0	732	756	GasA	Ex	Y
## 768	Unf	0	323	983	GasA	Ex	Y
## 771	Unf	0	173	858	GasA	TA	Y
## 772	Unf	0	0	836	GasA	TA	Y
## 774	Unf	0	456	912	GasA	Ex	Y
## 776	Unf	0	338	1204	GasA	Ex	Y
## 777	Unf	0	1594	1614	GasA	Ex	Y
## 780	Unf	0	0	975	GasA	TA	Y
## 782	Unf	0	374	761	GasA	Ex	Y
## 783	Unf	0	1413	1413	GasA	Ex	Y
## 787	Unf	0	0	686	GasA	TA	Y
## 788	Unf	0	300	956	GasA	Ex	Y
## 789	Unf	0	901	901	GasA	Ex	Y
## 790	Unf	0	264	832	GasA	Gd	Y
## 794	Unf	0	1496	1496	GasA	Ex	Y
## 798	Unf	0	203	773	GasA	Gd	Y
## 801	Unf	0	154	616	GasA	Gd	Y
## 802	Unf	0	999	1196	GasA	Ex	Y

## 805	Unf	0	124	936	GasA	TA	Y
## 806	Unf	0	1417	1417	GasA	Ex	Y
## 807	Rec	480	100	980	GasA	Gd	Y
## 810	Unf	0	849	849	GasA	TA	N
## 813	Unf	0	540	540	GasA	TA	N
## 814	Unf	0	834	1442	GasA	Gd	Y
## 815	Unf	0	686	686	GasW	Gd	Y
## 816	Unf	0	1649	1649	GasA	Ex	Y
## 819	Unf	0	506	1010	GasA	Gd	Y
## 821	Unf	0	798	798	GasA	Ex	Y
## 822	Unf	0	936	936	GasA	TA	N
## 827	Unf	0	0	784	GasA	Gd	Y
## 829	ALQ	764	0	1013	GasA	TA	Y
## 830	Unf	0	600	600	GasA	Ex	Y
## 832	Unf	0	600	600	GasA	Ex	Y
## 834	BLQ	345	975	1516	GasA	TA	Y
## 835	Unf	0	572	1144	GasA	Gd	Y
## 836	Unf	0	625	1067	GasA	TA	Y
## 837	Unf	0	1221	1559	GasA	Gd	Y
## 838	Unf	0	153	483	GasA	TA	Y
## 839	Unf	0	1099	1099	GasA	Ex	Y
## 840	Unf	0	416	768	GasA	Ex	Y
## 841	Unf	0	516	672	GasA	TA	N
## 843	ALQ	539	276	1127	GasA	TA	Y
## 844	Unf	0	1800	1800	GasA	Ex	N
## 851	Unf	0	189	848	GasA	Ex	Y
## 856	Unf	0	381	1040	GasA	Ex	Y
## 857	LwQ	435	0	940	GasA	TA	Y
## 862	Unf	0	198	1039	GasA	Ex	Y
## 863	Unf	0	702	1040	GasA	TA	Y
## 864	Unf	0	0	1148	GasA	TA	Y
## 865	Unf	0	1372	1372	GasA	Ex	Y
## 866	Unf	0	174	1002	GasA	TA	Y
## 868	Unf	0	108	1040	GasA	TA	Y
## 871	Unf	0	894	894	GasA	Gd	N
## 872	Unf	0	299	804	GasA	Ex	Y
## 873	Unf	0	105	105	GasA	Gd	Y
## 875	Unf	0	676	676	GasA	Ex	Y
## 877	Unf	0	431	1064	GasA	Gd	Y
## 879	Unf	0	210	1109	GasA	TA	Y
## 880	Unf	0	218	864	GasA	Ex	Y
## 881	Unf	0	110	1090	GasA	Gd	Y
## 884	Unf	0	795	795	GasA	TA	N
## 885	Unf	0	460	892	GasA	TA	Y
## 887	Unf	0	1098	1626	GasA	Ex	Y
## 888	Unf	0	816	816	GasA	TA	Y
## 893	Unf	0	396	1059	GasA	TA	Y
## 895	No basement	0	0	0	GasA	TA	Y
## 897	Unf	0	666	951	GasA	Ex	N
## 898	No basement	0	0	0	GasA	TA	Y
## 901	Unf	0	536	858	GasA	TA	Y
## 902	Unf	0	132	992	GasA	TA	Y
## 905	Unf	0	277	876	GasA	TA	Y
## 906	LwQ	290	412	1056	GasA	TA	Y

## 909	ALQ	324	239	864	GasA	TA	Y
## 911	Unf	0	662	1105	GasA	TA	Y
## 912	Unf	0	1072	1268	GasA	TA	Y
## 913	Unf	0	279	768	GasA	TA	N
## 914	Unf	0	717	1001	GasA	TA	N
## 915	Unf	0	318	612	GasA	Ex	Y
## 916	Unf	0	546	546	GasA	Fa	Y
## 917	Unf	0	430	480	GasA	TA	N
## 918	Unf	0	75	1134	GasA	Ex	Y
## 921	Unf	0	114	928	GasA	Ex	Y
## 922	Unf	0	188	1272	GasA	Gd	Y
## 926	LwQ	93	266	1126	GasA	TA	Y
## 931	Unf	0	1450	1466	GasA	Ex	Y
## 932	Rec	466	121	925	GasA	Ex	Y
## 934	Unf	0	1480	1500	GasA	Ex	Y
## 936	Unf	0	600	600	GasA	Gd	Y
## 937	Unf	0	343	1176	GasA	Ex	Y
## 939	Unf	0	927	1391	GasA	Ex	Y
## 941	LwQ	396	396	1728	GasA	TA	Y
## 943	Unf	0	0	1440	GasA	TA	Y
## 944	Unf	0	1632	1632	GasA	TA	Y
## 946	Unf	0	0	1088	GasA	TA	Y
## 951	BLQ	149	317	864	GasA	Gd	Y
## 952	Unf	0	187	828	GasA	Gd	Y
## 953	Unf	0	108	768	GasA	Gd	Y
## 955	Unf	0	0	945	GasA	TA	Y
## 956	Unf	0	495	979	GasA	TA	N
## 958	Unf	0	640	1057	GasA	TA	Y
## 959	Unf	0	638	1337	GasA	Ex	Y
## 960	Unf	0	92	696	GasA	Ex	Y
## 961	Unf	0	162	858	GasA	Gd	Y
## 964	Unf	0	1800	1800	GasA	Ex	Y
## 968	Unf	0	196	1098	GasA	TA	Y
## 969	Unf	0	600	600	Grav	Fa	N
## 970	Unf	0	75	588	GasA	TA	Y
## 971	Unf	0	720	720	GasA	TA	N
## 972	Unf	0	197	764	GasA	Ex	Y
## 974	Unf	0	1428	1428	GasA	Ex	Y
## 975	Unf	0	728	728	GasA	TA	N
## 976	Unf	0	32	673	GasA	Ex	Y
## 977	Unf	0	440	440	GasA	TA	Y
## 978	Unf	0	135	1241	GasA	Ex	Y
## 979	Unf	0	342	894	GasA	Ex	Y
## 980	Unf	0	470	1121	GasA	TA	Y
## 981	Unf	0	77	944	GasA	Gd	Y
## 985	No basement	0	0	0	GasA	TA	Y
## 986	Unf	0	124	1164	GasW	TA	N
## 987	Unf	0	485	485	GasA	Gd	Y
## 990	Unf	0	770	770	GasA	Ex	Y
## 994	Unf	0	750	750	GasA	Ex	Y
## 996	Unf	0	363	747	GasA	TA	Y
## 997	Unf	0	135	1050	GasA	TA	Y
## 1000	Unf	0	501	1187	GasA	Ex	Y
## 1001	No basement	0	0	0	GasW	Fa	N

## 1002	Unf	0	691	691	GasA	Ex	Y
## 1004	Unf	0	1680	1680	GasA	Fa	Y
## 1006	Unf	0	390	985	GasA	TA	Y
## 1008	LwQ	273	0	546	GasA	TA	Y
## 1010	Unf	0	1008	1008	GasA	Ex	Y
## 1012	No basement	0	0	0	GasA	TA	N
## 1014	Rec	465	310	1022	GasW	TA	N
## 1016	Unf	0	167	810	GasA	Ex	Y
## 1021	Unf	0	108	1132	GasA	Ex	Y
## 1022	Unf	0	515	1199	GasA	Ex	Y
## 1023	Unf	0	588	912	GasA	Gd	Y
## 1026	Rec	468	276	882	GasA	TA	Y
## 1030	Unf	0	355	672	GasA	Gd	Y
## 1031	Unf	0	686	686	GasA	Gd	Y
## 1034	Unf	0	668	1654	GasA	Ex	Y
## 1036	No basement	0	0	0	GasA	Ex	N
## 1040	Unf	0	121	630	GasA	TA	Y
## 1042	Rec	64	336	800	GasA	Gd	Y
## 1048	Unf	0	304	990	GasA	Ex	Y
## 1050	No basement	0	0	0	GasA	Ex	Y
## 1051	Unf	0	1302	1302	GasA	Ex	Y
## 1061	Unf	0	722	1338	GasA	Ex	Y
## 1062	Unf	0	894	894	GasA	TA	Y
## 1063	Unf	0	662	662	GasA	TA	N
## 1066	Unf	0	105	1306	GasA	Ex	Y
## 1068	LwQ	106	0	780	GasA	TA	Y
## 1070	Unf	0	625	845	GasA	TA	Y
## 1071	Unf	0	462	1048	GasA	TA	Y
## 1072	Unf	0	429	727	GasA	Ex	Y
## 1074	Unf	0	155	690	GasA	TA	Y
## 1075	Unf	0	1240	1240	GasA	Ex	Y
## 1078	Rec	791	230	1096	GasA	Ex	Y
## 1080	Unf	0	495	990	GasA	Gd	Y
## 1081	Unf	0	602	1258	GasA	Ex	Y
## 1082	Unf	0	216	1040	GasA	Fa	Y
## 1086	Unf	0	189	936	GasA	Ex	Y
## 1087	Unf	0	212	546	GasA	TA	Y
## 1089	Unf	0	970	970	GasA	Ex	Y
## 1091	No basement	0	0	0	Wall	Fa	N
## 1092	Unf	0	90	600	GasA	Ex	Y
## 1094	Unf	0	203	864	GasA	Gd	Y
## 1095	Rec	240	448	936	GasA	Ex	Y
## 1097	Unf	0	684	684	GasA	TA	Y
## 1098	Unf	0	1074	1074	GasA	Ex	Y
## 1099	Unf	0	0	672	GasA	TA	Y
## 1101	Unf	0	0	290	GasA	TA	N
## 1102	LwQ	287	251	950	GasA	TA	Y
## 1103	Unf	0	422	1010	GasA	Ex	Y
## 1105	Unf	0	630	630	GasA	TA	Y
## 1113	Unf	0	108	816	GasA	TA	Y
## 1114	Unf	0	365	1008	GasA	Gd	Y
## 1115	Unf	0	418	833	GasA	Ex	Y
## 1118	Unf	0	192	894	GasA	Ex	Y
## 1119	Unf	0	533	533	GasA	TA	Y

## 1120	Unf	0	671	1040	GasA	TA	Y
## 1122	Unf	0	1528	1552	GasA	Ex	Y
## 1123	Unf	0	672	672	GasA	Ex	Y
## 1124	Unf	0	698	698	GasA	Ex	Y
## 1130	Unf	0	0	936	GasA	TA	Y
## 1132	Unf	0	762	974	GasA	TA	Y
## 1133	Unf	0	1008	1008	GasW	TA	Y
## 1137	Unf	0	752	1032	GasA	TA	Y
## 1138	Unf	0	780	780	GasA	Gd	N
## 1141	Unf	0	100	952	GasA	TA	Y
## 1144	Unf	0	718	1006	GasA	TA	Y
## 1145	Unf	0	324	672	Grav	Fa	N
## 1150	Unf	0	26	650	GasA	Ex	Y
## 1154	Unf	0	278	816	GasA	Ex	Y
## 1159	Unf	0	1580	1580	GasA	Ex	Y
## 1164	Unf	0	0	1198	GasA	TA	Y
## 1166	Unf	0	1502	1502	GasA	Ex	Y
## 1167	Unf	0	1694	1694	GasA	Ex	Y
## 1173	Unf	0	625	625	GasA	Ex	Y
## 1177	Unf	0	218	876	GasA	TA	Y
## 1178	Unf	0	350	818	GasA	TA	Y
## 1181	Unf	0	0	1216	GasA	Ex	Y
## 1186	Unf	0	392	784	GasA	Gd	Y
## 1187	Unf	0	538	978	GasA	TA	Y
## 1189	Unf	0	831	831	GasA	Ex	Y
## 1192	Unf	0	776	776	GasA	Ex	Y
## 1193	Unf	0	702	702	GasA	Gd	Y
## 1194	Unf	0	341	1224	GasA	Ex	Y
## 1195	Unf	0	292	663	GasA	TA	Y
## 1196	Unf	0	728	728	GasA	Ex	Y
## 1199	Unf	0	1212	1212	GasA	Ex	Y
## 1201	Unf	0	864	864	GasA	Gd	Y
## 1202	Unf	0	866	866	GasA	Ex	Y
## 1205	Unf	0	268	1056	GasA	Ex	Y
## 1207	Unf	0	0	1056	GasA	TA	Y
## 1208	Unf	0	1342	1682	GasA	Ex	Y
## 1209	BLQ	108	319	931	GasA	TA	Y
## 1212	Unf	0	132	559	GasA	Gd	Y
## 1213	Unf	0	328	672	GasA	TA	Y
## 1214	Unf	0	0	648	GasA	Ex	Y
## 1215	Unf	0	141	925	GasA	TA	Y
## 1216	LwQ	374	340	894	GasA	TA	Y
## 1217	No basement	0	0	0	GasA	TA	Y
## 1218	Unf	0	364	1300	GasA	Ex	Y
## 1219	No basement	0	0	0	GasA	Gd	N
## 1220	Unf	0	672	672	GasA	TA	Y
## 1221	LwQ	600	0	912	GasA	TA	Y
## 1224	Unf	0	1380	2136	GasA	TA	N
## 1226	Unf	0	81	588	GasA	Ex	Y
## 1228	Unf	0	317	912	GasA	Ex	Y
## 1230	Unf	0	409	1075	GasA	Gd	Y
## 1232	Unf	0	303	1106	GasA	TA	Y
## 1233	No basement	0	0	0	GasA	TA	Y
## 1234	Unf	0	188	1188	GasA	Fa	Y

## 1235	Unf	0	940	940	GasA	TA	N
## 1236	Unf	0	747	747	GasA	Gd	Y
## 1237	Unf	0	764	764	GasA	Ex	Y
## 1239	Unf	0	1141	1141	GasA	Ex	Y
## 1241	Unf	0	334	884	GasA	Ex	Y
## 1242	Unf	0	1689	1689	GasA	Ex	Y
## 1247	Unf	0	756	756	GasA	Ex	Y
## 1248	Unf	0	473	1012	GasA	TA	Y
## 1250	Rec	96	246	876	GasA	TA	Y
## 1253	Unf	0	354	864	GasA	TA	Y
## 1258	Unf	0	864	864	GasA	Ex	Y
## 1259	Unf	0	201	856	GasA	Ex	Y
## 1260	LwQ	438	14	1054	GasA	Gd	Y
## 1262	Unf	0	546	1050	GasA	Gd	Y
## 1265	Unf	0	1139	1405	GasA	Ex	Y
## 1266	Unf	0	241	691	GasA	Ex	Y
## 1270	Unf	0	414	874	GasW	TA	Y
## 1273	LwQ	375	0	935	GasA	TA	Y
## 1276	Unf	0	708	928	GasA	Gd	Y
## 1280	Unf	0	698	698	GasA	TA	Y
## 1281	Unf	0	785	1573	GasA	Ex	Y
## 1283	Rec	144	364	1040	GasA	TA	Y
## 1284	Unf	0	912	912	GasA	TA	Y
## 1288	Unf	0	812	1624	GasA	Fa	Y
## 1292	Unf	0	399	630	GasA	TA	Y
## 1293	Unf	0	994	994	GasA	TA	N
## 1295	Unf	0	697	864	GasA	TA	Y
## 1296	Unf	0	36	1052	GasA	Gd	Y
## 1297	Unf	0	344	1120	GasA	Gd	Y
## 1298	Unf	0	0	547	GasA	Gd	Y
## 1300	Rec	906	0	1246	GasA	Ex	Y
## 1304	Unf	0	1616	1616	GasA	Ex	Y
## 1305	Unf	0	976	976	GasA	Ex	Y
## 1308	Unf	0	244	990	GasA	Ex	Y
## 1309	ALQ	608	172	924	GasA	Ex	Y
## 1310	Unf	0	78	1278	GasA	Gd	Y
## 1312	Unf	0	349	1274	GasA	Ex	Y
## 1320	Unf	0	372	864	GasA	Ex	Y
## 1322	No basement	0	0	0	Floor	TA	N
## 1324	Unf	0	140	420	GasA	Gd	Y
## 1326	Unf	0	796	796	GasA	Fa	N
## 1327	Unf	0	0	544	GasA	Ex	Y
## 1332	Unf	0	428	911	GasA	Gd	Y
## 1334	Unf	0	803	803	GasA	Ex	Y
## 1335	Unf	0	0	765	GasA	TA	Y
## 1337	Unf	0	1656	1656	GasA	TA	Y
## 1338	Unf	0	693	693	Grav	Fa	N
## 1339	Unf	0	216	916	GasA	Ex	Y
## 1340	Unf	0	504	864	GasA	Ex	Y
## 1341	Unf	0	858	858	GasA	TA	Y
## 1342	Unf	0	300	1114	GasA	Ex	Y
## 1346	Unf	0	710	960	GasA	Gd	Y
## 1350	Unf	0	425	684	OthW	Fa	N
## 1351	Unf	0	748	1248	GasA	TA	Y

## 1353	Unf	0	698	698	GasA	TA	Y
## 1357	Unf	0	524	864	GasA	TA	Y
## 1359	Unf	0	378	756	GasA	Ex	Y
## 1361	Unf	0	612	612	GasA	Ex	Y
## 1365	Unf	0	600	600	GasA	Ex	Y
## 1366	Unf	0	281	814	GasA	Ex	Y
## 1367	Unf	0	240	873	GasA	Ex	Y
## 1369	Unf	0	163	848	GasA	Ex	Y
## 1371	Rec	105	420	840	GasA	Ex	Y
## 1377	Unf	0	384	768	GasA	TA	N
## 1378	BLQ	420	156	984	GasA	Ex	Y
## 1379	Unf	0	174	483	GasA	TA	Y
## 1380	Unf	0	384	384	GasA	Gd	Y
## 1381	Unf	0	661	864	GasA	TA	N
## 1383	Unf	0	596	596	GasA	Ex	Y
## 1384	Unf	0	816	816	GasA	Ex	Y
## 1385	Unf	0	356	560	GasA	TA	Y
## 1386	Unf	0	61	796	GasA	Gd	Y
## 1391	Unf	0	125	1525	GasA	Ex	Y
## 1392	Unf	0	1584	1584	GasA	TA	Y
## 1398	Unf	0	939	939	GasA	Ex	Y
## 1399	BLQ	352	676	1208	GasA	Gd	Y
## 1404	Unf	0	556	1485	GasA	Ex	Y
## 1405	Unf	0	672	672	GasA	TA	Y
## 1407	Unf	0	112	768	GasA	TA	Y
## 1408	Unf	0	208	833	GasA	Ex	Y
## 1409	Unf	0	622	622	GasA	Gd	Y
## 1411	Unf	0	278	944	GasA	Ex	Y
## 1412	Unf	0	736	856	GasA	Ex	Y
## 1413	No basement	0	0	0	Wall	Fa	N
## 1417	Unf	0	777	777	GasA	Gd	Y
## 1419	Rec	872	247	1144	GasA	TA	Y
## 1423	Unf	0	162	848	GasA	Ex	Y
## 1426	Unf	0	1252	1252	GasA	Ex	Y
## 1432	Unf	0	0	958	GasA	TA	Y
## 1433	Unf	0	656	656	GasA	TA	Y
## 1437	Unf	0	248	864	GasA	TA	Y
## 1439	Unf	0	312	912	GasA	TA	Y
## 1445	Unf	0	1422	1422	GasA	Ex	Y
## 1446	Rec	627	0	814	GasA	Gd	Y
## 1447	Unf	0	595	1188	GasA	TA	Y
## 1449	Unf	0	560	560	GasA	Gd	N
## 1450	Unf	0	77	630	GasA	Ex	Y
## 1451	Unf	0	896	896	GasA	TA	Y
## 1453	Unf	0	0	547	GasA	Gd	Y
## 1454	Unf	0	1140	1140	GasA	Ex	Y
## 1455	Unf	0	811	1221	GasA	Ex	Y
## 1459	Rec	1029	0	1078	GasA	Gd	Y
## 1460	LwQ	290	136	1256	GasA	Gd	Y
##	Electrical	X1stFlrSF	X2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	
## 1	SBrkr	856	854	0	1710	1	
## 6	SBrkr	796	566	0	1362	1	
## 11	SBrkr	1040	0	0	1040	1	
## 13	SBrkr	912	0	0	912	1	



## 16	FuseA	854	0	0	854	0
## 18	SBrkr	1296	0	0	1296	0
## 19	SBrkr	1114	0	0	1114	1
## 20	SBrkr	1339	0	0	1339	0
## 27	SBrkr	900	0	0	900	0
## 30	SBrkr	520	0	0	520	0
## 31	SBrkr	649	668	0	1317	0
## 32	SBrkr	1228	0	0	1228	0
## 33	SBrkr	1234	0	0	1234	0
## 37	SBrkr	1097	0	0	1097	0
## 39	SBrkr	1057	0	0	1057	1
## 40	FuseP	1152	0	0	1152	0
## 43	SBrkr	884	0	0	884	1
## 44	SBrkr	938	0	0	938	1
## 45	FuseA	1150	0	0	1150	1
## 48	SBrkr	1656	0	0	1656	0
## 49	SBrkr	736	716	0	1452	0
## 50	SBrkr	955	0	0	955	1
## 51	SBrkr	794	676	0	1470	0
## 53	SBrkr	816	0	0	816	1
## 57	SBrkr	983	756	0	1739	1
## 58	SBrkr	860	860	0	1720	0
## 60	SBrkr	780	0	0	780	0
## 61	SBrkr	1158	0	0	1158	1
## 62	SBrkr	581	530	0	1111	0
## 64	SBrkr	902	808	0	1710	0
## 65	SBrkr	1057	977	0	2034	1
## 68	SBrkr	1479	0	0	1479	1
## 69	SBrkr	747	0	0	747	0
## 72	SBrkr	845	0	0	845	1
## 74	SBrkr	1086	0	0	1086	1
## 75	SBrkr	840	765	0	1605	0
## 76	SBrkr	526	462	0	988	1
## 77	FuseA	952	0	0	952	0
## 78	SBrkr	1072	213	0	1285	1
## 79	SBrkr	1768	0	0	1768	0
## 80	SBrkr	682	548	0	1230	0
## 82	SBrkr	1337	0	0	1337	1
## 84	SBrkr	1065	0	0	1065	0
## 88	SBrkr	612	612	0	1224	0
## 89	SBrkr	1013	0	513	1526	0
## 90	SBrkr	990	0	0	990	1
## 91	FuseA	1040	0	0	1040	0
## 92	SBrkr	1235	0	0	1235	0
## 93	SBrkr	964	0	0	964	1
## 95	SBrkr	905	881	0	1786	1
## 97	SBrkr	1588	0	0	1588	0
## 98	FuseF	960	0	0	960	1
## 99	SBrkr	835	0	0	835	0
## 100	SBrkr	1225	0	0	1225	1
## 103	SBrkr	1535	0	0	1535	0
## 104	SBrkr	1226	0	0	1226	0
## 107	SBrkr	1047	0	0	1047	0
## 108	SBrkr	789	0	0	789	0

## 109	FuseF	997	520	0	1517	0
## 111	SBrkr	1216	639	0	1855	0
## 118	SBrkr	1125	0	0	1125	0
## 122	SBrkr	772	351	0	1123	0
## 123	SBrkr	1080	0	0	1080	0
## 124	SBrkr	1199	0	0	1199	0
## 126	SBrkr	520	0	234	754	1
## 130	FuseA	1053	0	0	1053	0
## 133	SBrkr	1327	0	0	1327	1
## 134	SBrkr	1296	0	0	1296	1
## 138	SBrkr	1959	0	0	1959	0
## 140	SBrkr	928	836	0	1764	1
## 142	SBrkr	1734	0	0	1734	1
## 143	SBrkr	910	475	0	1385	0
## 144	SBrkr	1501	0	0	1501	1
## 145	SBrkr	1728	0	0	1728	1
## 146	SBrkr	970	739	0	1709	0
## 147	FuseA	875	0	0	875	1
## 149	SBrkr	1080	0	0	1080	1
## 150	FuseA	896	448	0	1344	0
## 151	SBrkr	969	0	0	969	0
## 155	FuseA	1200	0	0	1200	0
## 156	FuseF	572	524	0	1096	0
## 157	FuseF	1040	0	0	1040	0
## 161	SBrkr	1232	0	0	1232	0
## 164	SBrkr	882	0	0	882	0
## 165	FuseA	1149	467	0	1616	0
## 166	SBrkr	808	547	0	1355	1
## 171	SBrkr	854	0	528	1382	0
## 180	SBrkr	968	0	0	968	0
## 184	SBrkr	1362	720	0	2082	0
## 185	SBrkr	936	316	0	1252	0
## 187	SBrkr	1217	0	0	1217	1
## 188	SBrkr	808	704	144	1656	0
## 192	SBrkr	725	754	0	1479	1
## 193	SBrkr	1431	0	0	1431	1
## 194	SBrkr	970	739	0	1709	0
## 195	SBrkr	864	0	0	864	0
## 199	SBrkr	929	929	371	2229	0
## 201	SBrkr	1121	0	0	1121	0
## 203	SBrkr	865	445	0	1310	0
## 205	SBrkr	720	564	0	1284	0
## 206	SBrkr	1442	0	0	1442	0
## 210	SBrkr	1092	0	0	1092	1
## 211	FuseA	864	0	0	864	1
## 212	SBrkr	1212	0	0	1212	0
## 214	SBrkr	990	0	0	990	0
## 215	SBrkr	689	703	0	1392	0
## 217	SBrkr	1436	0	0	1436	1
## 218	SBrkr	810	518	0	1328	0
## 220	SBrkr	1248	0	0	1248	0
## 221	SBrkr	1498	0	0	1498	0
## 224	SBrkr	864	0	0	864	0
## 226	SBrkr	630	672	0	1302	0

## 228	SBrkr	483	504	0	987	0
## 231	SBrkr	1194	0	0	1194	1
## 234	SBrkr	894	0	0	894	1
## 236	SBrkr	483	504	0	987	0
## 237	SBrkr	1414	0	0	1414	0
## 238	SBrkr	1014	730	0	1744	0
## 239	SBrkr	1694	0	0	1694	0
## 241	SBrkr	1566	0	0	1566	1
## 242	SBrkr	866	0	0	866	0
## 243	FuseA	889	551	0	1440	0
## 247	FuseP	908	1020	0	1928	0
## 249	SBrkr	840	828	0	1668	0
## 251	SBrkr	1306	0	0	1306	0
## 253	SBrkr	798	842	0	1640	0
## 254	SBrkr	1302	0	0	1302	0
## 255	SBrkr	1314	0	0	1314	1
## 257	SBrkr	864	864	0	1728	0
## 260	FuseA	882	0	0	882	0
## 264	SBrkr	926	0	390	1316	1
## 265	FuseP	764	0	0	764	0
## 275	SBrkr	816	0	0	816	0
## 276	SBrkr	952	596	0	1548	0
## 277	SBrkr	1560	0	0	1560	0
## 278	SBrkr	864	0	0	864	0
## 282	SBrkr	1262	0	0	1262	0
## 285	SBrkr	1575	0	0	1575	1
## 286	SBrkr	625	625	0	1250	0
## 288	SBrkr	858	0	0	858	0
## 289	SBrkr	900	0	0	900	0
## 290	FuseA	698	698	0	1396	0
## 292	SBrkr	936	780	0	1716	1
## 296	SBrkr	1003	0	0	1003	1
## 297	FuseA	910	648	0	1558	0
## 304	SBrkr	894	0	0	894	1
## 306	SBrkr	2000	0	0	2000	1
## 308	FuseA	1035	371	0	1406	0
## 309	SBrkr	861	0	0	861	0
## 321	SBrkr	1249	1347	0	2596	0
## 324	SBrkr	1163	0	0	1163	1
## 326	FuseF	803	0	0	803	0
## 328	SBrkr	1383	0	0	1383	0
## 329	FuseA	1445	689	0	2134	0
## 330	SBrkr	596	596	0	1192	0
## 331	SBrkr	1728	0	0	1728	0
## 332	SBrkr	1056	0	0	1056	1
## 338	SBrkr	1536	0	0	1536	1
## 339	SBrkr	1621	0	0	1621	1
## 340	FuseA	1215	0	0	1215	0
## 341	SBrkr	993	915	0	1908	0
## 342	SBrkr	841	0	0	841	0
## 343	FuseA	1040	0	0	1040	0
## 345	SBrkr	536	576	0	1112	0
## 347	SBrkr	958	0	0	958	0
## 349	SBrkr	764	862	0	1626	1

## 353	SBrkr	616	495	0	1111	0
## 354	SBrkr	720	0	0	720	0
## 356	SBrkr	1200	0	0	1200	1
## 357	SBrkr	1167	0	0	1167	1
## 359	FuseF	1352	0	0	1352	0
## 362	SBrkr	988	517	0	1505	1
## 364	SBrkr	483	504	0	987	0
## 366	FuseA	672	672	0	1344	0
## 373	SBrkr	752	0	0	752	1
## 374	SBrkr	1319	0	0	1319	1
## 376	FuseA	904	0	0	904	1
## 377	SBrkr	914	0	0	914	0
## 383	SBrkr	939	858	0	1797	0
## 384	FuseA	784	0	0	784	0
## 387	SBrkr	658	526	0	1184	0
## 389	SBrkr	1479	0	0	1479	0
## 391	SBrkr	961	406	0	1367	1
## 393	SBrkr	882	0	0	882	0
## 395	FuseA	735	299	0	1034	0
## 396	SBrkr	1144	0	0	1144	1
## 397	SBrkr	894	0	0	894	0
## 399	Mix	1077	0	0	1077	0
## 400	SBrkr	1112	438	0	1550	1
## 403	SBrkr	672	0	0	672	0
## 407	FuseA	1166	0	473	1639	0
## 408	SBrkr	840	840	0	1680	0
## 411	FuseA	1276	0	0	1276	0
## 412	SBrkr	1056	0	0	1056	1
## 416	SBrkr	1340	0	0	1340	0
## 419	FuseF	756	378	0	1134	1
## 421	SBrkr	1344	0	0	1344	2
## 423	FuseA	988	0	0	988	0
## 428	SBrkr	907	0	0	907	0
## 429	SBrkr	1208	0	0	1208	1
## 431	SBrkr	483	504	0	987	0
## 432	SBrkr	1088	110	0	1198	0
## 433	SBrkr	765	600	0	1365	1
## 435	SBrkr	630	0	0	630	1
## 437	FuseA	734	384	0	1118	0
## 438	SBrkr	904	0	0	904	0
## 440	SBrkr	684	512	0	1196	0
## 442	FuseF	1440	0	0	1440	0
## 450	SBrkr	679	504	0	1183	0
## 451	FuseA	813	0	0	813	0
## 453	SBrkr	888	868	0	1756	1
## 454	SBrkr	786	804	0	1590	0
## 455	SBrkr	1728	0	0	1728	2
## 457	SBrkr	624	720	0	1344	0
## 461	SBrkr	832	1103	0	1935	1
## 462	SBrkr	575	560	0	1135	1
## 465	SBrkr	1040	0	0	1040	0
## 470	SBrkr	832	878	0	1710	0
## 471	SBrkr	1502	0	0	1502	1
## 473	SBrkr	1072	0	0	1072	1

## 475	SBrkr	1652	0	0	1652	1
## 476	SBrkr	970	0	0	970	1
## 480	SBrkr	1131	0	0	1131	0
## 484	SBrkr	1216	0	0	1216	1
## 485	SBrkr	999	0	0	999	1
## 487	SBrkr	1073	0	0	1073	1
## 490	SBrkr	630	0	0	630	1
## 493	SBrkr	728	728	0	1456	0
## 495	FuseA	886	0	0	886	0
## 496	FuseA	720	0	0	720	0
## 498	SBrkr	1133	687	0	1820	1
## 499	SBrkr	899	0	0	899	0
## 500	SBrkr	912	0	0	912	0
## 501	SBrkr	672	546	0	1218	0
## 502	SBrkr	866	902	0	1768	0
## 503	SBrkr	1214	0	0	1214	1
## 506	SBrkr	960	1000	0	1960	0
## 508	SBrkr	1218	0	0	1218	0
## 510	SBrkr	1041	0	0	1041	1
## 513	SBrkr	864	0	0	864	1
## 514	SBrkr	1080	0	0	1080	0
## 515	SBrkr	789	0	0	789	0
## 519	SBrkr	882	914	0	1796	1
## 521	FuseA	694	600	0	1294	0
## 527	SBrkr	928	0	0	928	0
## 529	SBrkr	605	0	0	605	1
## 532	SBrkr	751	611	0	1362	0
## 534	FuseF	334	0	0	334	0
## 536	SBrkr	820	527	0	1347	1
## 537	SBrkr	880	844	0	1724	0
## 538	SBrkr	864	0	0	864	0
## 544	SBrkr	767	0	0	767	1
## 546	SBrkr	1377	806	0	2183	0
## 548	SBrkr	768	0	0	768	1
## 549	SBrkr	825	0	0	825	1
## 551	SBrkr	1069	0	0	1069	0
## 552	FuseA	928	0	0	928	0
## 554	SBrkr	1126	0	0	1126	0
## 558	SBrkr	897	439	0	1336	0
## 566	FuseF	841	806	0	1647	1
## 568	SBrkr	1535	0	0	1535	0
## 571	SBrkr	1728	0	0	1728	0
## 572	SBrkr	864	0	0	864	1
## 573	SBrkr	846	846	0	1692	0
## 575	SBrkr	576	533	0	1109	0
## 576	SBrkr	832	384	0	1216	0
## 579	SBrkr	703	689	0	1392	0
## 580	FuseF	1050	745	0	1795	0
## 583	SBrkr	816	0	0	816	1
## 585	SBrkr	989	584	0	1573	0
## 587	SBrkr	838	0	0	838	1
## 588	SBrkr	860	0	0	860	1
## 590	FuseA	779	0	156	935	0
## 591	SBrkr	770	812	0	1582	0

## 593	SBrkr	816	0	0	816	1
## 594	SBrkr	848	0	0	848	1
## 595	SBrkr	924	0	0	924	0
## 597	FuseA	684	684	0	1368	0
## 604	SBrkr	600	600	0	1200	0
## 607	SBrkr	1040	0	0	1040	1
## 608	SBrkr	1112	896	0	2008	1
## 610	SBrkr	1029	0	0	1029	1
## 614	SBrkr	1120	0	0	1120	0
## 615	SBrkr	630	0	0	630	1
## 616	SBrkr	1054	0	0	1054	1
## 618	SBrkr	832	0	0	832	0
## 621	FuseF	864	0	0	864	1
## 623	SBrkr	980	0	0	980	0
## 626	SBrkr	1116	0	0	1116	0
## 630	SBrkr	1350	0	0	1350	1
## 631	FuseA	1089	661	0	1750	0
## 634	SBrkr	1056	0	0	1056	0
## 635	SBrkr	1056	0	0	1056	2
## 636	FuseA	1440	1440	515	3395	0
## 638	FuseA	811	576	0	1387	0
## 639	FuseA	796	0	0	796	0
## 644	SBrkr	780	840	0	1620	0
## 646	SBrkr	981	0	0	981	1
## 647	SBrkr	1048	0	0	1048	0
## 650	SBrkr	630	0	0	630	1
## 651	SBrkr	822	843	0	1665	0
## 654	SBrkr	756	713	0	1469	0
## 656	SBrkr	525	567	0	1092	0
## 657	SBrkr	1053	0	0	1053	1
## 660	SBrkr	1486	0	0	1486	1
## 664	SBrkr	1181	0	0	1181	1
## 671	SBrkr	738	738	0	1476	1
## 672	SBrkr	697	672	0	1369	1
## 677	SBrkr	1095	679	0	1774	1
## 678	SBrkr	792	0	0	792	0
## 680	SBrkr	988	0	0	988	1
## 682	SBrkr	848	672	0	1520	0
## 685	SBrkr	1195	644	0	1839	0
## 687	SBrkr	874	887	0	1761	0
## 688	SBrkr	551	551	0	1102	0
## 694	SBrkr	1073	0	0	1073	0
## 695	SBrkr	1067	472	0	1539	0
## 697	SBrkr	616	0	0	616	0
## 698	FuseA	1148	0	0	1148	0
## 700	SBrkr	1391	0	0	1391	0
## 702	SBrkr	1164	0	0	1164	0
## 705	SBrkr	1484	0	0	1484	1
## 706	SBrkr	372	720	0	1092	0
## 710	SBrkr	904	0	0	904	0
## 711	SBrkr	729	0	0	729	0
## 712	SBrkr	859	319	0	1178	0
## 714	SBrkr	960	0	0	960	1
## 715	SBrkr	725	754	0	1479	0

## 717	SBrkr	1576	978	0	2554	0
## 722	SBrkr	848	0	0	848	1
## 723	SBrkr	864	0	0	864	0
## 724	SBrkr	997	473	0	1470	0
## 726	SBrkr	864	0	0	864	0
## 728	SBrkr	1232	0	0	1232	1
## 729	SBrkr	1776	0	0	1776	1
## 730	FuseA	848	0	360	1208	0
## 735	SBrkr	948	0	0	948	0
## 737	FuseF	1040	0	0	1040	0
## 739	SBrkr	1200	0	0	1200	3
## 740	SBrkr	864	864	0	1728	0
## 741	SBrkr	768	664	0	1432	0
## 742	SBrkr	912	0	0	912	1
## 743	SBrkr	1349	0	0	1349	0
## 750	FuseF	1088	441	0	1529	0
## 751	SBrkr	792	348	0	1140	0
## 752	SBrkr	660	660	0	1320	0
## 753	SBrkr	1494	0	0	1494	1
## 755	SBrkr	1026	0	0	1026	1
## 756	SBrkr	742	729	0	1471	0
## 757	SBrkr	866	902	0	1768	0
## 759	SBrkr	757	744	0	1501	0
## 761	SBrkr	864	0	0	864	0
## 762	SBrkr	1301	0	0	1301	0
## 763	SBrkr	764	783	0	1547	0
## 768	SBrkr	983	767	0	1750	1
## 771	SBrkr	858	0	0	858	1
## 772	FuseF	1220	0	0	1220	0
## 774	FuseA	912	0	0	912	0
## 776	SBrkr	1204	0	0	1204	1
## 777	SBrkr	1614	0	0	1614	0
## 780	SBrkr	1004	0	0	1004	1
## 782	SBrkr	810	793	0	1603	0
## 783	SBrkr	1430	0	0	1430	0
## 787	SBrkr	966	686	0	1652	1
## 788	SBrkr	956	1128	0	2084	1
## 789	SBrkr	901	0	0	901	0
## 790	SBrkr	976	1111	0	2087	0
## 794	SBrkr	1496	0	0	1496	0
## 798	SBrkr	773	0	0	773	0
## 801	SBrkr	616	1072	0	1688	1
## 802	FuseA	1196	0	0	1196	1
## 805	SBrkr	1128	0	0	1128	0
## 806	SBrkr	1428	0	0	1428	0
## 807	SBrkr	980	0	0	980	0
## 810	FuseA	1075	1063	0	2138	0
## 813	FuseA	1044	0	0	1044	0
## 814	SBrkr	1442	0	0	1442	0
## 815	SBrkr	686	564	0	1250	0
## 816	SBrkr	1661	0	0	1661	0
## 819	SBrkr	1052	0	0	1052	1
## 821	SBrkr	798	842	0	1640	0
## 822	SBrkr	936	0	0	936	0

## 827	SBrkr	784	0	0	784	1
## 829	SBrkr	1160	966	0	2126	0
## 830	SBrkr	520	623	80	1223	0
## 832	SBrkr	520	600	80	1200	0
## 834	SBrkr	1516	0	0	1516	0
## 835	SBrkr	1144	0	0	1144	1
## 836	SBrkr	1067	0	0	1067	0
## 837	SBrkr	1559	0	0	1559	1
## 838	SBrkr	483	504	0	987	1
## 839	SBrkr	1099	0	0	1099	0
## 840	SBrkr	768	432	0	1200	0
## 841	SBrkr	810	672	0	1482	0
## 843	SBrkr	1165	0	0	1165	1
## 844	SBrkr	1800	0	0	1800	0
## 851	SBrkr	848	0	0	848	1
## 856	SBrkr	1040	0	0	1040	1
## 857	SBrkr	1026	0	0	1026	1
## 862	SBrkr	1039	0	0	1039	1
## 863	SBrkr	1097	0	0	1097	0
## 864	SBrkr	1148	0	0	1148	1
## 865	SBrkr	1372	0	0	1372	0
## 866	SBrkr	1002	0	0	1002	1
## 868	SBrkr	1120	0	0	1120	1
## 871	SBrkr	894	0	0	894	0
## 872	SBrkr	804	878	0	1682	0
## 873	SBrkr	910	0	0	910	0
## 875	SBrkr	676	455	0	1131	0
## 877	SBrkr	1040	0	0	1040	1
## 879	SBrkr	1155	0	0	1155	1
## 880	SBrkr	864	0	0	864	1
## 881	SBrkr	1090	0	0	1090	1
## 884	SBrkr	954	795	481	2230	1
## 885	SBrkr	892	0	0	892	0
## 887	SBrkr	1712	0	0	1712	0
## 888	SBrkr	872	521	0	1393	0
## 893	SBrkr	1068	0	0	1068	0
## 895	SBrkr	1535	0	0	1535	0
## 897	SBrkr	951	0	0	951	0
## 898	SBrkr	1120	1120	0	2240	0
## 901	SBrkr	858	0	0	858	0
## 902	SBrkr	1306	0	0	1306	1
## 905	SBrkr	902	0	0	902	0
## 906	SBrkr	1063	0	0	1063	1
## 909	SBrkr	902	0	0	902	1
## 911	FuseA	1105	1169	0	2274	0
## 912	SBrkr	1268	0	0	1268	0
## 913	SBrkr	1015	0	0	1015	0
## 914	FuseA	1001	1001	0	2002	0
## 915	SBrkr	612	612	0	1224	0
## 916	SBrkr	546	546	0	1092	0
## 917	FuseA	480	0	0	480	1
## 918	FuseA	1229	0	0	1229	0
## 921	SBrkr	936	785	0	1721	0
## 922	SBrkr	1272	928	0	2200	2



## 926	SBrkr	1126	0	0	1126	0
## 931	SBrkr	1466	0	0	1466	0
## 932	SBrkr	925	0	0	925	0
## 934	SBrkr	1500	0	0	1500	0
## 936	SBrkr	747	0	0	747	0
## 937	SBrkr	1200	0	0	1200	1
## 939	SBrkr	1391	571	0	1962	0
## 941	SBrkr	1728	0	0	1728	0
## 943	SBrkr	1440	0	0	1440	2
## 944	SBrkr	1632	0	0	1632	0
## 946	SBrkr	1188	561	120	1869	0
## 951	SBrkr	864	0	0	864	1
## 952	SBrkr	965	0	0	965	1
## 953	SBrkr	768	0	0	768	0
## 955	SBrkr	980	0	0	980	0
## 956	FuseF	979	979	0	1958	0
## 958	SBrkr	1057	0	0	1057	0
## 959	SBrkr	1337	0	0	1337	1
## 960	SBrkr	696	720	0	1416	1
## 961	SBrkr	858	0	0	858	1
## 964	SBrkr	1800	0	0	1800	0
## 968	SBrkr	1098	0	0	1098	1
## 969	SBrkr	600	368	0	968	0
## 970	SBrkr	1095	0	0	1095	1
## 971	FuseA	720	472	0	1192	0
## 972	SBrkr	764	862	0	1626	0
## 974	SBrkr	1428	0	0	1428	0
## 975	SBrkr	1136	883	0	2019	0
## 976	SBrkr	673	709	0	1382	1
## 977	FuseA	869	0	0	869	0
## 978	SBrkr	1241	0	0	1241	1
## 979	SBrkr	894	0	0	894	0
## 980	SBrkr	1121	0	0	1121	1
## 981	SBrkr	999	0	0	999	1
## 985	SBrkr	1302	432	0	1734	0
## 986	SBrkr	1164	0	0	1164	1
## 987	SBrkr	1001	634	0	1635	0
## 990	SBrkr	778	798	0	1576	0
## 994	SBrkr	750	750	0	1500	0
## 996	SBrkr	774	456	0	1230	1
## 997	SBrkr	1050	0	0	1050	1
## 1000	SBrkr	1208	0	0	1208	1
## 1001	FuseF	944	0	0	944	0
## 1002	FuseA	691	0	0	691	0
## 1004	SBrkr	1680	0	0	1680	0
## 1006	SBrkr	985	0	0	985	0
## 1008	SBrkr	546	546	0	1092	0
## 1010	SBrkr	1008	0	514	1522	0
## 1012	SBrkr	1664	0	0	1664	0
## 1014	SBrkr	1022	0	0	1022	1
## 1016	SBrkr	810	855	0	1665	1
## 1021	SBrkr	1132	0	0	1132	1
## 1022	SBrkr	1220	0	0	1220	1
## 1023	FuseA	912	336	0	1248	0

## 1026	SBrkr	882	0	0	882	1
## 1030	SBrkr	672	546	0	1218	0
## 1031	SBrkr	948	980	0	1928	0
## 1034	SBrkr	1654	0	0	1654	1
## 1036	SBrkr	845	0	0	845	0
## 1040	SBrkr	630	0	0	630	1
## 1042	SBrkr	800	832	0	1632	0
## 1048	SBrkr	990	0	0	990	0
## 1050	SBrkr	930	0	0	930	0
## 1051	SBrkr	1302	0	0	1302	0
## 1061	SBrkr	1338	0	0	1338	1
## 1062	SBrkr	894	0	0	894	0
## 1063	SBrkr	1422	915	0	2337	0
## 1066	SBrkr	1306	954	0	2260	1
## 1068	SBrkr	798	813	0	1611	1
## 1070	SBrkr	893	0	0	893	0
## 1071	SBrkr	1048	0	0	1048	1
## 1072	SBrkr	829	727	0	1556	0
## 1074	SBrkr	698	728	0	1426	0
## 1075	SBrkr	1240	0	0	1240	0
## 1078	SBrkr	1096	0	0	1096	1
## 1080	SBrkr	990	0	0	990	0
## 1081	SBrkr	1258	0	0	1258	0
## 1082	SBrkr	1040	0	0	1040	1
## 1086	SBrkr	996	0	0	996	1
## 1087	SBrkr	546	546	0	1092	0
## 1089	SBrkr	970	739	0	1709	0
## 1091	FuseA	1040	0	0	1040	0
## 1092	SBrkr	624	628	0	1252	1
## 1094	SBrkr	1200	0	0	1200	1
## 1095	SBrkr	936	0	0	936	1
## 1097	SBrkr	773	582	0	1355	0
## 1098	SBrkr	1088	0	0	1088	0
## 1099	SBrkr	757	567	0	1324	0
## 1101	FuseF	438	0	0	438	0
## 1102	SBrkr	950	0	0	950	0
## 1103	SBrkr	1134	0	0	1134	0
## 1105	SBrkr	630	672	0	1302	0
## 1113	FuseA	816	0	0	816	1
## 1114	SBrkr	1008	0	0	1008	1
## 1115	SBrkr	833	0	0	833	0
## 1118	SBrkr	894	0	0	894	1
## 1119	SBrkr	1021	580	0	1601	0
## 1120	FuseA	1040	0	0	1040	0
## 1122	SBrkr	1552	0	0	1552	0
## 1123	FuseA	960	0	0	960	0
## 1124	SBrkr	698	0	0	698	0
## 1130	SBrkr	936	0	0	936	1
## 1132	SBrkr	974	0	0	974	0
## 1133	SBrkr	1178	1032	0	2210	0
## 1137	FuseA	1032	220	0	1252	0
## 1138	SBrkr	780	240	0	1020	0
## 1141	SBrkr	952	0	0	952	1
## 1144	SBrkr	1006	0	0	1006	0

## 1145	FuseA	672	252	0	924	1
## 1150	SBrkr	832	650	0	1482	0
## 1154	SBrkr	816	0	0	816	0
## 1159	SBrkr	1580	0	0	1580	0
## 1164	SBrkr	1258	0	0	1258	2
## 1166	SBrkr	1502	0	0	1502	0
## 1167	SBrkr	1694	0	0	1694	0
## 1173	SBrkr	625	625	0	1250	0
## 1177	SBrkr	923	0	0	923	1
## 1178	SBrkr	818	406	0	1224	0
## 1181	SBrkr	1298	1216	0	2514	0
## 1186	SBrkr	949	272	0	1221	1
## 1187	SBrkr	1014	685	0	1699	1
## 1189	SBrkr	831	829	0	1660	0
## 1192	SBrkr	764	677	0	1441	0
## 1193	SBrkr	842	630	0	1472	0
## 1194	SBrkr	1224	0	0	1224	1
## 1195	SBrkr	663	689	0	1352	0
## 1196	SBrkr	728	728	0	1456	0
## 1199	SBrkr	1212	0	0	1212	0
## 1201	SBrkr	864	0	0	864	0
## 1202	SBrkr	866	913	0	1779	0
## 1205	SBrkr	1074	0	0	1074	1
## 1207	SBrkr	1056	0	0	1056	1
## 1208	SBrkr	1700	0	0	1700	1
## 1209	SBrkr	1283	0	0	1283	1
## 1212	SBrkr	1080	672	0	1752	0
## 1213	SBrkr	672	0	0	672	1
## 1214	SBrkr	960	0	0	960	1
## 1215	SBrkr	999	0	0	999	1
## 1216	SBrkr	894	0	0	894	0
## 1217	SBrkr	1318	584	0	1902	0
## 1218	SBrkr	1314	0	0	1314	1
## 1219	SBrkr	672	240	0	912	0
## 1220	SBrkr	672	546	0	1218	0
## 1221	SBrkr	912	0	0	912	0
## 1224	FuseA	2136	0	0	2136	0
## 1226	SBrkr	1138	0	0	1138	0
## 1228	SBrkr	912	0	0	912	1
## 1230	SBrkr	1507	0	0	1507	0
## 1232	SBrkr	1190	0	0	1190	1
## 1233	SBrkr	1224	0	0	1224	0
## 1234	SBrkr	1188	0	0	1188	1
## 1235	FuseA	1024	940	0	1964	0
## 1236	FuseF	892	892	0	1784	0
## 1237	SBrkr	764	862	0	1626	0
## 1239	SBrkr	1141	0	0	1141	0
## 1241	SBrkr	884	884	0	1768	1
## 1242	SBrkr	1689	0	0	1689	0
## 1247	SBrkr	756	797	0	1553	0
## 1248	SBrkr	1034	0	0	1034	1
## 1250	SBrkr	988	0	0	988	0
## 1253	SBrkr	874	0	0	874	1
## 1258	SBrkr	864	0	0	864	0

## 1259	SBrkr	1166	0	0	1166	1
## 1260	SBrkr	1054	0	0	1054	1
## 1262	SBrkr	1050	0	0	1050	0
## 1265	SBrkr	1337	0	0	1337	1
## 1266	SBrkr	713	739	0	1452	1
## 1270	FuseA	874	650	0	1524	0
## 1273	SBrkr	935	0	0	935	1
## 1276	FuseA	928	992	0	1920	0
## 1280	FuseA	698	430	0	1128	0
## 1281	SBrkr	1573	0	0	1573	1
## 1283	SBrkr	1040	0	0	1040	0
## 1284	SBrkr	912	912	0	1824	0
## 1288	SBrkr	1582	0	0	1582	0
## 1292	SBrkr	630	672	0	1302	0
## 1293	SBrkr	1378	994	0	2372	0
## 1295	SBrkr	864	0	0	864	1
## 1296	SBrkr	1052	0	0	1052	1
## 1297	SBrkr	1128	0	0	1128	1
## 1298	SBrkr	1072	0	0	1072	1
## 1300	SBrkr	1246	0	0	1246	1
## 1304	SBrkr	1616	0	0	1616	0
## 1305	SBrkr	976	732	0	1708	0
## 1308	SBrkr	990	0	0	990	1
## 1309	SBrkr	1122	0	0	1122	1
## 1310	SBrkr	1294	0	0	1294	1
## 1312	SBrkr	1274	0	0	1274	1
## 1320	SBrkr	948	0	0	948	0
## 1322	SBrkr	720	0	0	720	0
## 1324	SBrkr	708	0	0	708	0
## 1326	SBrkr	796	0	0	796	0
## 1327	SBrkr	774	0	0	774	0
## 1332	SBrkr	954	0	0	954	0
## 1334	SBrkr	803	557	0	1360	0
## 1335	SBrkr	765	600	0	1365	0
## 1337	SBrkr	1656	0	0	1656	0
## 1338	FuseA	693	0	0	693	0
## 1339	SBrkr	920	941	0	1861	1
## 1340	SBrkr	864	0	0	864	0
## 1341	SBrkr	872	0	0	872	0
## 1342	SBrkr	1114	0	0	1114	1
## 1346	FuseA	960	0	0	960	0
## 1350	SBrkr	938	1215	205	2358	0
## 1351	SBrkr	1338	1296	0	2634	1
## 1353	SBrkr	786	390	0	1176	0
## 1357	SBrkr	892	0	0	892	0
## 1359	SBrkr	769	804	0	1573	0
## 1361	SBrkr	990	1611	0	2601	0
## 1365	SBrkr	520	600	80	1200	0
## 1366	SBrkr	814	860	0	1674	1
## 1367	SBrkr	882	908	0	1790	1
## 1369	SBrkr	848	0	0	848	1
## 1371	SBrkr	840	534	0	1374	0
## 1377	SBrkr	790	0	0	790	0
## 1378	SBrkr	984	620	0	1604	0

## 1379	SBrkr	483	504	0	987	0
## 1380	<NA>	754	640	0	1394	0
## 1381	FuseF	864	0	0	864	1
## 1383	SBrkr	998	764	0	1762	1
## 1384	SBrkr	1416	0	0	1416	0
## 1385	SBrkr	698	560	0	1258	0
## 1386	SBrkr	796	358	0	1154	1
## 1391	SBrkr	1525	0	0	1525	1
## 1392	SBrkr	1584	0	0	1584	0
## 1398	SBrkr	939	574	0	1513	0
## 1399	FuseA	1136	768	0	1904	1
## 1404	SBrkr	1464	0	0	1464	1
## 1405	SBrkr	694	520	0	1214	0
## 1407	SBrkr	768	0	0	768	1
## 1408	SBrkr	833	0	0	833	1
## 1409	SBrkr	741	622	0	1363	0
## 1411	SBrkr	944	896	0	1840	1
## 1412	SBrkr	1112	556	0	1668	0
## 1413	FuseF	1040	0	0	1040	0
## 1417	SBrkr	1246	1044	0	2290	0
## 1419	SBrkr	1144	0	0	1144	1
## 1423	SBrkr	848	0	0	848	1
## 1426	SBrkr	1252	0	0	1252	0
## 1432	SBrkr	958	0	0	958	0
## 1433	SBrkr	968	0	0	968	0
## 1437	SBrkr	864	0	0	864	0
## 1439	FuseA	1236	0	0	1236	1
## 1445	SBrkr	1422	0	0	1422	0
## 1446	SBrkr	913	0	0	913	1
## 1447	SBrkr	1188	0	0	1188	0
## 1449	SBrkr	796	550	0	1346	0
## 1450	SBrkr	630	0	0	630	1
## 1451	SBrkr	896	896	0	1792	0
## 1453	SBrkr	1072	0	0	1072	1
## 1454	SBrkr	1140	0	0	1140	0
## 1455	SBrkr	1221	0	0	1221	1
## 1459	FuseA	1078	0	0	1078	1
## 1460	SBrkr	1256	0	0	1256	1
##	BsmtHalfBath	FullBath	HalfBath	BedroomAbvGr	KitchenAbvGr	KitchenQual
## 1	0	2	1	3	1	Gd
## 6	0	1	1	1	1	TA
## 11	0	1	0	3	1	TA
## 13	0	1	0	2	1	TA
## 16	0	1	0	2	1	TA
## 18	0	2	0	2	2	TA
## 19	0	1	1	3	1	Gd
## 20	0	1	0	3	1	TA
## 27	1	1	0	3	1	Gd
## 30	0	1	0	1	1	Fa
## 31	0	1	0	3	1	TA
## 32	0	1	1	3	1	Gd
## 33	0	2	0	3	1	Gd
## 37	0	1	1	3	1	TA
## 39	0	1	0	3	1	Gd

## 40	0	2	0	2	2	Fa
## 43	0	1	0	2	1	Gd
## 44	0	1	0	3	1	TA
## 45	0	1	0	3	1	TA
## 48	0	2	0	3	1	Gd
## 49	0	2	0	2	3	TA
## 50	0	1	0	3	1	TA
## 51	1	2	0	3	1	TA
## 53	0	1	0	2	1	TA
## 57	0	2	1	3	1	Gd
## 58	0	2	1	3	1	Gd
## 60	0	1	0	2	1	TA
## 61	0	1	1	3	1	Gd
## 62	0	1	0	3	1	Fa
## 64	0	2	0	3	1	TA
## 65	0	2	1	3	1	Gd
## 68	0	2	0	3	1	Gd
## 69	0	1	0	2	1	TA
## 72	0	1	0	2	1	TA
## 74	0	1	0	3	1	TA
## 75	0	2	0	3	2	TA
## 76	0	1	0	2	1	TA
## 77	0	1	0	2	1	TA
## 78	0	1	0	2	1	TA
## 79	0	2	0	4	2	TA
## 80	0	1	1	2	1	TA
## 82	0	2	0	2	1	TA
## 84	0	1	1	3	1	TA
## 88	0	2	1	2	1	Gd
## 89	0	1	0	2	1	Fa
## 90	0	1	0	3	1	TA
## 91	0	1	0	2	1	TA
## 92	0	1	0	2	1	TA
## 93	0	1	0	2	1	TA
## 95	0	2	1	3	1	Gd
## 97	0	2	0	3	1	Gd
## 98	0	1	0	3	1	TA
## 99	0	1	0	2	1	TA
## 100	0	1	1	3	1	TA
## 103	0	2	0	4	2	TA
## 104	0	2	0	3	1	Gd
## 107	0	1	0	2	1	TA
## 108	0	1	0	2	1	TA
## 109	0	2	0	3	1	Fa
## 111	0	2	0	4	1	TA
## 118	0	1	1	2	1	TA
## 122	0	1	0	3	1	TA
## 123	0	1	0	3	1	TA
## 124	0	2	0	2	1	Gd
## 126	0	1	0	2	1	TA
## 130	1	1	1	3	1	Ex
## 133	0	1	0	3	1	Gd
## 134	0	2	0	2	1	Gd
## 138	0	3	0	5	2	TA

## 140	0	2	1	3	1	Gd
## 142	0	2	0	3	1	Gd
## 143	0	2	0	4	1	TA
## 144	0	2	0	3	1	Gd
## 145	0	2	0	6	2	TA
## 146	0	2	0	3	1	Gd
## 147	0	1	0	2	1	TA
## 149	0	1	0	3	1	Gd
## 150	0	1	0	3	1	TA
## 151	0	1	1	3	1	TA
## 155	0	1	0	4	1	TA
## 156	0	1	0	2	1	TA
## 157	0	1	0	2	1	TA
## 161	0	2	0	3	1	TA
## 164	0	1	0	1	1	TA
## 165	0	2	0	3	1	Gd
## 166	0	2	0	4	2	TA
## 171	0	1	1	2	1	TA
## 180	0	1	0	2	1	TA
## 184	0	2	1	3	1	Gd
## 185	0	1	0	3	1	TA
## 187	0	2	0	3	1	Gd
## 188	0	2	1	3	1	TA
## 192	0	1	1	4	1	Gd
## 193	0	2	0	3	1	Gd
## 194	0	2	0	3	1	Gd
## 195	0	1	0	3	1	TA
## 199	0	1	0	5	1	TA
## 201	0	2	0	2	1	TA
## 203	0	2	0	2	1	TA
## 205	0	1	1	2	1	TA
## 206	0	2	0	3	1	TA
## 210	0	1	0	3	1	TA
## 211	0	1	0	2	1	TA
## 212	0	2	0	3	1	Gd
## 214	1	1	0	3	1	TA
## 215	0	1	1	3	1	TA
## 217	0	2	0	3	1	Gd
## 218	0	1	0	3	1	TA
## 220	0	2	0	2	1	Gd
## 221	0	2	0	2	1	Gd
## 224	0	1	0	2	1	TA
## 226	0	2	1	3	1	TA
## 228	0	1	1	2	1	TA
## 231	0	1	0	3	1	TA
## 234	0	1	0	3	1	TA
## 236	0	1	1	2	1	TA
## 237	0	2	0	3	1	Gd
## 238	0	2	1	3	1	Gd
## 239	0	2	0	3	1	Gd
## 241	0	2	0	3	1	Gd
## 242	0	1	0	2	1	Gd
## 243	0	1	0	3	1	TA
## 247	0	2	0	4	2	Fa

## 249	0	2	1	3	1	Gd
## 251	0	1	0	3	1	Fa
## 253	0	2	1	3	1	Gd
## 254	1	2	0	3	1	Gd
## 255	0	1	0	3	1	TA
## 257	0	2	1	3	1	Gd
## 260	0	1	0	2	1	TA
## 264	0	1	0	3	1	TA
## 265	0	1	0	2	1	TA
## 275	0	1	0	2	1	TA
## 276	0	2	1	3	1	Ex
## 277	0	2	0	3	1	Gd
## 278	0	1	0	2	1	TA
## 282	0	2	0	2	1	Gd
## 285	0	2	0	2	1	Gd
## 286	0	2	1	2	1	Gd
## 288	0	1	0	3	1	TA
## 289	0	1	0	3	1	TA
## 290	0	1	0	3	1	TA
## 292	0	2	0	6	1	Fa
## 296	0	1	0	3	1	TA
## 297	0	1	1	4	1	TA
## 304	0	1	0	3	1	TA
## 306	0	2	0	3	1	Gd
## 308	0	1	0	3	1	Fa
## 309	0	1	0	1	1	TA
## 321	0	3	1	4	1	Gd
## 324	0	1	0	3	1	TA
## 326	0	1	0	2	1	TA
## 328	0	1	1	3	1	TA
## 329	0	2	0	5	1	Gd
## 330	0	1	0	3	1	TA
## 331	1	2	0	6	2	TA
## 332	0	1	0	3	1	TA
## 338	0	2	0	3	1	Gd
## 339	0	2	0	3	1	Gd
## 340	0	1	0	3	1	TA
## 341	0	2	1	4	1	Gd
## 342	0	1	0	2	1	TA
## 343	0	2	0	2	2	TA
## 345	0	1	1	3	1	TA
## 347	0	1	0	2	1	TA
## 349	0	2	1	2	1	Gd
## 353	1	1	0	3	1	TA
## 354	0	1	0	2	1	TA
## 356	0	2	0	3	1	Gd
## 357	0	2	0	3	1	Gd
## 359	1	1	0	3	1	Gd
## 362	0	1	0	3	1	TA
## 364	0	1	1	2	1	Gd
## 366	0	1	0	3	1	TA
## 373	0	1	0	2	1	TA
## 374	0	1	0	3	1	TA
## 376	0	0	1	1	1	Fa



## 377	0	1	0	2	1	TA
## 383	0	2	1	3	1	Gd
## 384	0	1	0	2	1	TA
## 387	0	1	0	5	1	TA
## 389	0	2	0	3	1	Gd
## 391	0	1	0	4	1	TA
## 393	0	1	0	3	1	TA
## 395	0	1	0	2	1	TA
## 396	0	1	0	3	1	TA
## 397	0	1	0	2	1	TA
## 399	0	1	0	2	1	TA
## 400	0	2	0	2	1	Gd
## 403	0	1	0	2	1	TA
## 407	0	1	0	3	1	TA
## 408	0	2	0	4	1	TA
## 411	0	1	0	3	1	TA
## 412	0	1	0	3	1	TA
## 416	0	2	0	3	1	Gd
## 419	0	1	1	3	1	TA
## 421	0	2	0	2	2	TA
## 423	0	1	0	2	1	TA
## 428	0	1	0	3	1	TA
## 429	0	2	0	2	1	Gd
## 431	0	1	1	2	1	TA
## 432	0	1	0	4	1	TA
## 433	0	1	1	2	1	TA
## 435	0	1	0	1	1	TA
## 437	0	1	0	2	1	TA
## 438	0	1	0	2	1	TA
## 440	0	1	0	3	1	Gd
## 442	0	2	0	4	2	Fa
## 450	0	1	1	2	1	TA
## 451	0	1	0	2	1	Gd
## 453	0	2	1	3	1	TA
## 454	0	2	1	3	1	Gd
## 455	0	2	0	4	2	TA
## 457	0	1	0	4	1	TA
## 461	0	2	1	3	1	TA
## 462	0	1	0	3	1	Gd
## 465	0	2	0	3	1	TA
## 470	0	2	1	3	1	Gd
## 471	0	1	1	1	1	Gd
## 473	0	1	0	2	1	TA
## 475	0	2	0	2	1	Ex
## 476	0	1	0	2	1	TA
## 480	0	1	0	2	1	TA
## 484	0	2	0	2	1	TA
## 485	0	1	0	3	1	Gd
## 487	0	1	1	3	1	TA
## 490	0	1	0	1	1	Gd
## 493	0	2	1	3	1	TA
## 495	0	1	0	2	1	TA
## 496	0	1	0	2	1	TA
## 498	0	2	0	4	1	TA

## 499	0	1	0	3	1	Gd
## 500	1	1	0	2	1	TA
## 501	0	1	1	3	1	TA
## 502	0	2	1	3	1	Gd
## 503	0	1	0	2	1	TA
## 506	0	2	0	4	2	TA
## 508	0	2	0	2	1	Gd
## 510	0	1	0	3	1	TA
## 513	0	1	0	3	1	TA
## 514	0	1	1	3	1	TA
## 515	0	1	0	2	1	TA
## 519	0	2	1	3	1	TA
## 521	0	2	0	3	2	TA
## 527	0	1	0	2	1	TA
## 529	0	1	0	2	1	TA
## 532	0	2	0	3	1	TA
## 534	0	1	0	1	1	Fa
## 536	0	1	0	3	1	TA
## 537	0	2	1	3	1	Gd
## 538	0	1	0	3	1	TA
## 544	0	1	0	1	1	TA
## 546	0	2	1	4	1	Gd
## 548	0	1	0	2	1	TA
## 549	0	1	0	2	1	TA
## 551	0	2	0	2	1	TA
## 552	0	1	0	3	1	TA
## 554	0	2	0	2	1	Gd
## 558	0	1	1	3	1	TA
## 566	0	1	1	4	1	Fa
## 568	0	2	0	3	1	Gd
## 571	0	2	0	6	2	TA
## 572	0	1	0	2	1	Gd
## 573	0	2	1	3	1	Gd
## 575	1	1	0	3	1	TA
## 576	0	1	0	2	1	TA
## 579	0	2	0	2	1	Gd
## 580	0	2	0	4	1	TA
## 583	0	1	0	3	1	TA
## 585	0	1	0	3	1	Gd
## 587	0	1	0	2	1	Fa
## 588	0	1	0	2	1	TA
## 590	0	1	0	2	1	TA
## 591	0	2	1	3	1	Gd
## 593	0	1	0	2	1	TA
## 594	0	1	0	1	1	Gd
## 595	0	1	0	3	1	TA
## 597	0	1	0	3	1	TA
## 604	0	2	1	2	1	Gd
## 607	0	1	0	3	1	Gd
## 608	0	3	0	3	1	Ex
## 610	0	1	0	3	1	TA
## 614	0	1	0	3	1	TA
## 615	0	1	0	1	1	TA
## 616	0	1	0	3	1	Gd

## 618	0	1	0	2	1	Gd
## 621	0	1	0	2	1	TA
## 623	0	1	0	3	1	TA
## 626	0	1	1	3	1	TA
## 630	0	1	1	3	1	TA
## 631	0	1	0	3	1	Ex
## 634	1	1	0	3	1	TA
## 635	0	0	0	0	2	TA
## 636	0	2	0	8	2	Fa
## 638	0	2	0	3	2	Gd
## 639	0	1	0	2	1	TA
## 644	0	2	1	4	1	TA
## 646	0	1	1	3	1	TA
## 647	0	1	0	3	1	TA
## 650	0	1	0	1	1	TA
## 651	0	2	1	3	1	Gd
## 654	0	1	0	3	1	TA
## 656	0	1	1	3	1	TA
## 657	0	1	1	3	1	Gd
## 660	0	1	0	3	1	TA
## 664	0	2	0	3	1	TA
## 671	0	2	1	3	1	Gd
## 672	0	2	0	3	1	TA
## 677	0	2	0	4	2	TA
## 678	0	1	0	2	1	Gd
## 680	0	1	0	3	1	TA
## 682	0	1	0	3	1	TA
## 685	0	2	1	4	1	TA
## 687	0	3	0	3	1	Gd
## 688	0	2	1	2	1	Gd
## 694	0	1	0	2	1	TA
## 695	0	1	1	3	1	TA
## 697	0	1	0	2	1	TA
## 698	1	1	0	2	1	TA
## 700	0	2	0	2	1	Gd
## 702	0	1	1	3	1	TA
## 705	0	2	0	3	1	Gd
## 706	0	2	0	3	2	Fa
## 710	0	1	0	3	1	TA
## 711	0	1	0	2	1	TA
## 712	0	1	0	2	1	TA
## 714	0	1	0	3	1	TA
## 715	0	2	1	3	1	Gd
## 717	0	1	1	3	1	TA
## 722	0	1	0	1	1	Gd
## 723	0	1	0	3	1	TA
## 724	0	2	0	4	1	TA
## 726	0	1	0	3	1	Gd
## 728	0	2	0	2	1	Gd
## 729	0	2	0	4	2	TA
## 730	0	1	0	2	1	TA
## 735	0	1	0	3	1	TA
## 737	0	2	0	2	2	TA
## 739	0	3	0	3	1	TA

## 740	0	2	1	3	1	Gd
## 741	0	2	0	2	1	TA
## 742	1	1	0	3	1	Gd
## 743	0	2	0	3	1	TA
## 750	0	2	0	4	1	TA
## 751	0	1	0	3	1	TA
## 752	0	2	1	3	1	Gd
## 753	0	2	0	3	1	Gd
## 755	0	1	0	3	1	Gd
## 756	0	2	1	3	1	TA
## 757	0	2	1	3	1	Gd
## 759	0	2	1	3	1	TA
## 761	0	1	0	2	1	TA
## 762	0	1	0	2	1	Fa
## 763	0	2	1	3	1	Gd
## 768	0	2	0	4	1	TA
## 771	0	1	0	2	1	TA
## 772	0	1	0	2	1	TA
## 774	0	1	0	2	1	TA
## 776	0	2	0	2	1	TA
## 777	0	2	0	3	1	Gd
## 780	0	1	0	2	1	TA
## 782	0	2	1	3	1	Gd
## 783	0	2	0	3	1	Gd
## 787	0	2	0	4	1	TA
## 788	0	2	1	4	1	Gd
## 789	0	1	0	2	1	TA
## 790	0	2	1	5	1	Gd
## 794	0	2	0	3	1	Gd
## 798	0	1	0	2	1	TA
## 801	0	2	1	4	1	Gd
## 802	0	1	0	2	1	TA
## 805	0	1	0	2	1	TA
## 806	0	2	0	3	1	Ex
## 807	0	2	0	3	1	TA
## 810	0	2	0	2	3	TA
## 813	0	1	0	2	1	Fa
## 814	0	1	1	4	1	TA
## 815	1	1	1	3	1	Fa
## 816	0	2	0	3	1	Gd
## 819	0	1	0	3	1	TA
## 821	0	2	1	3	1	Gd
## 822	0	1	0	2	1	TA
## 827	0	1	0	2	1	Gd
## 829	1	2	1	3	1	TA
## 830	0	2	1	2	1	Gd
## 832	0	2	1	2	1	Gd
## 834	0	1	1	3	1	TA
## 835	0	1	0	3	1	TA
## 836	0	2	0	2	1	Gd
## 837	0	1	0	2	1	TA
## 838	0	1	1	2	1	TA
## 839	0	1	1	3	1	Gd
## 840	0	1	0	3	1	TA

## 841	0	2	0	4	1	Fa
## 843	0	1	1	3	1	TA
## 844	0	2	0	6	2	TA
## 851	0	1	0	1	1	Gd
## 856	0	1	1	3	1	TA
## 857	0	1	0	3	1	TA
## 862	0	1	1	3	1	TA
## 863	0	2	0	3	1	TA
## 864	0	1	0	3	1	TA
## 865	0	2	0	3	1	Gd
## 866	0	1	0	3	1	TA
## 868	0	1	1	3	1	Fa
## 871	0	1	0	2	1	TA
## 872	0	2	1	3	1	Gd
## 873	0	1	0	3	1	Gd
## 875	0	1	1	3	1	TA
## 877	0	1	0	3	1	TA
## 879	0	1	0	3	1	Gd
## 880	0	1	0	3	1	TA
## 881	0	1	1	2	1	TA
## 884	0	1	0	5	1	TA
## 885	0	1	0	3	1	TA
## 887	0	2	0	4	2	TA
## 888	0	1	1	3	1	TA
## 893	1	1	0	3	1	TA
## 895	0	2	0	4	2	TA
## 897	0	1	0	2	1	TA
## 898	0	2	0	6	2	TA
## 901	0	1	0	2	1	TA
## 902	0	1	0	2	1	TA
## 905	0	1	0	3	1	TA
## 906	0	1	0	3	1	TA
## 909	0	1	0	2	1	TA
## 911	0	2	0	5	2	TA
## 912	0	1	1	3	1	Gd
## 913	0	1	0	3	1	TA
## 914	0	2	0	4	2	TA
## 915	0	2	1	2	1	Gd
## 916	0	1	1	3	1	TA
## 917	0	0	0	1	1	TA
## 918	0	1	0	3	1	TA
## 921	1	2	1	3	1	Gd
## 922	0	2	2	4	2	TA
## 926	1	2	0	3	1	Ex
## 931	0	2	0	3	1	Gd
## 932	1	1	0	2	1	TA
## 934	0	2	0	3	1	Gd
## 936	0	1	0	1	1	TA
## 937	0	2	0	2	1	Gd
## 939	0	2	1	3	1	Gd
## 941	0	2	0	4	2	TA
## 943	0	2	0	4	2	TA
## 944	0	2	0	4	2	TA
## 946	0	1	0	2	1	TA

## 951	0	1	0	3	1	Gd
## 952	0	1	0	3	1	TA
## 953	1	1	0	2	1	TA
## 955	2	2	0	4	0	TA
## 956	0	2	0	4	2	TA
## 958	0	1	0	3	1	TA
## 959	0	2	0	3	1	Gd
## 960	0	2	1	3	1	Gd
## 961	0	1	0	2	1	TA
## 964	0	2	0	2	1	Ex
## 968	0	1	0	3	1	TA
## 969	0	1	0	2	1	TA
## 970	0	1	0	2	1	TA
## 971	0	1	1	4	1	TA
## 972	0	2	0	2	1	Gd
## 974	0	2	0	3	1	Gd
## 975	0	1	0	3	1	Gd
## 976	0	2	1	3	1	Gd
## 977	0	1	0	2	1	Fa
## 978	0	1	1	1	1	Gd
## 979	0	1	0	3	1	TA
## 980	0	1	0	3	1	TA
## 981	0	1	0	3	1	Ex
## 985	0	2	0	4	2	Gd
## 986	0	1	0	3	1	TA
## 987	0	1	0	2	1	Gd
## 990	0	2	1	3	1	Gd
## 994	0	2	1	3	1	Gd
## 996	0	1	1	3	1	TA
## 997	0	1	0	3	1	TA
## 1000	0	2	0	2	1	Gd
## 1001	0	1	0	2	1	Fa
## 1002	0	1	0	2	1	Ex
## 1004	0	2	0	4	2	TA
## 1006	0	2	0	3	1	TA
## 1008	0	1	1	3	1	TA
## 1010	0	2	0	4	1	TA
## 1012	0	2	0	4	2	TA
## 1014	0	1	0	2	1	TA
## 1016	0	2	1	3	1	Gd
## 1021	0	1	1	2	1	Gd
## 1022	0	2	0	2	1	Gd
## 1023	0	1	0	2	1	TA
## 1026	0	1	0	3	1	TA
## 1030	1	1	1	3	1	TA
## 1031	0	2	0	5	2	TA
## 1034	0	2	0	3	1	Gd
## 1036	0	1	0	3	1	TA
## 1040	0	1	0	1	1	TA
## 1042	1	1	1	4	1	Gd
## 1048	1	1	0	3	1	TA
## 1050	0	1	0	2	1	Gd
## 1051	0	2	0	3	1	Gd
## 1061	0	2	0	2	1	Gd

## 1062	0	1	0	2	1	TA
## 1063	0	2	0	5	2	TA
## 1066	0	2	1	3	1	Gd
## 1068	0	1	1	4	1	TA
## 1070	1	1	0	2	1	Gd
## 1071	0	1	0	3	1	TA
## 1072	0	1	1	4	1	TA
## 1074	0	1	1	3	1	TA
## 1075	0	2	0	2	1	Gd
## 1078	0	1	0	3	1	TA
## 1080	0	1	0	3	1	TA
## 1081	1	2	0	3	1	Gd
## 1082	0	1	1	3	1	TA
## 1086	0	1	0	2	1	Gd
## 1087	0	1	1	3	1	TA
## 1089	0	2	0	3	1	Gd
## 1091	0	2	0	2	2	TA
## 1092	0	2	1	2	1	Gd
## 1094	0	1	1	1	1	Gd
## 1095	0	1	0	2	1	TA
## 1097	0	1	1	3	1	Gd
## 1098	0	1	1	2	1	Gd
## 1099	0	1	0	3	1	TA
## 1101	0	1	0	1	1	Fa
## 1102	0	1	0	3	1	TA
## 1103	0	1	0	2	1	TA
## 1105	0	2	1	3	1	TA
## 1113	0	1	0	2	1	TA
## 1114	0	1	0	2	1	Gd
## 1115	0	1	0	2	1	Gd
## 1118	0	1	0	3	1	Gd
## 1119	1	1	0	3	1	TA
## 1120	0	1	0	3	1	TA
## 1122	0	2	0	3	1	Gd
## 1123	0	1	0	3	1	TA
## 1124	1	1	0	2	1	TA
## 1130	0	1	0	2	1	TA
## 1132	0	1	0	3	1	TA
## 1133	0	2	0	5	1	Fa
## 1137	0	1	0	3	1	TA
## 1138	0	1	0	2	1	TA
## 1141	0	1	0	2	1	TA
## 1144	0	1	0	3	1	TA
## 1145	0	1	0	2	1	Fa
## 1150	1	1	0	3	1	TA
## 1154	0	1	0	2	1	TA
## 1159	0	2	0	3	1	Gd
## 1164	0	0	2	0	2	TA
## 1166	0	2	0	3	1	Gd
## 1167	0	2	0	3	1	Gd
## 1173	0	2	1	2	1	Gd
## 1177	0	1	0	3	1	TA
## 1178	0	1	0	3	1	TA
## 1181	0	2	1	4	1	TA

## 1186	0	1	0	4	1	TA
## 1187	0	2	0	3	2	TA
## 1189	0	2	1	3	1	Gd
## 1192	0	2	1	2	1	Gd
## 1193	0	1	0	3	1	Gd
## 1194	0	2	0	2	1	TA
## 1195	0	1	1	4	1	TA
## 1196	0	2	1	3	1	Gd
## 1199	0	2	0	3	1	Gd
## 1201	0	1	0	3	1	TA
## 1202	0	2	1	3	1	Gd
## 1205	0	1	1	3	1	TA
## 1207	0	1	0	2	1	TA
## 1208	0	2	0	3	1	Gd
## 1209	0	1	0	3	1	TA
## 1212	0	2	0	4	1	TA
## 1213	0	1	0	2	1	TA
## 1214	1	0	0	0	1	TA
## 1215	0	1	0	3	1	TA
## 1216	0	1	0	3	1	TA
## 1217	0	2	0	4	2	TA
## 1218	0	2	0	3	1	Gd
## 1219	0	1	0	2	1	TA
## 1220	0	1	1	3	1	TA
## 1221	0	1	0	2	1	TA
## 1224	0	2	0	4	1	TA
## 1226	1	1	0	3	1	TA
## 1228	0	1	0	2	1	Gd
## 1230	0	2	0	4	1	TA
## 1232	0	1	0	3	1	TA
## 1233	0	2	0	2	2	TA
## 1234	0	1	0	3	1	TA
## 1235	0	1	1	4	1	TA
## 1236	0	1	1	4	1	TA
## 1237	0	2	1	2	1	Gd
## 1239	0	1	1	3	1	TA
## 1241	0	2	1	3	1	Gd
## 1242	0	2	0	3	1	Gd
## 1247	0	2	1	3	1	Gd
## 1248	0	1	0	3	1	TA
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## 1253	0	1	0	3	1	TA
## 1258	0	1	0	2	1	TA
## 1259	0	2	0	2	1	Gd
## 1260	0	1	1	3	1	TA
## 1262	0	1	0	2	1	TA
## 1265	0	2	0	2	1	Gd
## 1266	0	2	1	3	1	Gd
## 1270	0	1	1	3	1	TA
## 1273	0	1	0	3	1	TA
## 1276	0	2	0	4	2	TA
## 1280	0	1	0	2	1	TA
## 1281	0	2	0	3	1	Gd
## 1283	0	2	0	3	1	Gd



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## 1288	1	2	0	4	1	TA
## 1292	0	2	1	3	1	TA
## 1293	0	2	0	4	2	TA
## 1295	0	1	0	2	1	TA
## 1296	0	1	1	3	1	TA
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## 1300	0	1	1	3	1	Gd
## 1304	0	2	0	3	1	Gd
## 1305	0	2	0	3	1	Gd
## 1308	0	1	0	3	1	TA
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## 1310	0	2	0	3	1	Gd
## 1312	0	2	0	3	1	Gd
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## 1324	0	1	0	2	1	Fa
## 1326	0	1	0	2	1	TA
## 1327	0	1	0	3	1	Gd
## 1332	0	1	0	3	1	TA
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## 1335	0	1	1	3	1	TA
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## 1338	0	1	0	2	1	Fa
## 1339	0	2	1	3	1	Gd
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## 1346	0	1	0	2	1	Fa
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## 1359	0	2	1	3	1	Gd
## 1361	0	3	1	4	1	TA
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## 1366	0	2	1	3	1	Gd
## 1367	0	2	1	3	1	Gd
## 1369	0	1	0	1	1	Gd
## 1371	0	1	0	2	1	TA
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## 1378	0	2	0	3	1	TA
## 1379	0	1	1	2	1	TA
## 1380	0	2	1	3	1	Gd
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## 1384	0	2	0	3	1	Gd
## 1385	0	1	0	2	1	TA
## 1386	0	1	0	3	1	Gd
## 1391	0	2	0	3	1	Gd
## 1392	0	2	0	4	2	TA
## 1398	0	1	1	4	1	TA
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## 1404	0	2	0	3	1	Gd
## 1405	0	1	0	3	1	TA
## 1407	0	1	0	2	1	TA
## 1408	0	1	0	3	1	TA
## 1409	0	1	0	3	1	TA
## 1411	0	2	1	3	1	Gd
## 1412	0	1	1	3	1	TA
## 1413	0	2	0	2	2	TA
## 1417	0	2	0	4	2	TA
## 1419	0	1	1	3	1	TA
## 1423	0	1	0	1	1	Gd
## 1426	0	1	0	3	1	Gd
## 1432	0	2	0	2	1	TA
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## 1437	0	1	0	3	1	TA
## 1439	0	1	0	2	1	TA
## 1445	0	2	0	3	1	Gd
## 1446	0	1	0	3	1	TA
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## 1454	0	1	0	3	1	TA
## 1455	0	2	0	2	1	Gd
## 1459	0	1	0	2	1	Gd
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## 1409	6	Typ	0	<NA>	Detchd	1966
## 1411	6	Typ	0	<NA>	Attchd	2001
## 1412	6	Min2	0	<NA>	Attchd	1950
## 1413	6	Typ	0	<NA>	Detchd	1956
## 1417	11	Typ	0	<NA>	Detchd	1971
## 1419	6	Typ	0	<NA>	Detchd	1962
## 1423	3	Typ	0	<NA>	Attchd	2003

## 1426	7	Typ	0	<NA>	Detchd	1960
## 1432	5	Typ	0	<NA>	Attchd	1976
## 1433	5	Typ	0	<NA>	Detchd	1928
## 1437	5	Typ	0	<NA>	Detchd	1974
## 1439	6	Typ	0	<NA>	Attchd	1957
## 1445	7	Typ	0	<NA>	Attchd	2004
## 1446	6	Typ	0	<NA>	Detchd	1990
## 1447	6	Typ	0	<NA>	Attchd	1962
## 1449	6	Min2	0	<NA>	Detchd	1950
## 1450	3	Typ	0	<NA>	<NA>	NA
## 1451	8	Typ	0	<NA>	<NA>	NA
## 1453	5	Typ	0	<NA>	Basment	2005
## 1454	6	Typ	0	<NA>	<NA>	NA
## 1455	6	Typ	0	<NA>	Attchd	2004
## 1459	5	Typ	0	<NA>	Attchd	1950
## 1460	6	Typ	0	<NA>	Attchd	1965
##	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive
## 1	RFn	2	548	TA	TA	Y
## 6	Unf	2	480	TA	TA	Y
## 11	Unf	1	384	TA	TA	Y
## 13	Unf	1	352	TA	TA	Y
## 16	Unf	2	576	TA	TA	Y
## 18	Unf	2	516	TA	TA	Y
## 19	Unf	2	576	TA	TA	Y
## 20	Unf	1	294	TA	TA	Y
## 27	Unf	2	576	TA	TA	Y
## 30	Unf	1	240	Fa	TA	Y
## 31	Unf	1	250	TA	Fa	N
## 32	Unf	1	271	TA	TA	Y
## 33	RFn	2	484	TA	TA	Y
## 37	Unf	2	672	TA	TA	Y
## 39	Unf	1	246	TA	TA	Y
## 40	<NA>	0	0	<NA>	<NA>	N
## 43	RFn	2	504	TA	Gd	Y
## 44	Unf	1	308	TA	TA	Y
## 45	RFn	1	300	TA	TA	Y
## 48	RFn	3	826	TA	TA	Y
## 49	<NA>	0	0	<NA>	<NA>	N
## 50	Unf	1	386	TA	TA	Y
## 51	Fin	2	388	TA	TA	Y
## 53	Unf	2	516	TA	TA	Y
## 57	Fin	2	480	TA	TA	Y
## 58	RFn	2	565	TA	TA	Y
## 60	Unf	1	352	TA	TA	Y
## 61	Unf	2	576	TA	TA	Y
## 62	Unf	1	288	TA	TA	N
## 64	Unf	2	480	TA	TA	Y
## 65	RFn	2	645	TA	TA	Y
## 68	RFn	2	558	TA	TA	Y
## 69	Unf	1	220	TA	TA	Y
## 72	Unf	2	360	TA	TA	Y
## 74	Unf	2	490	TA	TA	Y
## 75	Unf	1	379	TA	TA	Y
## 76	Unf	1	297	TA	TA	Y

## 77	Unf	1	283	TA	TA	Y
## 78	Unf	1	240	TA	TA	Y
## 79	<NA>	0	0	<NA>	<NA>	Y
## 80	Unf	2	440	TA	TA	Y
## 82	Fin	2	405	TA	TA	Y
## 84	Unf	2	461	TA	TA	Y
## 88	RFn	2	528	TA	TA	Y
## 89	<NA>	0	0	<NA>	<NA>	N
## 90	<NA>	0	0	<NA>	<NA>	Y
## 91	Unf	2	420	TA	TA	Y
## 92	Unf	2	480	TA	TA	Y
## 93	Unf	2	432	TA	TA	Y
## 95	RFn	2	684	TA	TA	Y
## 97	RFn	2	472	TA	TA	Y
## 98	Fin	1	432	TA	TA	P
## 99	Unf	1	366	Fa	TA	Y
## 100	<NA>	0	0	<NA>	<NA>	Y
## 103	Unf	2	410	TA	TA	Y
## 104	RFn	3	740	TA	TA	Y
## 107	Unf	1	273	Fa	Fa	N
## 108	Unf	1	250	TA	TA	Y
## 109	<NA>	0	0	<NA>	<NA>	N
## 111	Unf	1	325	TA	TA	Y
## 118	Unf	2	430	TA	TA	Y
## 122	Unf	1	264	TA	TA	P
## 123	Unf	1	288	TA	TA	Y
## 124	RFn	2	530	TA	TA	Y
## 126	<NA>	0	0	<NA>	<NA>	N
## 130	RFn	2	750	TA	TA	Y
## 133	Unf	2	624	TA	TA	Y
## 134	Fin	2	471	TA	TA	Y
## 138	Unf	3	766	TA	TA	Y
## 140	RFn	2	470	TA	TA	Y
## 142	Fin	2	660	TA	TA	Y
## 143	Unf	2	720	TA	TA	Y
## 144	RFn	2	577	TA	TA	Y
## 145	Unf	2	504	TA	TA	Y
## 146	Unf	2	380	TA	TA	Y
## 147	Unf	1	180	Fa	TA	Y
## 149	<NA>	0	0	<NA>	<NA>	Y
## 150	Unf	1	240	Fa	TA	Y
## 151	Unf	2	440	TA	TA	Y
## 155	Unf	1	312	Fa	Fa	Y
## 156	<NA>	0	0	<NA>	<NA>	N
## 157	Unf	2	625	TA	TA	Y
## 161	Unf	2	516	TA	TA	Y
## 164	<NA>	0	0	<NA>	<NA>	Y
## 165	Unf	1	216	TA	TA	Y
## 166	<NA>	0	0	<NA>	<NA>	Y
## 171	Unf	2	660	TA	TA	Y
## 180	Unf	2	480	Fa	TA	N
## 184	Unf	2	484	TA	TA	N
## 185	Unf	2	576	TA	TA	Y
## 187	Unf	2	497	TA	TA	Y



## 188	Unf	1	180	Fa	Fa	N
## 192	Fin	2	484	TA	TA	Y
## 193	Fin	2	666	TA	TA	Y
## 194	Unf	2	380	TA	TA	Y
## 195	Unf	1	352	TA	TA	Y
## 199	<NA>	0	0	<NA>	<NA>	Y
## 201	RFn	2	440	TA	TA	Y
## 203	Unf	1	398	TA	TA	Y
## 205	Unf	1	240	TA	TA	Y
## 206	RFn	2	500	TA	TA	Y
## 210	RFn	2	504	TA	Gd	Y
## 211	<NA>	0	0	<NA>	<NA>	Y
## 212	RFn	2	460	TA	TA	Y
## 214	Unf	2	576	TA	TA	Y
## 215	Fin	1	299	TA	TA	Y
## 217	Unf	2	484	TA	TA	Y
## 218	Unf	1	210	TA	TA	Y
## 220	Fin	2	438	TA	TA	Y
## 221	RFn	2	675	TA	TA	Y
## 224	Unf	2	576	TA	TA	Y
## 226	Unf	1	280	TA	TA	Y
## 228	Unf	1	280	TA	TA	Y
## 231	RFn	1	312	TA	TA	Y
## 234	Unf	1	308	TA	TA	Y
## 236	Unf	1	264	TA	TA	Y
## 237	RFn	2	494	TA	TA	Y
## 238	RFn	2	457	TA	TA	Y
## 239	Fin	3	818	TA	TA	Y
## 241	RFn	2	750	TA	TA	Y
## 242	<NA>	0	0	<NA>	<NA>	Y
## 243	Unf	1	352	Fa	TA	Y
## 247	Unf	1	440	Po	Po	Y
## 249	RFn	2	500	TA	TA	Y
## 251	<NA>	0	0	<NA>	<NA>	Y
## 253	RFn	2	520	TA	TA	Y
## 254	RFn	1	309	TA	TA	Y
## 255	RFn	1	294	TA	TA	Y
## 257	RFn	2	673	TA	TA	Y
## 260	Unf	1	308	TA	TA	Y
## 264	Unf	2	484	TA	TA	Y
## 265	Unf	2	504	TA	TA	N
## 275	Unf	1	264	TA	TA	Y
## 276	Unf	2	672	TA	TA	Y
## 277	Fin	2	573	TA	TA	Y
## 278	Unf	2	400	TA	TA	Y
## 282	Fin	2	572	TA	TA	Y
## 285	RFn	2	529	TA	TA	Y
## 286	RFn	2	528	TA	TA	Y
## 288	<NA>	0	0	<NA>	<NA>	Y
## 289	Unf	1	280	TA	TA	Y
## 290	Unf	1	384	TA	TA	Y
## 292	<NA>	0	0	<NA>	<NA>	N
## 296	Unf	2	588	TA	TA	Y
## 297	Unf	1	282	TA	TA	Y

## 304	Unf	2	552	TA	TA	Y
## 306	Fin	3	888	TA	TA	Y
## 308	<NA>	0	0	<NA>	<NA>	N
## 309	Unf	2	539	TA	TA	Y
## 321	RFn	3	840	TA	TA	Y
## 324	Unf	1	220	Fa	TA	Y
## 326	Unf	2	360	TA	TA	Y
## 328	RFn	1	292	TA	TA	Y
## 329	Unf	2	441	TA	TA	Y
## 330	Unf	1	189	Fa	Fa	N
## 331	Unf	1	352	TA	TA	Y
## 332	RFn	1	308	TA	TA	Y
## 338	RFn	2	532	TA	TA	Y
## 339	RFn	2	440	TA	TA	Y
## 340	Unf	1	297	TA	TA	Y
## 341	Fin	2	431	TA	TA	Y
## 342	Unf	1	294	TA	TA	N
## 343	Unf	2	400	TA	TA	Y
## 345	Unf	1	336	TA	TA	Y
## 347	RFn	1	301	TA	TA	Y
## 349	RFn	2	474	TA	TA	Y
## 353	Unf	1	200	TA	Fa	Y
## 354	Unf	2	484	TA	TA	Y
## 356	RFn	2	521	TA	TA	Y
## 357	RFn	2	400	TA	TA	Y
## 359	Unf	1	288	TA	TA	Y
## 362	Unf	1	240	TA	TA	N
## 364	Unf	1	264	TA	TA	Y
## 366	Unf	1	468	TA	Fa	Y
## 373	Unf	1	264	TA	TA	Y
## 374	Unf	1	270	TA	TA	Y
## 376	<NA>	0	0	<NA>	<NA>	Y
## 377	Unf	2	576	TA	TA	Y
## 383	RFn	2	639	TA	TA	Y
## 384	Unf	2	360	Fa	Fa	N
## 387	<NA>	0	0	<NA>	<NA>	N
## 389	RFn	2	577	TA	TA	Y
## 391	Unf	1	384	TA	TA	Y
## 393	RFn	1	294	TA	TA	Y
## 395	Unf	1	240	TA	TA	Y
## 396	Unf	1	596	TA	TA	Y
## 397	RFn	2	600	TA	TA	Y
## 399	Unf	1	338	Po	Po	N
## 400	Fin	2	438	TA	TA	Y
## 403	Unf	1	240	TA	TA	N
## 407	Unf	1	240	TA	TA	Y
## 408	Unf	1	308	TA	TA	Y
## 411	Unf	1	350	TA	TA	Y
## 412	Fin	2	572	TA	TA	Y
## 416	Fin	2	396	TA	TA	Y
## 419	Unf	1	240	TA	TA	P
## 421	Fin	4	784	TA	TA	Y
## 423	RFn	2	520	TA	TA	N
## 428	Unf	1	352	TA	TA	Y

## 429	RFn	2	628	TA	TA	Y
## 431	Unf	1	264	TA	TA	Y
## 432	<NA>	0	0	<NA>	<NA>	N
## 433	Unf	2	440	TA	TA	Y
## 435	<NA>	0	0	<NA>	<NA>	Y
## 437	Unf	2	440	TA	TA	Y
## 438	Unf	1	180	TA	TA	Y
## 440	Unf	2	528	TA	TA	Y
## 442	<NA>	0	0	<NA>	<NA>	Y
## 450	Unf	1	308	TA	TA	Y
## 451	Unf	1	270	Fa	Fa	N
## 453	Fin	2	422	TA	TA	Y
## 454	RFn	2	676	TA	TA	Y
## 455	Unf	2	560	TA	TA	Y
## 457	Unf	3	513	Fa	Fa	Y
## 461	Fin	2	552	TA	TA	Y
## 462	RFn	2	576	TA	TA	Y
## 465	<NA>	0	0	<NA>	<NA>	Y
## 470	RFn	2	506	TA	TA	Y
## 471	RFn	2	528	TA	TA	Y
## 473	RFn	2	525	TA	TA	Y
## 475	RFn	2	499	TA	TA	Y
## 476	Unf	2	624	TA	TA	Y
## 480	Unf	2	672	TA	TA	Y
## 484	Unf	2	402	TA	TA	Y
## 485	Unf	1	264	TA	TA	Y
## 487	RFn	2	515	TA	TA	Y
## 490	Unf	1	286	TA	TA	Y
## 493	RFn	2	429	TA	TA	Y
## 495	Unf	1	273	TA	TA	Y
## 496	<NA>	0	0	<NA>	<NA>	N
## 498	Unf	1	240	TA	TA	N
## 499	Fin	1	288	TA	TA	Y
## 500	Fin	1	297	TA	TA	Y
## 501	Unf	1	264	TA	TA	Y
## 502	RFn	2	603	TA	TA	Y
## 503	Unf	2	461	Fa	Fa	Y
## 506	Unf	2	400	TA	TA	N
## 508	Fin	2	676	TA	TA	Y
## 510	RFn	1	270	TA	TA	Y
## 513	Unf	2	624	TA	TA	Y
## 514	Unf	2	484	TA	TA	Y
## 515	Unf	1	200	Po	Po	Y
## 519	RFn	2	546	TA	TA	Y
## 521	<NA>	0	0	<NA>	<NA>	N
## 527	Unf	1	252	TA	TA	Y
## 529	<NA>	0	0	<NA>	<NA>	N
## 532	Fin	2	502	TA	Fa	Y
## 534	<NA>	0	0	<NA>	<NA>	N
## 536	<NA>	0	0	<NA>	<NA>	N
## 537	Fin	2	527	TA	TA	Y
## 538	Unf	2	576	TA	TA	Y
## 544	Fin	1	367	TA	TA	Y
## 546	Unf	3	786	TA	TA	Y

## 548	Unf	2	624	TA	TA	Y
## 549	RFn	2	720	TA	TA	Y
## 551	RFn	2	440	TA	TA	Y
## 552	Fin	1	288	TA	TA	Y
## 554	Fin	2	520	TA	TA	N
## 558	Unf	1	570	TA	TA	Y
## 566	Unf	1	216	TA	TA	Y
## 568	RFn	2	532	TA	TA	Y
## 571	Unf	2	576	TA	TA	Y
## 572	Unf	1	288	TA	TA	Y
## 573	RFn	2	650	TA	TA	Y
## 575	Unf	1	288	TA	TA	Y
## 576	Unf	1	336	TA	TA	Y
## 579	Unf	2	540	TA	TA	Y
## 580	Unf	1	352	Fa	TA	Y
## 583	<NA>	0	0	<NA>	<NA>	Y
## 585	Unf	1	240	TA	TA	Y
## 587	Fin	1	275	TA	TA	N
## 588	Unf	2	528	TA	TA	Y
## 590	Unf	1	308	TA	TA	P
## 591	RFn	2	520	TA	TA	Y
## 593	Fin	2	816	TA	TA	Y
## 594	Fin	2	420	TA	TA	Y
## 595	Unf	1	280	TA	TA	Y
## 597	Unf	1	216	TA	Fa	N
## 604	RFn	2	480	TA	TA	Y
## 607	Unf	2	576	TA	TA	Y
## 608	Unf	1	230	TA	TA	Y
## 610	Unf	1	261	TA	TA	Y
## 614	<NA>	0	0	<NA>	<NA>	Y
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## 616	RFn	2	480	TA	TA	Y
## 618	Unf	2	528	TA	TA	Y
## 621	<NA>	0	0	<NA>	<NA>	N
## 623	Unf	2	484	TA	TA	Y
## 626	Unf	2	440	TA	TA	Y
## 630	RFn	2	520	TA	TA	Y
## 631	Unf	1	240	Fa	Po	N
## 634	Unf	1	260	TA	TA	Y
## 635	Unf	2	576	TA	TA	Y
## 636	<NA>	0	0	<NA>	<NA>	N
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## 639	<NA>	0	0	<NA>	<NA>	P
## 644	Fin	2	462	TA	TA	Y
## 646	Unf	2	576	TA	TA	Y
## 647	Unf	2	420	TA	TA	Y
## 650	<NA>	0	0	<NA>	<NA>	Y
## 651	RFn	2	562	TA	TA	Y
## 654	Unf	1	216	TA	TA	Y
## 656	Unf	1	264	TA	TA	Y
## 657	RFn	1	312	TA	TA	Y
## 660	Fin	2	480	TA	TA	Y
## 664	RFn	2	588	TA	TA	Y
## 671	Fin	2	540	TA	TA	Y

## 672	Unf	1	300	TA	TA	Y
## 677	Unf	3	779	Fa	Fa	N
## 678	Unf	1	240	Fa	Fa	N
## 680	Unf	2	572	TA	TA	Y
## 682	Unf	1	281	TA	TA	Y
## 685	Fin	2	486	TA	TA	Y
## 687	Fin	2	578	TA	TA	Y
## 688	Unf	2	480	TA	TA	Y
## 694	Unf	1	326	TA	TA	Y
## 695	Unf	2	576	TA	TA	Y
## 697	Unf	1	205	TA	TA	Y
## 698	Unf	1	308	TA	TA	Y
## 700	RFn	2	530	TA	TA	Y
## 702	Unf	2	528	TA	TA	Y
## 705	RFn	2	606	TA	TA	Y
## 706	<NA>	0	0	<NA>	<NA>	N
## 710	Unf	1	408	TA	TA	Y
## 711	<NA>	0	0	<NA>	<NA>	N
## 712	RFn	1	384	TA	TA	N
## 714	Unf	2	576	TA	TA	Y
## 715	RFn	2	475	TA	TA	Y
## 717	Unf	2	704	TA	TA	P
## 722	RFn	2	420	TA	TA	Y
## 723	Unf	2	463	TA	TA	Y
## 724	Unf	1	548	TA	TA	Y
## 726	Unf	2	660	TA	TA	Y
## 728	RFn	2	632	TA	TA	Y
## 729	Unf	3	888	TA	TA	Y
## 730	Unf	2	539	TA	TA	Y
## 735	Unf	1	300	TA	TA	Y
## 737	Unf	2	400	TA	TA	Y
## 739	<NA>	0	0	<NA>	<NA>	Y
## 740	RFn	2	572	TA	TA	Y
## 741	Unf	2	360	TA	Gd	Y
## 742	Unf	1	288	TA	TA	Y
## 743	Unf	2	539	TA	TA	Y
## 750	Unf	1	240	TA	TA	N
## 751	<NA>	0	0	<NA>	<NA>	N
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## 753	RFn	2	576	TA	TA	Y
## 755	RFn	2	440	TA	TA	Y
## 756	Unf	2	440	TA	TA	Y
## 757	RFn	2	578	TA	TA	Y
## 759	Unf	2	440	TA	TA	Y
## 761	Unf	1	300	Ex	Ex	Y
## 762	Unf	2	440	TA	TA	Y
## 763	Unf	2	614	TA	TA	Y
## 768	Unf	1	423	TA	TA	Y
## 771	Unf	2	576	TA	TA	Y
## 772	Unf	2	396	TA	TA	Y
## 774	RFn	1	275	TA	TA	Y
## 776	Fin	2	412	TA	TA	Y
## 777	RFn	3	865	TA	TA	Y
## 780	Unf	2	504	TA	TA	Y

## 782	RFn	2	484	TA	TA	Y
## 783	RFn	2	605	TA	TA	Y
## 787	Unf	1	416	TA	TA	Y
## 788	RFn	2	618	TA	TA	Y
## 789	Unf	1	281	Fa	TA	Y
## 790	Fin	2	444	TA	TA	Y
## 794	Fin	2	474	TA	TA	Y
## 798	Unf	1	240	TA	TA	Y
## 801	RFn	2	603	TA	TA	Y
## 802	Unf	2	440	TA	TA	Y
## 805	Unf	1	286	TA	TA	Y
## 806	RFn	2	554	TA	TA	Y
## 807	Fin	1	384	TA	TA	Y
## 810	Unf	2	360	Fa	Po	N
## 813	Unf	2	504	TA	TA	N
## 814	RFn	1	301	TA	TA	Y
## 815	Unf	1	280	TA	TA	P
## 816	RFn	2	598	TA	TA	Y
## 819	Unf	2	440	TA	TA	Y
## 821	RFn	2	595	TA	TA	Y
## 822	Unf	2	576	TA	TA	Y
## 827	<NA>	0	0	<NA>	<NA>	Y
## 829	Fin	2	538	TA	TA	Y
## 830	RFn	2	480	TA	TA	Y
## 832	RFn	2	480	TA	TA	Y
## 834	RFn	2	472	TA	TA	Y
## 835	Unf	2	456	TA	TA	Y
## 836	Unf	2	436	TA	TA	Y
## 837	Unf	2	812	TA	TA	Y
## 838	Unf	1	264	TA	TA	Y
## 839	Unf	1	352	TA	TA	Y
## 840	Unf	1	240	TA	TA	Y
## 841	Unf	1	400	TA	TA	P
## 843	RFn	2	490	Gd	Gd	Y
## 844	<NA>	0	0	<NA>	<NA>	Y
## 851	Fin	2	420	TA	TA	Y
## 856	Unf	1	260	TA	TA	Y
## 857	Unf	2	576	TA	Fa	Y
## 862	Unf	2	504	TA	TA	Y
## 863	Unf	2	480	TA	TA	Y
## 864	Unf	1	672	TA	TA	Y
## 865	Fin	2	529	TA	TA	Y
## 866	Unf	2	902	TA	TA	Y
## 868	RFn	2	544	TA	TA	Y
## 871	Unf	1	308	TA	TA	Y
## 872	RFn	2	523	TA	TA	Y
## 873	Unf	2	414	TA	TA	Y
## 875	Unf	1	200	TA	TA	Y
## 877	Unf	2	648	TA	TA	Y
## 879	Unf	2	576	TA	TA	Y
## 880	Unf	1	336	TA	TA	Y
## 881	Fin	2	450	TA	TA	Y
## 884	Unf	1	440	TA	Gd	Y
## 885	RFn	1	288	TA	TA	Y

## 887	Fin	2	588	TA	TA	Y
## 888	Unf	1	300	TA	TA	Y
## 893	RFn	1	264	TA	TA	Y
## 895	Unf	2	400	TA	TA	Y
## 897	Unf	1	327	TA	TA	Y
## 898	Unf	2	528	TA	TA	Y
## 901	Unf	1	684	TA	TA	Y
## 902	Unf	1	756	TA	TA	Y
## 905	Unf	1	288	TA	TA	Y
## 906	RFn	1	280	TA	TA	Y
## 909	Unf	2	484	TA	TA	Y
## 911	Unf	2	480	TA	TA	Y
## 912	Unf	1	252	TA	TA	Y
## 913	Unf	1	450	TA	TA	Y
## 914	Unf	3	871	TA	TA	Y
## 915	RFn	2	528	TA	TA	Y
## 916	Unf	1	286	TA	TA	Y
## 917	Unf	1	308	TA	TA	Y
## 918	RFn	1	284	TA	TA	Y
## 921	RFn	2	471	TA	TA	Y
## 922	<NA>	0	0	<NA>	<NA>	N
## 926	RFn	2	540	TA	TA	Y
## 931	Fin	3	610	TA	TA	Y
## 932	Unf	1	429	TA	TA	Y
## 934	RFn	2	570	TA	TA	Y
## 936	Unf	2	528	TA	TA	Y
## 937	RFn	2	555	TA	TA	Y
## 939	RFn	3	868	TA	TA	Y
## 941	Unf	2	574	TA	TA	Y
## 943	<NA>	0	0	<NA>	<NA>	N
## 944	Unf	2	576	TA	TA	P
## 946	Unf	2	456	TA	TA	Y
## 951	RFn	2	720	TA	TA	Y
## 952	Unf	1	300	TA	TA	Y
## 953	Fin	1	396	TA	TA	Y
## 955	<NA>	0	0	<NA>	<NA>	Y
## 956	Unf	2	492	TA	TA	Y
## 958	Fin	2	576	TA	TA	Y
## 959	RFn	2	531	TA	TA	Y
## 960	Unf	2	484	TA	TA	Y
## 961	<NA>	0	0	<NA>	<NA>	Y
## 964	Fin	2	702	TA	TA	Y
## 968	Unf	1	260	TA	TA	Y
## 969	<NA>	0	0	<NA>	<NA>	Y
## 970	RFn	1	264	TA	TA	Y
## 971	<NA>	0	0	<NA>	<NA>	Y
## 972	RFn	2	474	TA	TA	Y
## 974	Fin	2	480	TA	TA	Y
## 975	Unf	2	532	TA	TA	Y
## 976	Unf	2	490	TA	TA	Y
## 977	<NA>	0	0	<NA>	<NA>	Y
## 978	Fin	2	569	TA	TA	Y
## 979	Unf	2	400	TA	TA	Y
## 980	Unf	2	480	TA	TA	Y

## 981	RFn	2	588	TA	TA	Y
## 985	Unf	2	539	TA	TA	Y
## 986	Unf	1	240	TA	TA	Y
## 987	Unf	1	255	Fa	TA	Y
## 990	RFn	2	614	TA	TA	Y
## 994	RFn	2	564	TA	TA	Y
## 996	Unf	1	305	TA	TA	Y
## 997	Unf	1	368	TA	TA	Y
## 1000	RFn	2	632	TA	TA	Y
## 1001	Unf	2	528	TA	Fa	Y
## 1002	Unf	1	216	Fa	TA	N
## 1004	Unf	2	528	TA	TA	Y
## 1006	Unf	1	328	TA	TA	Y
## 1008	RFn	1	286	TA	TA	Y
## 1010	<NA>	0	0	<NA>	<NA>	P
## 1012	<NA>	0	0	<NA>	<NA>	Y
## 1014	Unf	1	280	TA	TA	Y
## 1016	Fin	2	528	TA	TA	Y
## 1021	Fin	2	451	TA	TA	Y
## 1022	RFn	2	632	TA	TA	Y
## 1023	Unf	1	160	Fa	Fa	Y
## 1026	Unf	2	461	TA	TA	Y
## 1030	Unf	1	264	TA	TA	Y
## 1031	<NA>	0	0	<NA>	<NA>	N
## 1034	Unf	3	900	TA	TA	Y
## 1036	Unf	1	290	TA	TA	N
## 1040	Unf	1	286	TA	TA	Y
## 1042	Unf	2	484	TA	TA	Y
## 1048	Unf	2	672	TA	TA	Y
## 1050	Unf	1	308	TA	TA	Y
## 1051	Fin	2	436	TA	TA	Y
## 1061	Fin	2	582	TA	TA	Y
## 1062	RFn	3	1248	TA	TA	Y
## 1063	Unf	2	560	TA	TA	Y
## 1066	RFn	2	533	TA	TA	Y
## 1068	RFn	2	442	TA	TA	Y
## 1070	Unf	2	576	TA	TA	Y
## 1071	Unf	1	286	TA	TA	Y
## 1072	Unf	2	441	TA	TA	Y
## 1074	Fin	2	440	TA	TA	Y
## 1075	RFn	3	826	TA	TA	Y
## 1078	Fin	1	299	TA	TA	Y
## 1080	Unf	1	299	TA	TA	Y
## 1081	RFn	2	528	TA	TA	Y
## 1082	Fin	1	308	TA	TA	Y
## 1086	Unf	2	564	TA	TA	Y
## 1087	RFn	1	286	TA	TA	Y
## 1089	Unf	2	380	TA	TA	Y
## 1091	Unf	2	400	TA	TA	Y
## 1092	Unf	2	462	TA	TA	Y
## 1094	Unf	2	884	TA	TA	Y
## 1095	Fin	1	308	TA	TA	Y
## 1097	<NA>	0	0	<NA>	<NA>	Y
## 1098	RFn	2	461	TA	TA	Y



## 1099	Unf	1	240	TA	TA	Y
## 1101	Unf	1	246	TA	TA	N
## 1102	Unf	1	280	TA	TA	Y
## 1103	RFn	1	254	TA	TA	Y
## 1105	Unf	2	440	TA	TA	Y
## 1113	Unf	1	308	TA	TA	Y
## 1114	Unf	1	240	TA	TA	Y
## 1115	Unf	1	326	TA	TA	Y
## 1118	RFn	2	450	TA	TA	Y
## 1119	RFn	1	300	TA	TA	Y
## 1120	RFn	1	286	TA	TA	Y
## 1122	RFn	3	782	TA	TA	Y
## 1123	Unf	1	288	TA	TA	Y
## 1124	<NA>	0	0	<NA>	<NA>	Y
## 1130	Unf	2	672	TA	TA	Y
## 1132	<NA>	0	0	<NA>	<NA>	Y
## 1133	Unf	1	205	Fa	TA	N
## 1137	Unf	1	288	TA	TA	Y
## 1138	<NA>	0	0	<NA>	<NA>	N
## 1141	Unf	2	840	TA	TA	Y
## 1144	<NA>	0	0	<NA>	<NA>	Y
## 1145	Unf	1	280	TA	TA	Y
## 1150	Unf	2	324	TA	TA	Y
## 1154	Unf	1	432	TA	TA	Y
## 1159	RFn	3	830	TA	TA	Y
## 1164	Unf	2	400	Fa	TA	Y
## 1166	RFn	2	644	TA	TA	Y
## 1167	RFn	3	776	TA	TA	Y
## 1173	Fin	2	625	TA	TA	Y
## 1177	Unf	1	264	TA	TA	Y
## 1178	Unf	1	210	TA	TA	N
## 1181	Fin	2	693	TA	TA	Y
## 1186	Unf	1	392	TA	TA	Y
## 1187	Unf	2	420	Fa	Fa	Y
## 1189	RFn	2	493	TA	TA	Y
## 1192	Unf	2	492	TA	TA	Y
## 1193	Unf	1	250	TA	Fa	P
## 1194	Fin	2	402	TA	TA	Y
## 1195	Fin	1	299	TA	TA	Y
## 1196	Fin	2	400	TA	TA	Y
## 1199	RFn	2	573	TA	TA	Y
## 1201	Unf	1	280	TA	TA	Y
## 1202	RFn	2	546	TA	TA	Y
## 1205	RFn	2	495	TA	TA	Y
## 1207	Unf	1	384	TA	TA	Y
## 1208	RFn	2	544	TA	TA	Y
## 1209	Unf	2	506	TA	TA	Y
## 1212	RFn	2	492	TA	TA	Y
## 1213	Unf	1	234	TA	TA	N
## 1214	Unf	1	364	TA	TA	Y
## 1215	Unf	1	300	TA	TA	Y
## 1216	RFn	1	384	TA	TA	Y
## 1217	Unf	2	539	TA	TA	Y
## 1218	RFn	2	552	TA	TA	Y

## 1219	<NA>	0	0	<NA>	<NA>	N
## 1220	<NA>	0	0	<NA>	<NA>	N
## 1221	Unf	1	288	TA	TA	Y
## 1224	Unf	2	528	TA	TA	Y
## 1226	RFn	1	264	TA	TA	Y
## 1228	Unf	2	576	TA	TA	Y
## 1230	Unf	1	404	TA	TA	Y
## 1232	Unf	2	540	TA	TA	Y
## 1233	Unf	2	462	TA	TA	Y
## 1234	RFn	2	531	TA	TA	Y
## 1235	<NA>	0	0	<NA>	<NA>	N
## 1236	Unf	1	180	Fa	Fa	N
## 1237	RFn	2	474	TA	TA	Y
## 1239	Unf	2	484	TA	TA	Y
## 1241	RFn	2	543	TA	TA	Y
## 1242	RFn	3	954	TA	TA	Y
## 1247	RFn	2	615	TA	TA	Y
## 1248	Unf	3	888	TA	TA	Y
## 1250	Unf	1	276	TA	TA	Y
## 1253	RFn	1	288	TA	TA	Y
## 1258	<NA>	0	0	<NA>	<NA>	Y
## 1259	Fin	2	400	TA	TA	Y
## 1260	Unf	2	460	TA	TA	Y
## 1262	Unf	1	338	TA	TA	Y
## 1265	Fin	2	511	TA	TA	Y
## 1266	Unf	2	506	TA	TA	Y
## 1270	Unf	1	315	TA	TA	Y
## 1273	Unf	1	288	TA	TA	Y
## 1276	Unf	2	400	TA	Fa	Y
## 1280	RFn	2	528	TA	TA	Y
## 1281	RFn	2	544	TA	TA	Y
## 1283	Unf	2	484	TA	TA	Y
## 1284	<NA>	0	0	<NA>	<NA>	Y
## 1288	Unf	2	390	TA	TA	N
## 1292	Unf	1	264	TA	TA	Y
## 1293	RFn	1	432	TA	TA	Y
## 1295	Unf	2	572	TA	TA	N
## 1296	RFn	1	288	TA	TA	Y
## 1297	RFn	2	525	TA	TA	Y
## 1298	Fin	2	525	TA	TA	Y
## 1300	RFn	1	305	TA	TA	Y
## 1304	RFn	3	834	TA	TA	Y
## 1305	Unf	2	380	TA	TA	Y
## 1308	Unf	2	480	TA	TA	Y
## 1309	Unf	2	528	TA	TA	Y
## 1310	RFn	2	496	TA	TA	Y
## 1312	RFn	2	508	TA	TA	Y
## 1320	Unf	1	248	TA	TA	Y
## 1322	Unf	1	287	TA	Fa	Y
## 1324	<NA>	0	0	<NA>	<NA>	Y
## 1326	<NA>	0	0	<NA>	<NA>	N
## 1327	<NA>	0	0	<NA>	<NA>	Y
## 1332	Unf	2	576	TA	TA	Y
## 1334	Unf	1	297	TA	TA	Y

## 1335	Unf	2	440	TA	TA	Y
## 1337	Unf	2	506	TA	TA	Y
## 1338	<NA>	0	0	<NA>	<NA>	N
## 1339	RFn	2	492	TA	TA	Y
## 1340	RFn	1	288	TA	TA	Y
## 1341	Unf	4	480	TA	TA	Y
## 1342	Unf	2	576	TA	TA	Y
## 1346	Unf	1	308	TA	TA	Y
## 1350	<NA>	0	0	<NA>	<NA>	Y
## 1351	Unf	4	968	TA	TA	Y
## 1353	Unf	2	624	TA	TA	N
## 1357	RFn	1	264	TA	TA	Y
## 1359	Unf	2	440	TA	TA	Y
## 1361	RFn	2	621	TA	TA	Y
## 1365	RFn	2	480	TA	TA	Y
## 1366	RFn	2	663	TA	TA	Y
## 1367	RFn	2	588	TA	TA	Y
## 1369	Fin	2	420	TA	TA	Y
## 1371	Fin	1	338	TA	TA	Y
## 1377	Unf	1	160	Fa	TA	Y
## 1378	Unf	2	660	TA	TA	Y
## 1379	Unf	1	264	TA	TA	Y
## 1380	Fin	2	400	TA	TA	Y
## 1381	Unf	1	200	TA	Fa	Y
## 1383	Unf	2	576	TA	TA	N
## 1384	Unf	2	576	TA	TA	N
## 1385	Unf	1	280	TA	TA	P
## 1386	Unf	1	240	TA	TA	N
## 1391	RFn	2	541	TA	TA	Y
## 1392	Unf	3	792	TA	TA	Y
## 1398	Unf	1	180	Fa	Fa	N
## 1399	Unf	1	240	TA	TA	Y
## 1404	Unf	3	754	TA	TA	Y
## 1405	Unf	3	936	TA	TA	Y
## 1407	Unf	2	396	TA	TA	Y
## 1408	<NA>	0	0	<NA>	<NA>	Y
## 1409	Unf	2	528	TA	TA	Y
## 1411	RFn	2	622	TA	TA	Y
## 1412	Unf	1	271	TA	TA	Y
## 1413	Unf	2	420	TA	TA	Y
## 1417	Unf	2	560	TA	TA	N
## 1419	Unf	1	336	TA	TA	Y
## 1423	Fin	2	420	TA	TA	Y
## 1426	Unf	2	528	TA	TA	Y
## 1432	RFn	2	440	TA	TA	Y
## 1433	Unf	1	216	Fa	Fa	Y
## 1437	Unf	2	528	TA	TA	Y
## 1439	Unf	2	923	TA	TA	Y
## 1445	RFn	2	626	TA	TA	Y
## 1446	Unf	1	240	TA	TA	Y
## 1447	Unf	1	312	TA	TA	P
## 1449	Unf	1	384	Fa	TA	Y
## 1450	<NA>	0	0	<NA>	<NA>	Y
## 1451	<NA>	0	0	<NA>	<NA>	Y

## 1453	Fin	2	525	TA	TA	Y
## 1454	<NA>	0	0	<NA>	<NA>	Y
## 1455	RFn	2	400	TA	TA	Y
## 1459	Unf	1	240	TA	TA	Y
## 1460	Fin	1	276	TA	TA	Y
##	WoodDeckSF	OpenPorchSF	EnclosedPorch	X3SsnPorch	ScreenPorch	PoolArea
## 1	0	61	0	0	0	0
## 6	40	30	0	320	0	0
## 11	0	0	0	0	0	0
## 13	140	0	0	0	176	0
## 16	48	112	0	0	0	0
## 18	0	0	0	0	0	0
## 19	0	102	0	0	0	0
## 20	0	0	0	0	0	0
## 27	222	32	0	0	0	0
## 30	49	0	87	0	0	0
## 31	0	54	172	0	0	0
## 32	0	65	0	0	0	0
## 33	0	30	0	0	0	0
## 37	392	64	0	0	0	0
## 39	0	52	0	0	0	0
## 40	0	0	0	0	0	0
## 43	240	0	0	0	0	0
## 44	145	0	0	0	0	0
## 45	0	0	0	0	0	0
## 48	0	146	0	0	0	0
## 49	0	0	102	0	0	0
## 50	0	0	0	0	0	0
## 51	0	75	0	0	0	0
## 53	106	0	0	0	0	0
## 57	115	0	0	0	0	0
## 58	0	70	0	0	0	0
## 60	196	0	0	0	0	0
## 61	0	50	0	0	0	0
## 62	0	0	144	0	0	0
## 64	12	11	64	0	0	0
## 65	576	36	0	0	0	0
## 68	144	29	0	0	0	0
## 69	0	0	0	0	0	0
## 72	0	0	0	0	0	0
## 74	0	0	0	0	0	0
## 75	0	0	202	0	0	0
## 76	120	101	0	0	0	0
## 77	0	0	0	0	0	0
## 78	0	0	0	0	0	0
## 79	0	0	0	0	0	0
## 80	74	0	128	0	0	0
## 82	0	199	0	0	0	0
## 84	74	0	0	0	0	0
## 88	0	234	0	0	0	0
## 89	0	0	156	0	0	0
## 90	0	0	0	0	0	0
## 91	0	29	0	0	0	0
## 92	0	0	0	0	0	0

## 93	0	0	44	0	0	0
## 95	0	162	0	0	0	0
## 97	158	29	0	0	0	0
## 98	120	0	0	0	0	0
## 99	0	0	77	0	0	0
## 100	352	0	0	0	0	0
## 103	0	0	0	0	0	0
## 104	0	36	0	0	0	0
## 107	0	0	0	0	0	0
## 108	0	0	0	0	0	0
## 109	0	0	144	0	0	0
## 111	182	0	0	0	0	0
## 118	80	64	0	0	0	0
## 122	0	0	140	0	0	0
## 123	0	0	0	0	130	0
## 124	0	63	0	0	0	0
## 126	53	0	0	0	0	0
## 130	0	80	0	180	0	0
## 133	0	0	0	0	0	0
## 134	192	25	0	0	0	0
## 138	0	0	0	0	0	0
## 140	276	99	0	0	0	0
## 142	160	24	0	0	0	0
## 143	0	0	0	0	0	0
## 144	144	29	0	0	0	0
## 145	0	0	0	0	0	0
## 146	0	40	0	0	0	0
## 147	48	0	0	0	0	0
## 149	0	0	0	0	0	0
## 150	200	114	0	0	0	0
## 151	0	0	0	0	0	0
## 155	0	0	228	0	0	0
## 156	0	8	128	0	0	0
## 157	0	0	0	0	0	0
## 161	0	0	0	0	0	0
## 164	0	0	0	0	0	0
## 165	0	0	183	0	0	0
## 166	140	0	0	0	0	0
## 171	237	0	0	0	0	0
## 180	0	0	184	0	0	0
## 184	280	238	0	0	0	0
## 185	104	0	0	0	0	0
## 187	168	27	0	0	0	0
## 188	0	0	0	140	0	0
## 192	0	32	0	0	0	0
## 193	0	35	0	0	0	0
## 194	0	40	0	0	0	0
## 195	0	0	0	0	0	0
## 199	0	198	30	0	0	0
## 201	132	64	0	0	0	0
## 203	0	0	126	0	0	0
## 205	0	35	0	0	0	0
## 206	0	34	0	508	0	0
## 210	0	0	0	0	0	0

## 211	0	0	96	0	0	0
## 212	100	22	0	0	0	0
## 214	224	0	0	0	0	0
## 215	0	36	0	0	0	0
## 217	139	98	0	0	0	0
## 218	0	172	60	0	0	0
## 220	108	0	0	0	0	0
## 221	351	33	0	0	0	0
## 224	216	0	0	0	0	0
## 226	0	0	0	0	0	0
## 228	0	0	0	0	0	0
## 231	0	0	120	0	0	0
## 234	365	0	0	0	0	0
## 236	0	0	0	0	0	0
## 237	132	105	0	0	0	0
## 238	370	70	0	238	0	0
## 239	168	228	0	0	0	0
## 241	144	168	0	0	0	0
## 242	58	42	0	0	0	0
## 243	0	0	77	0	0	0
## 247	0	60	112	0	0	0
## 249	144	68	0	0	0	0
## 251	263	0	0	0	0	0
## 253	138	45	0	0	0	0
## 254	333	0	0	0	0	0
## 255	250	0	0	0	0	0
## 257	216	56	0	0	0	0
## 260	0	45	0	0	0	0
## 264	0	0	0	0	0	0
## 265	0	0	0	0	0	0
## 275	168	0	0	0	0	0
## 276	74	0	0	0	144	0
## 277	100	150	0	0	0	0
## 278	0	0	0	0	0	0
## 282	0	120	0	0	0	0
## 285	0	0	52	0	0	0
## 286	0	54	0	0	0	0
## 288	0	0	0	0	0	0
## 289	0	0	0	0	0	0
## 290	0	0	0	0	259	0
## 292	0	184	0	0	0	0
## 296	120	0	0	0	0	0
## 297	289	0	0	0	0	0
## 304	256	0	0	0	0	0
## 306	168	0	0	0	0	0
## 308	0	144	0	0	0	0
## 309	158	0	0	0	0	0
## 321	240	154	0	0	0	0
## 324	142	98	0	0	0	0
## 326	0	0	244	0	0	0
## 328	0	45	0	0	0	0
## 329	0	60	268	0	0	0
## 330	0	0	137	0	0	0
## 331	155	0	0	0	0	0

## 332	0	0	0	0	0	0
## 338	192	74	0	0	0	0
## 339	108	45	0	0	0	0
## 340	0	0	0	0	234	0
## 341	135	0	0	0	0	0
## 342	250	0	24	0	0	0
## 343	0	0	0	0	0	0
## 345	182	0	0	0	0	0
## 347	0	0	0	0	0	0
## 349	0	27	0	0	0	0
## 353	48	0	0	0	0	0
## 354	106	0	0	0	0	0
## 356	0	26	0	0	0	0
## 357	120	26	0	0	0	0
## 359	168	0	294	0	0	0
## 362	0	0	0	0	0	0
## 364	250	0	0	0	0	0
## 366	0	128	218	0	0	0
## 373	353	0	0	0	90	0
## 374	66	0	0	0	0	0
## 376	0	0	0	0	0	0
## 377	0	0	0	0	0	0
## 383	144	53	0	0	0	0
## 384	0	0	91	0	0	0
## 387	0	151	0	0	0	0
## 389	120	25	0	0	0	0
## 391	0	130	112	0	0	0
## 393	0	0	0	0	0	0
## 395	0	39	0	0	0	0
## 396	44	0	0	0	0	0
## 397	215	0	0	0	0	0
## 399	0	0	0	0	0	0
## 400	0	168	0	0	0	0
## 403	168	0	0	0	0	0
## 407	0	0	0	0	0	0
## 408	0	0	160	0	0	0
## 411	0	0	0	0	0	0
## 412	264	0	0	0	0	0
## 416	100	30	0	0	0	0
## 419	0	0	0	0	0	0
## 421	0	0	0	0	0	0
## 423	0	0	0	0	0	0
## 428	0	0	0	0	0	0
## 429	105	54	0	0	0	0
## 431	0	0	0	0	0	0
## 432	0	98	0	0	0	0
## 433	240	36	0	0	0	0
## 435	88	0	0	0	0	0
## 437	0	0	0	0	0	0
## 438	0	0	105	0	0	0
## 440	0	46	0	0	0	0
## 442	0	0	0	0	0	0
## 450	0	176	0	0	0	0
## 451	0	113	0	0	0	0

## 453	144	122	0	0	0	0
## 454	0	30	0	0	0	0
## 455	0	0	0	0	0	0
## 457	0	0	96	0	0	0
## 461	0	150	0	0	0	0
## 462	256	0	0	0	0	0
## 465	0	0	0	0	0	0
## 470	144	70	0	0	0	0
## 471	0	54	0	0	140	0
## 473	0	28	0	0	0	0
## 475	96	48	0	0	0	0
## 476	0	24	0	0	192	0
## 480	0	72	0	0	0	0
## 484	0	125	0	0	0	0
## 485	0	132	0	0	0	0
## 487	0	0	0	0	0	0
## 490	0	0	0	0	0	0
## 493	0	0	0	0	0	0
## 495	144	20	80	0	0	0
## 496	0	523	115	0	0	0
## 498	0	100	0	0	0	0
## 499	64	0	0	0	0	0
## 500	12	285	0	0	0	0
## 501	144	28	0	0	0	0
## 502	0	108	0	0	0	0
## 503	0	0	184	0	0	0
## 506	0	0	0	0	0	0
## 508	0	102	0	0	0	0
## 510	224	88	0	0	0	0
## 513	0	0	0	0	0	0
## 514	120	0	158	0	0	0
## 515	0	0	112	0	0	0
## 519	0	36	0	0	0	0
## 521	220	114	210	0	0	0
## 527	261	0	156	0	0	0
## 529	0	0	144	0	0	0
## 532	0	0	84	0	0	0
## 534	0	0	0	0	0	0
## 536	85	0	148	0	0	0
## 537	120	155	0	0	0	0
## 538	216	0	0	0	0	0
## 544	120	40	0	0	0	0
## 546	0	0	0	0	0	0
## 548	104	0	0	0	0	0
## 549	140	50	0	0	0	0
## 551	0	55	0	0	200	0
## 552	0	0	0	0	0	0
## 554	0	96	0	0	0	0
## 558	0	47	120	0	0	0
## 566	0	66	136	0	0	0
## 568	0	0	0	0	0	0
## 571	0	0	0	0	0	0
## 572	168	0	0	0	0	0
## 573	208	114	0	0	0	0



## 575	35	0	0	0	0	0
## 576	158	0	102	0	0	0
## 579	0	102	0	0	0	0
## 580	0	0	0	0	0	0
## 583	0	32	0	0	0	0
## 585	0	0	54	0	120	0
## 587	0	0	112	0	0	0
## 588	0	0	0	0	0	0
## 590	0	0	0	0	0	0
## 591	0	45	0	0	0	0
## 593	0	0	0	0	0	0
## 594	140	0	0	0	0	0
## 595	0	0	0	0	0	0
## 597	0	158	0	0	0	0
## 604	0	172	0	0	0	0
## 607	168	0	0	0	0	0
## 608	103	0	0	0	0	0
## 610	64	0	39	0	0	0
## 614	0	30	0	0	0	0
## 615	96	24	0	0	0	0
## 616	120	0	0	0	0	0
## 618	0	0	0	0	0	0
## 621	0	0	100	0	0	0
## 623	192	0	0	0	0	0
## 626	0	0	0	0	385	0
## 630	176	0	0	0	0	0
## 631	0	0	293	0	0	0
## 634	390	0	0	0	0	0
## 635	264	56	0	0	0	0
## 636	0	110	0	0	0	0
## 638	0	0	0	0	0	0
## 639	328	0	164	0	0	0
## 644	208	0	0	0	0	0
## 646	0	312	40	0	0	0
## 647	0	27	0	0	0	0
## 650	0	0	0	0	0	0
## 651	0	0	0	0	0	0
## 654	57	0	239	0	0	0
## 656	0	0	0	0	0	0
## 657	0	0	0	0	0	0
## 660	0	0	0	0	0	0
## 664	0	0	180	0	0	0
## 671	100	35	0	0	0	0
## 672	147	0	0	0	0	0
## 677	0	0	90	0	0	0
## 678	316	0	120	0	0	0
## 680	0	0	0	0	0	0
## 682	0	0	56	0	0	0
## 685	0	81	0	0	0	0
## 687	144	105	0	0	0	0
## 688	0	60	0	0	0	0
## 694	0	0	112	0	0	0
## 695	112	0	0	0	0	0
## 697	0	0	129	0	0	0

## 698	0	0	0	0	0	0
## 700	156	158	0	0	0	0
## 702	0	0	0	0	0	0
## 705	0	35	0	144	0	0
## 706	0	0	0	0	0	0
## 710	0	0	0	0	0	0
## 711	0	0	0	0	0	0
## 712	68	0	98	0	0	0
## 714	0	288	0	0	0	0
## 715	0	44	0	0	0	0
## 717	0	48	143	0	0	0
## 722	160	0	0	0	0	0
## 723	0	0	0	0	0	0
## 724	0	0	0	0	156	0
## 726	96	0	0	0	0	0
## 728	132	0	0	0	0	0
## 729	0	25	0	0	0	0
## 730	0	23	112	0	0	0
## 735	147	0	0	0	0	0
## 737	0	0	0	0	0	0
## 739	120	0	0	0	0	0
## 740	187	56	0	0	0	0
## 741	270	0	112	0	0	0
## 742	168	0	0	0	0	0
## 743	120	55	0	0	0	0
## 750	92	0	185	0	0	0
## 751	0	160	0	0	0	0
## 752	0	48	0	0	0	0
## 753	168	27	0	0	0	0
## 755	171	48	0	0	0	0
## 756	0	24	0	0	0	0
## 757	144	105	0	0	0	0
## 759	0	0	0	0	0	0
## 761	0	0	0	0	0	0
## 762	0	0	0	0	0	0
## 763	169	45	0	0	0	0
## 768	245	0	156	0	0	0
## 771	120	0	0	0	0	0
## 772	0	0	0	0	0	0
## 774	0	0	0	0	0	0
## 776	0	247	0	0	0	0
## 777	144	59	0	0	0	0
## 780	0	0	0	0	0	0
## 782	0	124	0	0	0	0
## 783	0	33	0	0	0	0
## 787	0	0	196	0	0	0
## 788	0	45	0	0	0	0
## 789	0	0	0	0	0	0
## 790	133	168	0	0	0	0
## 794	168	130	0	0	0	0
## 798	0	0	0	0	0	0
## 801	403	114	185	0	0	0
## 802	0	0	0	0	0	0
## 805	0	0	0	0	0	0

## 806	0	60	0	0	0	0
## 807	68	0	0	0	0	0
## 810	40	156	0	0	0	0
## 813	0	0	0	0	0	0
## 814	0	0	275	0	0	0
## 815	207	0	96	0	0	0
## 816	0	34	0	0	0	0
## 819	0	0	0	0	0	0
## 821	0	45	0	0	0	0
## 822	0	32	112	0	0	0
## 827	0	0	116	0	0	0
## 829	486	0	0	0	225	0
## 830	0	166	0	0	0	0
## 832	0	166	0	0	0	0
## 834	0	0	0	0	152	0
## 835	0	0	0	0	0	0
## 836	290	0	0	0	0	0
## 837	0	116	230	0	0	0
## 838	0	0	0	0	0	0
## 839	278	0	0	0	0	0
## 840	0	0	0	0	0	0
## 841	0	0	254	0	0	0
## 843	0	129	0	0	0	0
## 844	0	0	0	0	0	0
## 851	140	0	0	0	0	0
## 856	0	104	0	0	0	0
## 857	0	0	34	0	0	0
## 862	0	0	0	0	0	0
## 863	0	0	0	0	0	0
## 864	0	0	0	0	0	0
## 865	0	140	0	0	0	0
## 866	0	0	0	0	0	0
## 868	168	0	0	0	0	0
## 871	0	0	0	0	0	0
## 872	0	77	0	0	0	0
## 873	196	0	150	0	0	0
## 875	26	0	0	0	0	0
## 877	0	0	0	0	0	0
## 879	192	0	0	0	0	0
## 880	0	0	0	0	0	0
## 881	0	49	0	0	0	0
## 884	0	188	0	0	0	0
## 885	0	0	0	0	0	0
## 887	272	54	0	0	0	0
## 888	121	0	0	0	265	0
## 893	192	0	0	0	0	0
## 895	0	0	0	0	0	0
## 897	0	28	0	0	0	0
## 898	154	0	0	0	0	0
## 901	0	0	0	0	0	0
## 902	0	0	0	0	0	0
## 905	0	0	0	0	0	0
## 906	0	0	164	0	0	0
## 909	164	0	0	0	0	0

## 911	0	0	0	0	0	0
## 912	173	0	0	0	0	0
## 913	0	0	112	0	120	0
## 914	0	0	0	0	0	0
## 915	0	234	0	0	0	0
## 916	0	0	0	0	0	0
## 917	0	0	0	0	0	0
## 918	0	0	0	0	0	0
## 921	300	87	0	0	0	0
## 922	0	70	0	0	0	0
## 926	180	0	0	0	0	0
## 931	100	18	0	0	0	0
## 932	0	0	0	0	0	0
## 934	192	36	0	0	0	0
## 936	0	0	32	0	0	0
## 937	0	41	0	0	0	0
## 939	0	90	0	0	0	0
## 941	40	0	0	0	0	0
## 943	321	0	0	0	0	0
## 944	0	0	0	0	0	0
## 946	48	0	244	0	0	0
## 951	194	0	0	0	0	0
## 952	421	0	0	0	0	0
## 953	192	0	0	0	0	0
## 955	0	0	0	0	0	0
## 956	0	0	0	0	0	0
## 958	0	0	0	0	0	0
## 959	0	39	0	0	0	0
## 960	0	44	0	0	0	0
## 961	117	0	0	0	0	0
## 964	288	136	0	0	0	0
## 968	0	0	0	0	0	0
## 969	0	0	0	0	0	0
## 970	0	0	0	0	0	0
## 971	0	0	0	0	0	0
## 972	0	27	0	0	0	0
## 974	0	120	0	0	0	0
## 975	509	135	0	0	0	0
## 976	153	50	0	0	0	0
## 977	0	0	0	0	0	0
## 978	0	116	0	0	0	0
## 979	0	0	0	0	0	0
## 980	0	80	0	0	0	0
## 981	144	76	0	0	0	0
## 985	0	0	0	0	0	0
## 986	0	48	0	0	0	0
## 987	394	0	0	0	0	0
## 990	0	50	0	0	0	0
## 994	0	35	0	0	0	0
## 996	0	57	0	0	63	0
## 997	0	319	0	0	0	0
## 1000	105	61	0	0	0	0
## 1001	0	0	0	0	0	0
## 1002	0	20	94	0	0	0

## 1004	0	0	0	0	0	0
## 1006	210	0	0	0	0	0
## 1008	238	0	0	0	0	0
## 1010	0	0	138	0	0	0
## 1012	0	0	0	0	0	0
## 1014	0	30	226	0	0	0
## 1016	0	45	0	0	0	0
## 1021	252	64	0	0	0	0
## 1022	105	54	0	0	0	0
## 1023	0	0	192	0	0	0
## 1026	96	0	0	0	0	0
## 1030	0	28	0	0	0	0
## 1031	0	0	228	0	0	0
## 1034	0	136	0	0	0	0
## 1036	186	0	0	0	0	0
## 1040	0	0	0	0	0	0
## 1042	0	40	0	0	0	0
## 1048	0	0	0	0	0	0
## 1050	0	0	0	0	0	0
## 1051	0	22	0	0	0	0
## 1061	0	0	170	0	0	0
## 1062	0	20	0	0	0	0
## 1063	0	57	0	0	0	0
## 1066	296	44	0	0	0	0
## 1068	328	128	0	0	189	0
## 1070	0	0	0	0	0	0
## 1071	0	20	0	0	192	0
## 1072	0	0	0	0	0	0
## 1074	252	0	0	0	0	0
## 1075	140	93	0	0	0	0
## 1078	240	32	0	0	0	0
## 1080	0	64	0	0	0	0
## 1081	55	0	0	216	0	0
## 1082	0	0	220	0	0	0
## 1086	120	0	0	0	0	0
## 1087	120	96	0	0	0	0
## 1089	0	40	0	0	0	0
## 1091	0	0	0	0	0	0
## 1092	0	48	0	0	0	0
## 1094	0	64	0	0	0	0
## 1095	0	0	80	0	160	0
## 1097	136	0	115	0	0	0
## 1098	0	74	137	0	0	0
## 1099	0	0	0	0	0	0
## 1101	0	0	0	0	0	0
## 1102	0	0	0	0	0	0
## 1103	0	16	0	0	0	0
## 1105	0	0	0	0	0	0
## 1113	0	0	0	0	0	0
## 1114	0	18	0	0	0	0
## 1115	0	0	0	0	0	0
## 1118	0	0	0	0	0	0
## 1119	280	34	0	0	0	0
## 1120	140	0	252	0	0	0

## 1122	144	20	0	0	0	0
## 1123	64	0	0	0	160	0
## 1124	0	200	0	0	0	0
## 1130	49	0	0	0	0	0
## 1132	0	28	0	0	0	0
## 1133	0	48	0	0	0	0
## 1137	0	0	96	0	0	0
## 1138	0	0	176	0	0	0
## 1141	0	0	0	0	0	0
## 1144	0	24	0	0	0	0
## 1145	0	0	0	0	0	0
## 1150	0	0	0	0	0	0
## 1154	0	0	96	0	0	0
## 1159	0	24	0	0	0	0
## 1164	120	0	0	0	0	0
## 1166	0	114	0	0	0	0
## 1167	160	33	0	0	0	0
## 1173	0	54	0	0	0	0
## 1177	362	0	0	0	0	0
## 1178	0	0	116	0	0	0
## 1181	0	0	0	0	0	0
## 1186	0	0	236	0	0	0
## 1187	0	74	0	0	0	0
## 1189	144	68	0	0	0	0
## 1192	206	0	0	0	0	0
## 1193	0	0	84	0	0	0
## 1194	0	304	0	0	0	0
## 1195	379	36	0	0	0	0
## 1196	100	24	0	0	0	0
## 1199	356	0	0	0	0	0
## 1201	0	0	0	0	0	0
## 1202	198	36	0	0	0	0
## 1205	0	88	0	0	0	0
## 1207	0	42	0	0	0	0
## 1208	192	23	0	0	0	0
## 1209	0	0	0	0	0	0
## 1212	325	12	0	0	0	0
## 1213	0	113	0	0	0	0
## 1214	88	0	0	0	0	0
## 1215	150	72	0	0	0	0
## 1216	0	0	0	0	0	0
## 1217	0	0	0	0	0	0
## 1218	135	112	0	0	0	0
## 1219	0	0	0	0	0	0
## 1220	201	0	0	0	0	0
## 1221	0	0	0	0	0	0
## 1224	0	30	0	0	0	0
## 1226	224	0	0	0	0	0
## 1228	0	240	0	0	0	0
## 1230	0	0	0	0	0	0
## 1232	0	18	0	0	0	0
## 1233	0	0	0	0	0	0
## 1234	0	0	0	0	0	0
## 1235	0	192	0	0	0	0

## 1236	203	40	0	0	0	0
## 1237	0	27	0	0	0	0
## 1239	0	0	0	0	0	0
## 1241	0	63	0	0	0	0
## 1242	0	56	0	0	0	0
## 1247	0	45	0	0	0	0
## 1248	0	0	0	0	0	0
## 1250	0	80	0	0	0	0
## 1253	33	0	0	0	0	0
## 1258	0	96	0	0	0	0
## 1259	212	0	0	0	0	0
## 1260	180	0	0	0	80	0
## 1262	0	0	0	0	0	0
## 1265	144	68	0	0	0	0
## 1266	0	34	0	0	0	0
## 1270	0	0	0	0	0	0
## 1273	180	0	0	0	0	0
## 1276	0	0	0	0	0	0
## 1280	30	0	164	0	0	0
## 1281	0	72	0	0	0	0
## 1283	0	0	0	0	288	0
## 1284	128	0	0	0	0	0
## 1288	168	198	0	0	0	0
## 1292	185	0	0	0	0	0
## 1293	0	287	0	0	0	0
## 1295	0	0	0	0	0	0
## 1296	356	0	0	0	0	0
## 1297	192	20	123	0	0	0
## 1298	0	44	0	0	0	0
## 1300	218	0	0	0	0	0
## 1304	208	59	0	0	0	0
## 1305	0	40	0	0	0	0
## 1308	0	64	0	0	0	0
## 1309	0	36	0	0	0	0
## 1310	112	51	0	0	0	0
## 1312	264	98	0	0	0	0
## 1320	0	0	0	0	0	0
## 1322	0	0	0	0	0	0
## 1324	164	0	0	0	0	0
## 1326	0	0	100	0	0	0
## 1327	0	0	286	0	0	0
## 1332	0	0	0	0	0	0
## 1334	0	65	190	0	0	0
## 1335	0	36	0	0	0	0
## 1337	0	211	0	0	0	0
## 1338	0	20	0	0	0	0
## 1339	146	91	0	0	0	0
## 1340	0	0	0	0	0	0
## 1341	0	0	0	0	0	0
## 1342	0	78	0	0	0	0
## 1346	0	0	168	0	0	0
## 1350	0	54	20	0	0	0
## 1351	0	0	0	0	0	0
## 1353	210	0	0	0	0	0

## 1357	0	0	0	0	0	0	0	
## 1359	0	32	0	0	0	0	0	
## 1361	183	0	301	0	0	0	0	
## 1365	0	166	0	0	0	0	0	
## 1366	0	96	0	0	0	0	0	
## 1367	0	88	0	0	0	0	0	
## 1369	140	0	0	0	0	0	0	
## 1371	0	0	198	0	0	0	0	
## 1377	0	141	0	0	0	0	0	
## 1378	0	68	0	0	0	0	0	
## 1379	72	0	0	0	0	0	0	
## 1380	100	0	0	0	0	0	0	
## 1381	0	0	96	0	0	0	0	
## 1383	36	0	221	0	0	0	0	
## 1384	0	0	112	0	0	0	0	
## 1385	0	0	0	0	0	0	0	
## 1386	0	96	0	0	0	0	0	
## 1391	219	36	0	0	0	0	0	
## 1392	0	152	0	0	0	0	0	
## 1398	24	0	150	0	0	0	0	
## 1399	0	0	168	0	0	0	0	
## 1404	168	160	0	0	0	0	0	
## 1405	216	0	160	0	0	0	0	
## 1407	58	0	0	0	0	0	0	
## 1408	0	0	0	0	0	0	0	
## 1409	0	0	0	0	168	0	0	
## 1411	0	45	0	0	0	0	0	
## 1412	0	0	0	0	0	0	0	
## 1413	0	0	0	0	0	0	0	
## 1417	0	0	114	0	0	0	0	
## 1419	0	88	0	0	0	0	0	
## 1423	140	0	0	0	0	0	0	
## 1426	0	39	0	0	0	0	0	
## 1432	0	60	0	0	0	0	0	
## 1433	0	0	0	0	0	0	0	
## 1437	0	0	0	0	0	0	0	
## 1439	0	158	158	0	0	0	0	
## 1445	192	60	0	0	0	0	0	
## 1446	0	0	252	0	0	0	0	
## 1447	261	39	0	0	0	0	0	
## 1449	168	24	0	0	0	0	0	
## 1450	0	0	0	0	0	0	0	
## 1451	32	45	0	0	0	0	0	
## 1453	0	28	0	0	0	0	0	
## 1454	36	56	0	0	0	0	0	
## 1455	0	113	0	0	0	0	0	
## 1459	366	0	112	0	0	0	0	
## 1460	736	68	0	0	0	0	0	
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## 1265	<NA>	<NA>	<NA>	0	8	2008	COD	Abnormal
## 1266	<NA>	<NA>	<NA>	0	3	2006	WD	Normal
## 1270	<NA>	GdWo	<NA>	0	7	2007	WD	Normal
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## 1320	<NA>	<NA>	<NA>	0	2	2007	WD	Normal
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## 6	143000							
## 11	129500							
## 13	144000							
## 16	132000							
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## 19	159000							
## 20	139000							
## 27	134800							
## 30	68500							
## 31	40000							
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## 33	179900							
## 37	145000							
## 39	109000							
## 40	82000							

## 43	144000
## 44	130250
## 45	141000
## 48	249700
## 49	113000
## 50	127000
## 51	177000
## 53	110000
## 57	172500
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## 60	124900
## 61	158000
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## 64	140000
## 65	219500
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## 99	83000
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## 124	153900
## 126	84500
## 130	150000
## 133	150750
## 134	220000
## 138	171000
## 140	231500

## 142	260000
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## 144	204000
## 145	125000
## 146	130000
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## 149	141000
## 150	115000
## 151	122000
## 155	125000
## 156	79000
## 157	109500
## 161	162500
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## 165	152000
## 166	127500
## 171	128500
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## 185	127000
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## 188	135000
## 192	184000
## 193	192000
## 194	130000
## 195	127000
## 199	104000
## 201	140000
## 203	112000
## 205	110000
## 206	180500
## 210	145000
## 211	98000
## 212	186000
## 214	156000
## 215	161750
## 217	210000
## 218	107000
## 220	167240
## 221	204900
## 224	97000
## 226	112000
## 228	106000
## 231	148000
## 234	128200
## 236	89500
## 237	185500
## 238	194500
## 239	318000
## 241	262500
## 242	110500
## 243	79000
## 247	137000
## 249	180000

## 251	76500
## 253	173000
## 254	158000
## 255	145000
## 257	207500
## 260	97000
## 264	130000
## 265	73000
## 275	124500
## 276	205000
## 277	201000
## 278	141000
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## 285	179200
## 286	164700
## 288	88000
## 289	122000
## 290	153575
## 292	135900
## 296	142500
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## 306	305900
## 308	89500
## 309	82500
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## 324	126175
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## 341	202900
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## 353	95000
## 354	105900
## 356	177500
## 357	173000
## 359	130000
## 362	145000
## 364	118000
## 366	147000
## 373	125000
## 374	123000
## 376	61000
## 377	148000



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## 389	191000
## 391	119000
## 393	106500
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## 614	147000
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## 672	103600
## 677	87000
## 678	109500
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##	1137	119000
##	1138	94000
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##	1144	80000
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##	1154	120500
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##	1164	108959
##	1166	233170
##	1167	245350
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##	1177	119500
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##	1187	95000
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##	1193	125000
##	1194	165000
##	1195	158000
##	1196	176000
##	1199	178000
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##	1213	113000
##	1214	145000
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##	1216	125000
##	1217	112000
##	1218	229456
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##	1228	147000
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##	1232	132500
##	1233	101800
##	1234	142000
##	1235	130000
##	1236	138887
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##	1239	142500
##	1241	224900
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##	1247	186500
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##	1253	130000
##	1258	99900
##	1259	190000
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##	1262	128900
##	1265	181000
##	1266	183900
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##	1273	137000
##	1276	137000
##	1280	68400
##	1281	227000
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##	1284	139000



##	1288	190000
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##	1293	107500
##	1295	115000
##	1296	138500
##	1297	155000
##	1298	140000
##	1300	154000
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##	1326	55000
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##	1332	132500
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##	1340	128500
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##	1342	155000
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##	1350	122000
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##	1377	91000
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##	1379	83000
##	1380	167500
##	1381	58500
##	1383	157000
##	1384	112000
##	1385	105000
##	1386	125500
##	1391	235000
##	1392	124000
##	1398	137500
##	1399	138000
##	1404	282922

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## 1405    105000
## 1407    133000
## 1408    112000
## 1409    125500
## 1411    230000
## 1412    140000
## 1413     90000
## 1417    122500
## 1419    124000
## 1423    136500
## 1426    142000
## 1432    143750
## 1433     64500
## 1437    120500
## 1439    149700
## 1445    179600
## 1446    129000
## 1447    157900
## 1449    112000
## 1450     92000
## 1451    136000
## 1453    145000
## 1454     84500
## 1455    185000
## 1459    142125
## 1460    147500
```

*#All columns that have NA in fireplaceQu which from data description means no fireplace have quantity 0*

*# Replace NA with "No basement" in the fireplace quality column*

```
train[,57][is.na(train[,57])] <- "No basement"
```

```
colSums(is.na(train[57]))
```

```
## FireplaceQu
```

```
##          0
```

*#For the garage datatypes NA was for no garage so we will replace NA with no garage for all columns exc*

```
cols_3 <- c("GarageType","GarageFinish","GarageQual", "GarageCond")
```

*# Replace NA with "No basement" in the specified columns*

```
train[, cols_3] <- lapply(train[, cols_3], function(col) {
  col[is.na(col)] <- "No Garage"
  return(col)
})
```

*#For GarageYrBlt NA replace with median*

*# Calculate the median, ignoring NA values*

```
median_year_built <- median(train$GarageYrBlt, na.rm = TRUE)
```

*# Replace NA with the median year built*

```
train$GarageYrBlt[is.na(train$GarageYrBlt)] <- round(median_year_built)
```

```
#"GarageYrBlt"
```

```
colSums(is.na(train))
```

```
##      MSSubClass      MSZoning  LotFrontage      LotArea      Street
##           0           0           259           0           0
##      Alley      LotShape  LandContour      Utilities      LotConfig
##      1369           0           0           0           0
##      LandSlope  Neighborhood  Condition1  Condition2      BldgType
##           0           0           0           0           0
##      HouseStyle  OverallQual  OverallCond  YearBuilt  YearRemodAdd
##           0           0           0           0           0
##      RoofStyle      RoofMatl  Exterior1st  Exterior2nd  MasVnrType
##           0           0           0           0           8
##      MasVnrArea  ExterQual  ExterCond  Foundation  BsmtQual
##           8           0           0           0           0
##      BsmtCond  BsmtExposure  BsmtFinType1  BsmtFinSF1  BsmtFinType2
##           0           0           0           0           0
##      BsmtFinSF2  BsmtUnfSF  TotalBsmtSF  Heating  HeatingQC
##           0           0           0           0           0
##      CentralAir  Electrical  X1stFlrSF  X2ndFlrSF  LowQualFinSF
##           0           1           0           0           0
##      GrLivArea  BsmtFullBath  BsmtHalfBath  FullBath  HalfBath
##           0           0           0           0           0
##      BedroomAbvGr  KitchenAbvGr  KitchenQual  TotRmsAbvGrd  Functional
##           0           0           0           0           0
##      Fireplaces  FireplaceQu  GarageType  GarageYrBlt  GarageFinish
##           0           0           0           0           0
##      GarageCars  GarageArea  GarageQual  GarageCond  PavedDrive
##           0           0           0           0           0
##      WoodDeckSF  OpenPorchSF  EnclosedPorch  X3SsnPorch  ScreenPorch
##           0           0           0           0           0
##      PoolArea  PoolQC  Fence  MiscFeature  MiscVal
##           0           1453  1179  1406           0
##      MoSold  YrSold  SaleType  SaleCondition  SalePrice
##           0           0           0           0           0
```

```
# Replace NA in LotFrontage, Alley, PoolQC, Fence and MiscFeature
```

```
#LotFrontage
```

```
# Replace with mean
```

```
mean_lot <- round(mean(train$LotFrontage, na.rm = TRUE))
```

```
train$LotFrontage[is.na(train$LotFrontage)] <- mean_lot
```

```
#Alley
```

```
train[,6][is.na(train[,6])] <- "No alley access"
```

```
#PoolQC
```

```
train[,72][is.na(train[,72])] <- "No Pool"
```

```
#Fence
```

```
train[,73][is.na(train[,73])] <- "No Fence"
```

```
#MiscFeature
train[,74][is.na(train[,74])] <- "None"

colSums(is.na(train))
```

```
##      MSSubClass      MSZoning  LotFrontage      LotArea      Street
##          0          0          0          0          0
##      Alley      LotShape  LandContour      Utilities      LotConfig
##          0          0          0          0          0
##      LandSlope  Neighborhood      Condition1      Condition2      BldgType
##          0          0          0          0          0
##      HouseStyle      OverallQual      OverallCond      YearBuilt      YearRemodAdd
##          0          0          0          0          0
##      RoofStyle      RoofMatl      Exterior1st      Exterior2nd      MasVnrType
##          0          0          0          0          8
##      MasVnrArea      ExterQual      ExterCond      Foundation      BsmtQual
##          8          0          0          0          0
##      BsmtCond      BsmtExposure      BsmtFinType1      BsmtFinSF1      BsmtFinType2
##          0          0          0          0          0
##      BsmtFinSF2      BsmtUnfSF      TotalBsmtSF      Heating      HeatingQC
##          0          0          0          0          0
##      CentralAir      Electrical      X1stFlrSF      X2ndFlrSF      LowQualFinSF
##          0          1          0          0          0
##      GrLivArea      BsmtFullBath      BsmtHalfBath      FullBath      HalfBath
##          0          0          0          0          0
##      BedroomAbvGr      KitchenAbvGr      KitchenQual      TotRmsAbvGrd      Functional
##          0          0          0          0          0
##      Fireplaces      FireplaceQu      GarageType      GarageYrBlt      GarageFinish
##          0          0          0          0          0
##      GarageCars      GarageArea      GarageQual      GarageCond      PavedDrive
##          0          0          0          0          0
##      WoodDeckSF      OpenPorchSF      EnclosedPorch      X3SsnPorch      ScreenPorch
##          0          0          0          0          0
##      PoolArea      PoolQC      Fence      MiscFeature      MiscVal
##          0          0          0          0          0
##      MoSold      YrSold      SaleType      SaleCondition      SalePrice
##          0          0          0          0          0
```

```
#replace missing values of MasVnrType with None and MasVnrArea with the mean
```

```
#MasVnrType
train[,25][is.na(train[,25])] <- "None"

# Replace MasVnrArea with mean
mean_area <- round(mean(train$MasVnrArea, na.rm = TRUE))
train$MasVnrArea[is.na(train$MasVnrArea)] <- mean_area

#drop remaining missing value in te electrical column
train <- na.omit(train)
```

```
sum(is.na(train))
```

```
## [1] 0
```

There are no missing values.

```
dim(train)
```

```
## [1] 1459 80
```

- Check Data type

```
#check for data types
```

```
str(train)
```

```
## 'data.frame': 1459 obs. of 80 variables:
## $ MSSubClass : int 60 20 60 70 60 50 20 60 50 190 ...
## $ MSZoning : chr "RL" "RL" "RL" "RL" ...
## $ LotFrontage : num 65 80 68 60 84 85 75 70 51 50 ...
## $ LotArea : int 8450 9600 11250 9550 14260 14115 10084 10382 6120 7420 ...
## $ Street : chr "Pave" "Pave" "Pave" "Pave" ...
## $ Alley : chr "No alley access" "No alley access" "No alley access" "No alley access" ...
## $ LotShape : chr "Reg" "Reg" "IR1" "IR1" ...
## $ LandContour : chr "Lvl" "Lvl" "Lvl" "Lvl" ...
## $ Utilities : chr "AllPub" "AllPub" "AllPub" "AllPub" ...
## $ LotConfig : chr "Inside" "FR2" "Inside" "Corner" ...
## $ LandSlope : chr "Gtl" "Gtl" "Gtl" "Gtl" ...
## $ Neighborhood : chr "CollgCr" "Veenker" "CollgCr" "Crawfor" ...
## $ Condition1 : chr "Norm" "Feedr" "Norm" "Norm" ...
## $ Condition2 : chr "Norm" "Norm" "Norm" "Norm" ...
## $ BldgType : chr "1Fam" "1Fam" "1Fam" "1Fam" ...
## $ HouseStyle : chr "2Story" "1Story" "2Story" "2Story" ...
## $ OverallQual : int 7 6 7 7 8 5 8 7 7 5 ...
## $ OverallCond : int 5 8 5 5 5 5 5 6 5 6 ...
## $ YearBuilt : int 2003 1976 2001 1915 2000 1993 2004 1973 1931 1939 ...
## $ YearRemodAdd : int 2003 1976 2002 1970 2000 1995 2005 1973 1950 1950 ...
## $ RoofStyle : chr "Gable" "Gable" "Gable" "Gable" ...
## $ RoofMatl : chr "CompShg" "CompShg" "CompShg" "CompShg" ...
## $ Exterior1st : chr "VinylSd" "MetalSd" "VinylSd" "Wd Sdng" ...
## $ Exterior2nd : chr "VinylSd" "MetalSd" "VinylSd" "Wd Shng" ...
## $ MasVnrType : chr "BrkFace" "None" "BrkFace" "None" ...
## $ MasVnrArea : num 196 0 162 0 350 0 186 240 0 0 ...
## $ ExterQual : chr "Gd" "TA" "Gd" "TA" ...
## $ ExterCond : chr "TA" "TA" "TA" "TA" ...
## $ Foundation : chr "PConc" "CBlock" "PConc" "BrkTil" ...
## $ BsmtQual : chr "Gd" "Gd" "Gd" "TA" ...
## $ BsmtCond : chr "TA" "TA" "TA" "Gd" ...
## $ BsmtExposure : chr "No" "Gd" "Mn" "No" ...
## $ BsmtFinType1 : chr "GLQ" "ALQ" "GLQ" "ALQ" ...
## $ BsmtFinSF1 : int 706 978 486 216 655 732 1369 859 0 851 ...
## $ BsmtFinType2 : chr "Unf" "Unf" "Unf" "Unf" ...
## $ BsmtFinSF2 : int 0 0 0 0 0 0 32 0 0 ...
## $ BsmtUnfSF : int 150 284 434 540 490 64 317 216 952 140 ...
## $ TotalBsmtSF : int 856 1262 920 756 1145 796 1686 1107 952 991 ...
## $ Heating : chr "GasA" "GasA" "GasA" "GasA" ...
## $ HeatingQC : chr "Ex" "Ex" "Ex" "Gd" ...
```

```
## $ CentralAir : chr "Y" "Y" "Y" "Y" ...
## $ Electrical : chr "SBrkr" "SBrkr" "SBrkr" "SBrkr" ...
## $ X1stFlrSF : int 856 1262 920 961 1145 796 1694 1107 1022 1077 ...
## $ X2ndFlrSF : int 854 0 866 756 1053 566 0 983 752 0 ...
## $ LowQualFinSF : int 0 0 0 0 0 0 0 0 0 0 ...
## $ GrLivArea : int 1710 1262 1786 1717 2198 1362 1694 2090 1774 1077 ...
## $ BsmtFullBath : int 1 0 1 1 1 1 1 0 1 ...
## $ BsmtHalfBath : int 0 1 0 0 0 0 0 0 0 ...
## $ FullBath : int 2 2 2 1 2 1 2 2 2 1 ...
## $ HalfBath : int 1 0 1 0 1 1 0 1 0 0 ...
## $ BedroomAbvGr : int 3 3 3 3 4 1 3 3 2 2 ...
## $ KitchenAbvGr : int 1 1 1 1 1 1 1 1 2 2 ...
## $ KitchenQual : chr "Gd" "TA" "Gd" "Gd" ...
## $ TotRmsAbvGrd : int 8 6 6 7 9 5 7 7 8 5 ...
## $ Functional : chr "Typ" "Typ" "Typ" "Typ" ...
## $ Fireplaces : int 0 1 1 1 1 0 1 2 2 2 ...
## $ FireplaceQu : chr "No basement" "TA" "TA" "Gd" ...
## $ GarageType : chr "Attchd" "Attchd" "Attchd" "Detchd" ...
## $ GarageYrBlt : num 2003 1976 2001 1998 2000 ...
## $ GarageFinish : chr "RFn" "RFn" "RFn" "Unf" ...
## $ GarageCars : int 2 2 2 3 3 2 2 2 2 1 ...
## $ GarageArea : int 548 460 608 642 836 480 636 484 468 205 ...
## $ GarageQual : chr "TA" "TA" "TA" "TA" ...
## $ GarageCond : chr "TA" "TA" "TA" "TA" ...
## $ PavedDrive : chr "Y" "Y" "Y" "Y" ...
## $ WoodDeckSF : int 0 298 0 0 192 40 255 235 90 0 ...
## $ OpenPorchSF : int 61 0 42 35 84 30 57 204 0 4 ...
## $ EnclosedPorch : int 0 0 0 272 0 0 0 228 205 0 ...
## $ X3SsnPorch : int 0 0 0 0 0 320 0 0 0 0 ...
## $ ScreenPorch : int 0 0 0 0 0 0 0 0 0 0 ...
## $ PoolArea : int 0 0 0 0 0 0 0 0 0 0 ...
## $ PoolQC : chr "No Pool" "No Pool" "No Pool" "No Pool" ...
## $ Fence : chr "No Fence" "No Fence" "No Fence" "No Fence" ...
## $ MiscFeature : chr "None" "None" "None" "None" ...
## $ MiscVal : int 0 0 0 0 0 700 0 350 0 0 ...
## $ MoSold : int 2 5 9 2 12 10 8 11 4 1 ...
## $ YrSold : int 2008 2007 2008 2006 2008 2009 2007 2009 2008 2008 ...
## $ SaleType : chr "WD" "WD" "WD" "WD" ...
## $ SaleCondition : chr "Normal" "Normal" "Normal" "Abnorml" ...
## $ SalePrice : int 208500 181500 223500 140000 250000 143000 307000 200000 129900 118000 ...
## - attr(*, "na.action")= 'omit' Named int 1380
## ..- attr(*, "names")= chr "1380"
```

```
# Extract columns with character datatype
col1 <- train[, sapply(train, is.character)]

col <- colnames(col1)

factor_columns <- c('MSSubClass', 'OverallQual', 'OverallCond', col)

# Convert specified columns from factor
train[factor_columns] <- lapply(train[factor_columns], as.factor)

str(train)
```

```

## 'data.frame':    1459 obs. of  80 variables:
## $ MSSubClass      : Factor w/ 15 levels "20","30","40",...: 6 1 6 7 6 5 1 6 5 15 ...
## $ MSZoning        : Factor w/ 5 levels "C (all)","FV",...: 4 4 4 4 4 4 4 4 5 4 ...
## $ LotFrontage     : num  65 80 68 60 84 85 75 70 51 50 ...
## $ LotArea         : int  8450 9600 11250 9550 14260 14115 10084 10382 6120 7420 ...
## $ Street          : Factor w/ 2 levels "Grvl","Pave": 2 2 2 2 2 2 2 2 2 2 ...
## $ Alley           : Factor w/ 3 levels "Grvl","No alley access",...: 2 2 2 2 2 2 2 2 2 2 ...
## $ LotShape        : Factor w/ 4 levels "IR1","IR2","IR3",...: 4 4 1 1 1 1 1 4 1 4 4 ...
## $ LandContour     : Factor w/ 4 levels "Bnk","HLS","Low",...: 4 4 4 4 4 4 4 4 4 4 ...
## $ Utilities       : Factor w/ 2 levels "AllPub","NoSeWa": 1 1 1 1 1 1 1 1 1 1 ...
## $ LotConfig       : Factor w/ 5 levels "Corner","CulDSac",...: 5 3 5 1 3 5 5 1 5 1 ...
## $ LandSlope       : Factor w/ 3 levels "Gtl","Mod","Sev": 1 1 1 1 1 1 1 1 1 1 ...
## $ Neighborhood    : Factor w/ 25 levels "Blmngtn","Blueste",...: 6 25 6 7 14 12 21 17 18 4 ...
## $ Condition1      : Factor w/ 9 levels "Artery","Feedr",...: 3 2 3 3 3 3 3 5 1 1 ...
## $ Condition2      : Factor w/ 8 levels "Artery","Feedr",...: 3 3 3 3 3 3 3 3 1 ...
## $ BldgType        : Factor w/ 5 levels "1Fam","2fmCon",...: 1 1 1 1 1 1 1 1 1 2 ...
## $ HouseStyle      : Factor w/ 8 levels "1.5Fin","1.5Unf",...: 6 3 6 6 6 1 3 6 1 2 ...
## $ OverallQual     : Factor w/ 10 levels "1","2","3","4",...: 7 6 7 7 8 5 8 7 7 5 ...
## $ OverallCond     : Factor w/ 9 levels "1","2","3","4",...: 5 8 5 5 5 5 5 6 5 6 ...
## $ YearBuilt       : int   2003 1976 2001 1915 2000 1993 2004 1973 1931 1939 ...
## $ YearRemodAdd    : int   2003 1976 2002 1970 2000 1995 2005 1973 1950 1950 ...
## $ RoofStyle       : Factor w/ 6 levels "Flat","Gable",...: 2 2 2 2 2 2 2 2 2 2 ...
## $ RoofMatl        : Factor w/ 8 levels "ClyTile","CompShg",...: 2 2 2 2 2 2 2 2 2 2 ...
## $ Exterior1st     : Factor w/ 15 levels "AsbShng","AsphShn",...: 13 9 13 14 13 13 13 7 4 9 ...
## $ Exterior2nd     : Factor w/ 16 levels "AsbShng","AsphShn",...: 14 9 14 16 14 14 14 7 16 9 ...
## $ MasVnrType      : Factor w/ 4 levels "BrkCmn","BrkFace",...: 2 3 2 3 2 3 4 4 3 3 ...
## $ MasVnrArea      : num   196 0 162 0 350 0 186 240 0 0 ...
## $ ExterQual       : Factor w/ 4 levels "Ex","Fa","Gd",...: 3 4 3 4 3 4 3 4 4 4 ...
## $ ExterCond       : Factor w/ 5 levels "Ex","Fa","Gd",...: 5 5 5 5 5 5 5 5 5 5 ...
## $ Foundation      : Factor w/ 6 levels "BrkTil","CBlock",...: 3 2 3 1 3 6 3 2 1 1 ...
## $ BsmtQual        : Factor w/ 5 levels "Ex","Fa","Gd",...: 3 3 3 5 3 3 1 3 5 5 ...
## $ BsmtCond        : Factor w/ 5 levels "Fa","Gd","No basement",...: 5 5 5 2 5 5 5 5 5 5 ...
## $ BsmtExposure    : Factor w/ 5 levels "Av","Gd","Mn",...: 4 2 3 4 1 4 1 3 4 4 ...
## $ BsmtFinType1    : Factor w/ 7 levels "ALQ","BLQ","GLQ",...: 3 1 3 1 3 3 3 1 7 3 ...
## $ BsmtFinSF1      : int   706 978 486 216 655 732 1369 859 0 851 ...
## $ BsmtFinType2    : Factor w/ 7 levels "ALQ","BLQ","GLQ",...: 7 7 7 7 7 7 7 2 7 7 ...
## $ BsmtFinSF2      : int    0 0 0 0 0 0 0 32 0 0 ...
## $ BsmtUnfSF       : int   150 284 434 540 490 64 317 216 952 140 ...
## $ TotalBsmtSF     : int   856 1262 920 756 1145 796 1686 1107 952 991 ...
## $ Heating         : Factor w/ 6 levels "Floor","GasA",...: 2 2 2 2 2 2 2 2 2 2 ...
## $ HeatingQC       : Factor w/ 5 levels "Ex","Fa","Gd",...: 1 1 1 3 1 1 1 1 1 3 ...
## $ CentralAir      : Factor w/ 2 levels "N","Y": 2 2 2 2 2 2 2 2 2 2 ...
## $ Electrical      : Factor w/ 5 levels "FuseA","FuseF",...: 5 5 5 5 5 5 5 5 5 2 ...
## $ X1stFlrSF       : int   856 1262 920 961 1145 796 1694 1107 1022 1077 ...
## $ X2ndFlrSF       : int   854 0 866 756 1053 566 0 983 752 0 ...
## $ LowQualFinSF    : int    0 0 0 0 0 0 0 0 0 0 ...
## $ GrLivArea       : int  1710 1262 1786 1717 2198 1362 1694 2090 1774 1077 ...
## $ BsmtFullBath    : int    1 0 1 1 1 1 1 1 0 1 ...
## $ BsmtHalfBath    : int    0 1 0 0 0 0 0 0 0 0 ...
## $ FullBath        : int    2 2 2 1 2 1 2 2 2 1 ...
## $ HalfBath        : int    1 0 1 0 1 1 0 1 0 0 ...
## $ BedroomAbvGr    : int    3 3 3 3 4 1 3 3 2 2 ...
## $ KitchenAbvGr    : int    1 1 1 1 1 1 1 1 2 2 ...
## $ KitchenQual     : Factor w/ 4 levels "Ex","Fa","Gd",...: 3 4 3 3 3 4 3 4 4 4 ...

```

```
## $ TotRmsAbvGrd : int 8 6 6 7 9 5 7 7 8 5 ...
## $ Functional   : Factor w/ 7 levels "Maj1","Maj2",...: 7 7 7 7 7 7 7 7 3 7 ...
## $ Fireplaces   : int 0 1 1 1 1 0 1 2 2 2 ...
## $ FireplaceQu  : Factor w/ 6 levels "Ex","Fa","Gd",...: 4 6 6 3 6 4 3 6 6 6 ...
## $ GarageType   : Factor w/ 7 levels "2Types","Attchd",...: 2 2 2 6 2 2 2 2 6 2 ...
## $ GarageYrBlt  : num 2003 1976 2001 1998 2000 ...
## $ GarageFinish : Factor w/ 4 levels "Fin","No Garage",...: 3 3 3 4 3 4 3 3 4 3 ...
## $ GarageCars   : int 2 2 2 3 3 2 2 2 2 1 ...
## $ GarageArea   : int 548 460 608 642 836 480 636 484 468 205 ...
## $ GarageQual   : Factor w/ 6 levels "Ex","Fa","Gd",...: 6 6 6 6 6 6 6 6 2 3 ...
## $ GarageCond   : Factor w/ 6 levels "Ex","Fa","Gd",...: 6 6 6 6 6 6 6 6 6 6 ...
## $ PavedDrive   : Factor w/ 3 levels "N","P","Y": 3 3 3 3 3 3 3 3 3 3 ...
## $ WoodDeckSF   : int 0 298 0 0 192 40 255 235 90 0 ...
## $ OpenPorchSF  : int 61 0 42 35 84 30 57 204 0 4 ...
## $ EnclosedPorch: int 0 0 0 272 0 0 0 228 205 0 ...
## $ X3SsnPorch   : int 0 0 0 0 0 320 0 0 0 0 ...
## $ ScreenPorch  : int 0 0 0 0 0 0 0 0 0 0 ...
## $ PoolArea     : int 0 0 0 0 0 0 0 0 0 0 ...
## $ PoolQC       : Factor w/ 4 levels "Ex","Fa","Gd",...: 4 4 4 4 4 4 4 4 4 4 ...
## $ Fence        : Factor w/ 5 levels "GdPrv","GdWo",...: 5 5 5 5 5 3 5 5 5 5 ...
## $ MiscFeature   : Factor w/ 5 levels "Gar2","None",...: 2 2 2 2 2 4 2 4 2 2 ...
## $ MiscVal      : int 0 0 0 0 0 700 0 350 0 0 ...
## $ MoSold       : int 2 5 9 2 12 10 8 11 4 1 ...
## $ YrSold       : int 2008 2007 2008 2006 2008 2009 2007 2009 2008 2008 ...
## $ SaleType     : Factor w/ 9 levels "COD","Con","ConLD",...: 9 9 9 9 9 9 9 9 9 9 ...
## $ SaleCondition: Factor w/ 6 levels "Abnorml","AdjLand",...: 5 5 5 1 5 5 5 5 1 5 ...
## $ SalePrice    : int 208500 181500 223500 140000 250000 143000 307000 200000 129900 118000 ...
## - attr(*, "na.action")= 'omit' Named int 1380
## ..- attr(*, "names")= chr "1380"
```

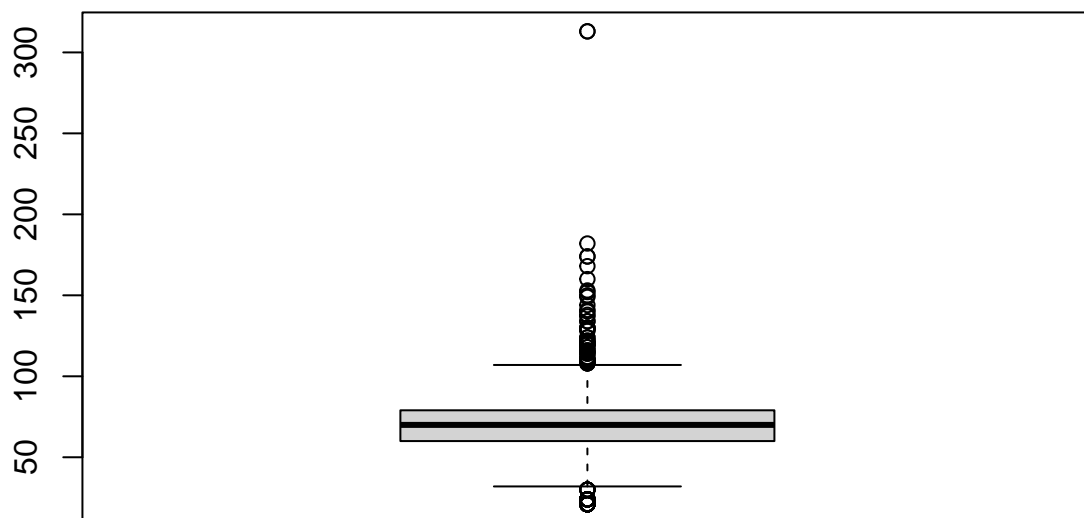
- Check outliers

```
#Numeric values
num_cols <- train[, sapply(train, is.numeric)]
num_c <- colnames(num_cols)

# Create boxplots for each variable in the dataset
for(i in 1 : length(num_c)) {
  boxplot(num_cols[[i]], main = num_c[i],
  xlab = num_c[i])
}
```

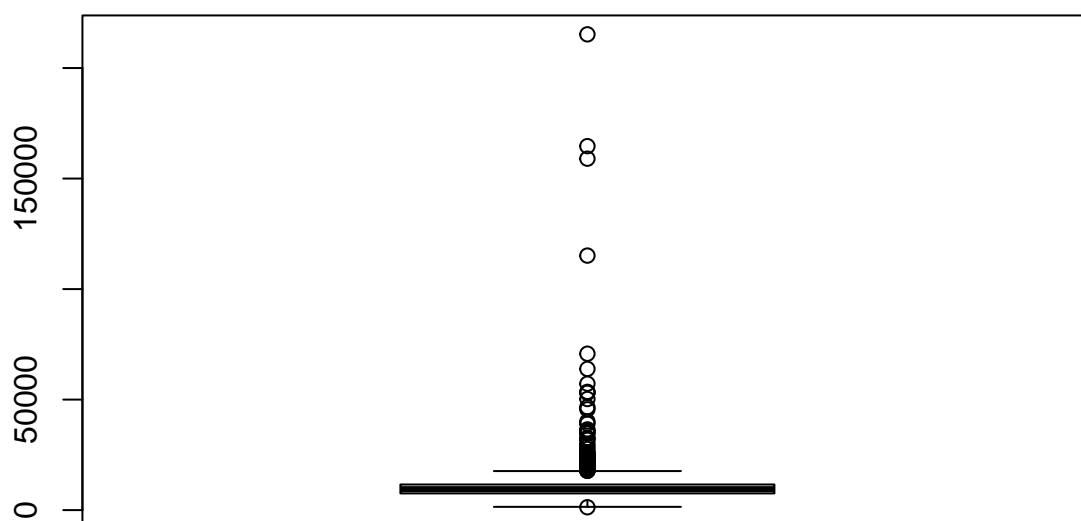


## LotFrontage

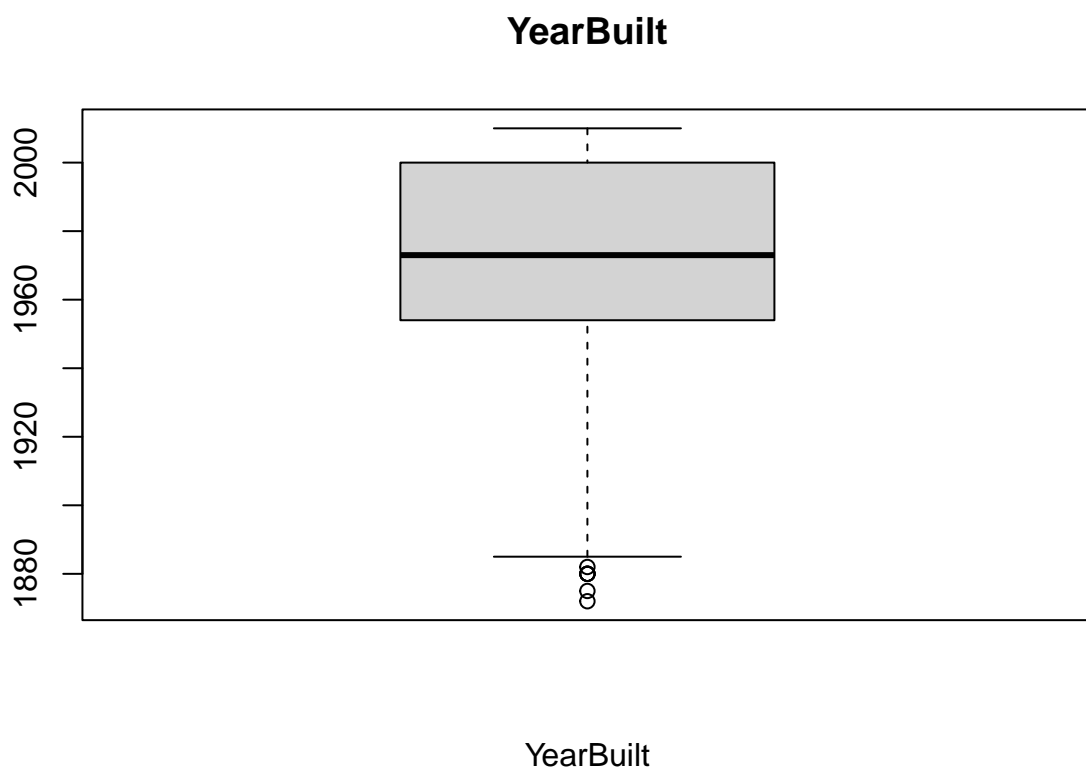


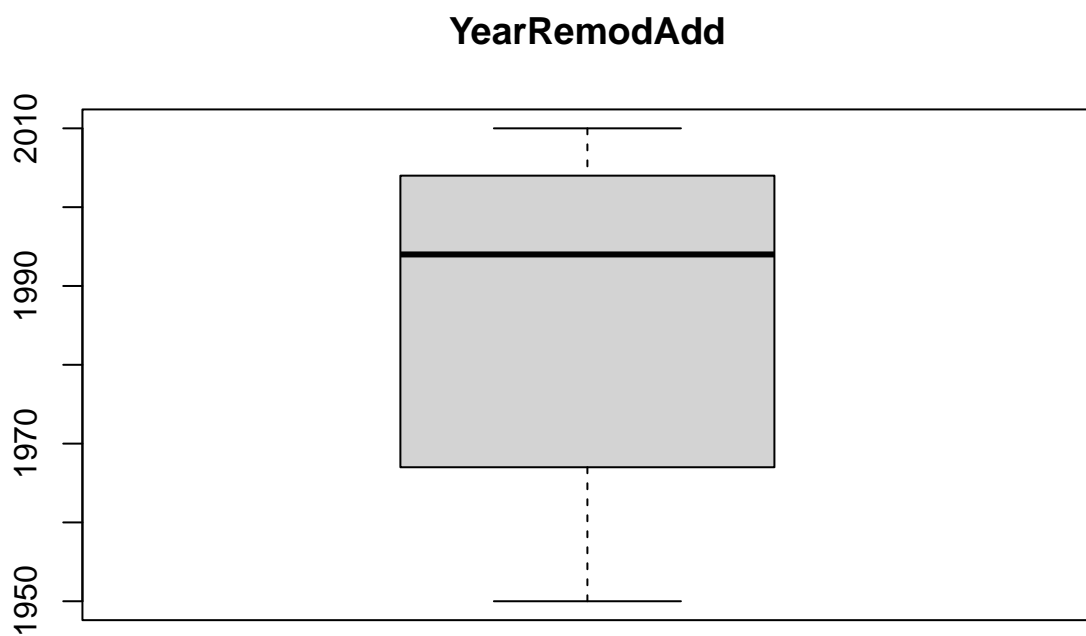
LotFrontage

LotArea



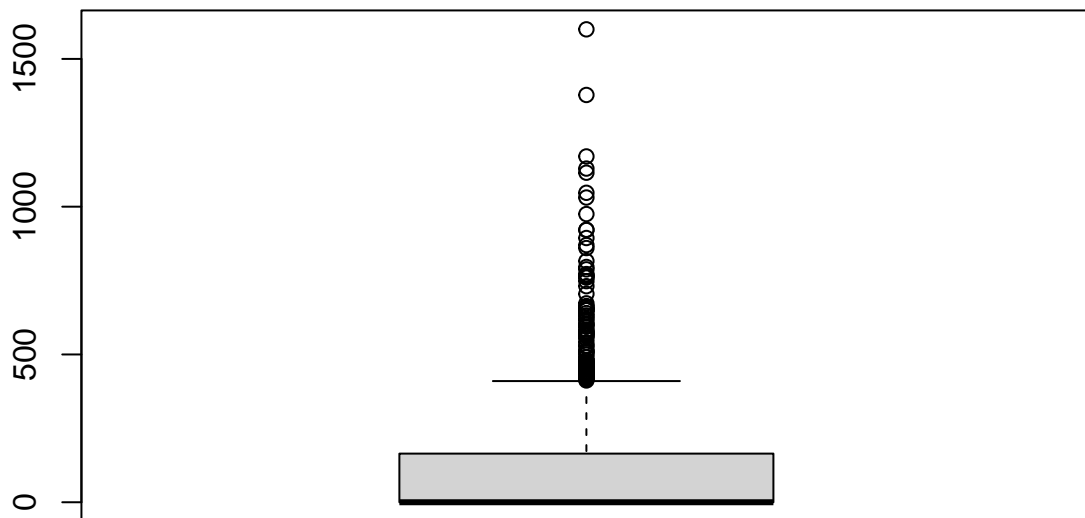
LotArea





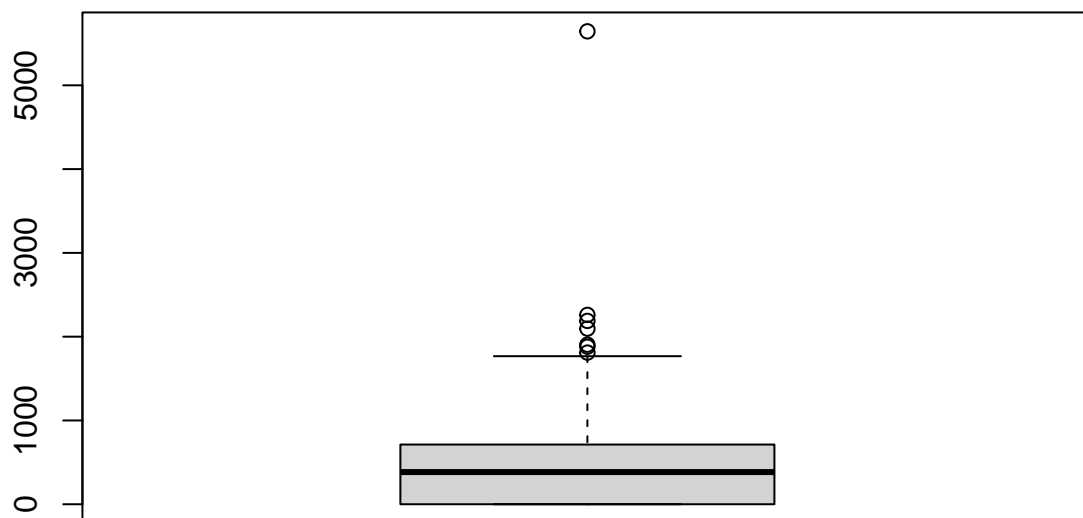
YearRemodAdd

# MasVnrArea



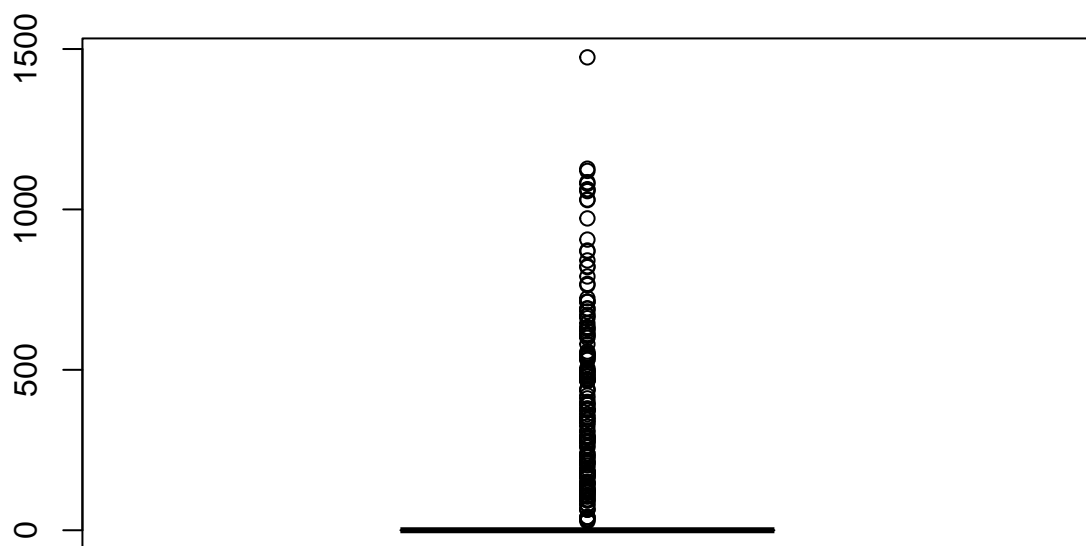
MasVnrArea

# BsmtFinSF1



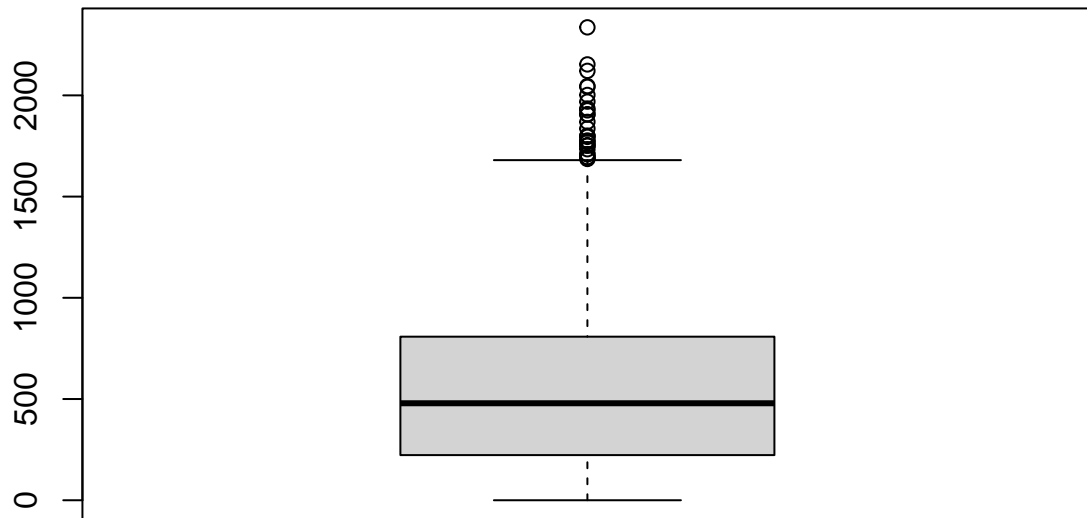
BsmtFinSF1

## BsmtFinSF2



BsmtFinSF2

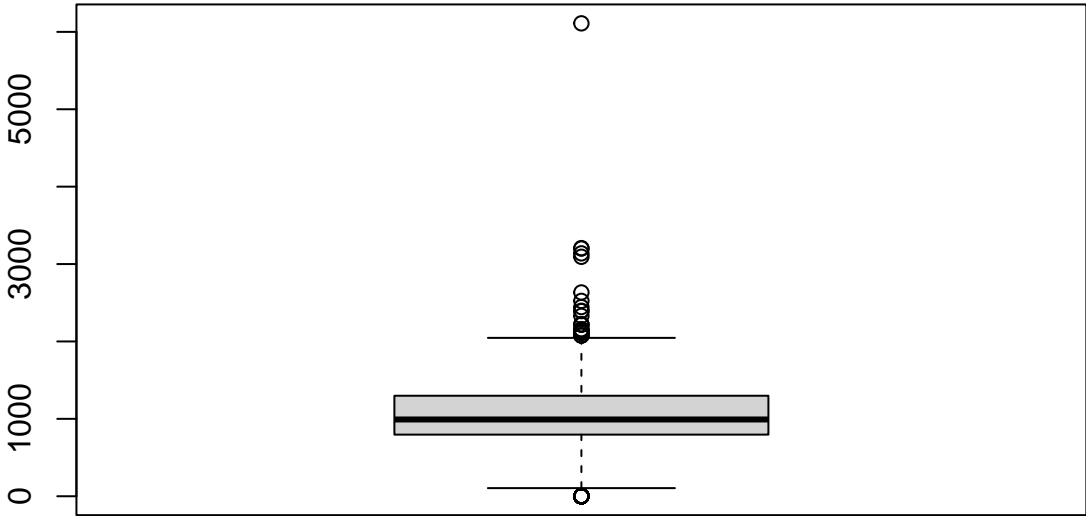
**BsmtUnfSF**



BsmtUnfSF

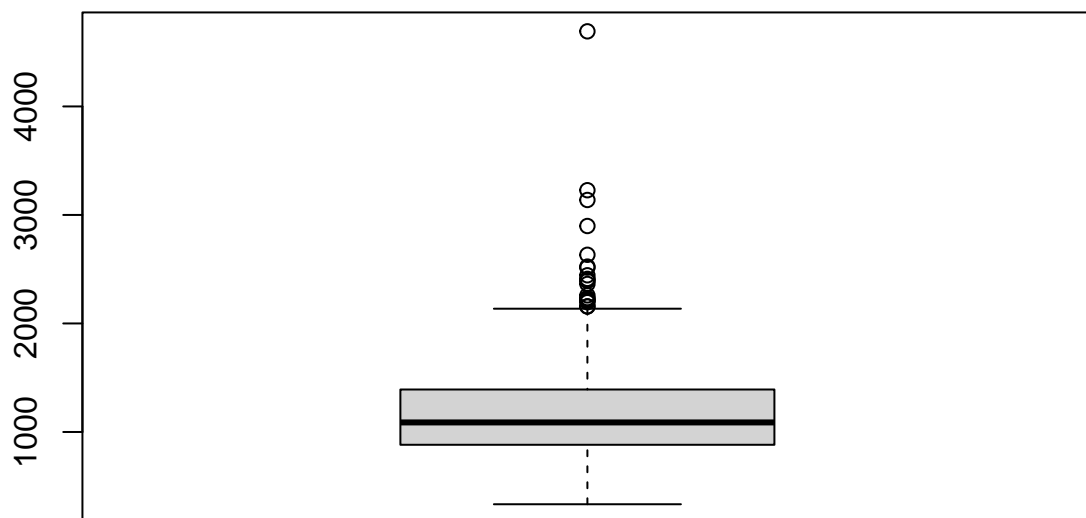


TotalBsmtSF

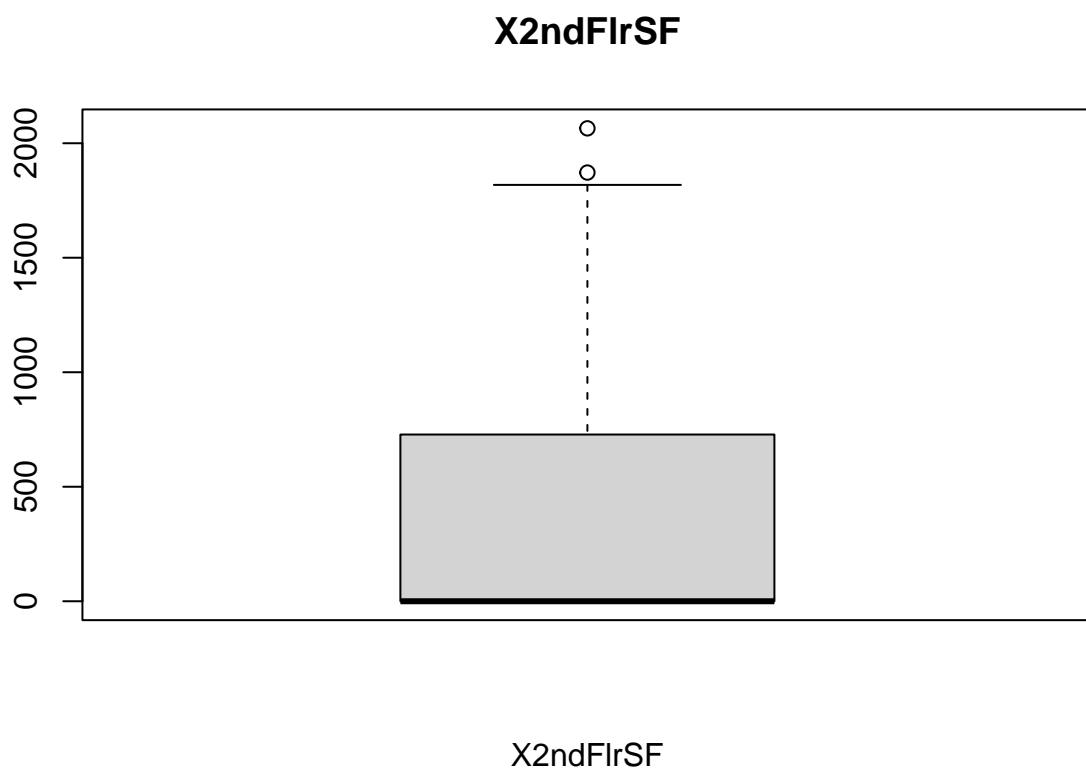


TotalBsmtSF

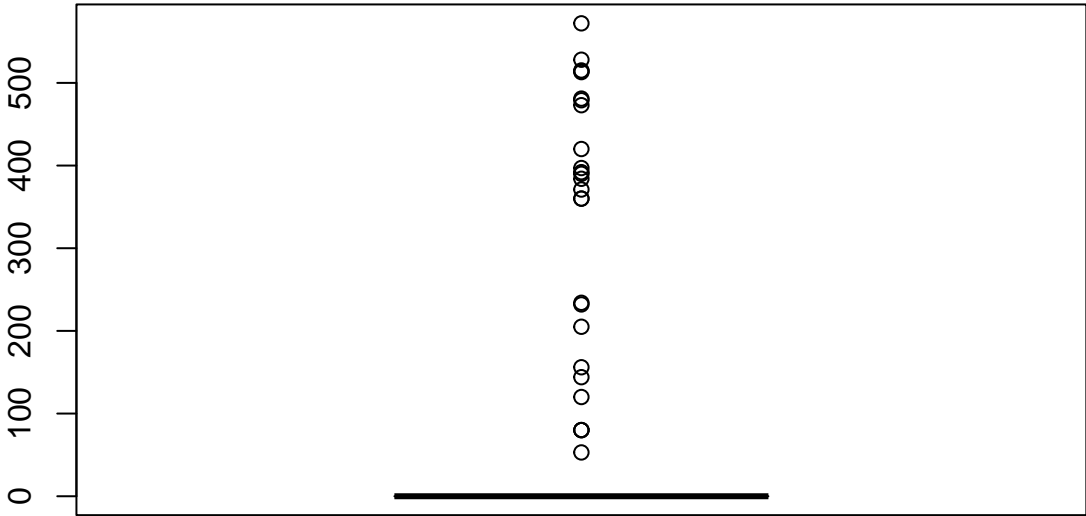
**X1stFlrSF**



X1stFlrSF



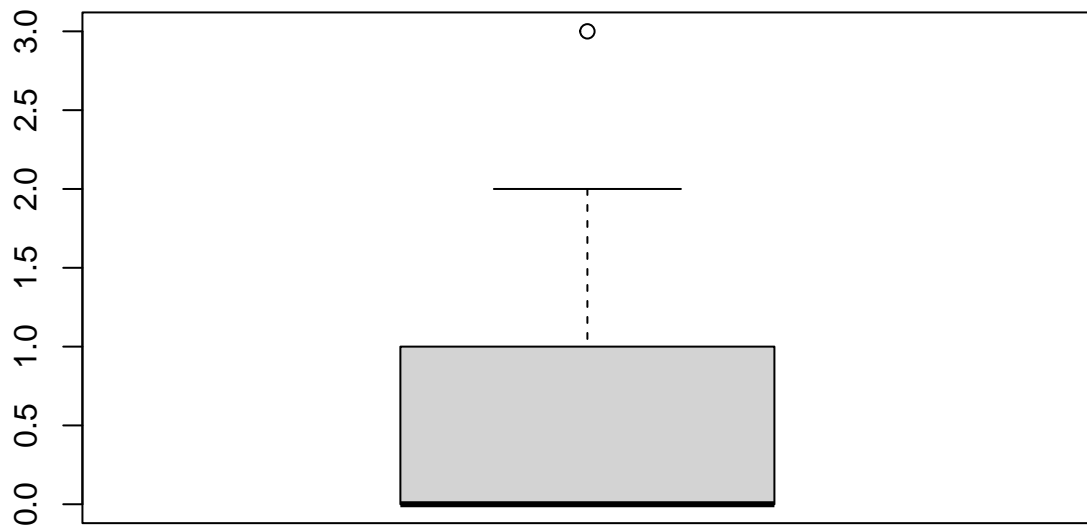
LowQualFinSF



LowQualFinSF

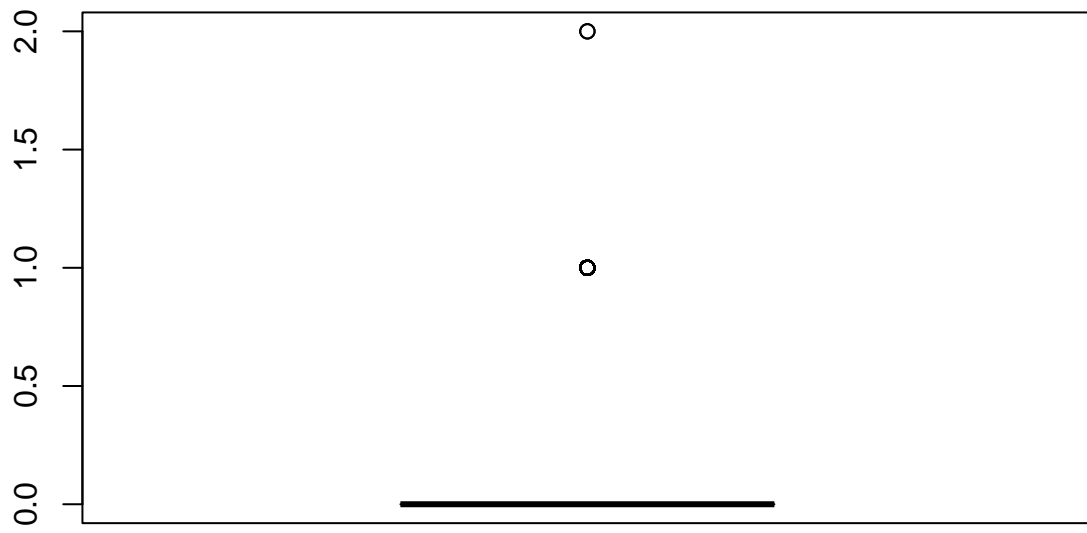


## BsmtFullBath



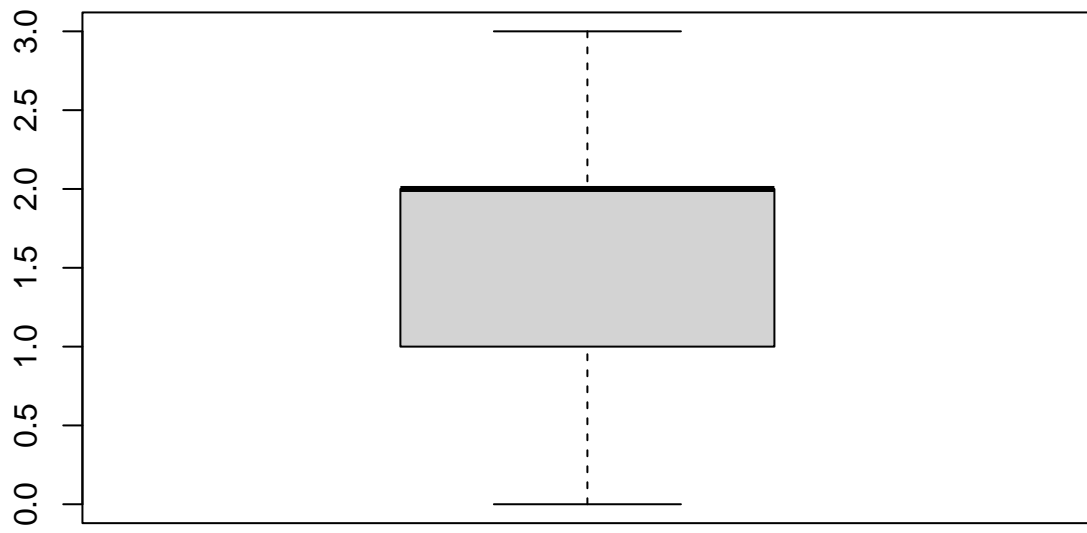
BsmtFullBath

## BsmtHalfBath



BsmtHalfBath

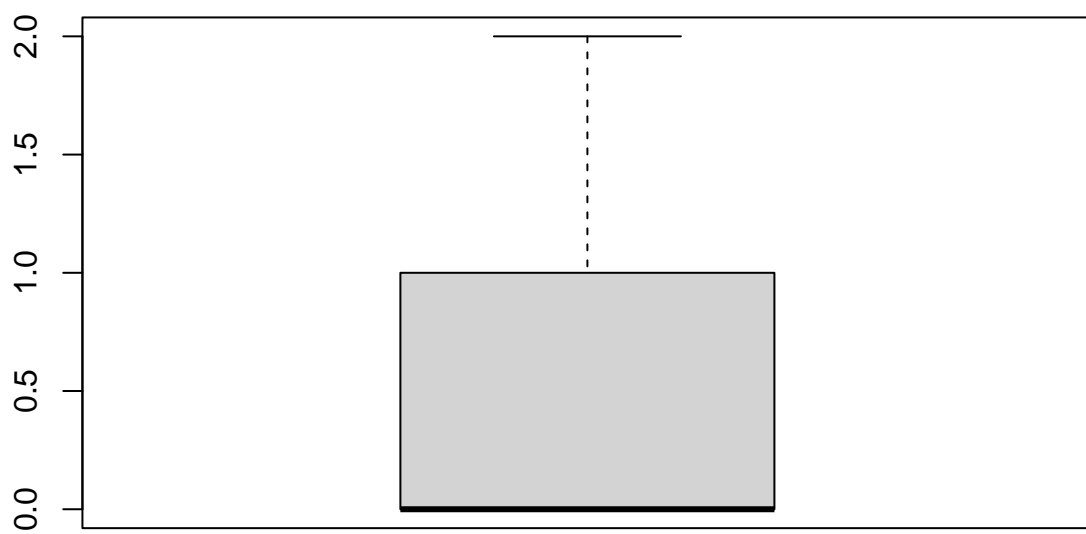
FullBath



FullBath

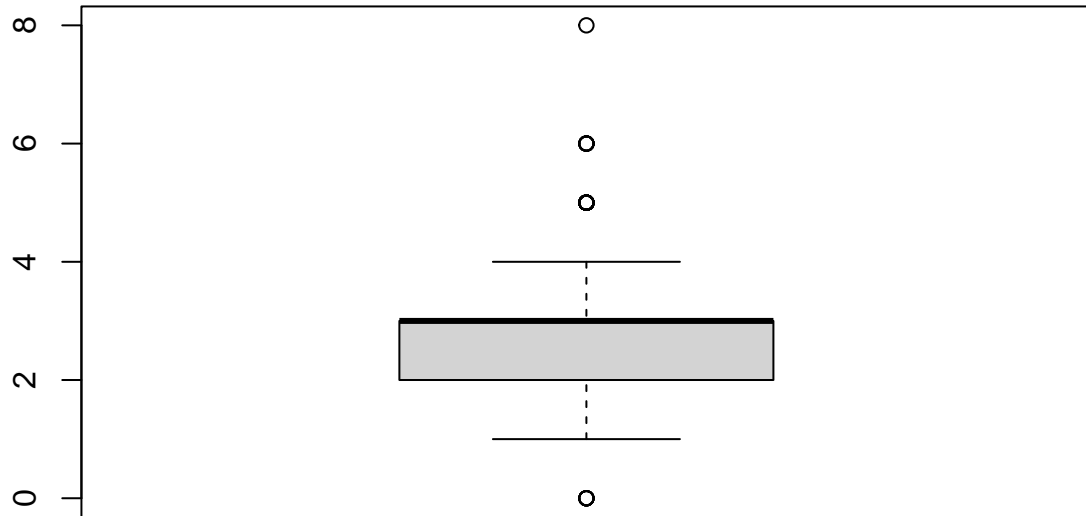


HalfBath



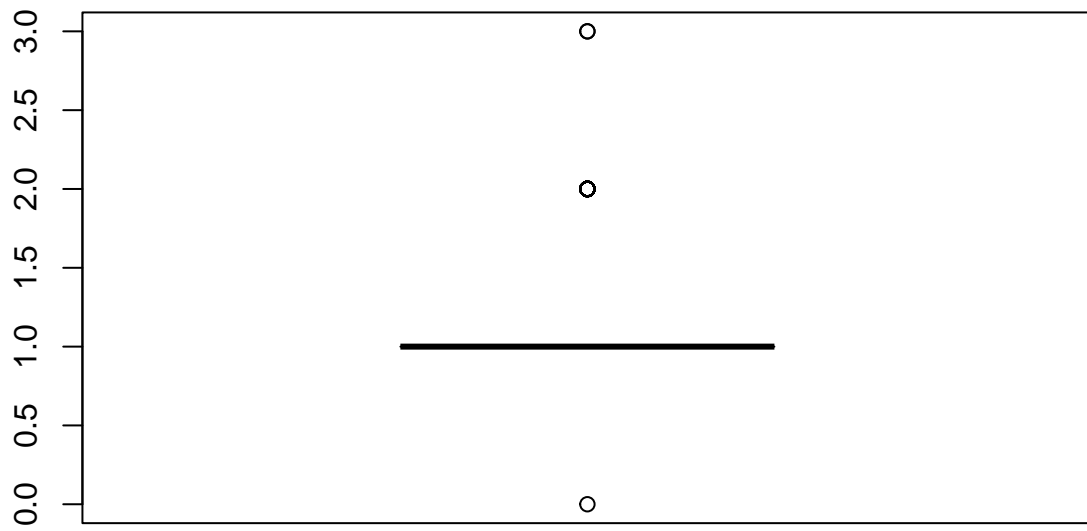
HalfBath

**BedroomAbvGr**



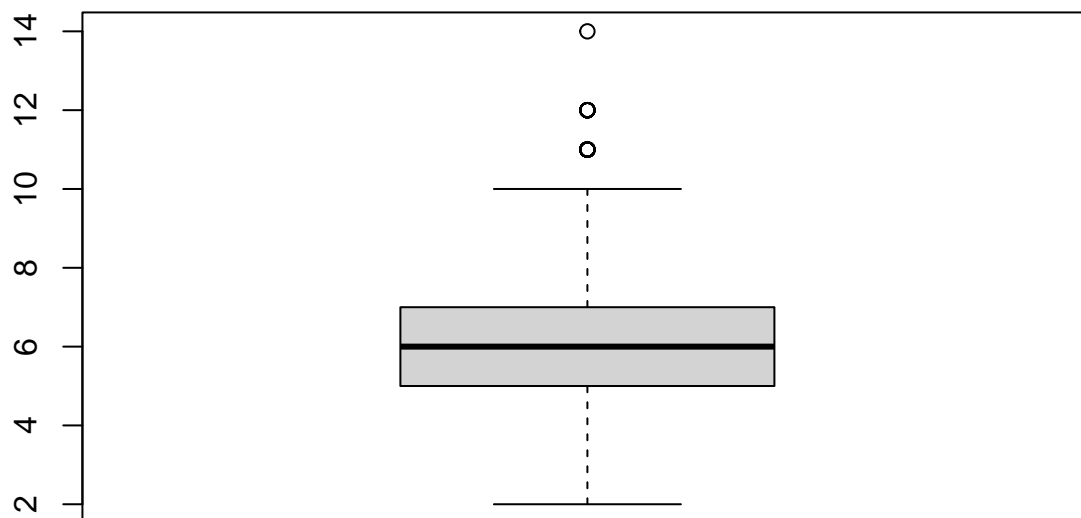
BedroomAbvGr

**KitchenAbvGr**



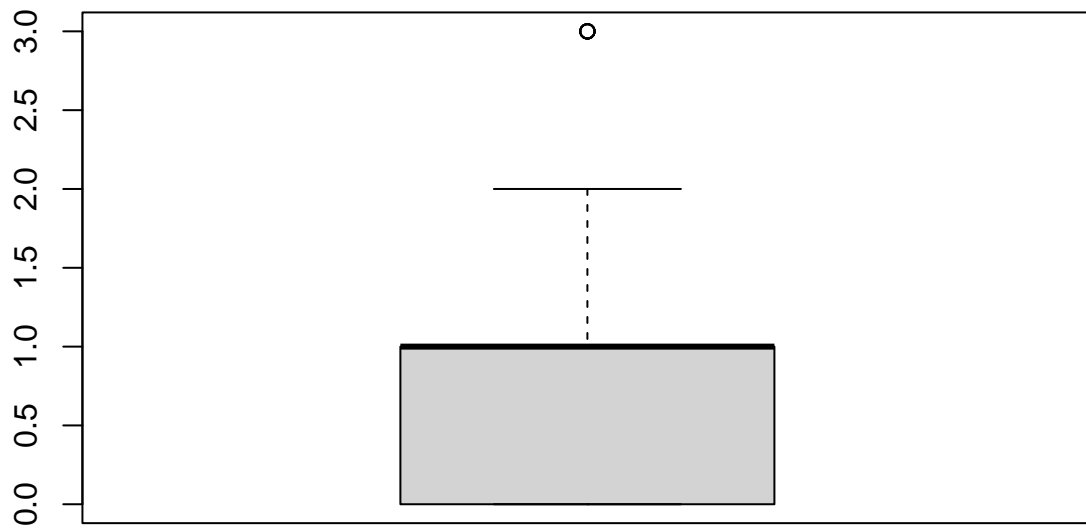
KitchenAbvGr

**TotRmsAbvGrd**



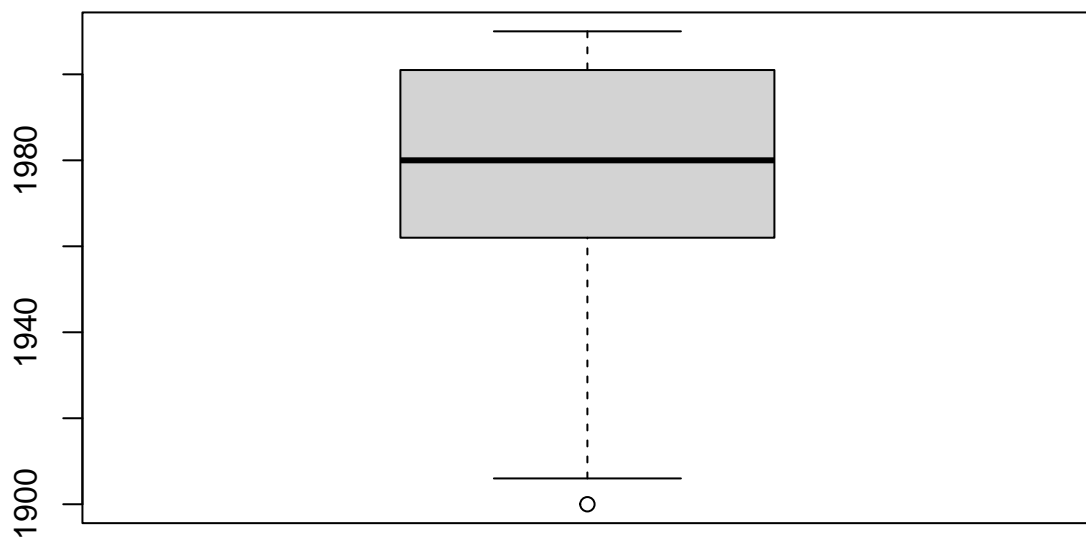
TotRmsAbvGrd

## Fireplaces



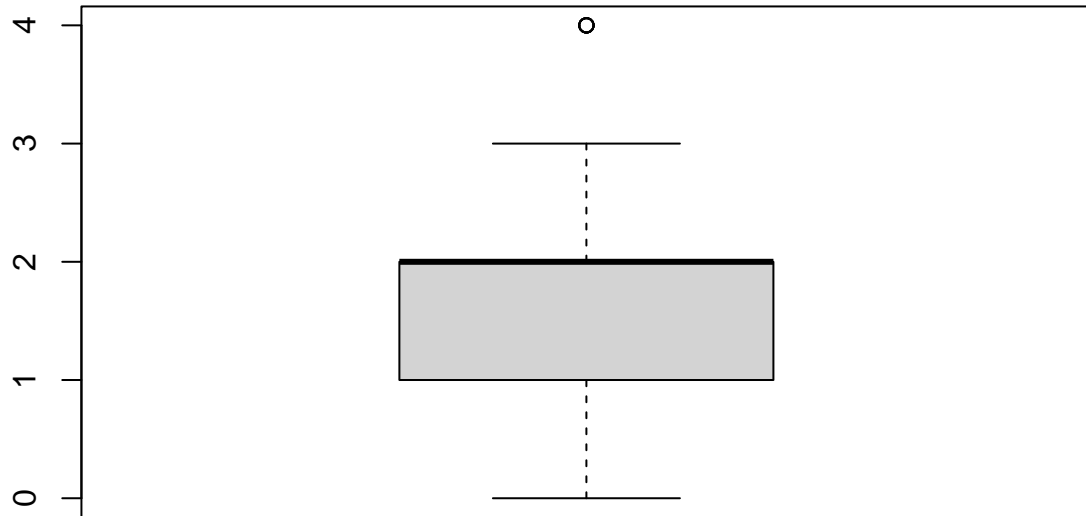
Fireplaces

GarageYrBlt



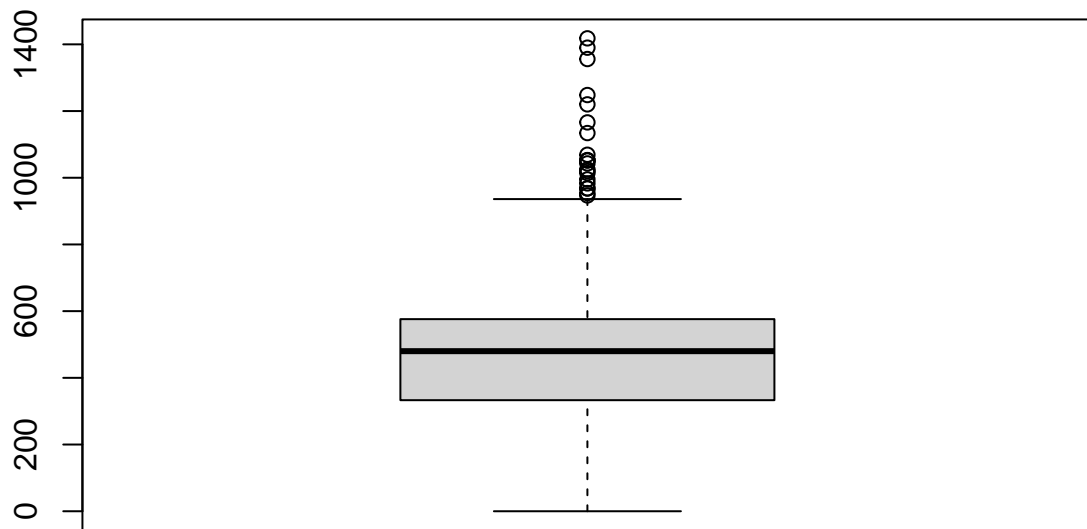
GarageYrBlt

**GarageCars**



GarageCars

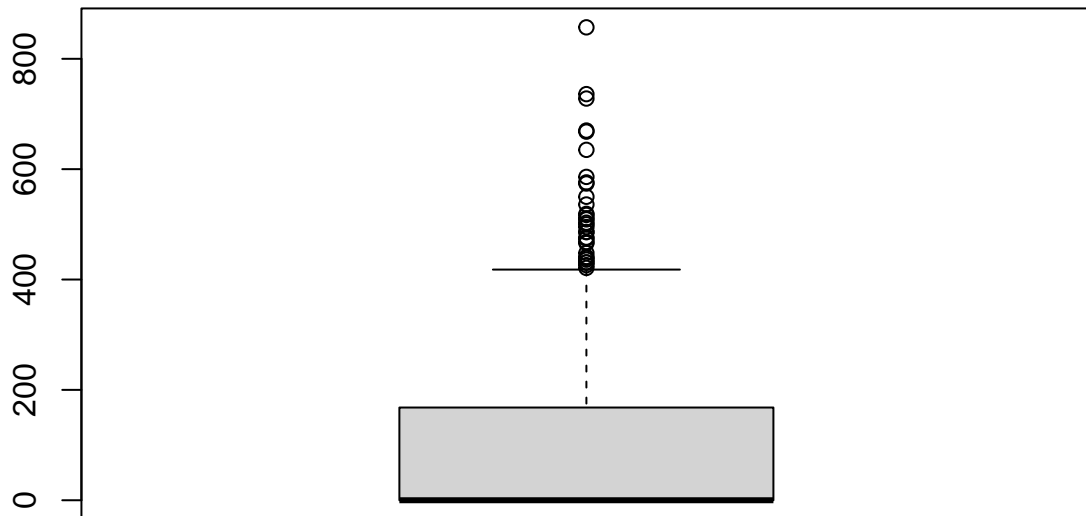
**GarageArea**



GarageArea

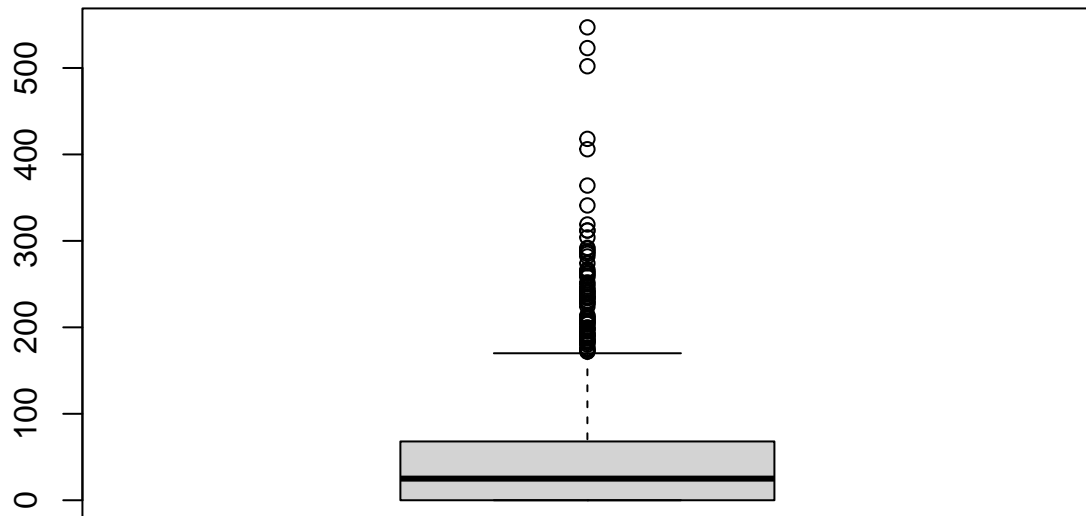


## WoodDeckSF



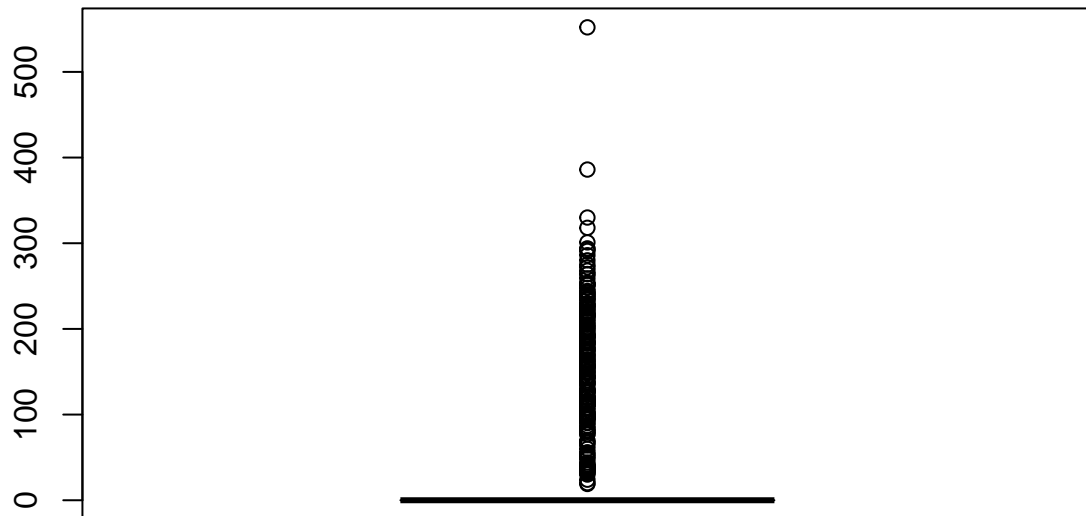
WoodDeckSF

## OpenPorchSF



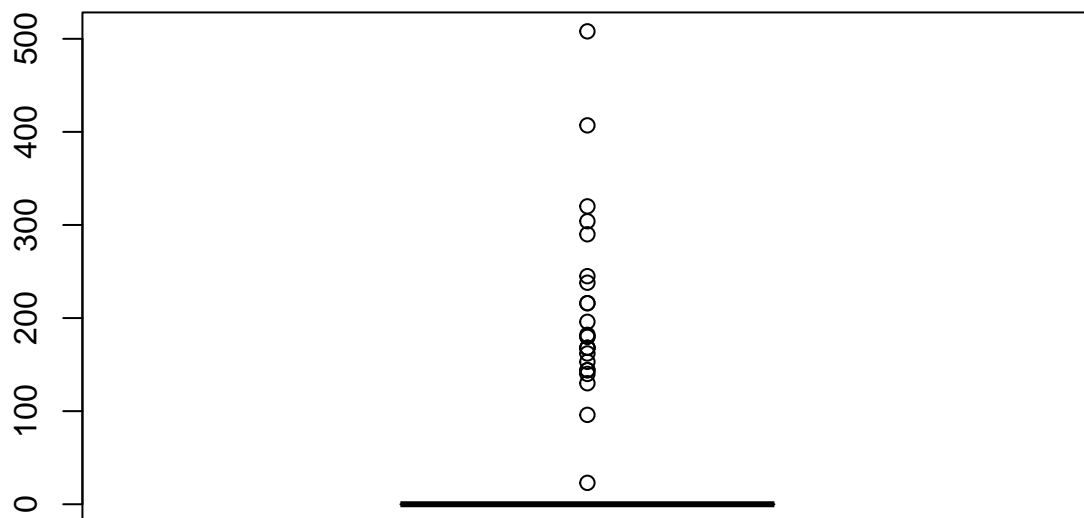
OpenPorchSF

## EnclosedPorch



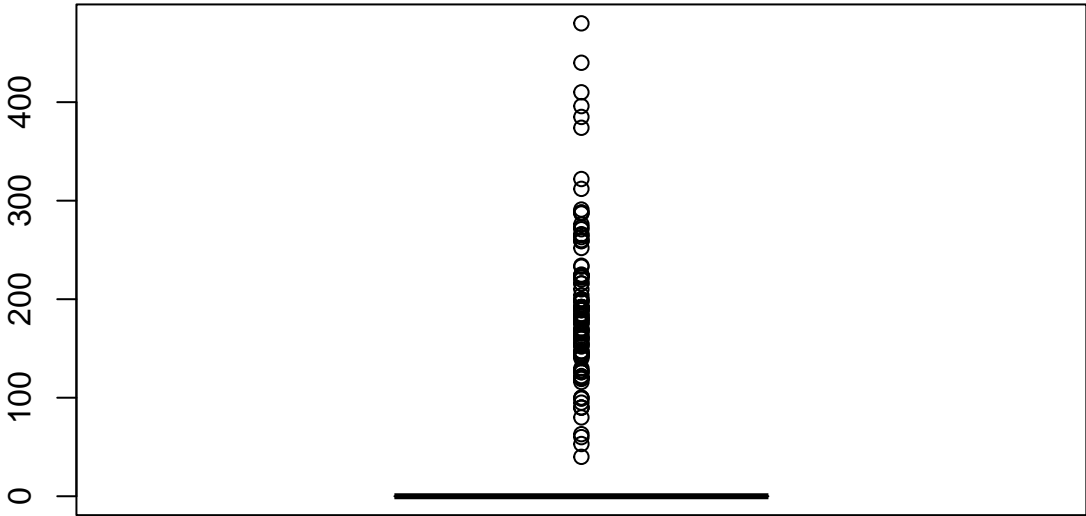
EnclosedPorch

### X3SsnPorch



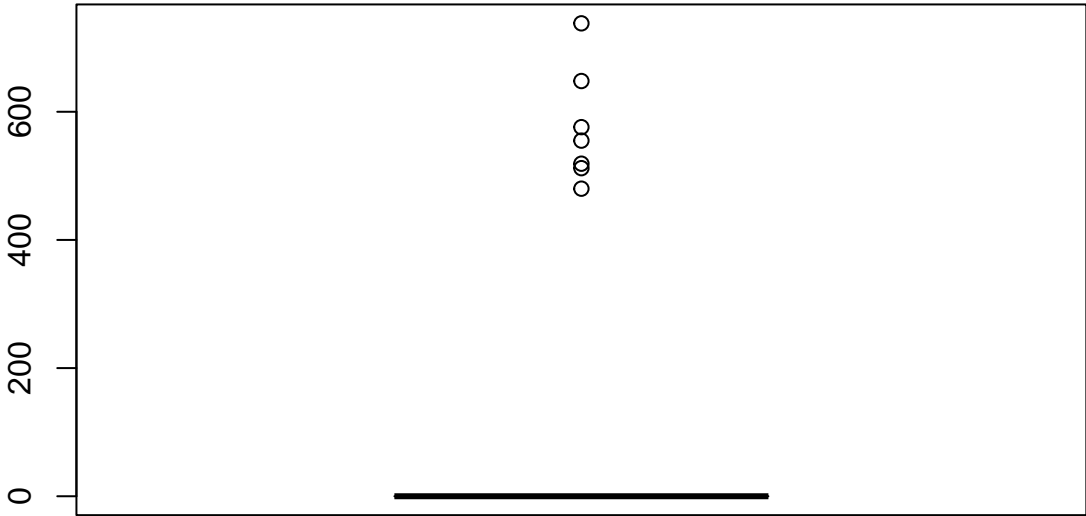
X3SsnPorch

ScreenPorch



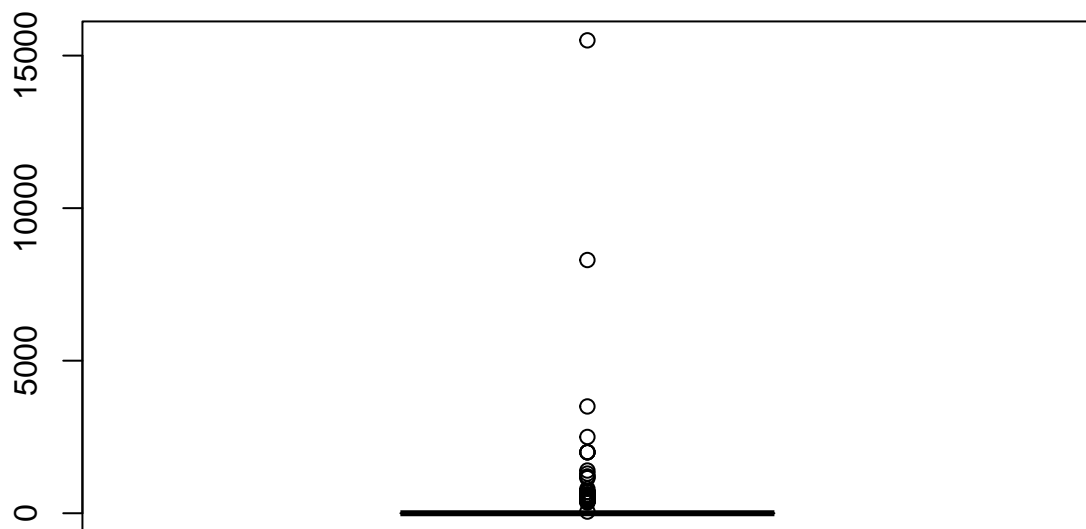
ScreenPorch

PoolArea



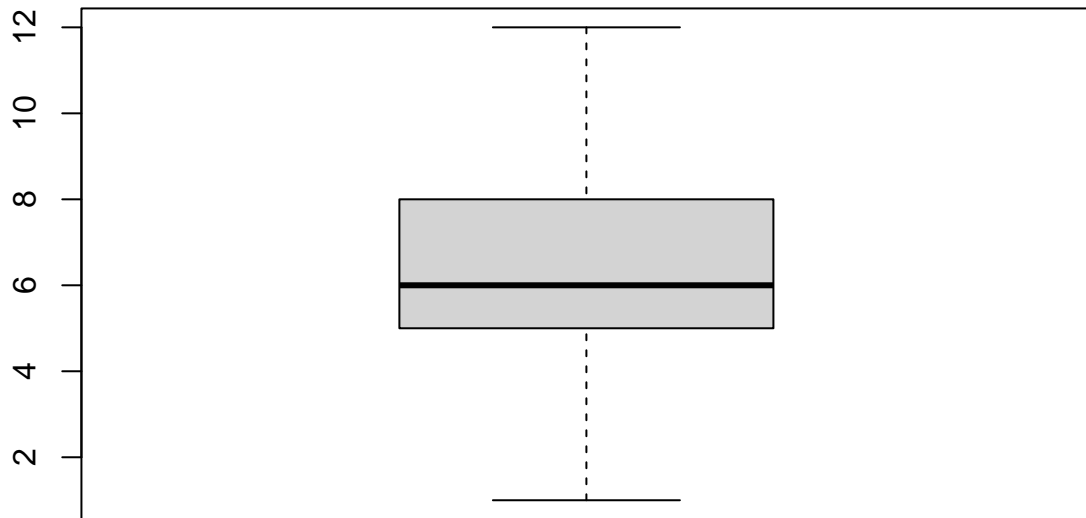
PoolArea

## MiscVal



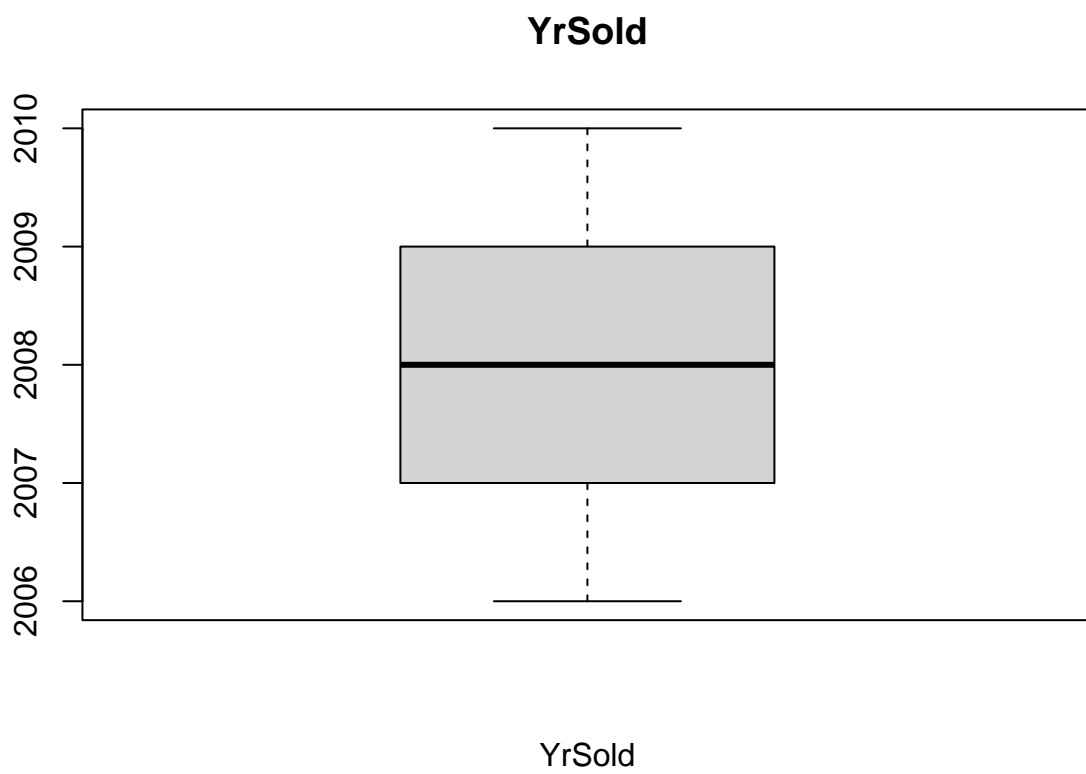
MiscVal

**MoSold**



MoSold







SalePrice

Most of our numerical variables have outliers which we will deal with later

```
summary(train)
```

```
##      MSSubClass      MSZoning      LotFrontage      LotArea      Street
## 20      :536    C (all): 10    Min.   : 21.00    Min.   : 1300    Grvl:   6
## 60      :299    FV      : 65    1st Qu.: 60.00    1st Qu.: 7549    Pave:1453
## 50      :144    RH      : 16    Median : 70.00    Median : 9477
## 120     : 87    RL      :1150    Mean   : 70.04    Mean   : 10517
## 30      : 69    RM      : 218    3rd Qu.: 79.00    3rd Qu.: 11603
## 160     : 63                Max.   :313.00    Max.   :215245
## (Other):261
##           Alley      LotShape LandContour Utilities      LotConfig
## Grvl           : 50    IR1:484   Bnk:   63    AllPub:1458    Corner : 263
## No alley access:1368    IR2: 41   HLS:   50    NoSeWa:   1    CulDSac: 94
## Pave           : 41    IR3: 10   Low:   36                FR2    : 47
##                Reg:924   Lvl:1310                FR3    : 4
##                Inside :1051
##
##
## LandSlope  Neighborhood  Condition1  Condition2  BldgType
## Gtl:1381   Names       :225   Norm      :1259   Norm      :1444   1Fam   :1219
## Mod: 65    CollgCr:150   Feedr    : 81    Feedr     : 6     2fmCon: 31
## Sev: 13    OldTown:113   Artery   : 48    Artery    : 2     Duplex: 52
##           Edwards:100   RRAn     : 26    PosN      : 2     Twnhs  : 43
##           Somerst: 86   PosN     : 19    RRNn      : 2     TwnhsE: 114
```

```

##          Gilbert: 79   RRAe   : 11   PosA   : 1
##          (Other):706   (Other): 15   (Other): 2
##      HouseStyle   OverallQual   OverallCond   YearBuilt   YearRemodAdd
## 1Story :726   5       :396   5       :820   Min.   :1872   Min.   :1950
## 2Story :445   6       :374   6       :252   1st Qu.:1954   1st Qu.:1967
## 1.5Fin :154   7       :319   7       :205   Median :1973   Median :1994
## SLvl   : 64   8       :168   8       : 72   Mean   :1971   Mean   :1985
## SFoyer : 37   4       :116   4       : 57   3rd Qu.:2000   3rd Qu.:2004
## 1.5Unf : 14   9       : 43   3       : 25   Max.   :2010   Max.   :2010
## (Other): 19   (Other): 43   (Other): 28
##      RoofStyle      RoofMatl      Exterior1st   Exterior2nd   MasVnrType
## Flat   : 13   CompShg:1433   VinylSd:514   VinylSd:503   BrkCmn : 15
## Gable  :1140   Tar&Grv: 11   HdBoard:222   MetalSd:214   BrkFace:445
## Gambrel: 11   WdShngl: 6   MetalSd:220   HdBoard:207   None   :871
## Hip    : 286   WdShake: 5   Wd Sdng:206   Wd Sdng:197   Stone  :128
## Mansard: 7   ClyTile: 1   Plywood:108   Plywood:142
## Shed   : 2   Membran: 1   CemntBd: 61   CmentBd: 60
##          (Other): 2   (Other):128   (Other):136
##      MasVnrArea      ExterQual   ExterCond   Foundation      BsmtQual
## Min.   : 0.0   Ex: 52   Ex: 3   BrkTil:146   Ex       :121
## 1st Qu.: 0.0   Fa: 14   Fa: 28   CBlock:634   Fa       : 35
## Median : 0.0   Gd:488   Gd: 146   PConc :646   Gd       :617
## Mean   :103.8   TA:905   Po: 1   Slab : 24   No basement: 37
## 3rd Qu.:164.5           TA:1281   Stone : 6   TA       :649
## Max.   :1600.0           Wood : 3
##
##      BsmtCond      BsmtExposure      BsmtFinType1   BsmtFinSF1
## Fa       : 45   Av       :221   ALQ       :220   Min.   : 0.0
## Gd       : 65   Gd       :134   BLQ       :148   1st Qu.: 0.0
## No basement: 37   Mn       :114   GLQ       :418   Median : 384.0
## Po       : 2   No       :953   LwQ       : 74   Mean   : 443.9
## TA       :1310   No basement: 37   No basement: 37   3rd Qu.: 712.5
##          Rec       :133   Max.   :5644.0
##          Unf       :429
##      BsmtFinType2      BsmtFinSF2      BsmtUnfSF      TotalBsmtSF
## ALQ       : 19   Min.   : 0.00   Min.   : 0.0   Min.   : 0
## BLQ       : 33   1st Qu.: 0.00   1st Qu.: 223.0   1st Qu.: 796
## GLQ       : 14   Median : 0.00   Median : 479.0   Median : 992
## LwQ       : 46   Mean   : 46.58   Mean   : 567.4   Mean   :1058
## No basement: 38   3rd Qu.: 0.00   3rd Qu.: 808.0   3rd Qu.:1298
## Rec       : 54   Max.   :1474.00   Max.   :2336.0   Max.   :6110
## Unf       :1255
##      Heating      HeatingQC   CentralAir   Electrical      X1stFlrSF      X2ndFlrSF
## Floor: 1   Ex:741   N: 95   FuseA: 94   Min.   : 334   Min.   : 0.0
## GasA :1427   Fa: 49   Y:1364   FuseF: 27   1st Qu.: 882   1st Qu.: 0.0
## GasW : 18   Gd:240           FuseP: 3   Median :1088   Median : 0.0
## Grav : 7   Po: 1           Mix : 1   Mean   :1163   Mean   : 346.8
## OthW : 2   TA:428           SBrkr:1334   3rd Qu.:1392   3rd Qu.: 728.0
## Wall : 4           Max.   :4692   Max.   :2065.0
##
##      LowQualFinSF      GrLivArea      BsmtFullBath      BsmtHalfBath
## Min.   : 0.000   Min.   : 334   Min.   :0.0000   Min.   :0.00000
## 1st Qu.: 0.000   1st Qu.:1129   1st Qu.:0.0000   1st Qu.:0.00000
## Median : 0.000   Median :1464   Median :0.0000   Median :0.00000

```

```

## Mean      : 5.848      Mean      :1516      Mean      :0.4256      Mean      :0.05757
## 3rd Qu.: 0.000      3rd Qu.:1778      3rd Qu.:1.0000      3rd Qu.:0.00000
## Max.      :572.000      Max.      :5642      Max.      :3.0000      Max.      :2.00000
##
##      FullBath      HalfBath      BedroomAbvGr      KitchenAbvGr      KitchenQual
## Min.      :0.000      Min.      :0.0000      Min.      :0.000      Min.      :0.000      Ex:100
## 1st Qu.:1.000      1st Qu.:0.0000      1st Qu.:2.000      1st Qu.:1.000      Fa: 39
## Median :2.000      Median :0.0000      Median :3.000      Median :1.000      Gd:585
## Mean      :1.565      Mean      :0.3825      Mean      :2.866      Mean      :1.047      TA:735
## 3rd Qu.:2.000      3rd Qu.:1.0000      3rd Qu.:3.000      3rd Qu.:1.000
## Max.      :3.000      Max.      :2.0000      Max.      :8.000      Max.      :3.000
##
##      TotRmsAbvGrd      Functional      Fireplaces      FireplaceQu
## Min.      : 2.000      Maj1: 14      Min.      :0.0000      Ex      : 24
## 1st Qu.: 5.000      Maj2: 5      1st Qu.:0.0000      Fa      : 33
## Median : 6.000      Min1: 31      Median :1.0000      Gd      :380
## Mean      : 6.517      Min2: 34      Mean      :0.6134      No basement:689
## 3rd Qu.: 7.000      Mod : 15      3rd Qu.:1.0000      Po      : 20
## Max.      :14.000      Sev : 1      Max.      :3.0000      TA      :313
##      Typ :1359
##      GarageType      GarageYrBlt      GarageFinish      GarageCars      GarageArea
## 2Types      : 6      Min.      :1900      Fin      :351      Min.      :0.000      Min.      : 0
## Attchd      :870      1st Qu.:1962      No Garage: 81      1st Qu.:1.000      1st Qu.: 333
## Basment      : 19      Median :1980      RFn      :422      Median :2.000      Median : 480
## BuiltIn      : 87      Mean      :1979      Unf      :605      Mean      :1.767      Mean      : 473
## CarPort      : 9      3rd Qu.:2001      3rd Qu.:2.000      3rd Qu.: 576
## Detchd      :387      Max.      :2010      Max.      :4.000      Max.      :1418
## No Garage: 81
##      GarageQual      GarageCond      PavedDrive      WoodDeckSF      OpenPorchSF
## Ex      : 3      Ex      : 2      N: 90      Min.      : 0.00      Min.      : 0.00
## Fa      : 48      Fa      : 35      P: 30      1st Qu.: 0.00      1st Qu.: 0.00
## Gd      : 14      Gd      : 9      Y:1339      Median : 0.00      Median : 25.00
## No Garage: 81      No Garage: 81      Mean      : 94.24      Mean      : 46.69
## Po      : 3      Po      : 7      3rd Qu.:168.00      3rd Qu.: 68.00
## TA      :1310      TA      :1325      Max.      :857.00      Max.      :547.00
##
##      EnclosedPorch      X3SsnPorch      ScreenPorch      PoolArea
## Min.      : 0.00      Min.      : 0.000      Min.      : 0.00      Min.      : 0.000
## 1st Qu.: 0.00      1st Qu.: 0.000      1st Qu.: 0.00      1st Qu.: 0.000
## Median : 0.00      Median : 0.000      Median : 0.00      Median : 0.000
## Mean      : 21.97      Mean      : 3.412      Mean      : 15.07      Mean      : 2.761
## 3rd Qu.: 0.00      3rd Qu.: 0.000      3rd Qu.: 0.00      3rd Qu.: 0.000
## Max.      :552.00      Max.      :508.000      Max.      :480.00      Max.      :738.000
##
##      PoolQC      Fence      MiscFeature      MiscVal      MoSold
## Ex      : 2      GdPrv      : 59      Gar2: 2      Min.      : 0.00      Min.      : 1.000
## Fa      : 2      GdWo      : 54      None:1405      1st Qu.: 0.00      1st Qu.: 5.000
## Gd      : 3      MnPrv      : 157      Othr: 2      Median : 0.00      Median : 6.000
## No Pool:1452      MnWw      : 11      Shed: 49      Mean      : 43.52      Mean      : 6.323
##      No Fence:1178      TenC: 1      3rd Qu.: 0.00      3rd Qu.: 8.000
##      Max.      :15500.00      Max.      :12.000
##
##      YrSold      SaleType      SaleCondition      SalePrice
## Min.      :2006      WD      :1266      Abnorml: 101      Min.      : 34900

```

```
## 1st Qu.:2007   New      : 122   AdjLand: 4   1st Qu.:129950
## Median :2008   COD      : 43   Alloca : 12   Median :163000
## Mean   :2008   ConLD   : 9   Family : 20   Mean   :180930
## 3rd Qu.:2009   ConLI   : 5   Normal :1197  3rd Qu.:214000
## Max.   :2010   ConLw   : 5   Partial:125   Max.   :755000
##                               (Other): 9
```

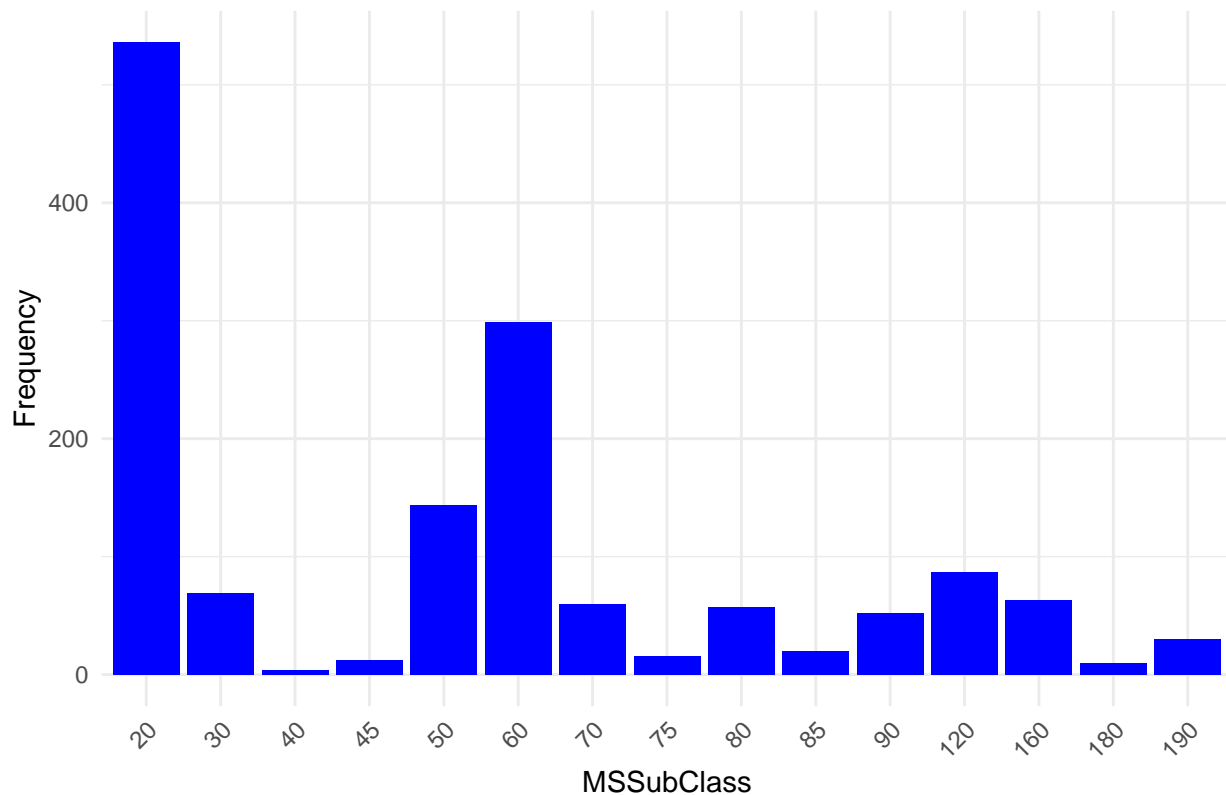
- Categorical Variables

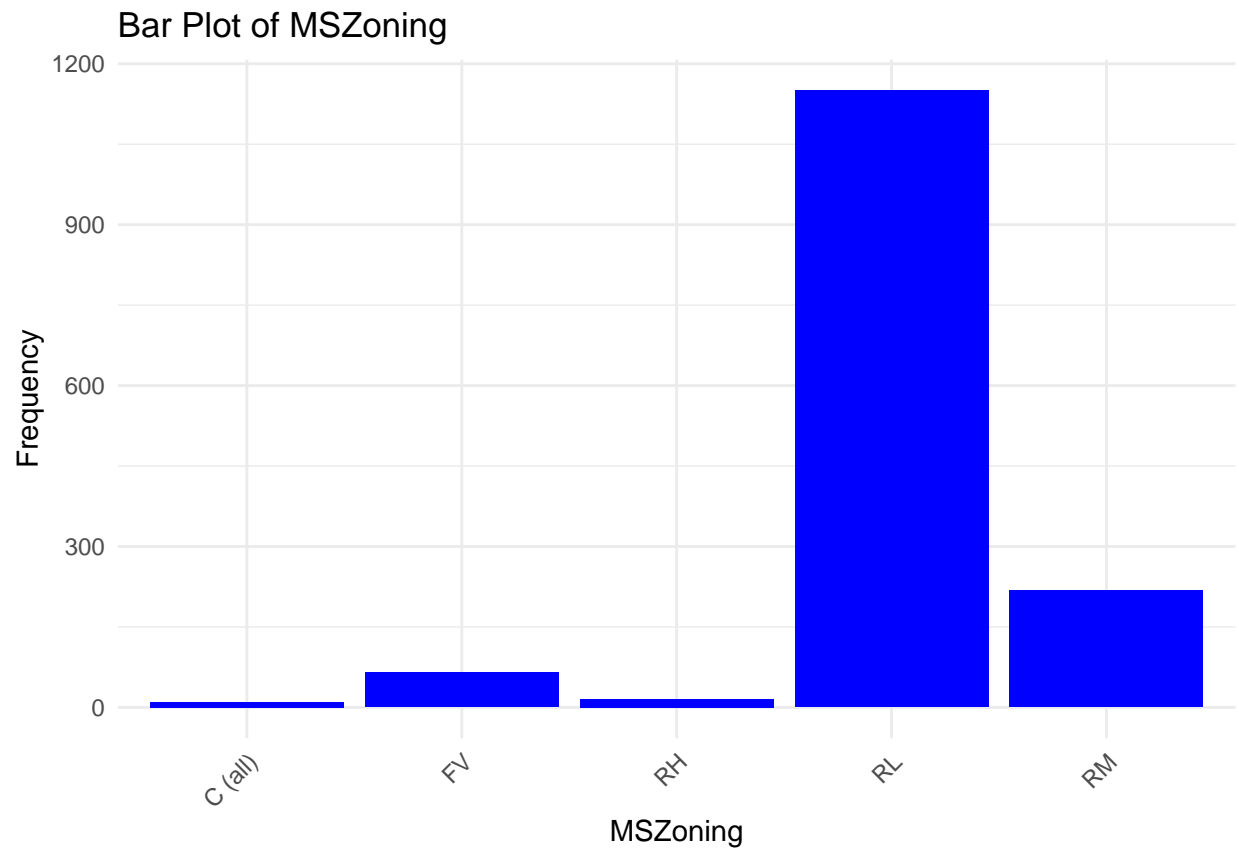
```
cat_c <- names(train)[sapply(train, is.factor)]

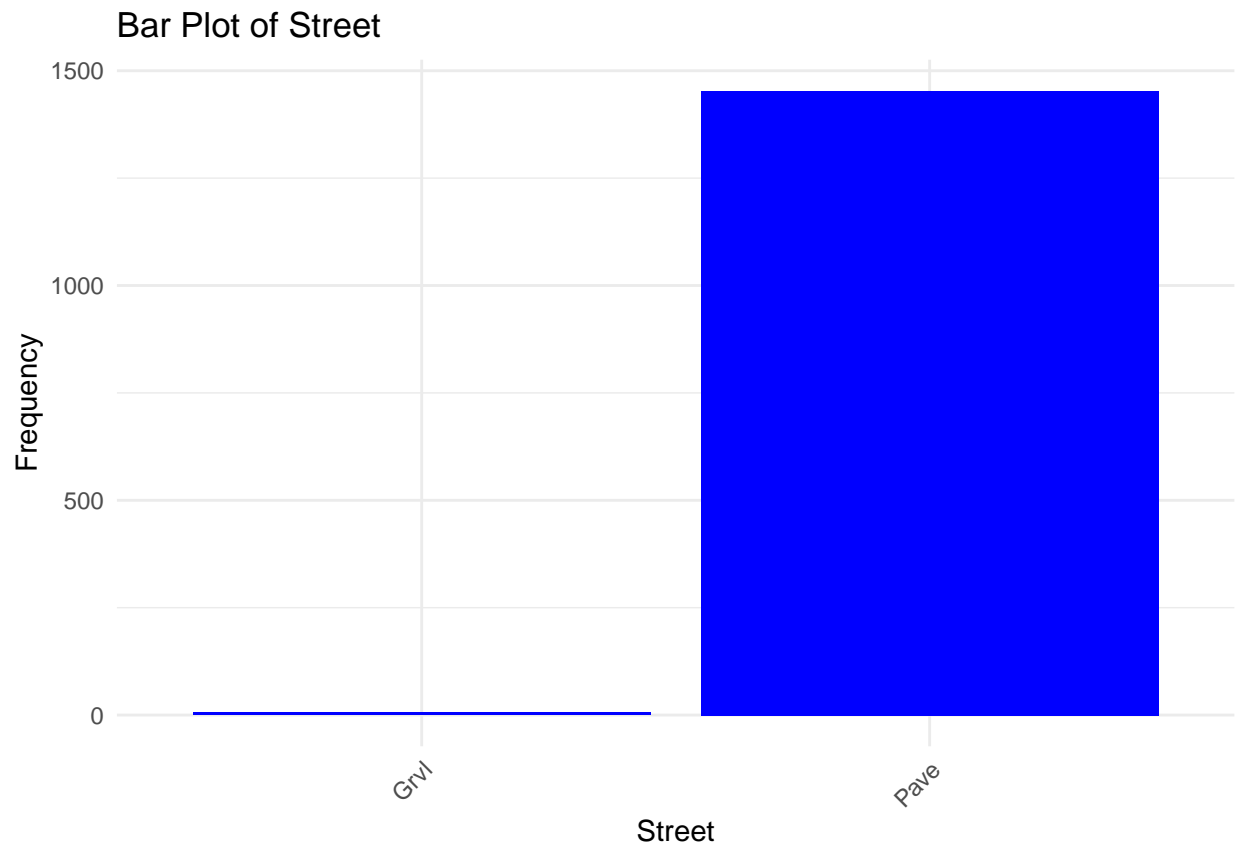
# Create barplot for each categorical variable in the dataset
for(col in cat_c) {
  bars <- ggplot(train, aes(x = train[[col]])) +
    geom_bar(fill = "blue") +
    labs(title = paste("Bar Plot of", col), x = col, y = "Frequency") +
    theme_minimal() +
    theme(axis.text.x = element_text(angle = 45, hjust = 1))

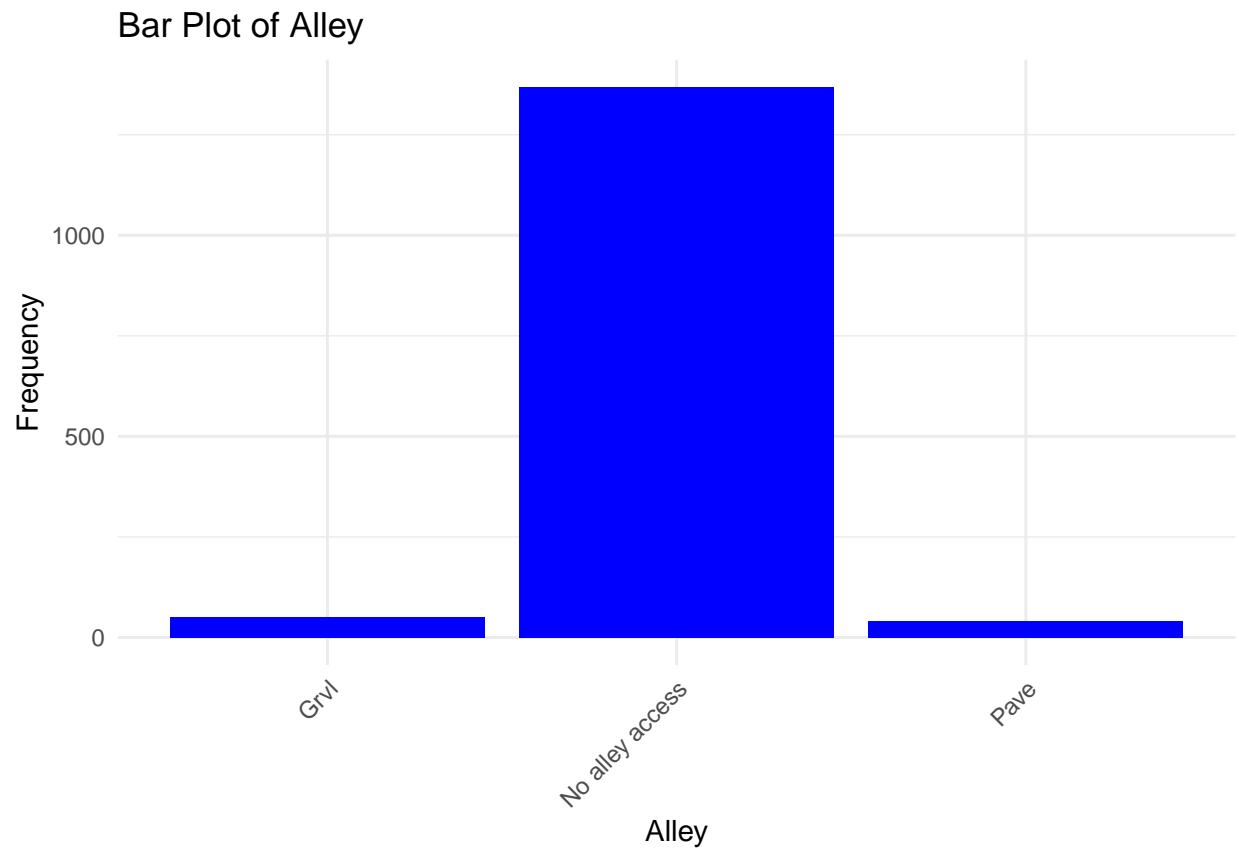
  print(bars)
}
```

Bar Plot of MSSubClass

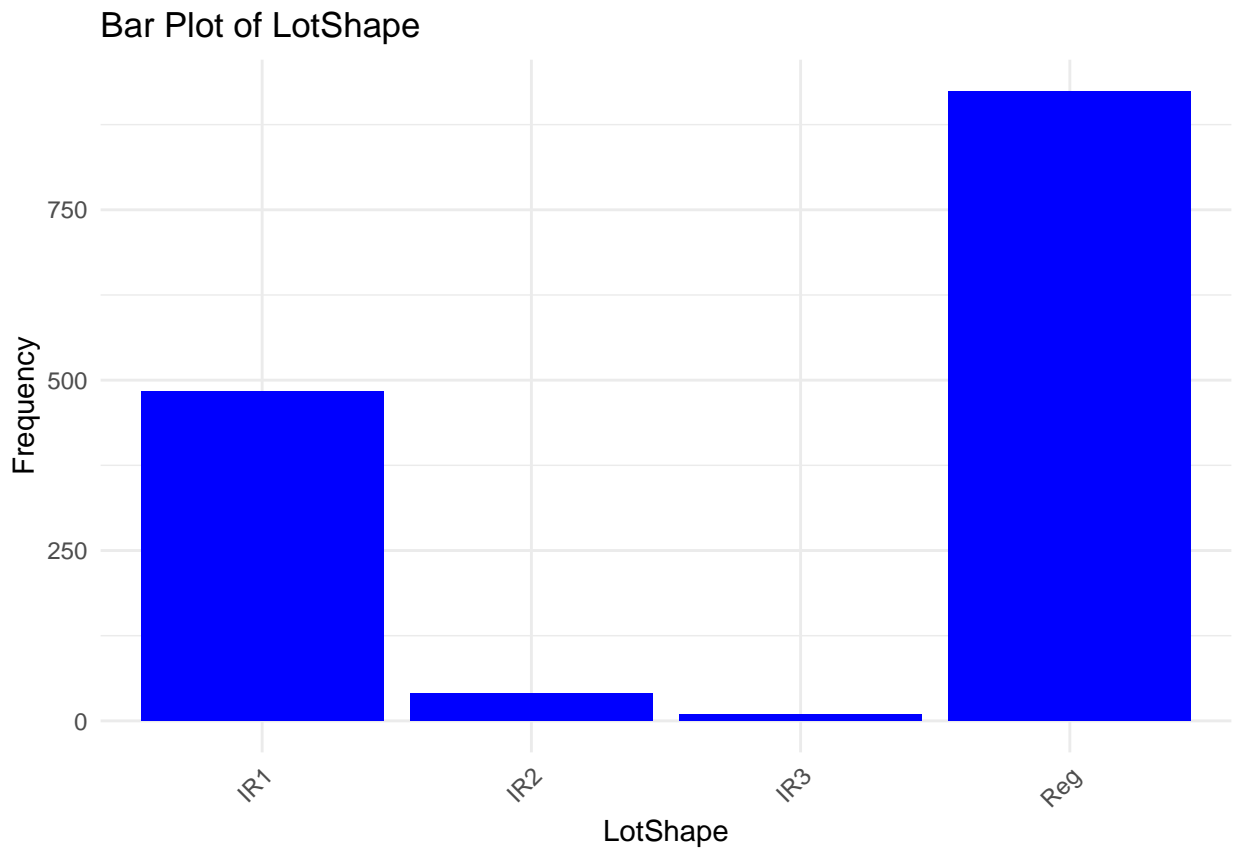


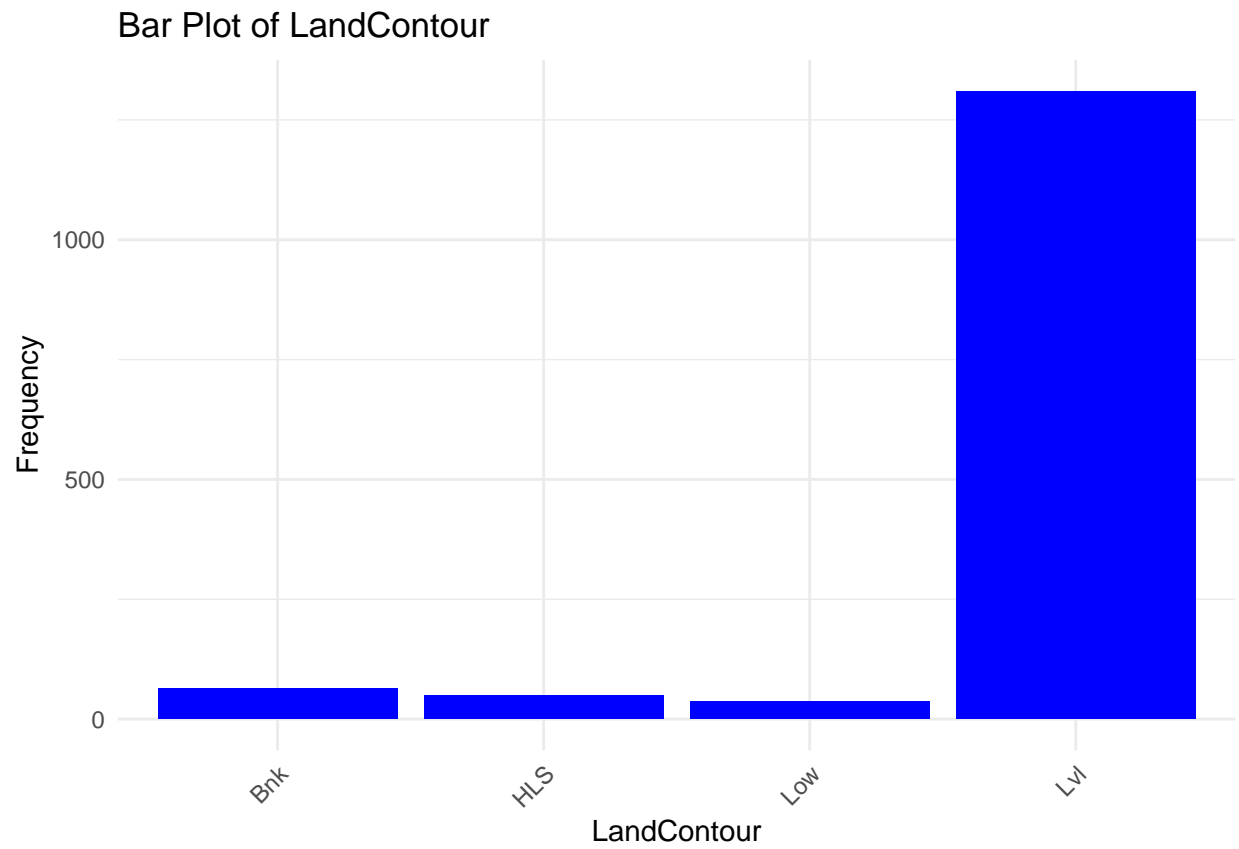


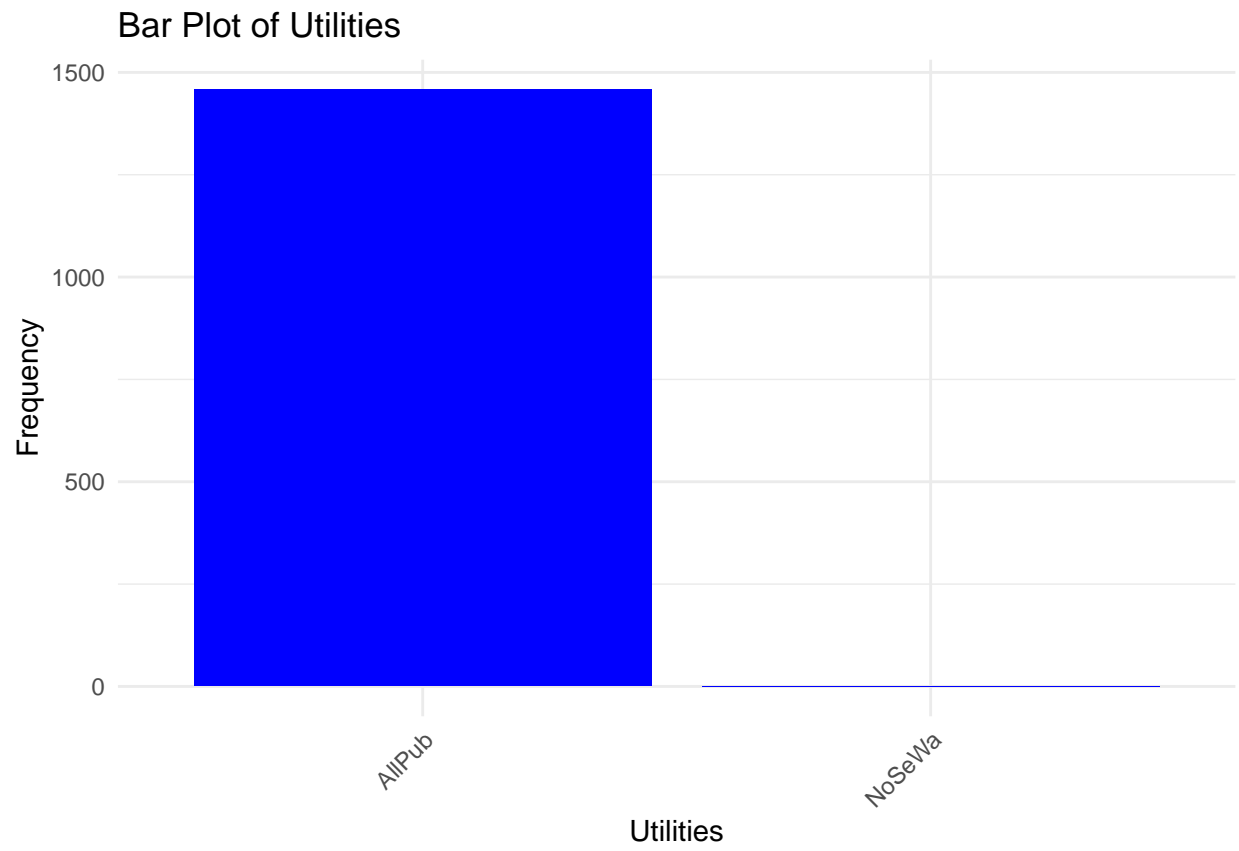


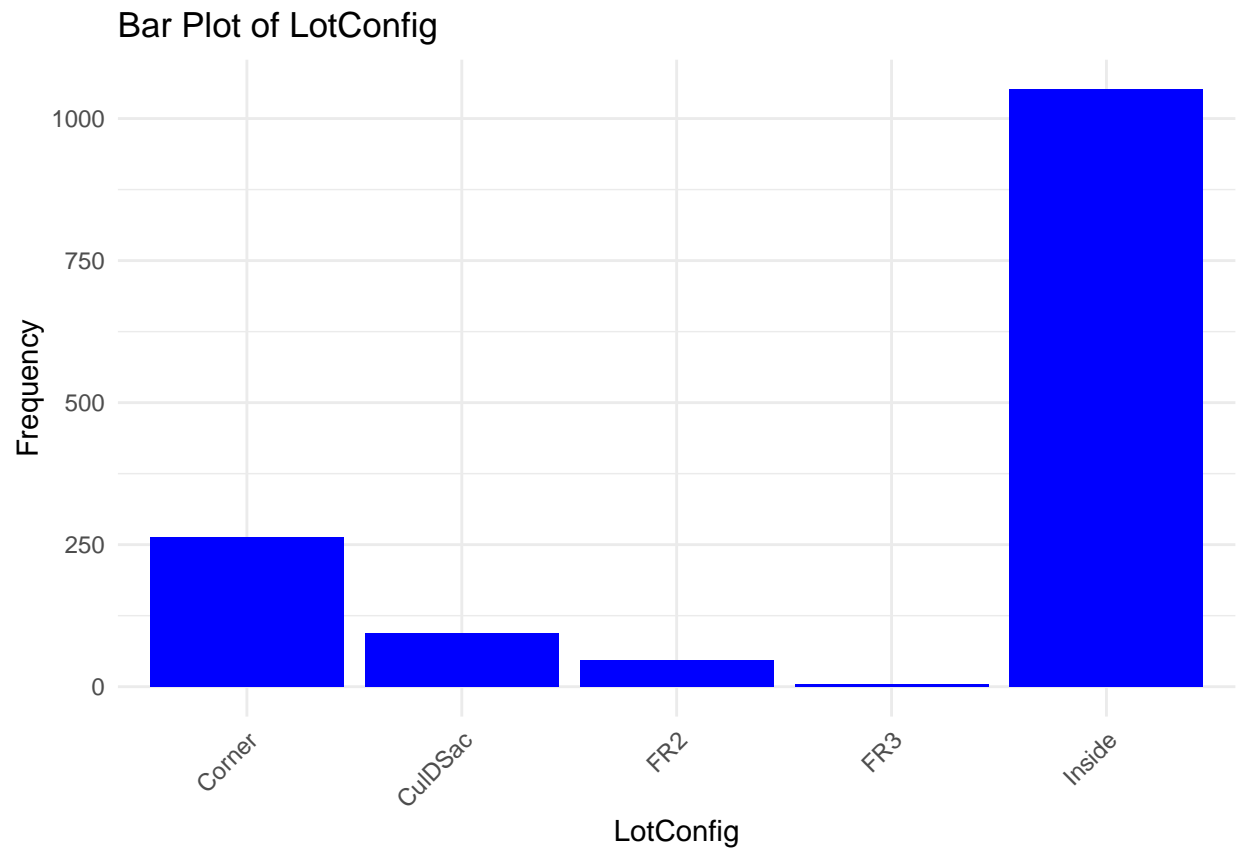


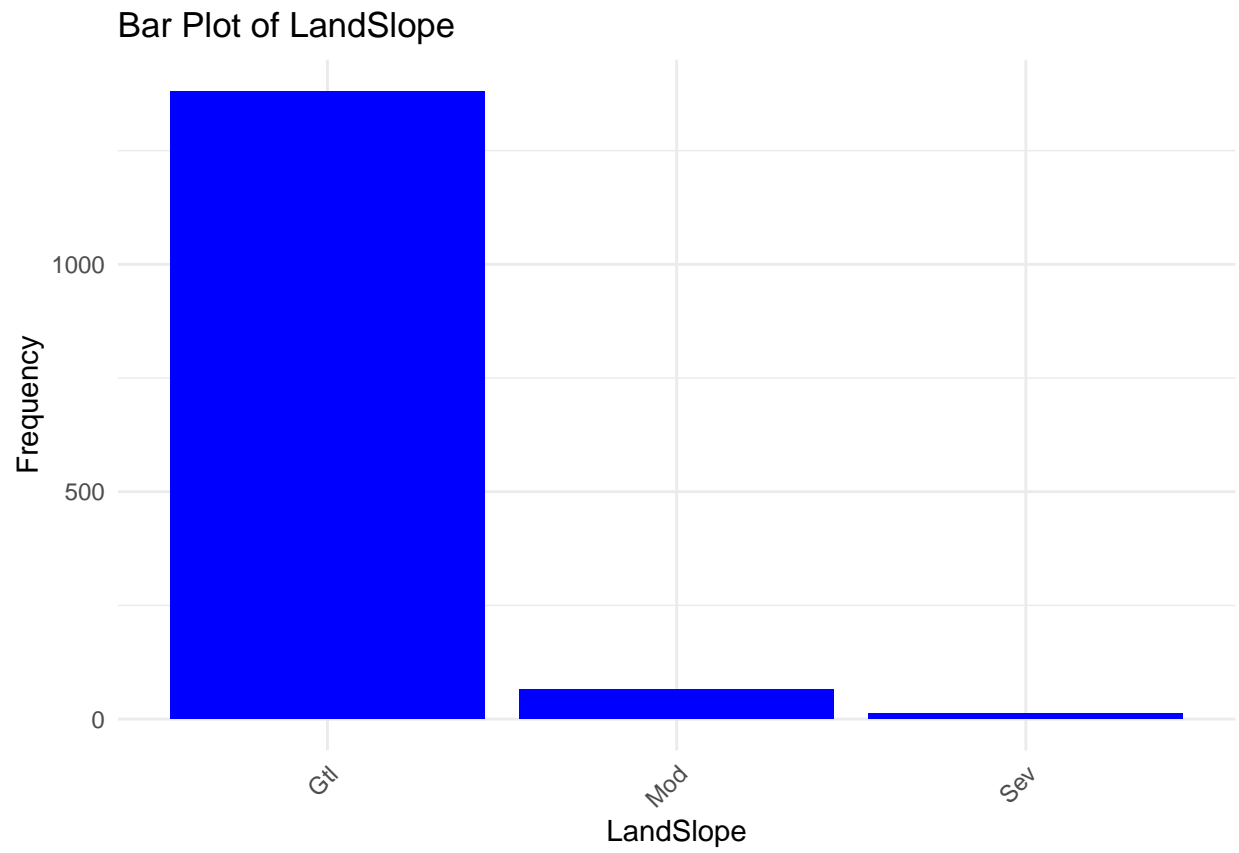


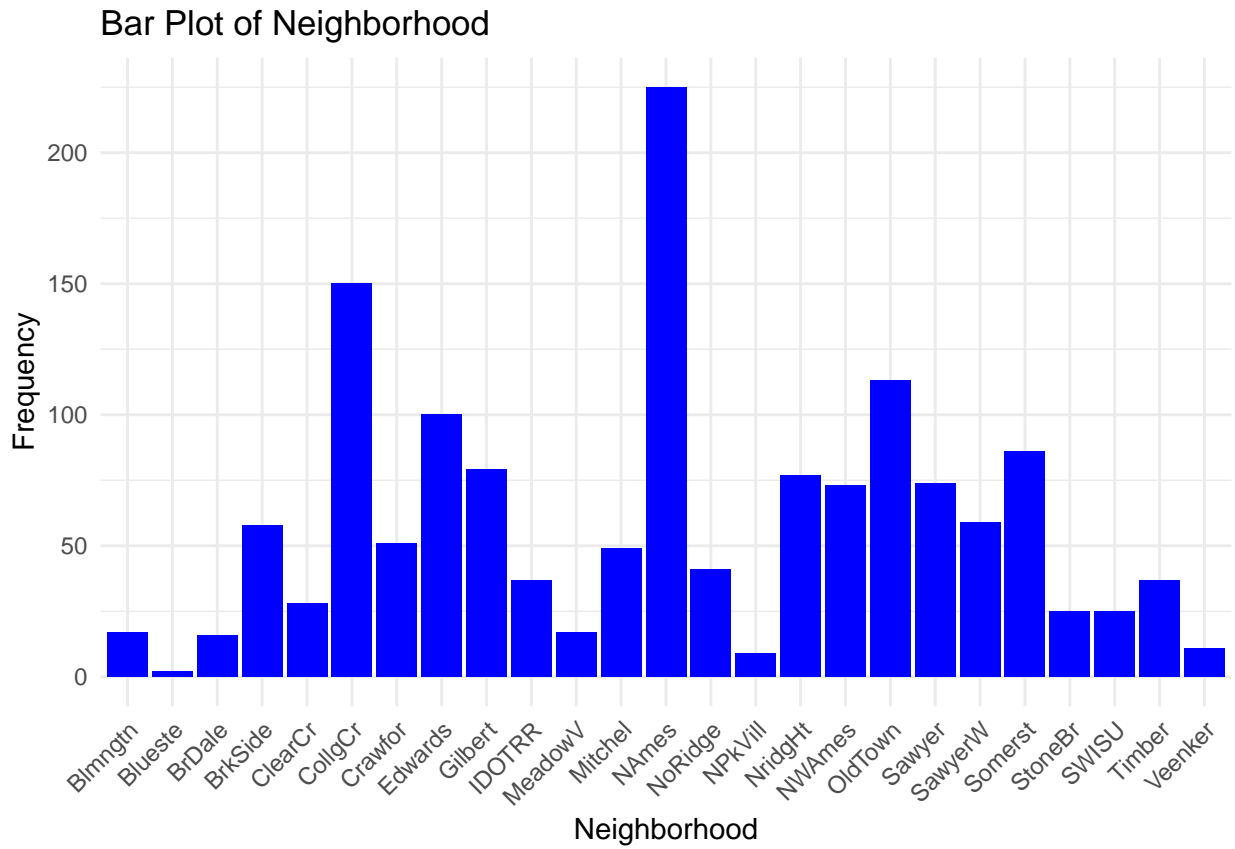


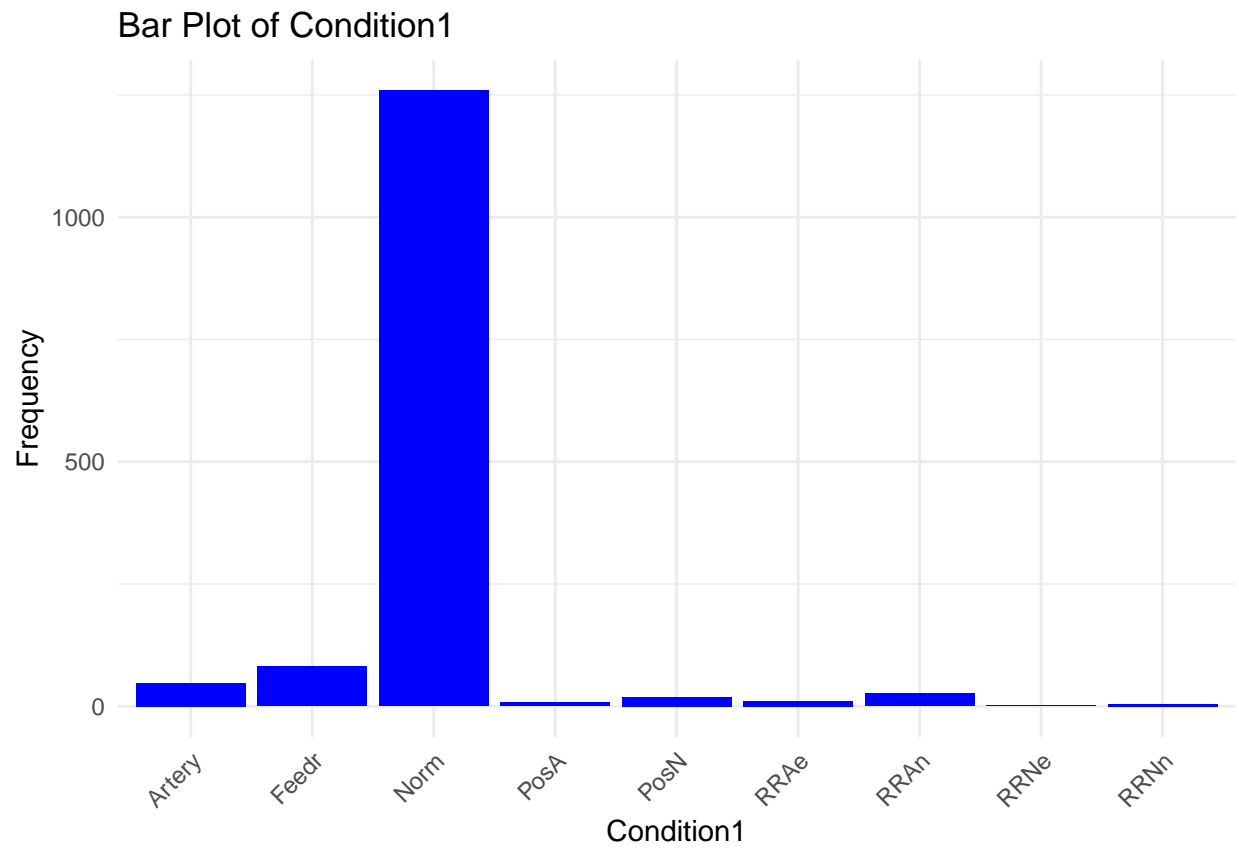


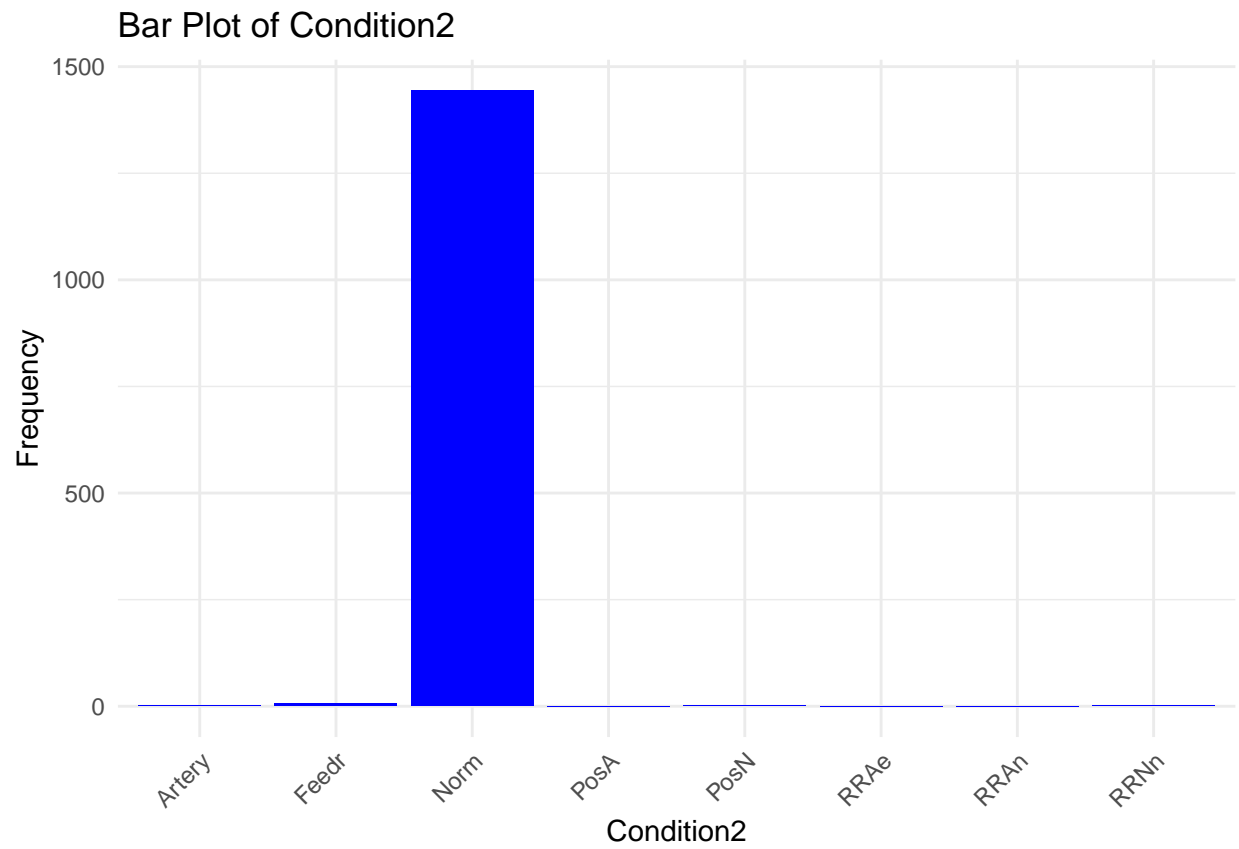




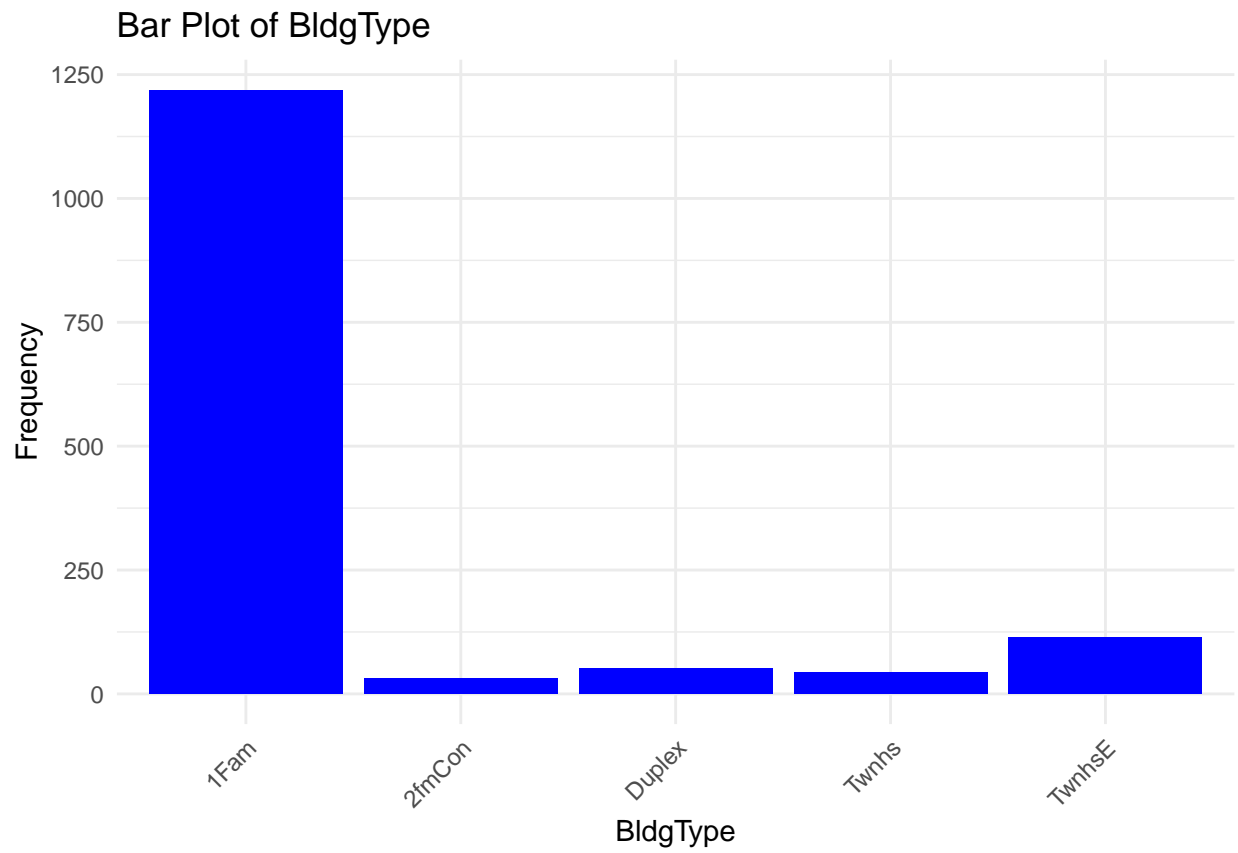


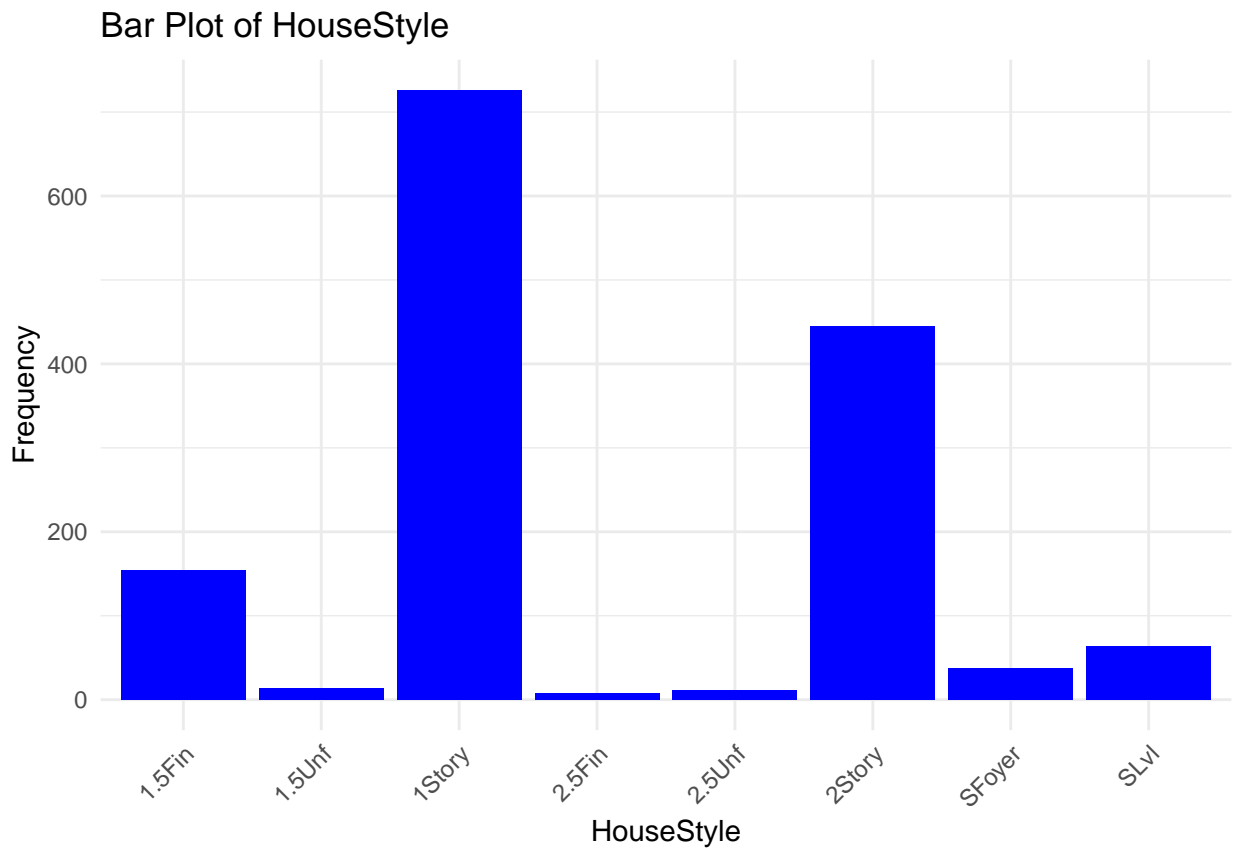


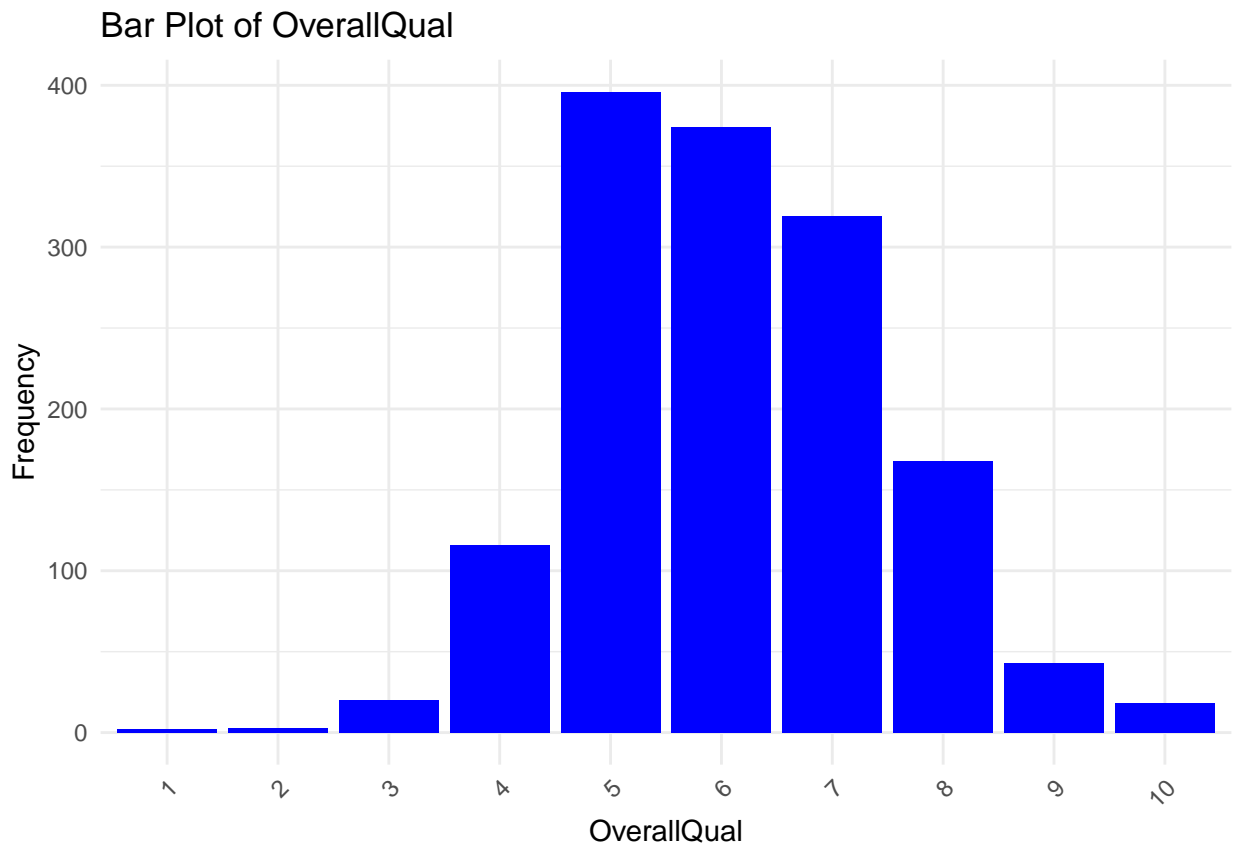


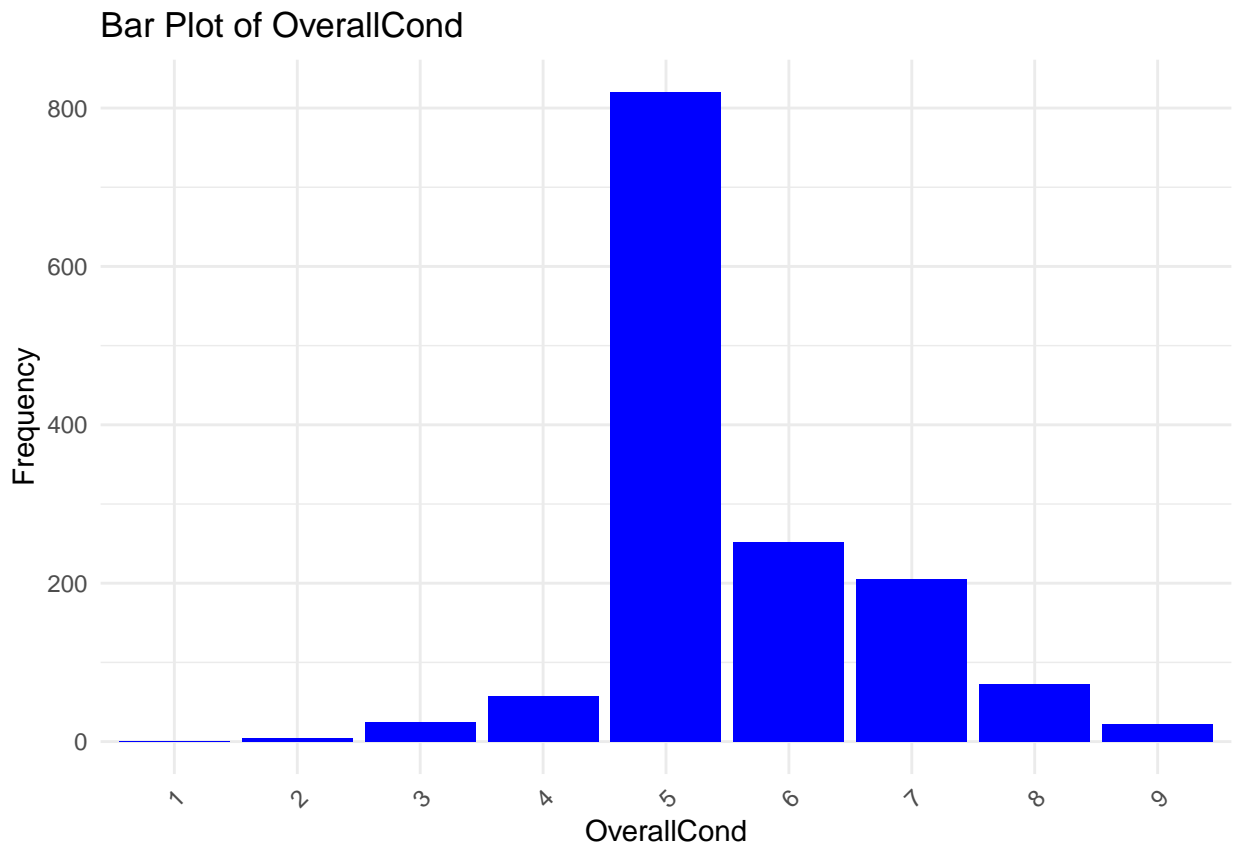


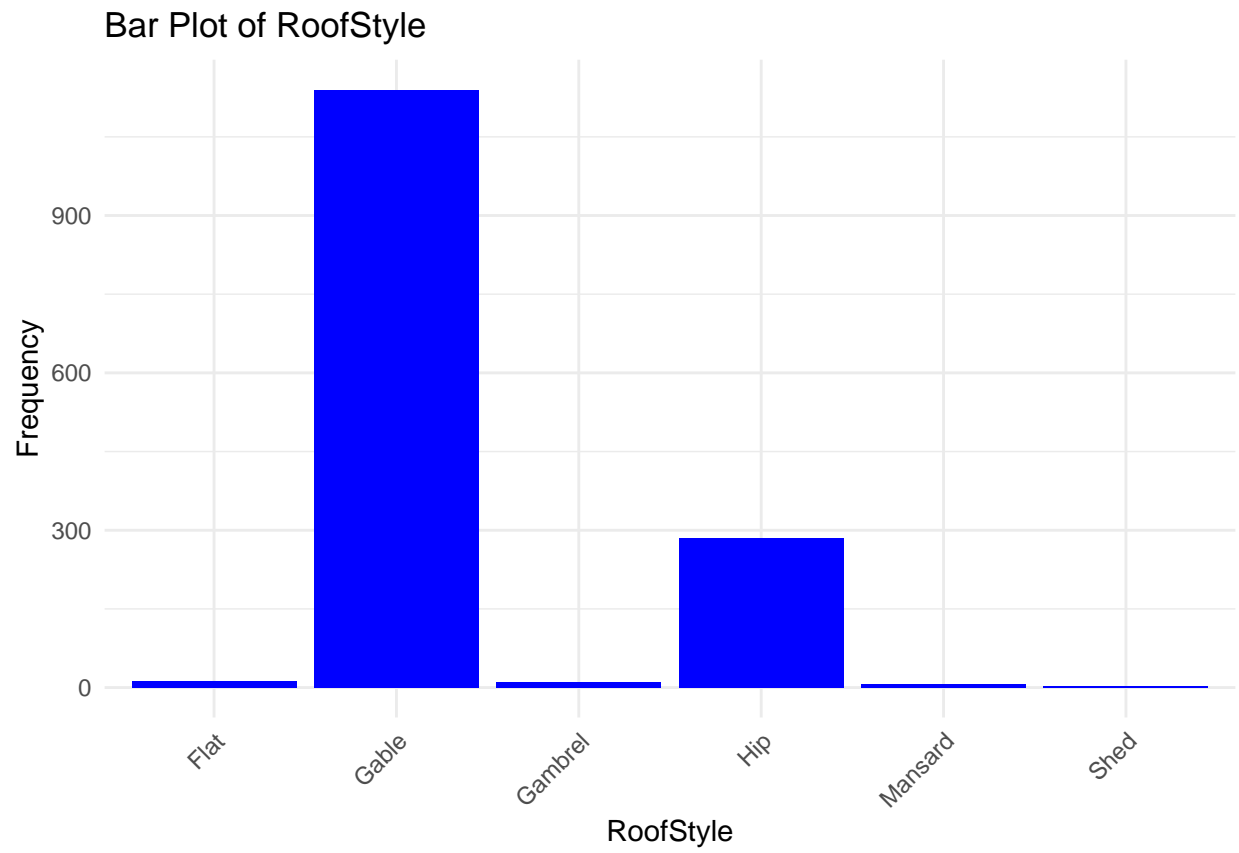


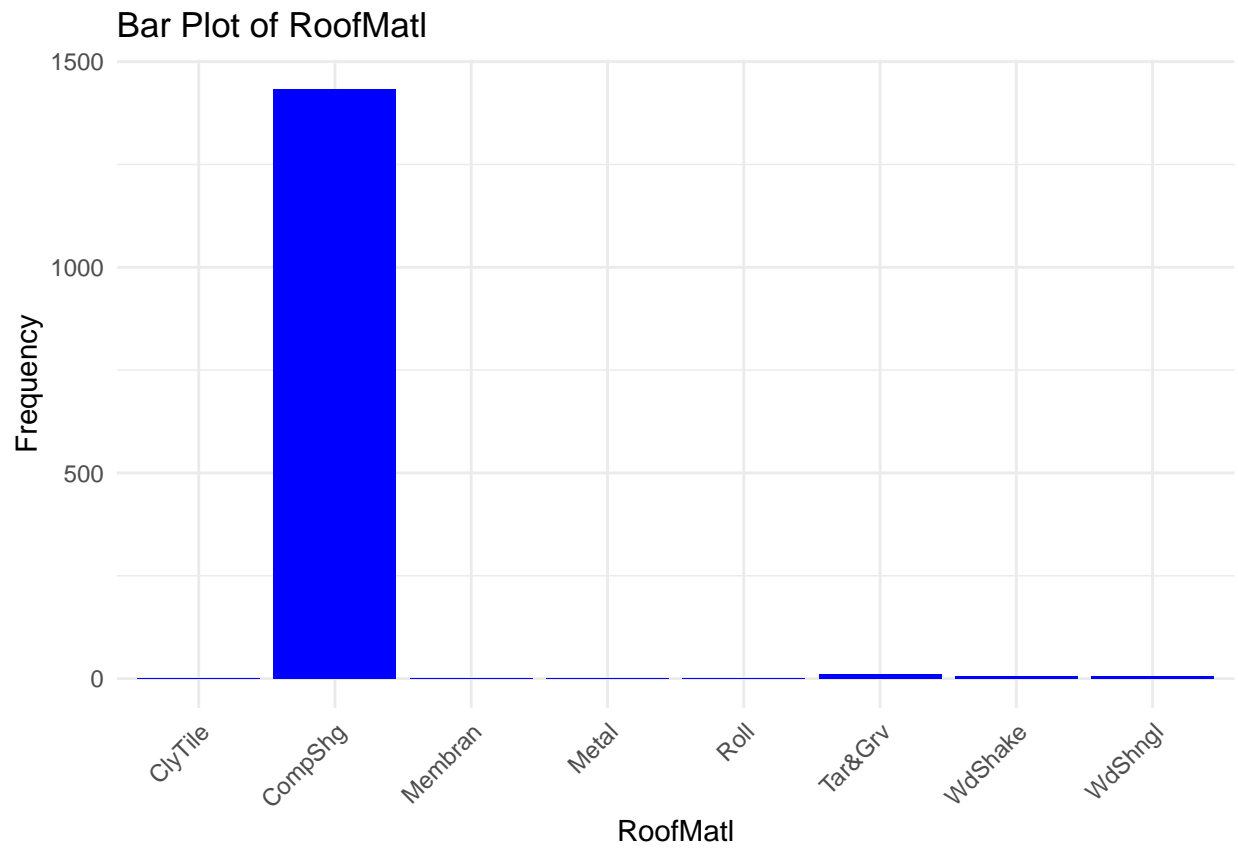


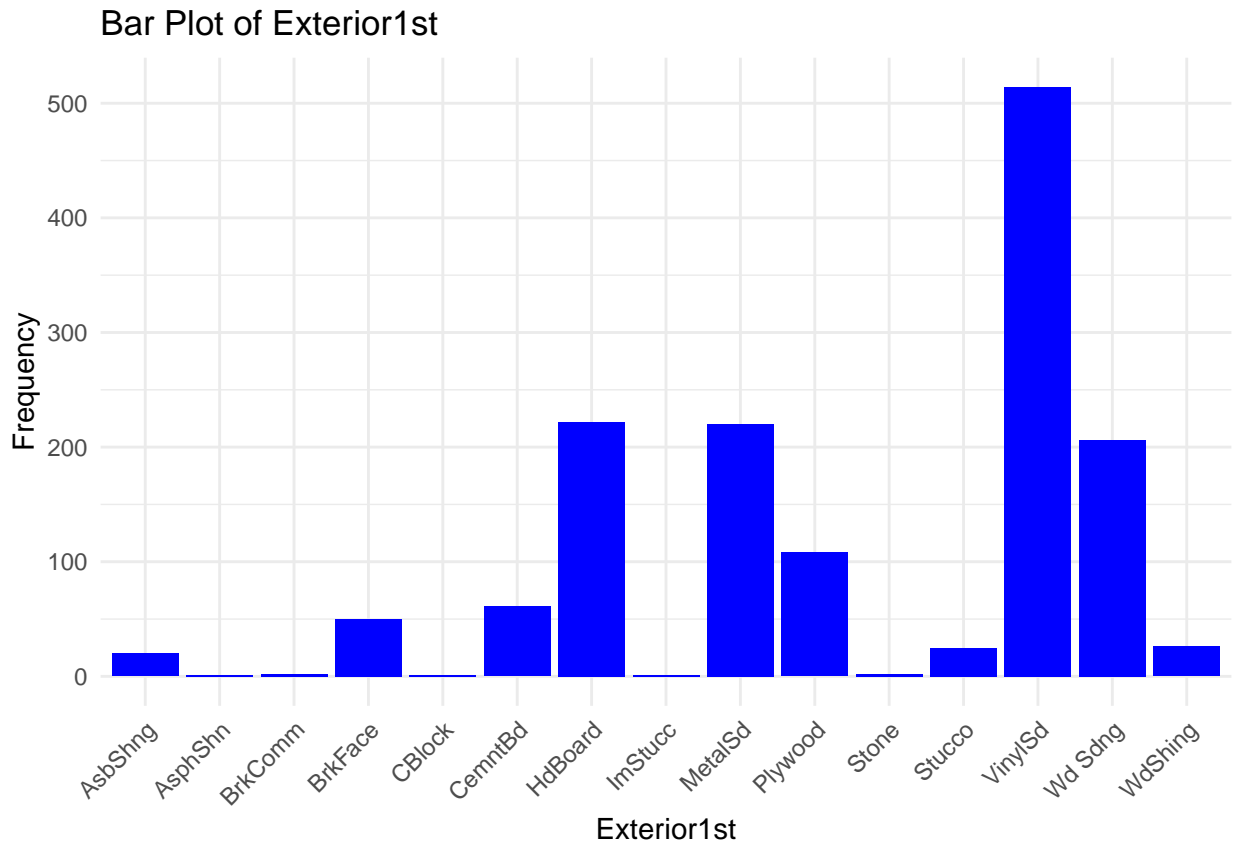


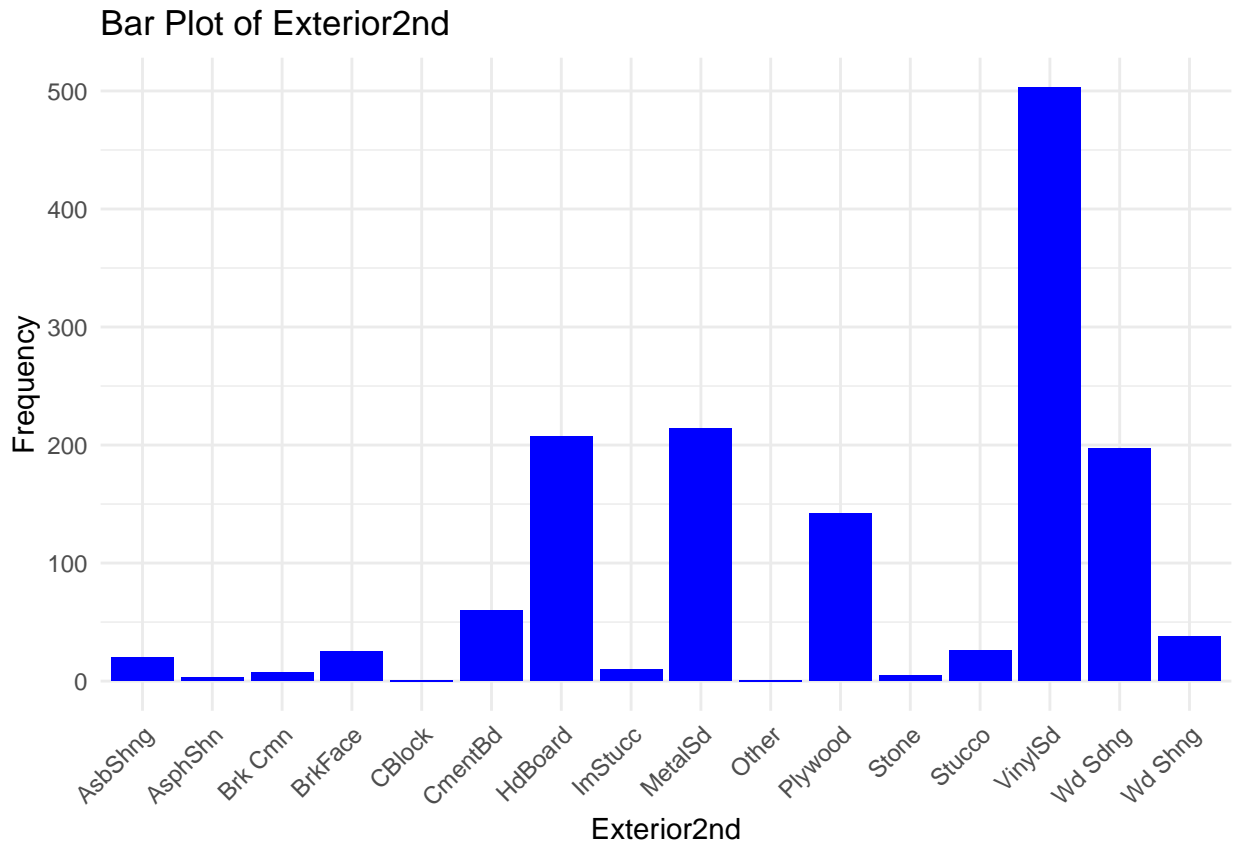




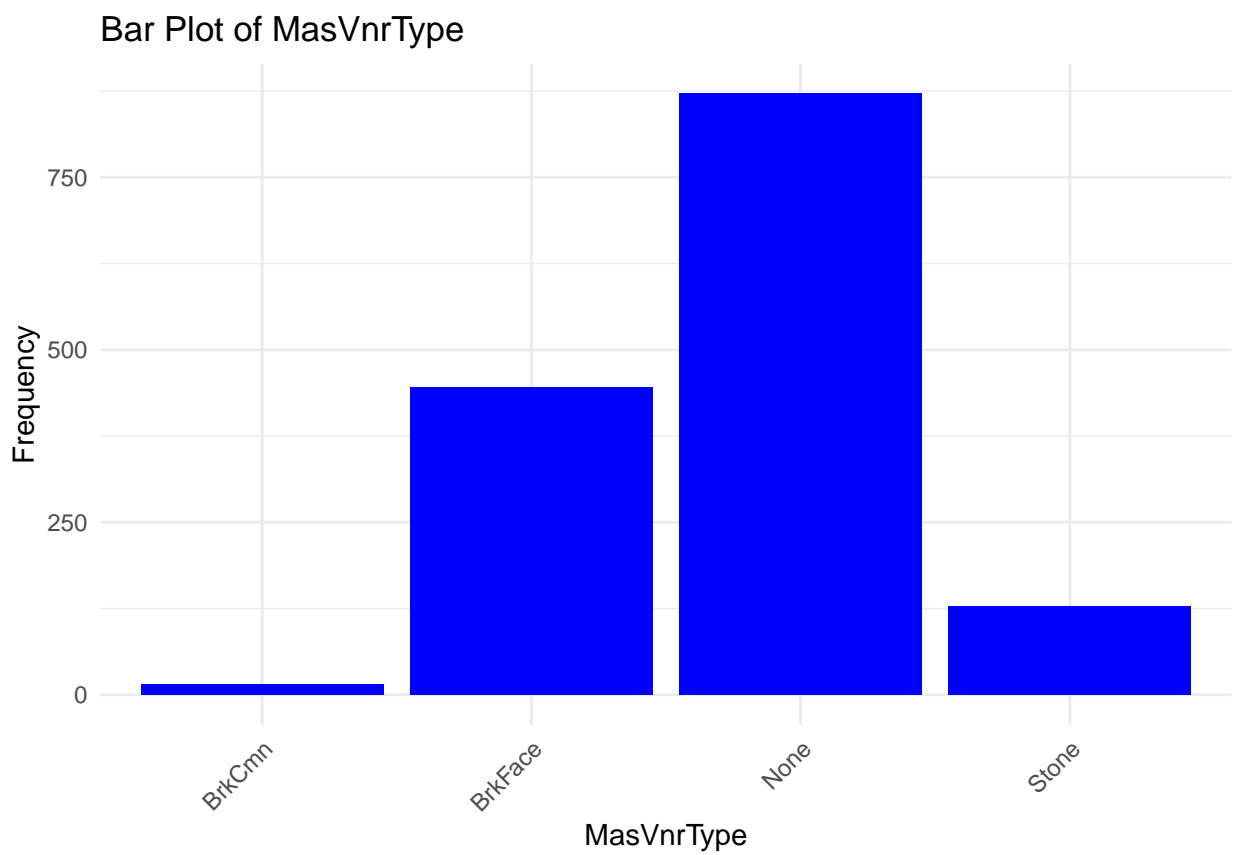


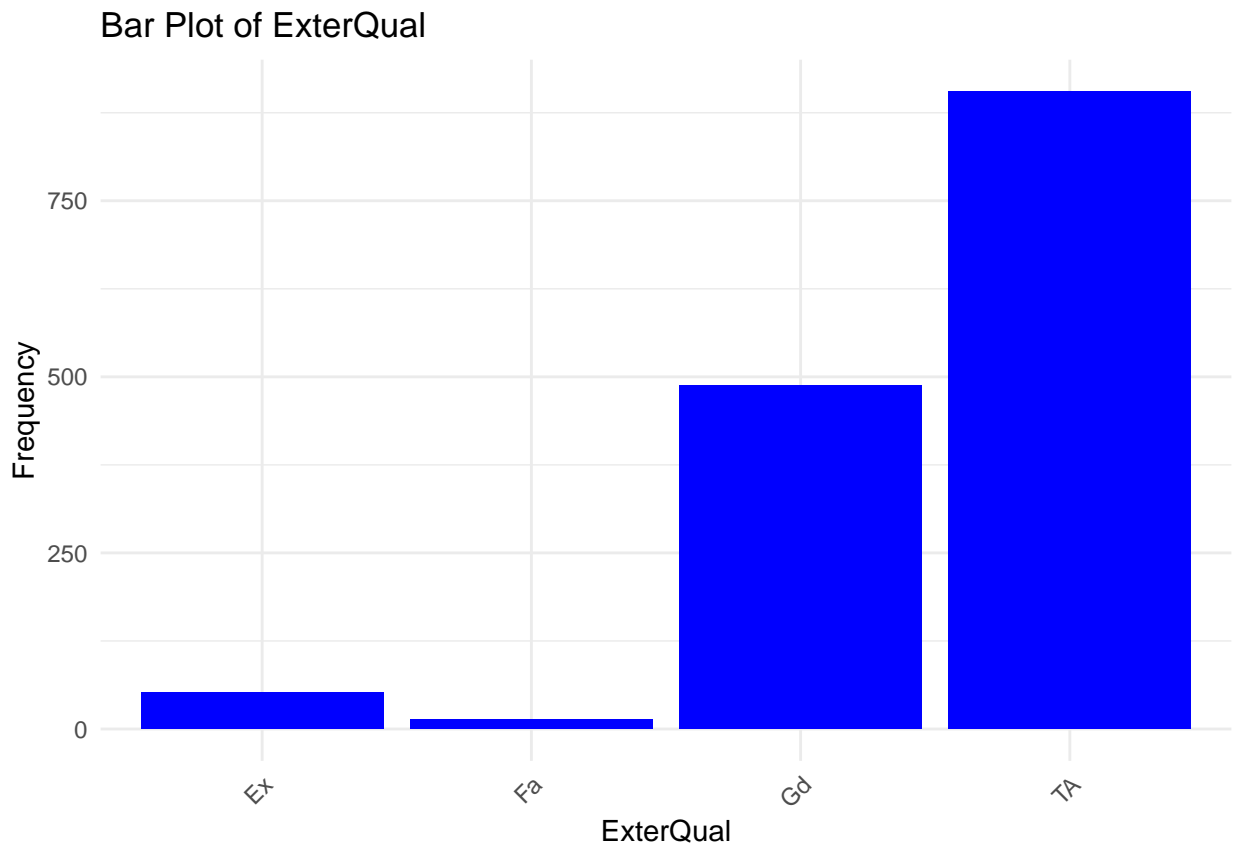


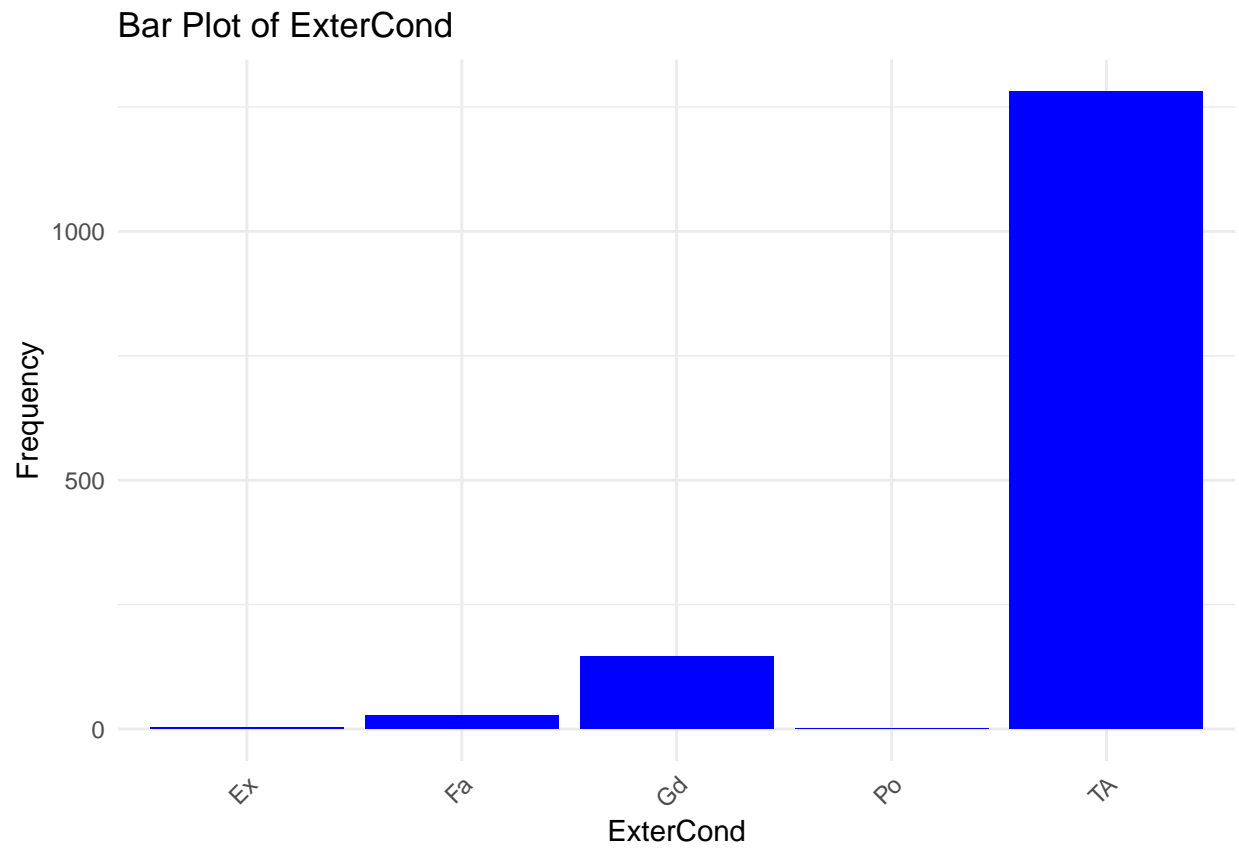


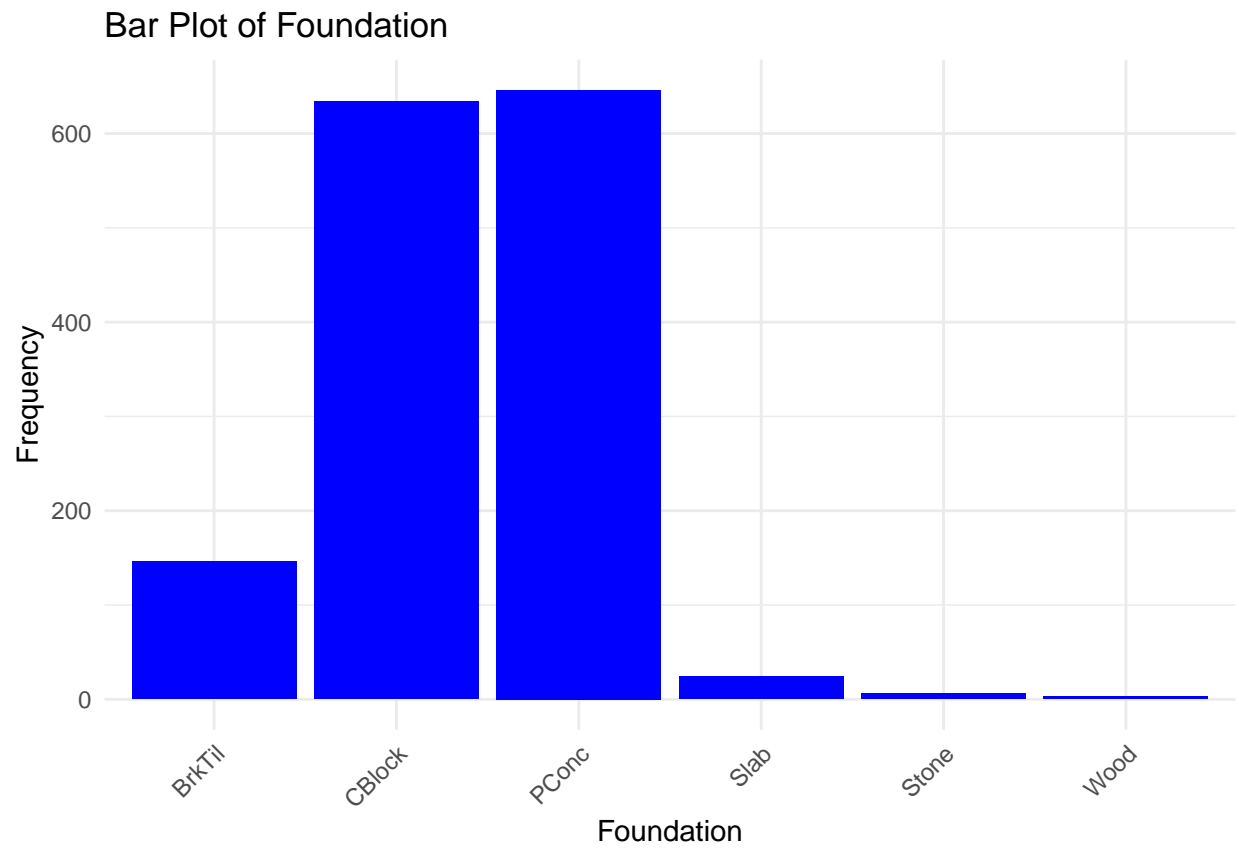


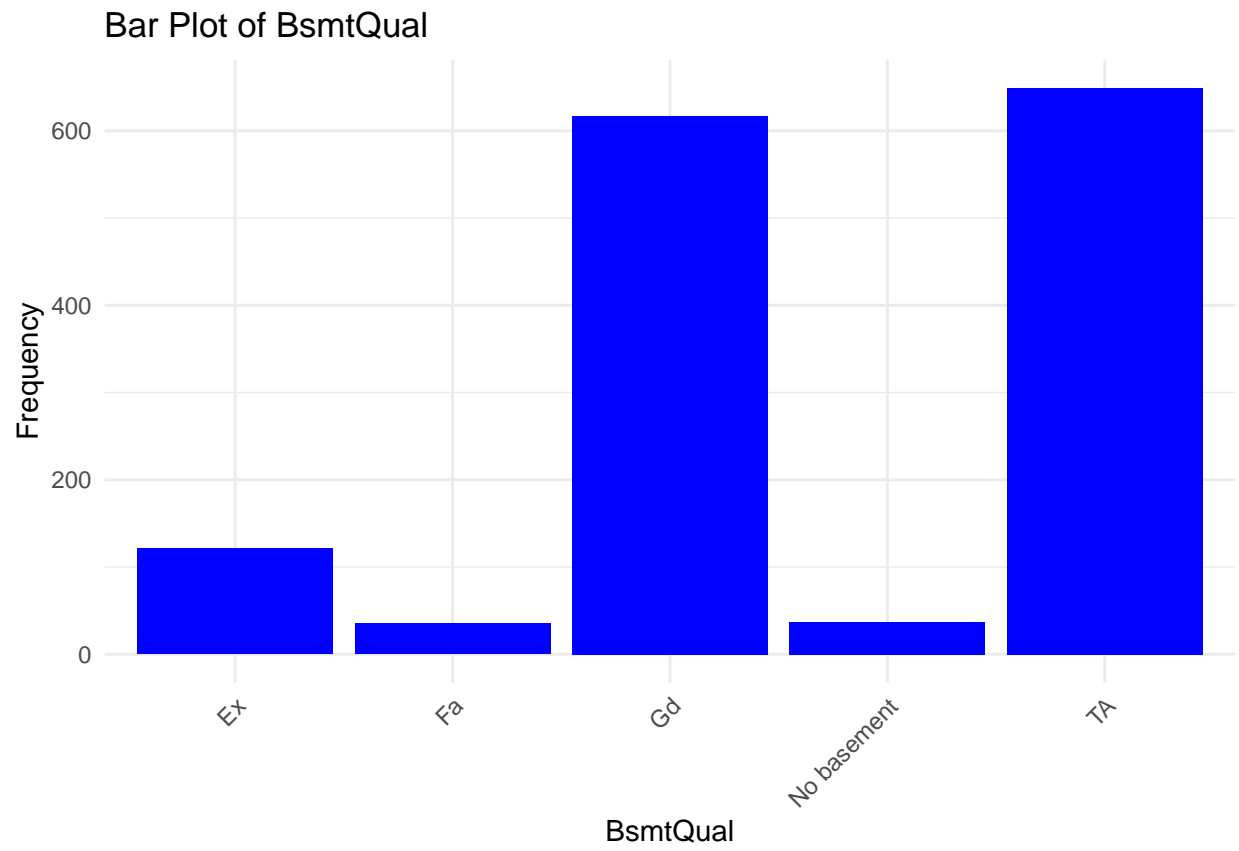


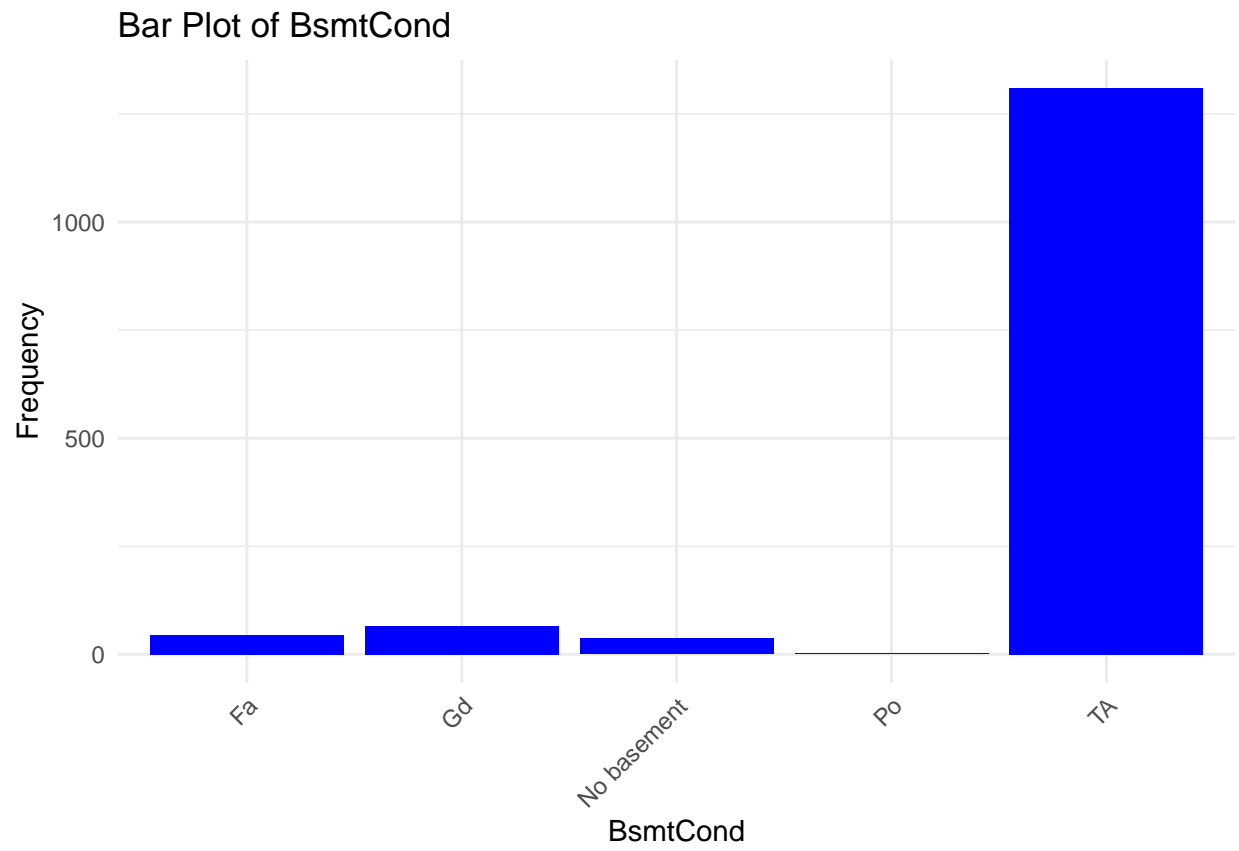


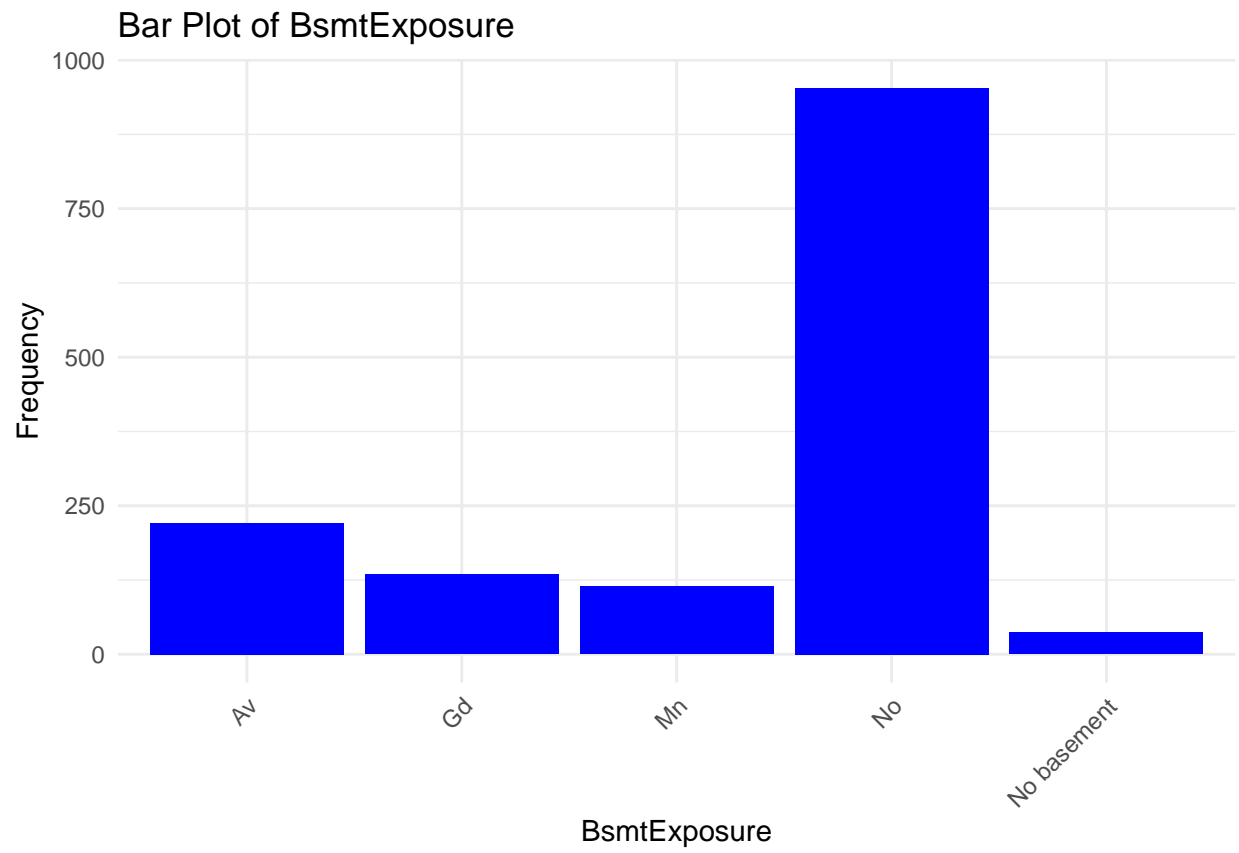


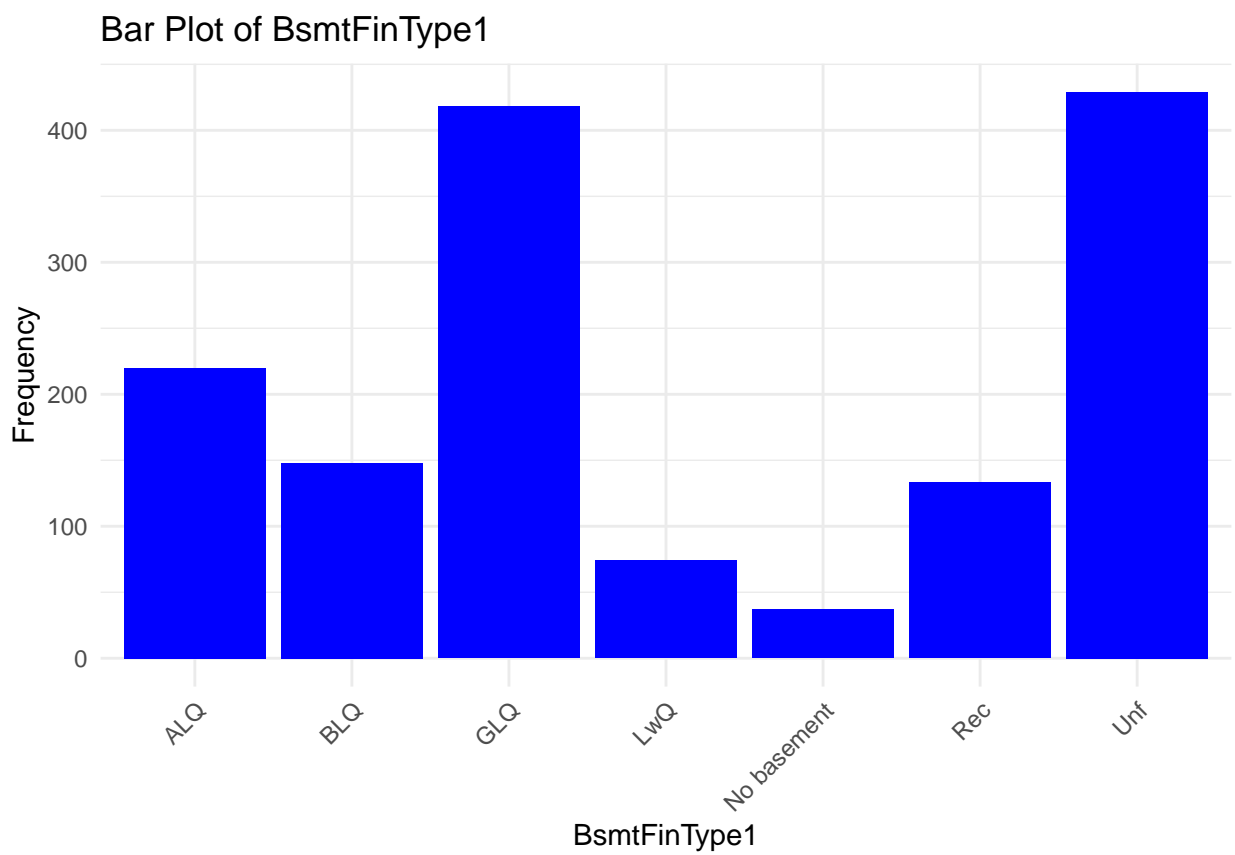




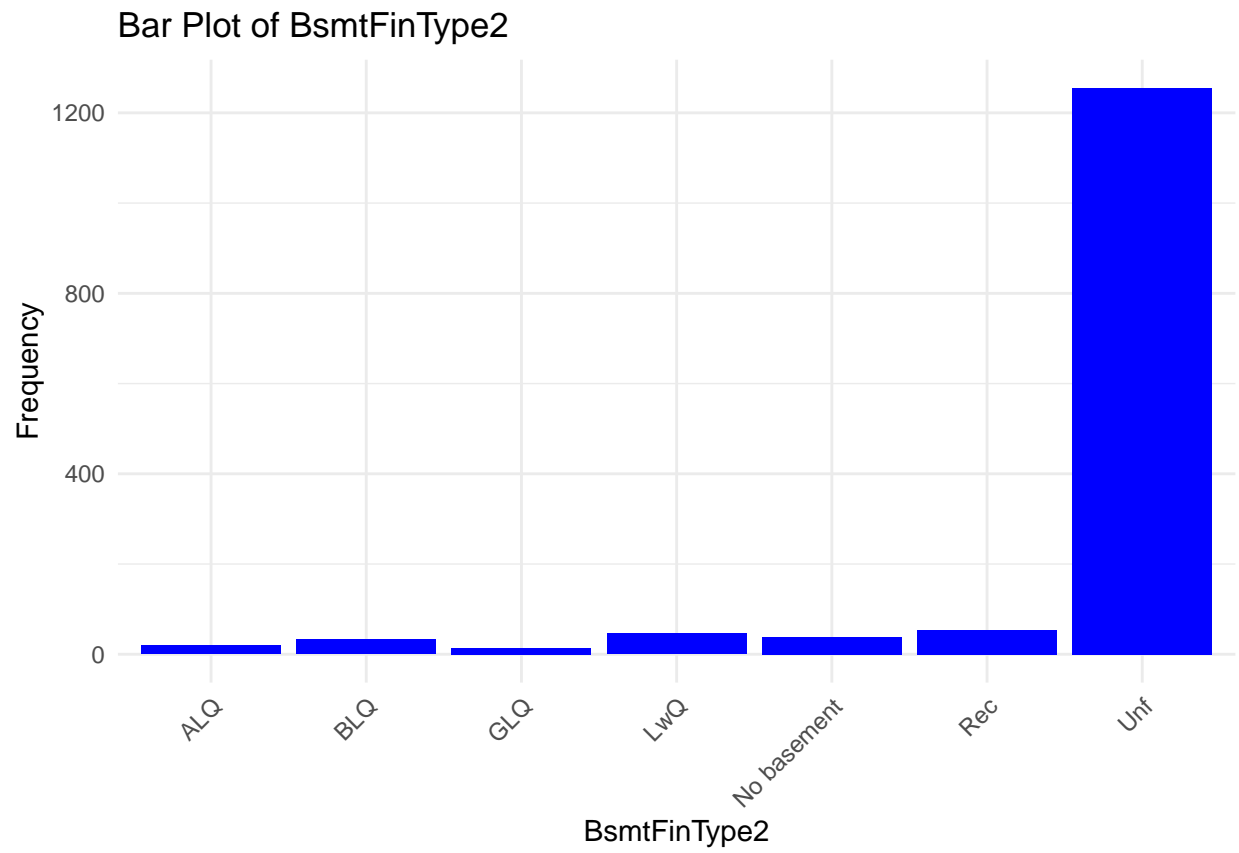


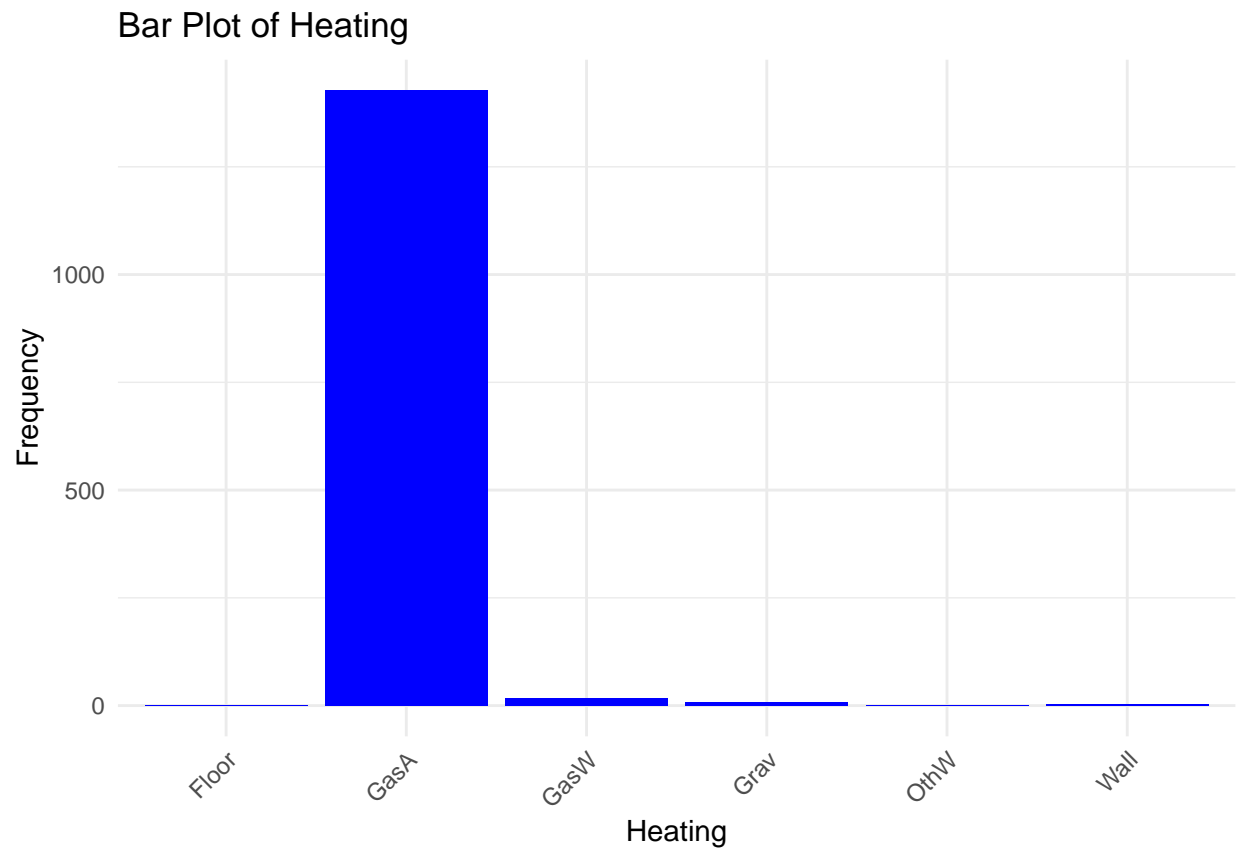


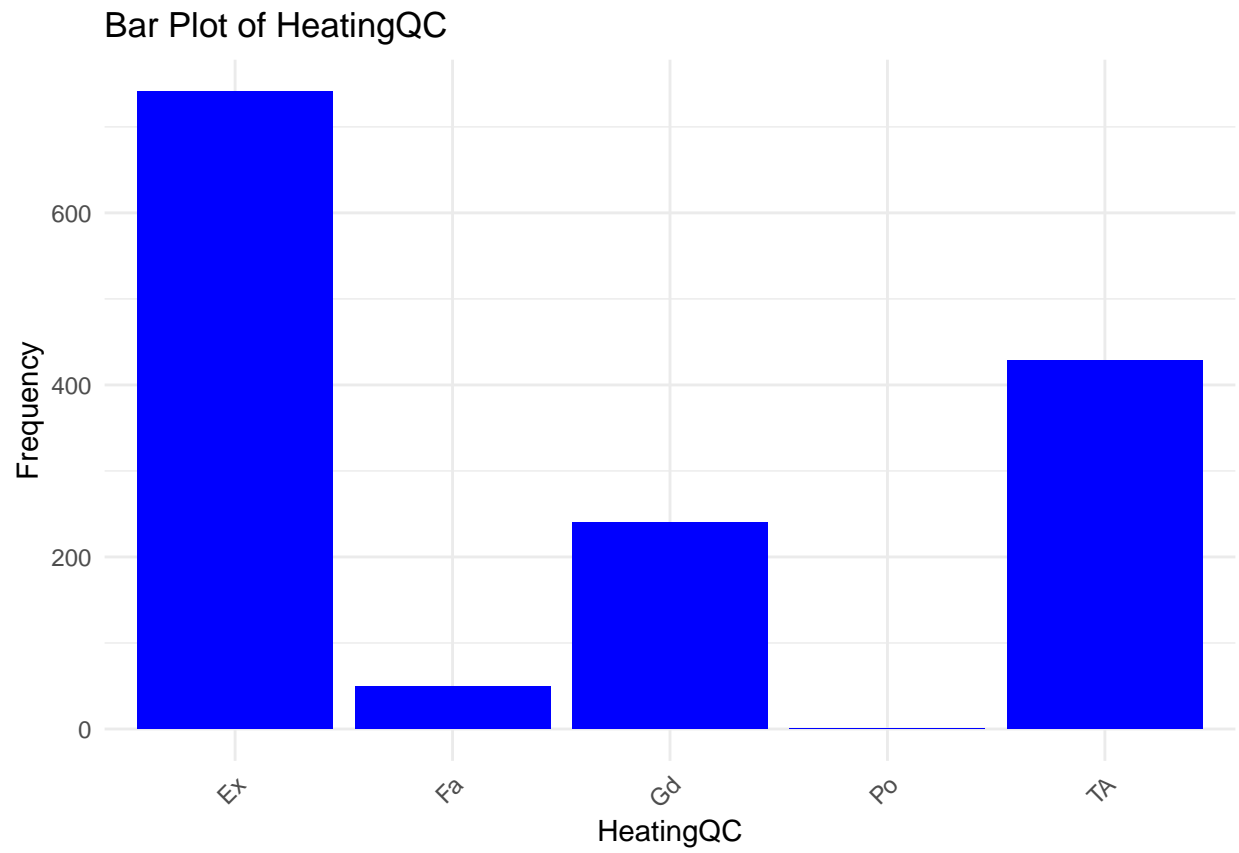


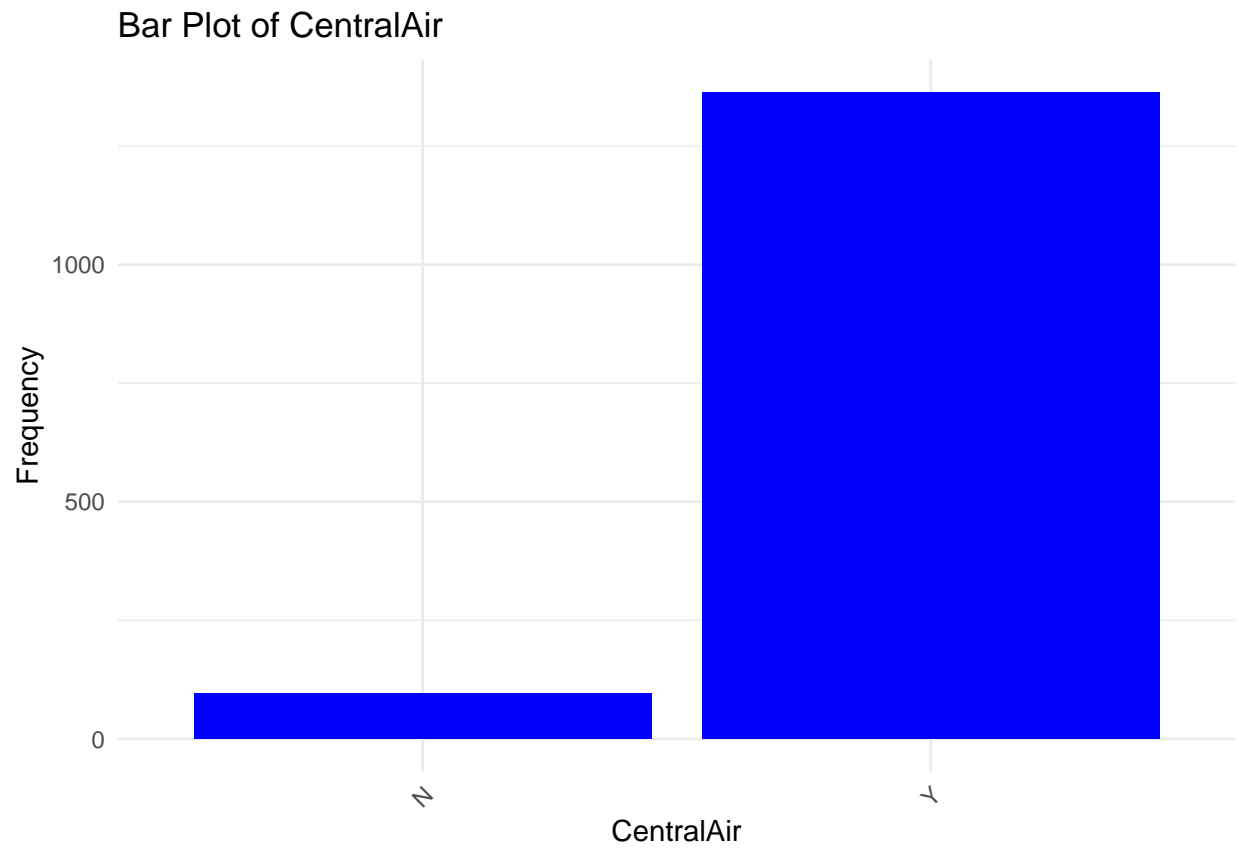


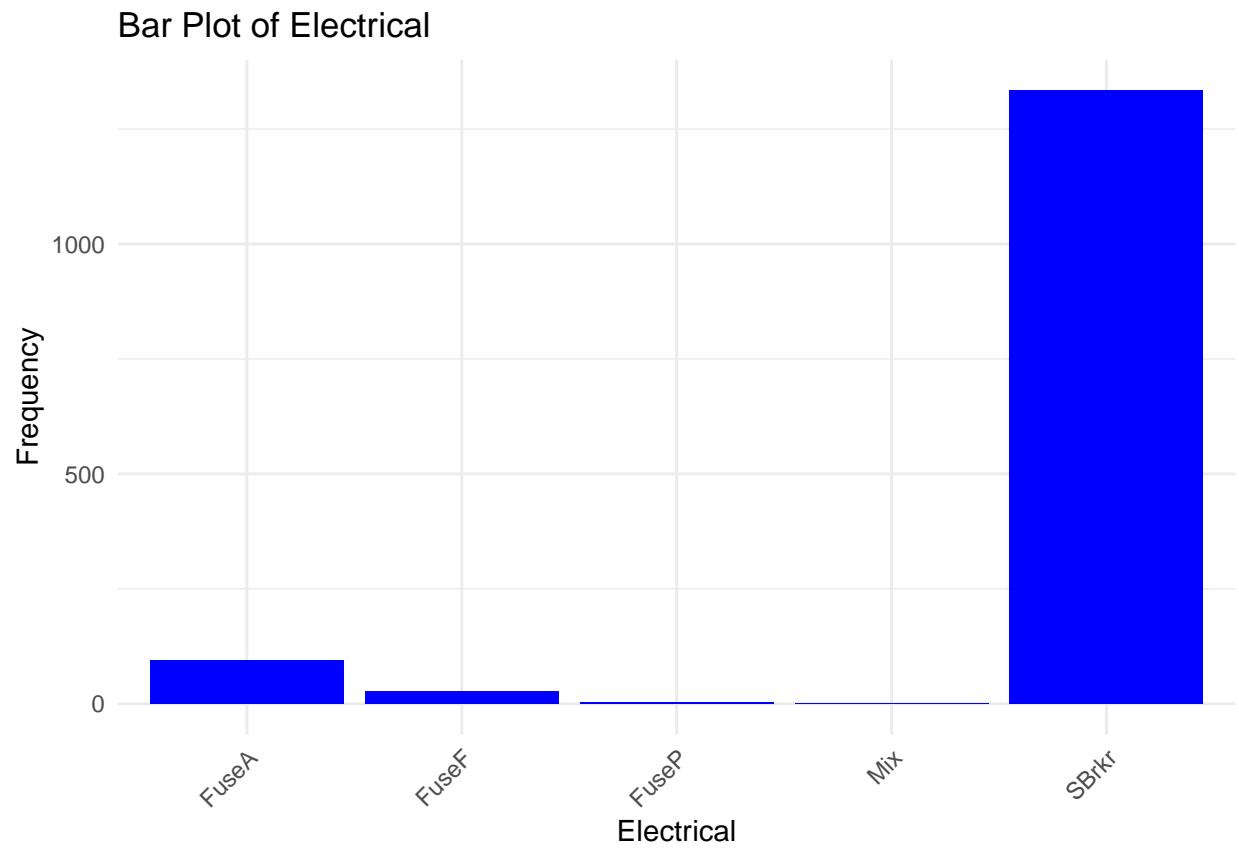


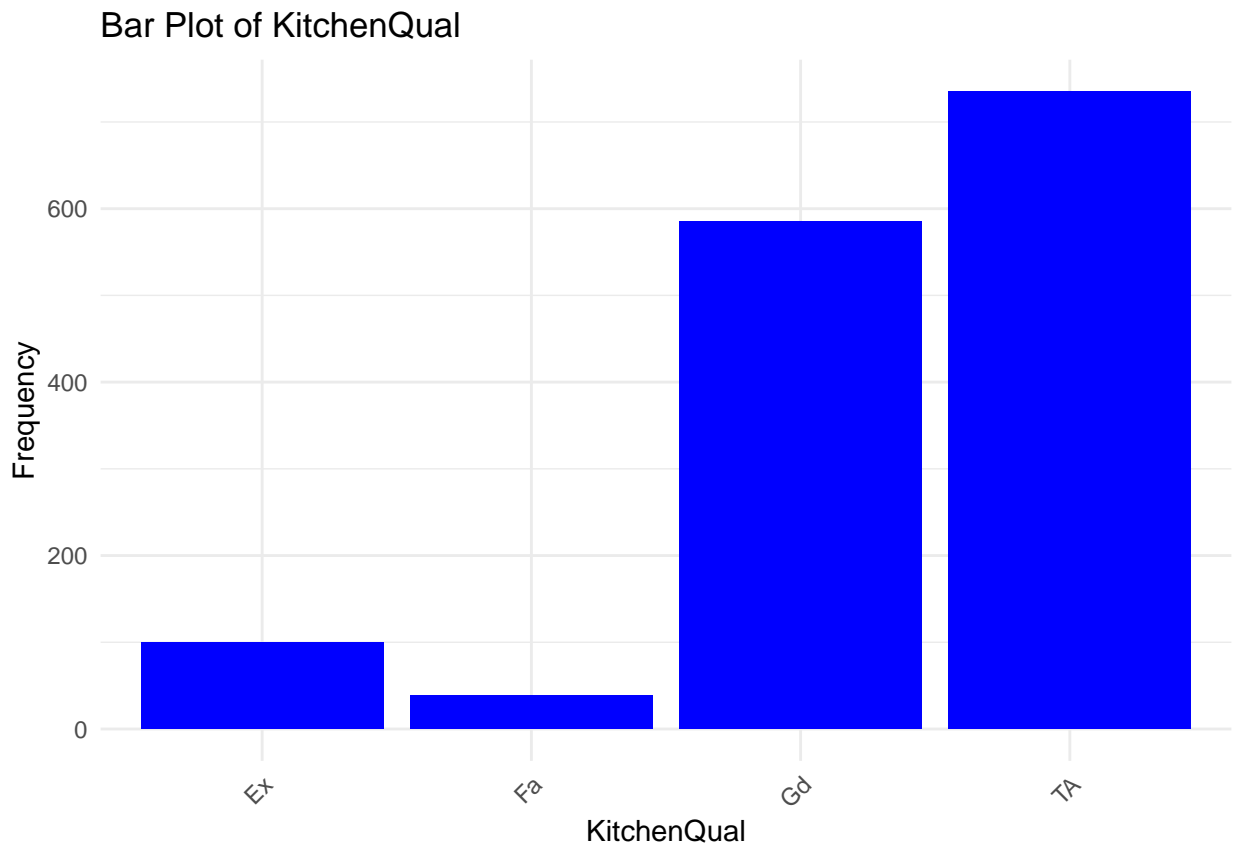


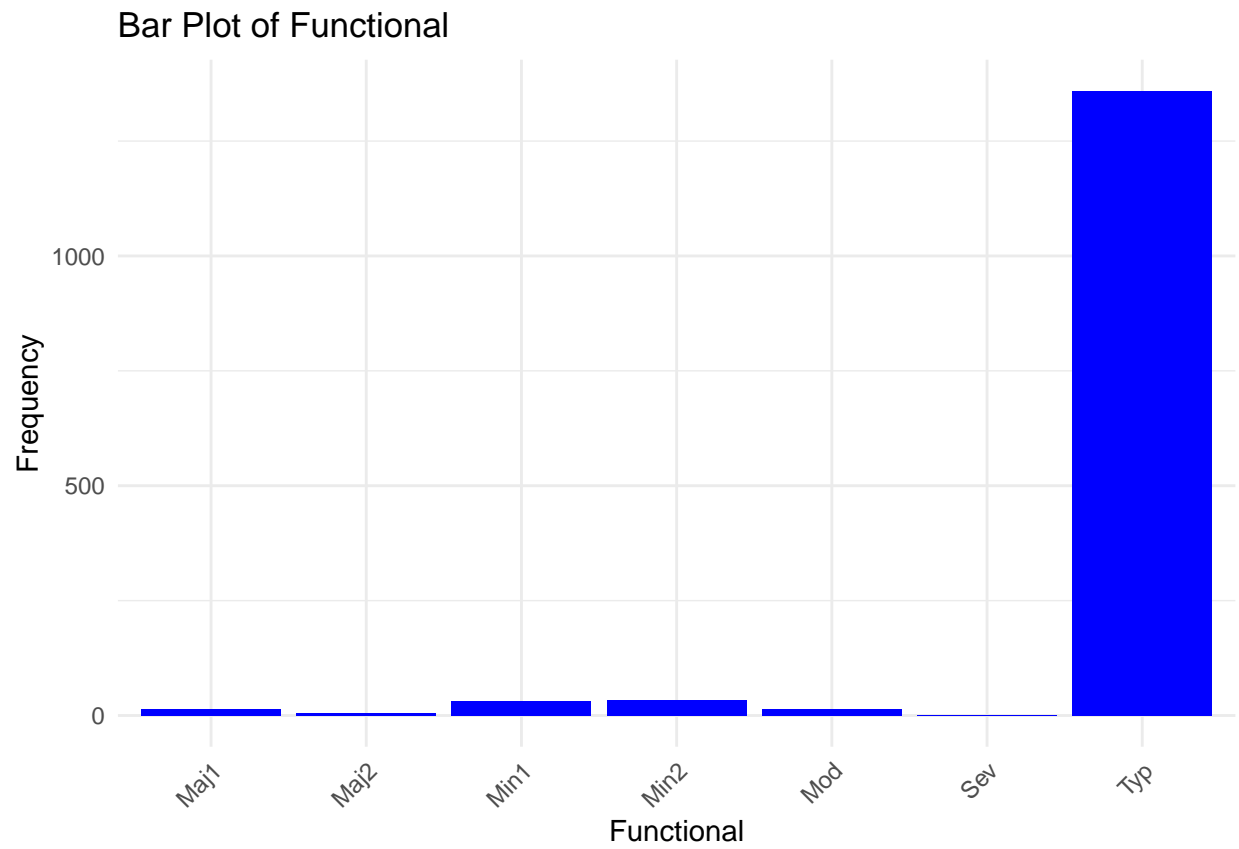


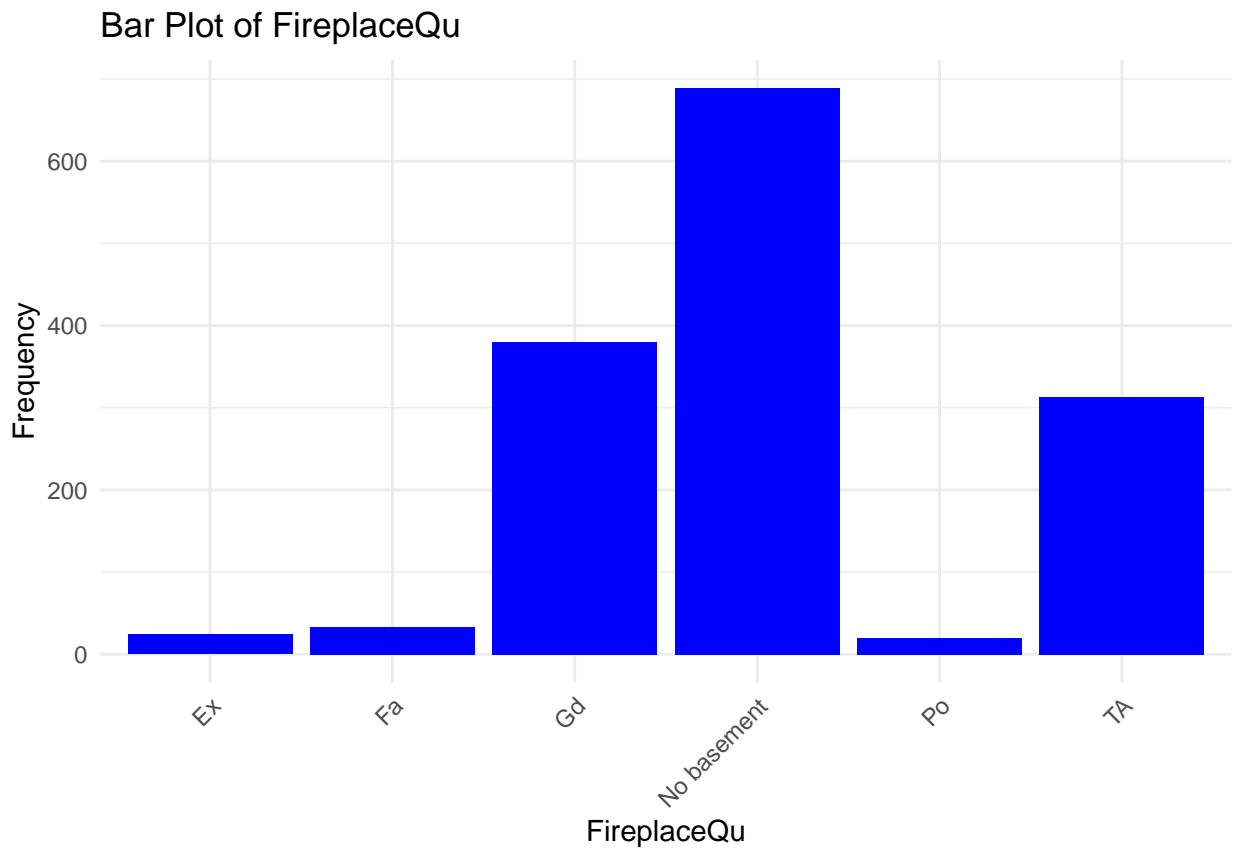




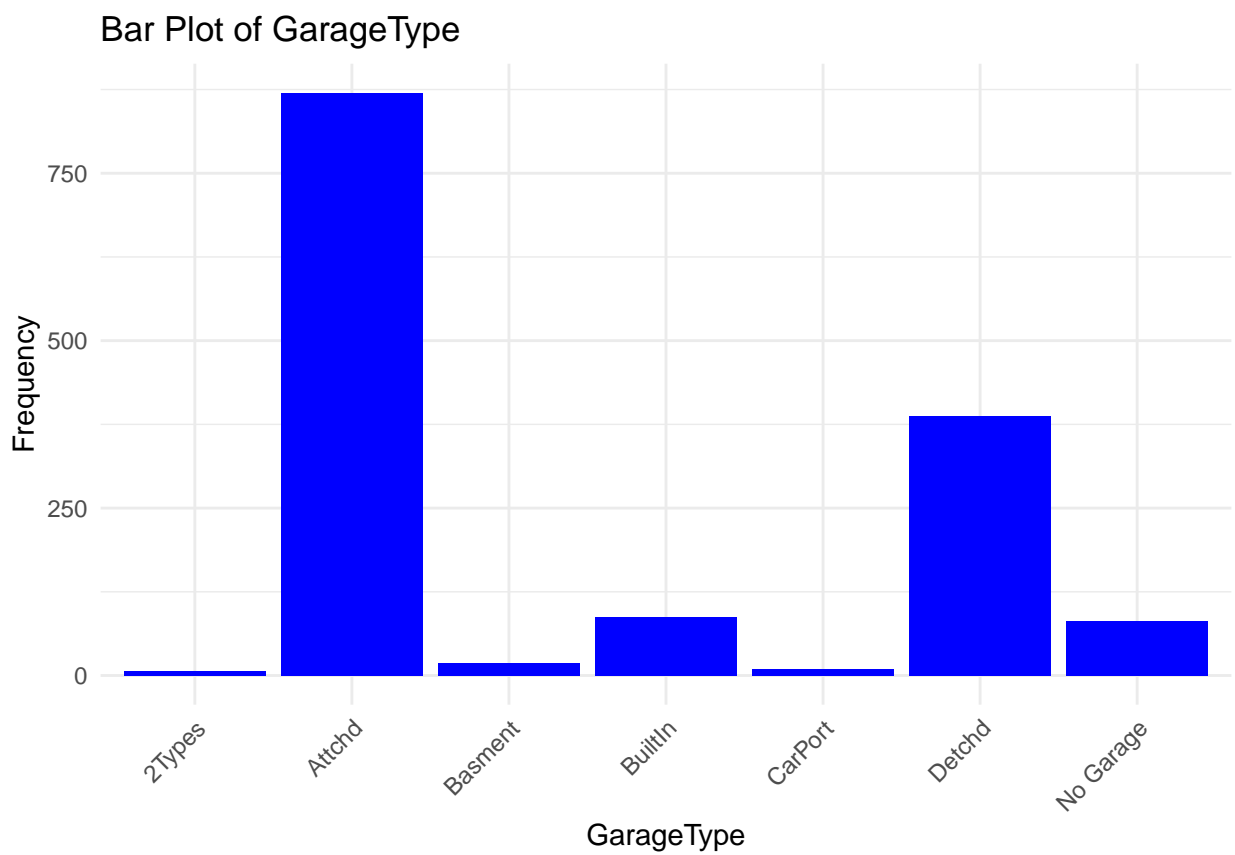


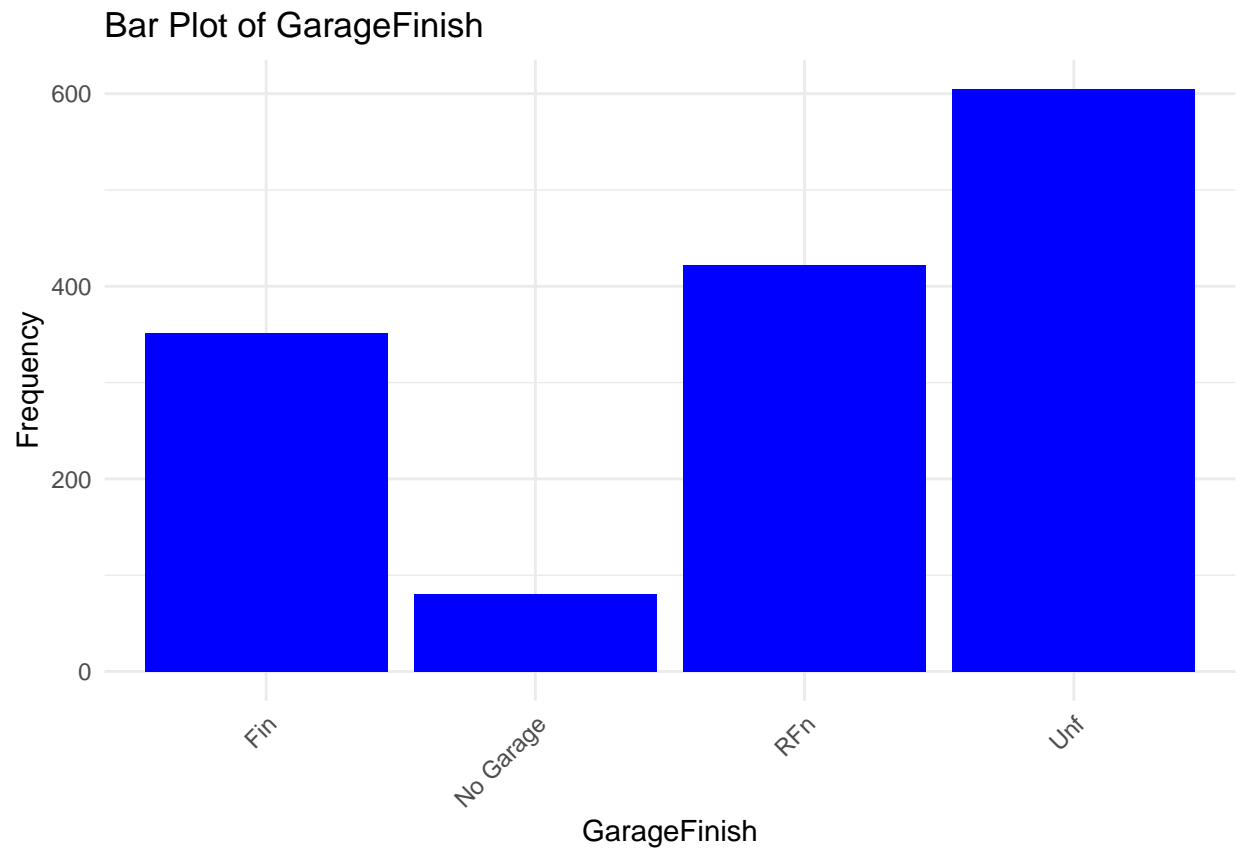


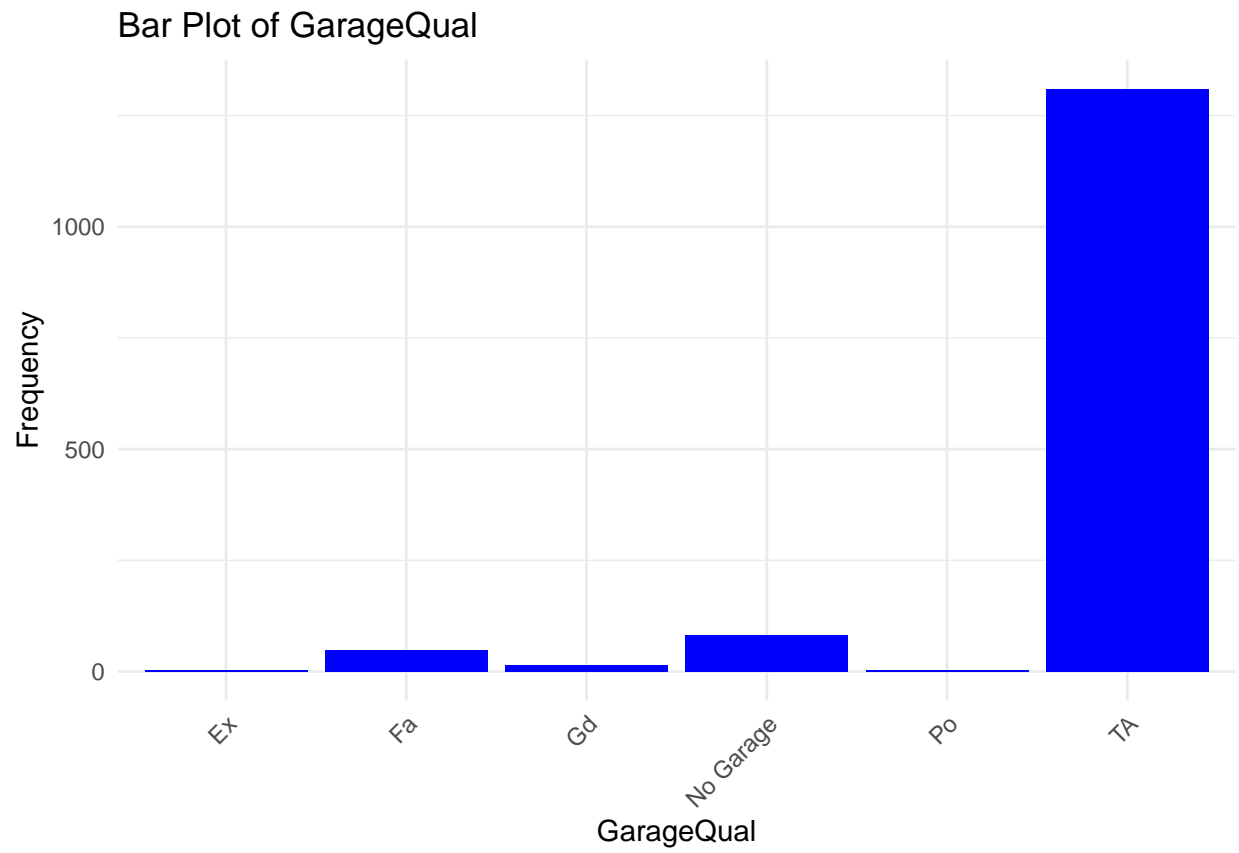


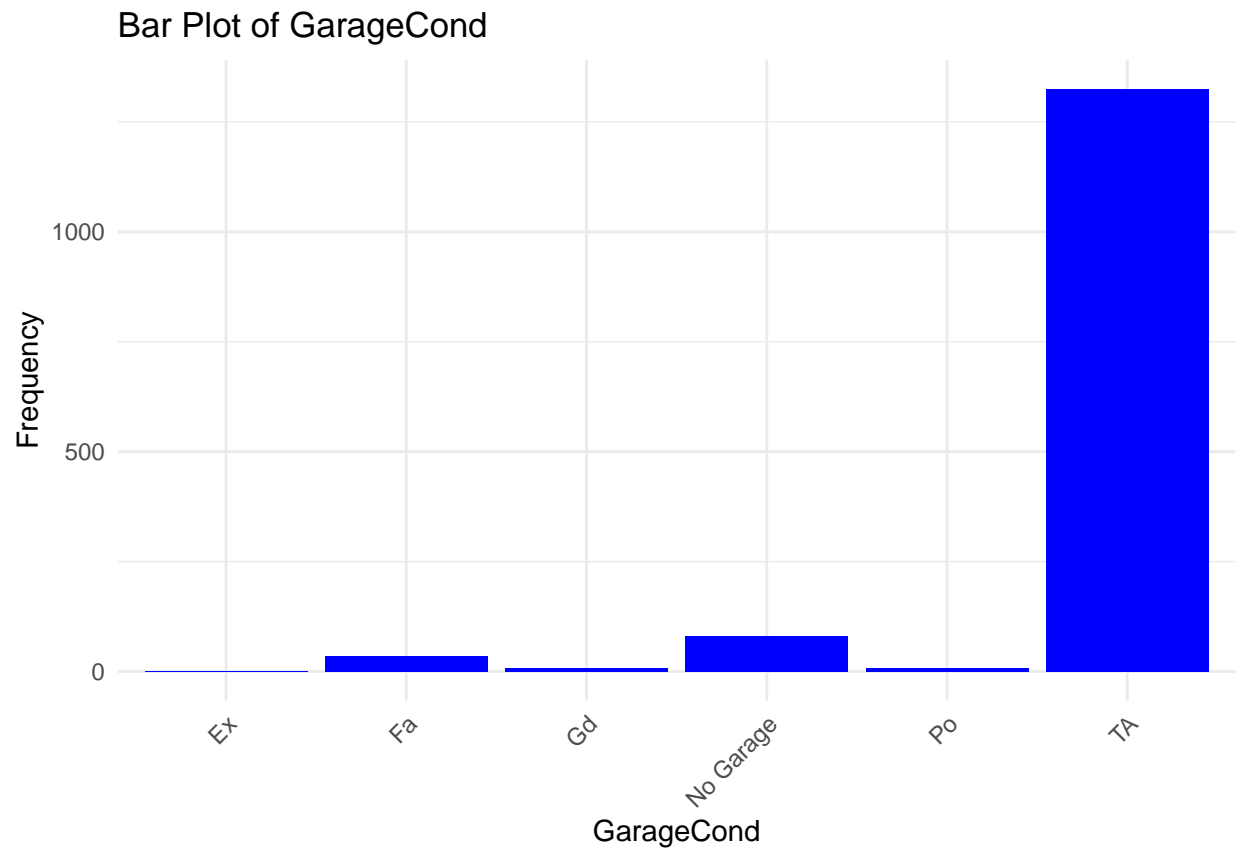


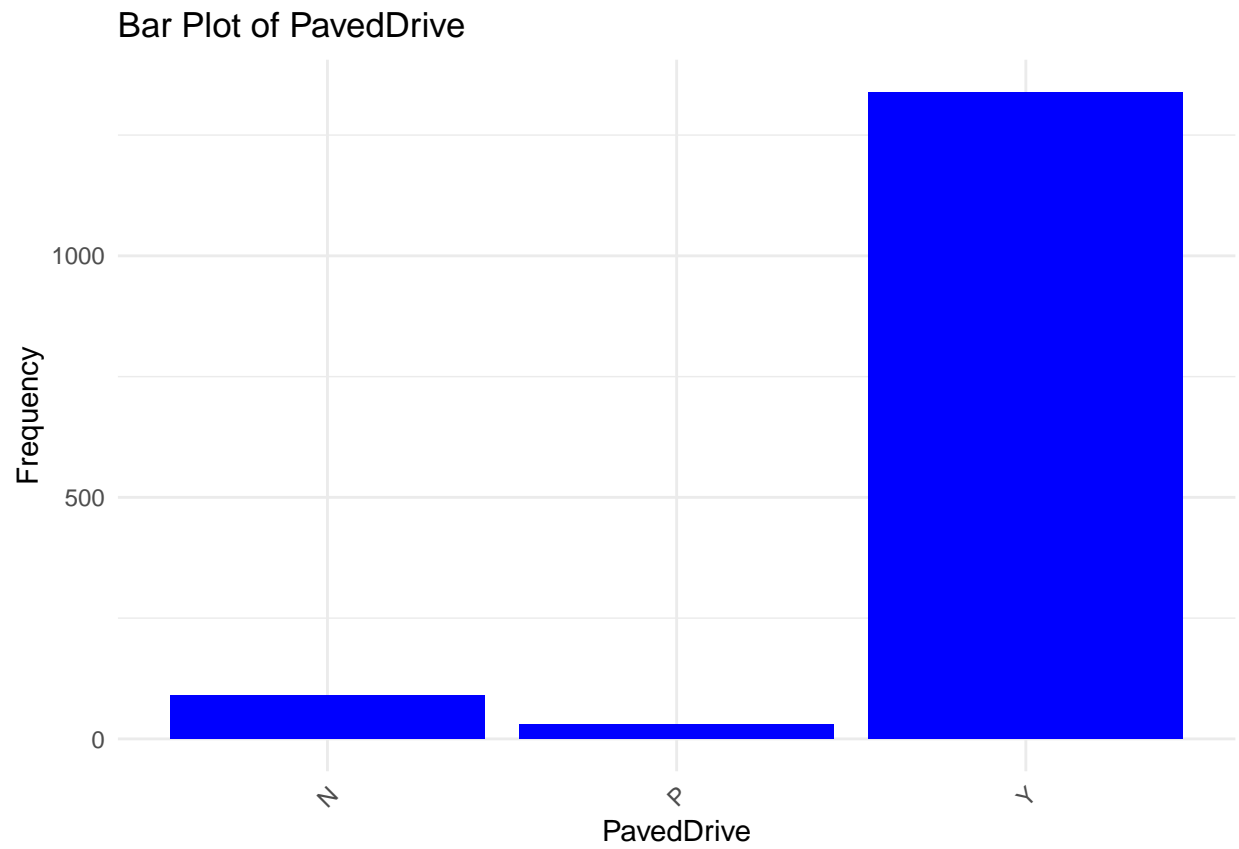


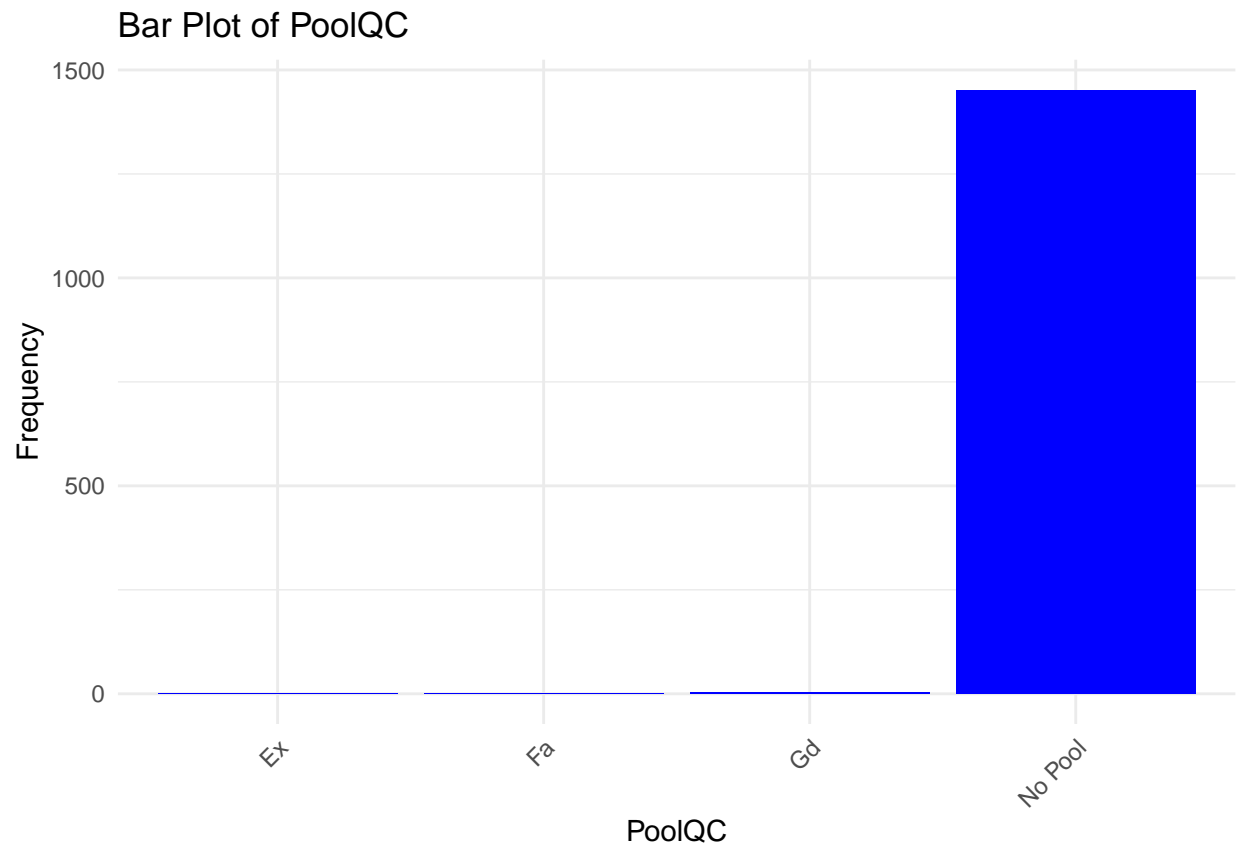


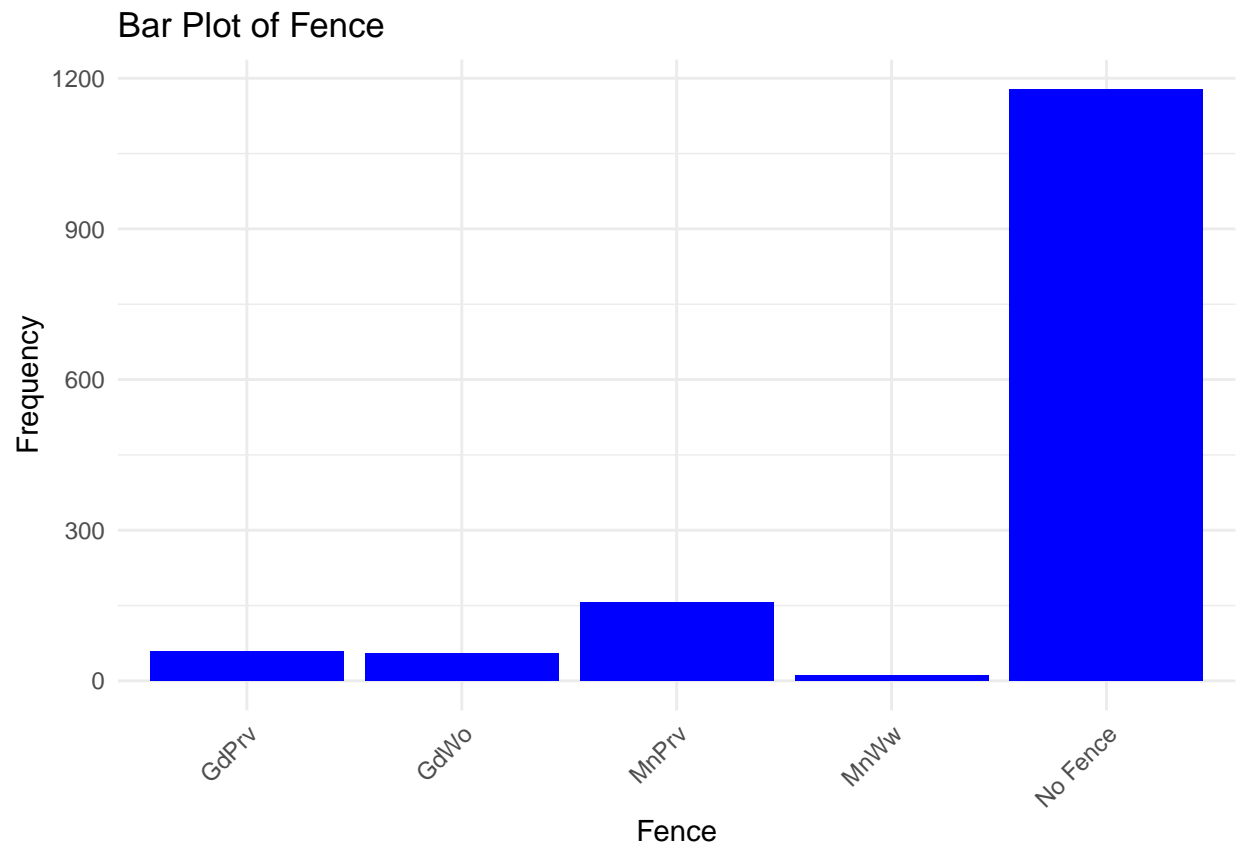


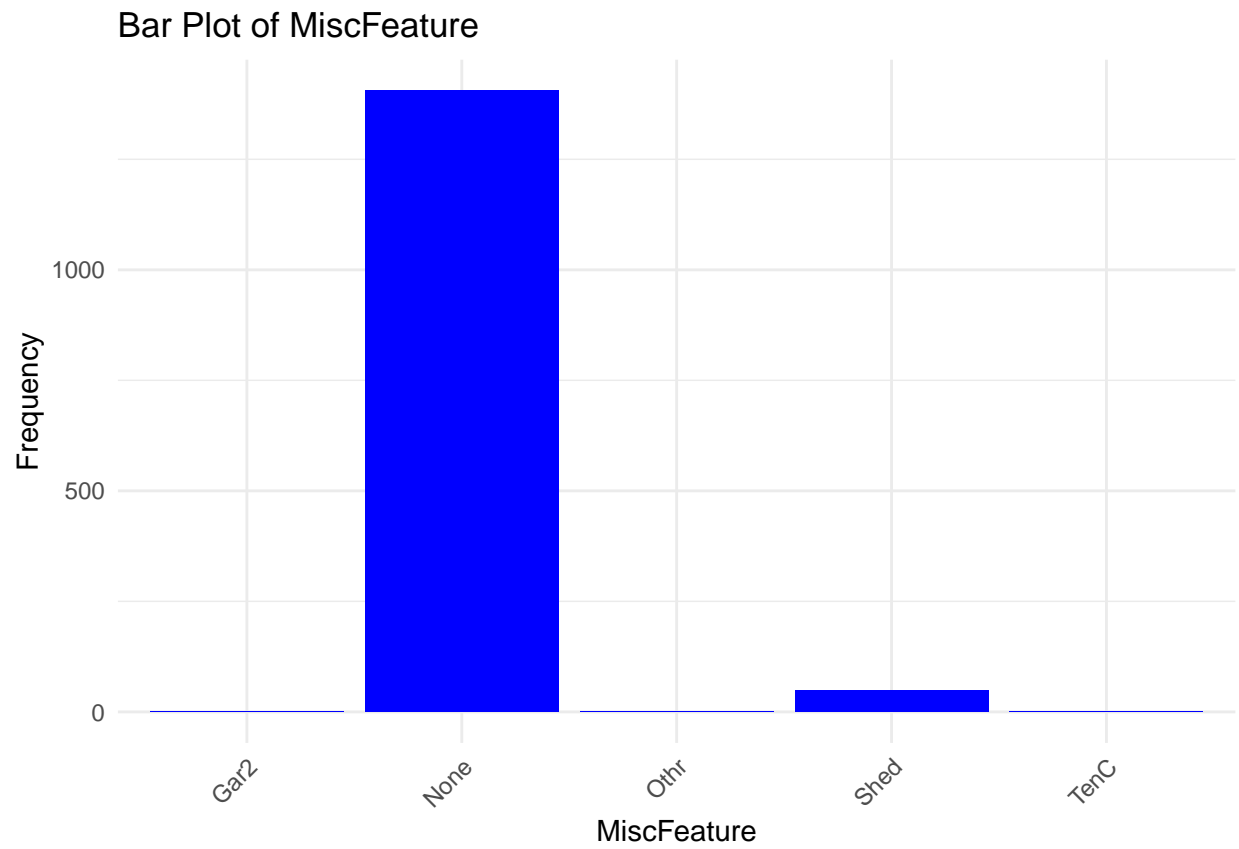




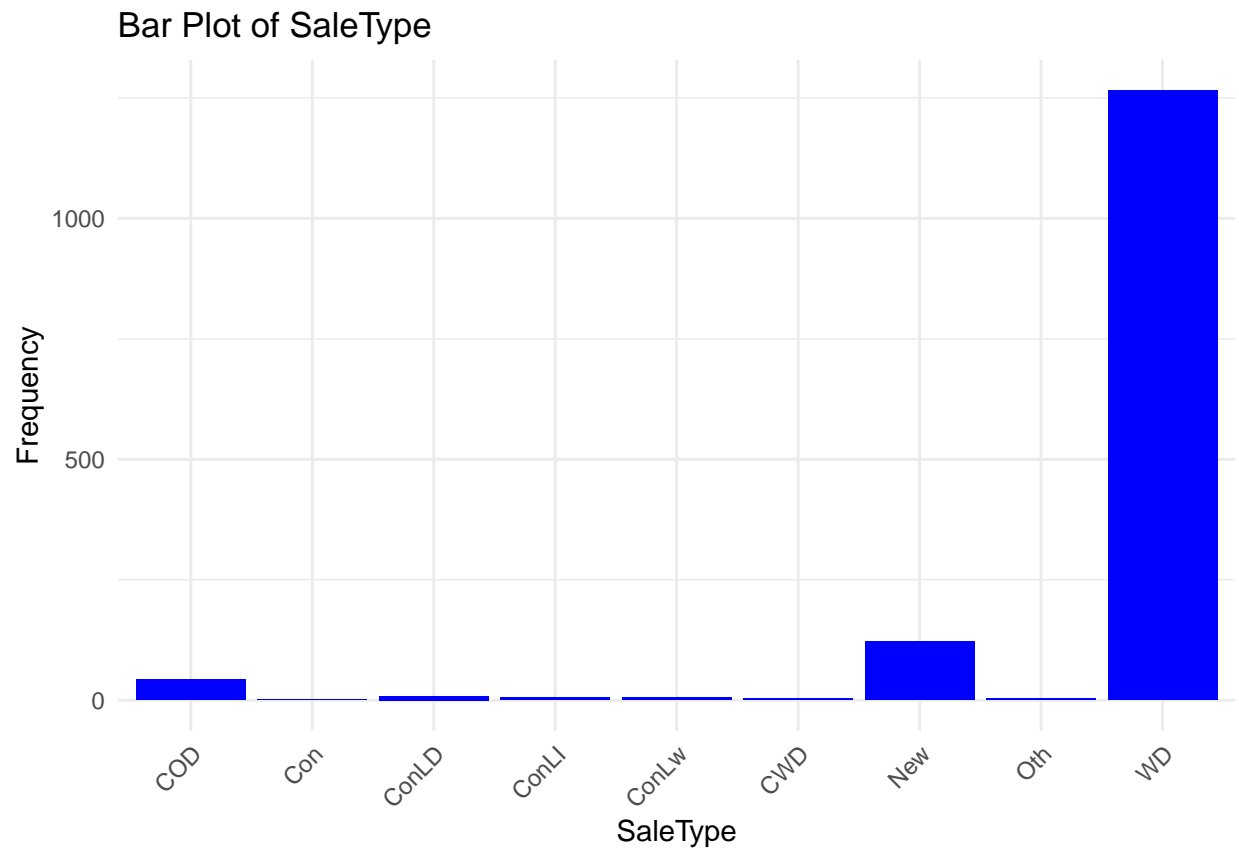


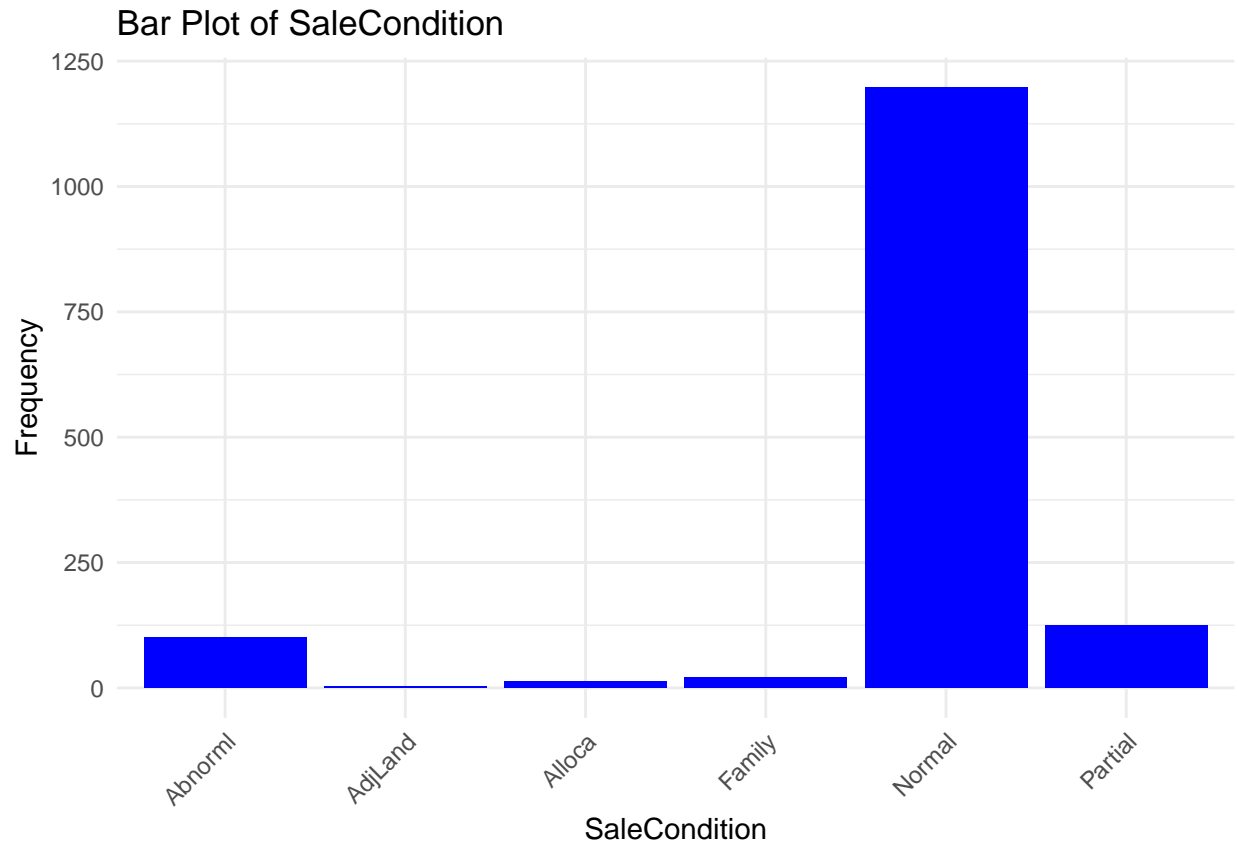












1. Most type of dwelling is 1-STORY 1946 & NEWER ALL STYLES, followed by 2-STORY 1946 & NEWER and 1-1/2 STORY FINISHED ALL AGES.
2. Most houses are in the Residential Low Density zone.
3. Majority of the houses have paved street and no alley access.
4. Most houses have a regular shape followed by slightly irregular
5. For LandContour, majority of the houses are near flat;For utilities majority have all public utilities - Electricity, Water, Gas and Sewer.
6. Majority of the houses lot configuration is inside and have gentle slope.
7. Majority of the houses are located in North Ames, are in a normal proximity to various conditions.
8. Most of the buildings are single family detached, one story followed by two story.
9. Rates the overall material and finish of the house are mainly in the range average(5),above average(6) and good(7) and overall condition of the house is mainly average(5).
10. Type of roof is mainly Gable with most of the roof material as Standard (Composite) Shingle
11. Most exterior covering of houses is Vinyl Siding and have no Masonry veneer

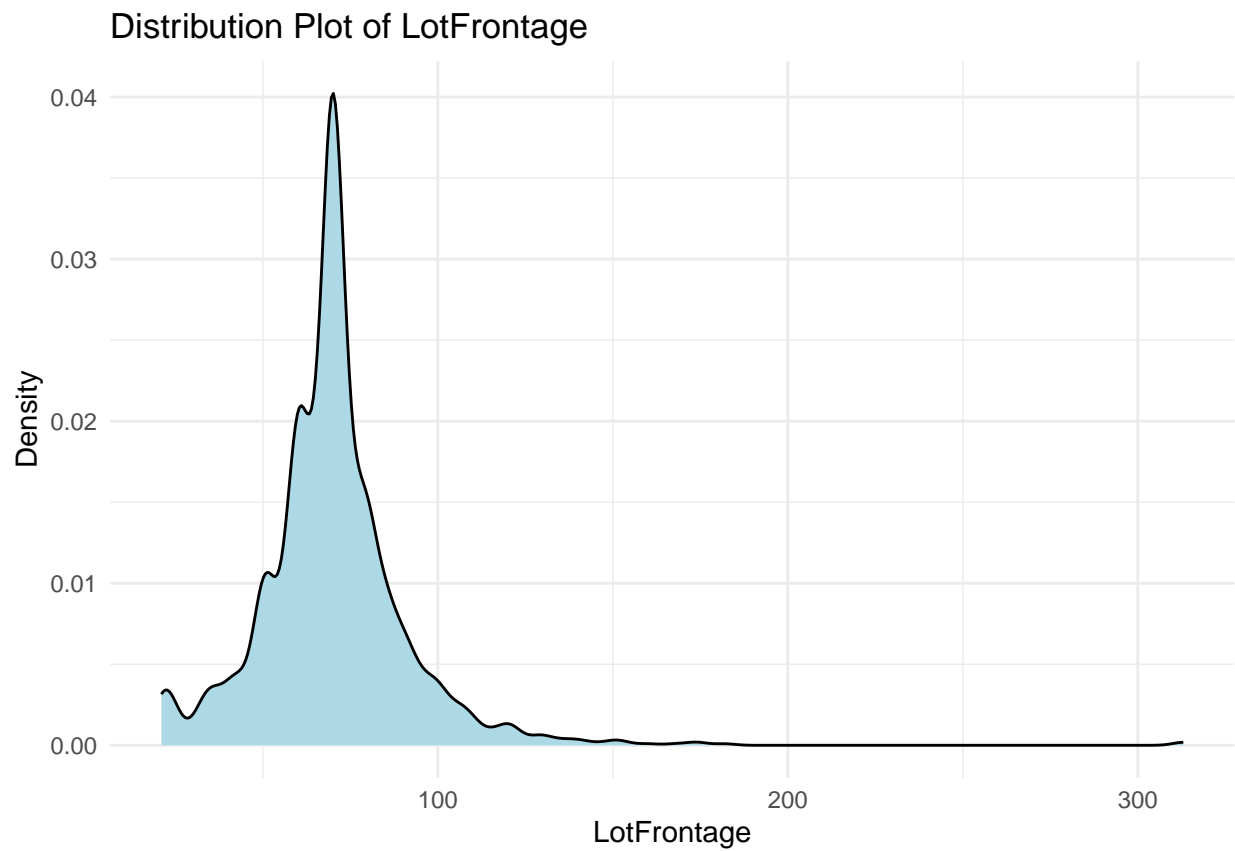
- Numerical variables

```

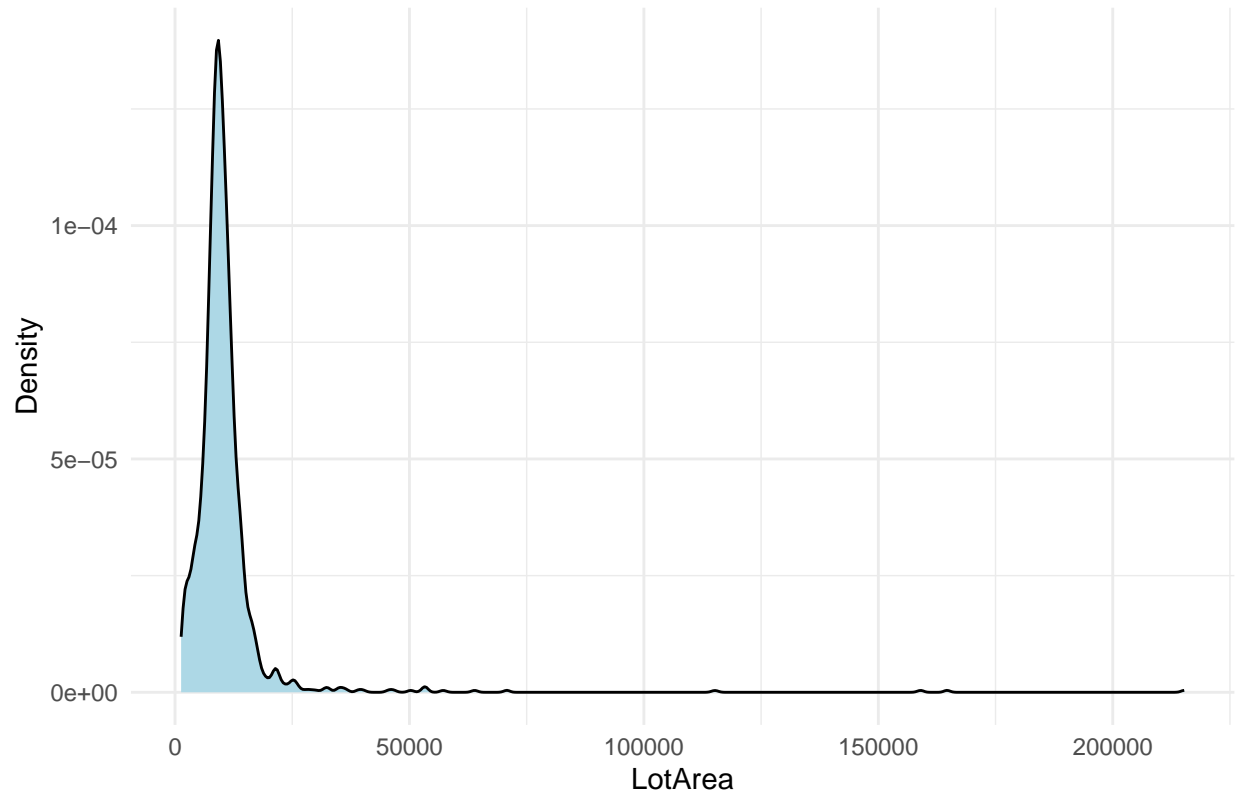
numer_c <- names(train)[sapply(train, is.numeric)]

# Create barplot for each categorical variable in the dataset
for(num in numer_c) {
  density <- ggplot(train, aes(x = train[[num]])) +
    geom_density(fill = "lightblue") +
    labs(title = paste("Distribution Plot of", num), x = num, y = "Density") +
    theme_minimal()
  print(density)
}

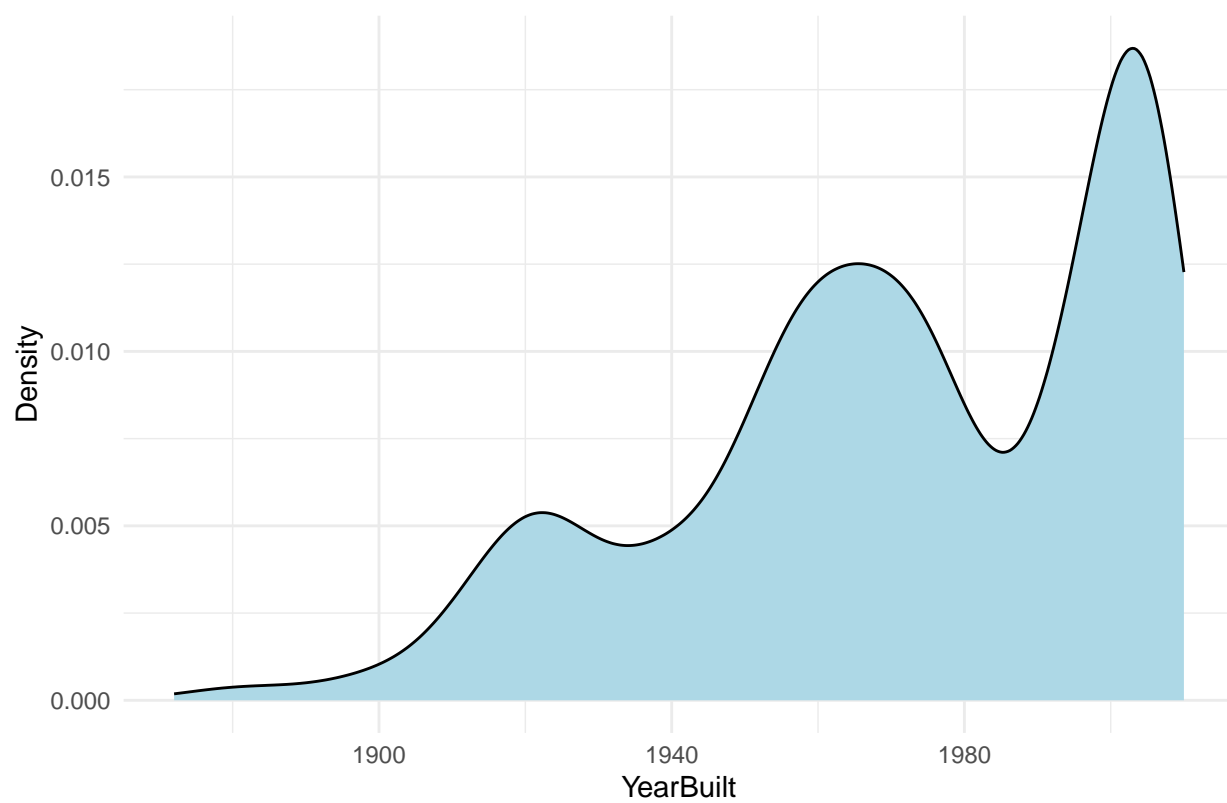
```

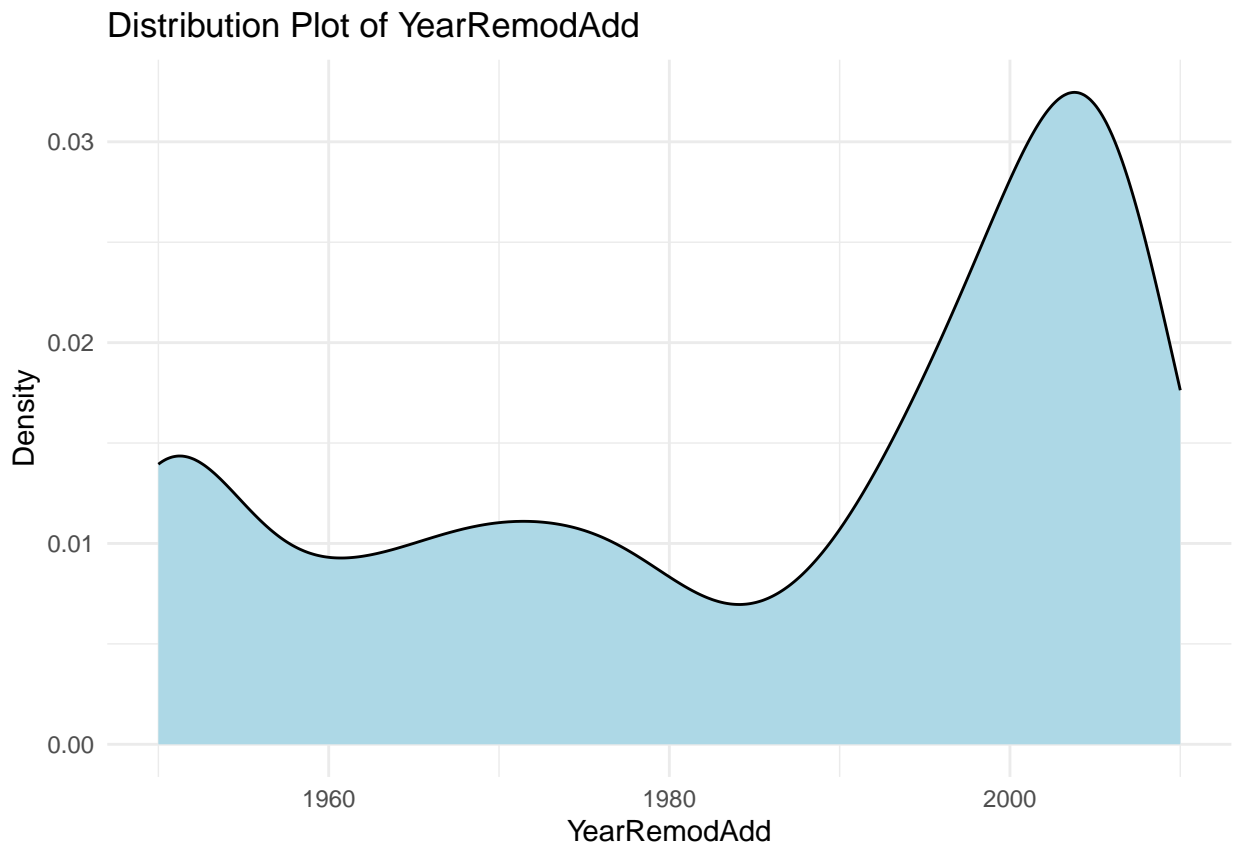


Distribution Plot of LotArea

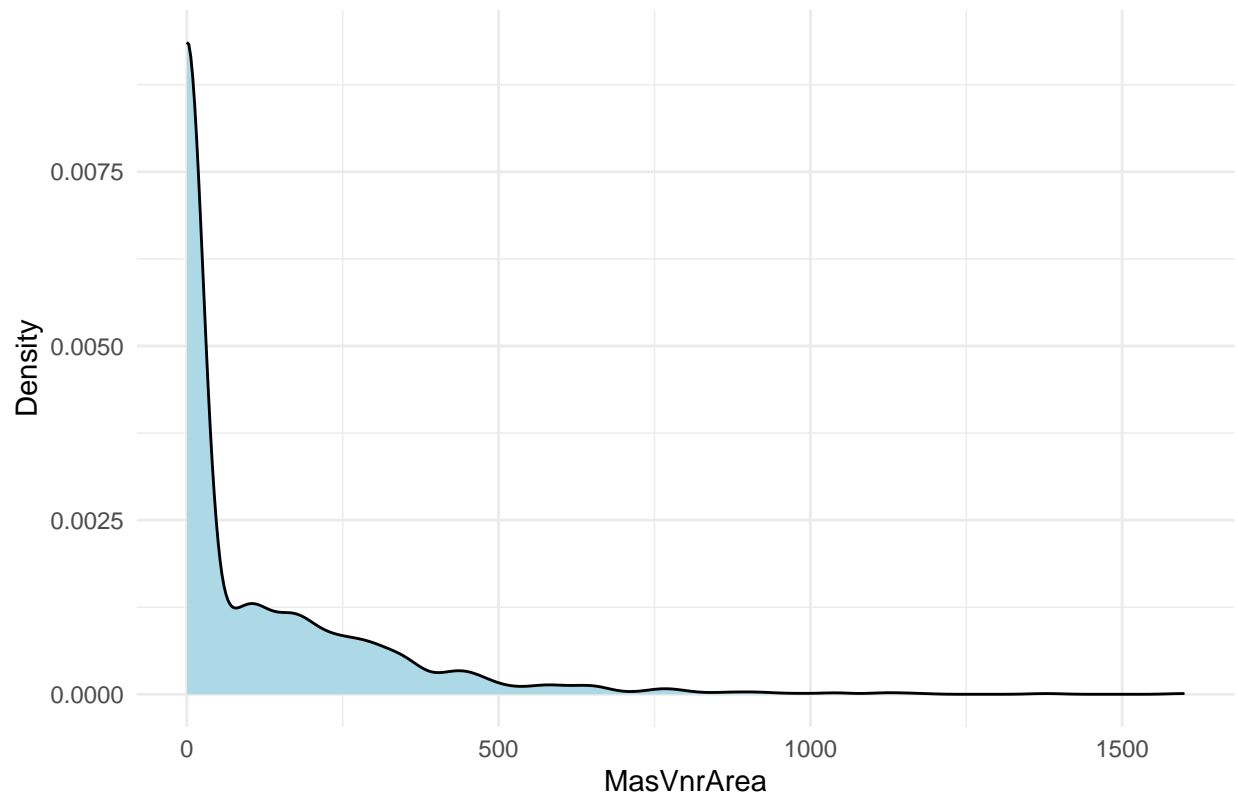


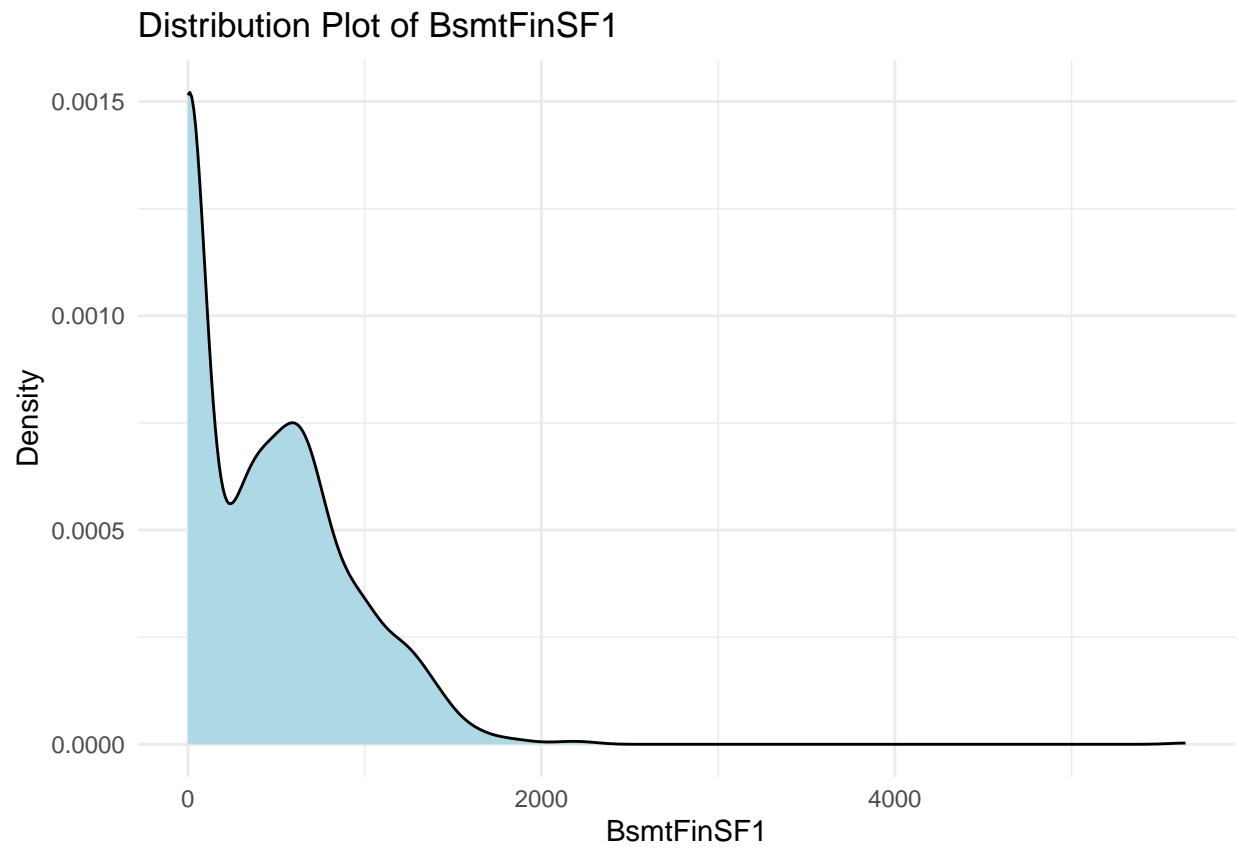
Distribution Plot of YearBuilt





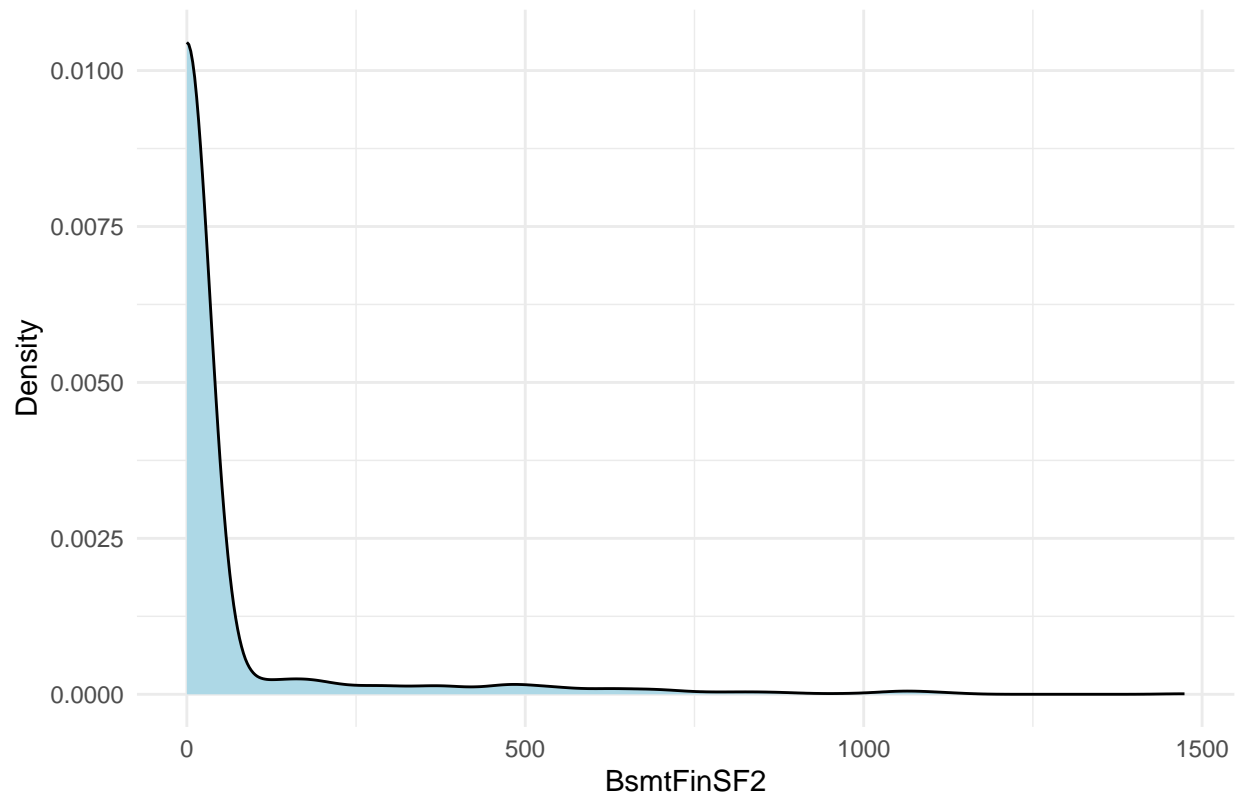
Distribution Plot of MasVnrArea

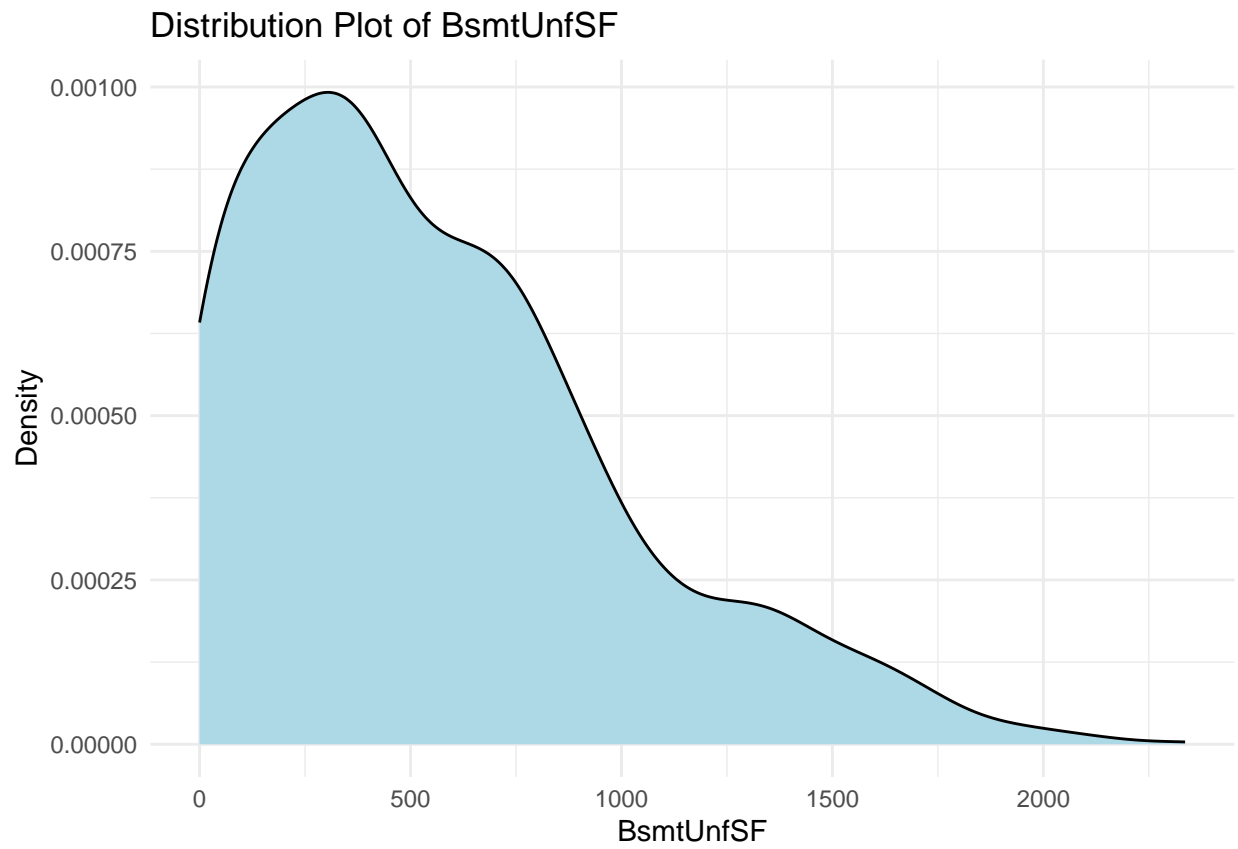




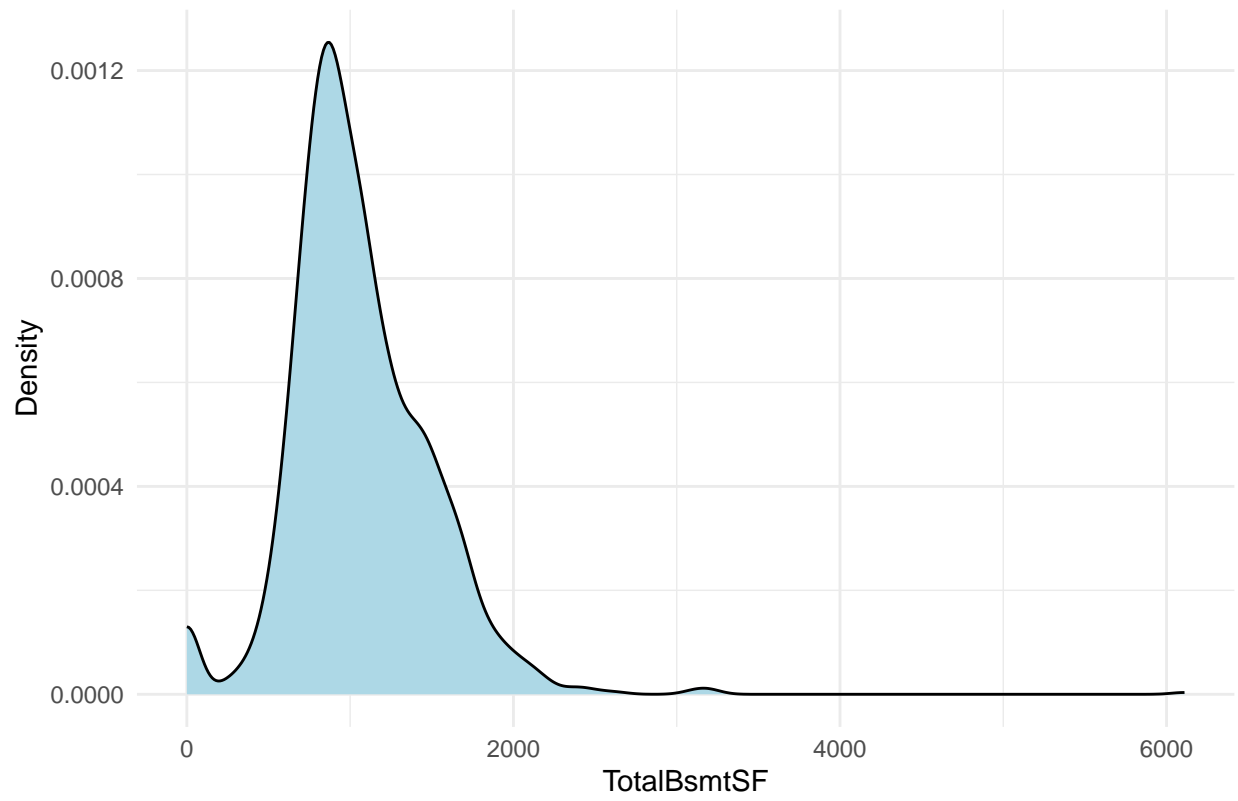


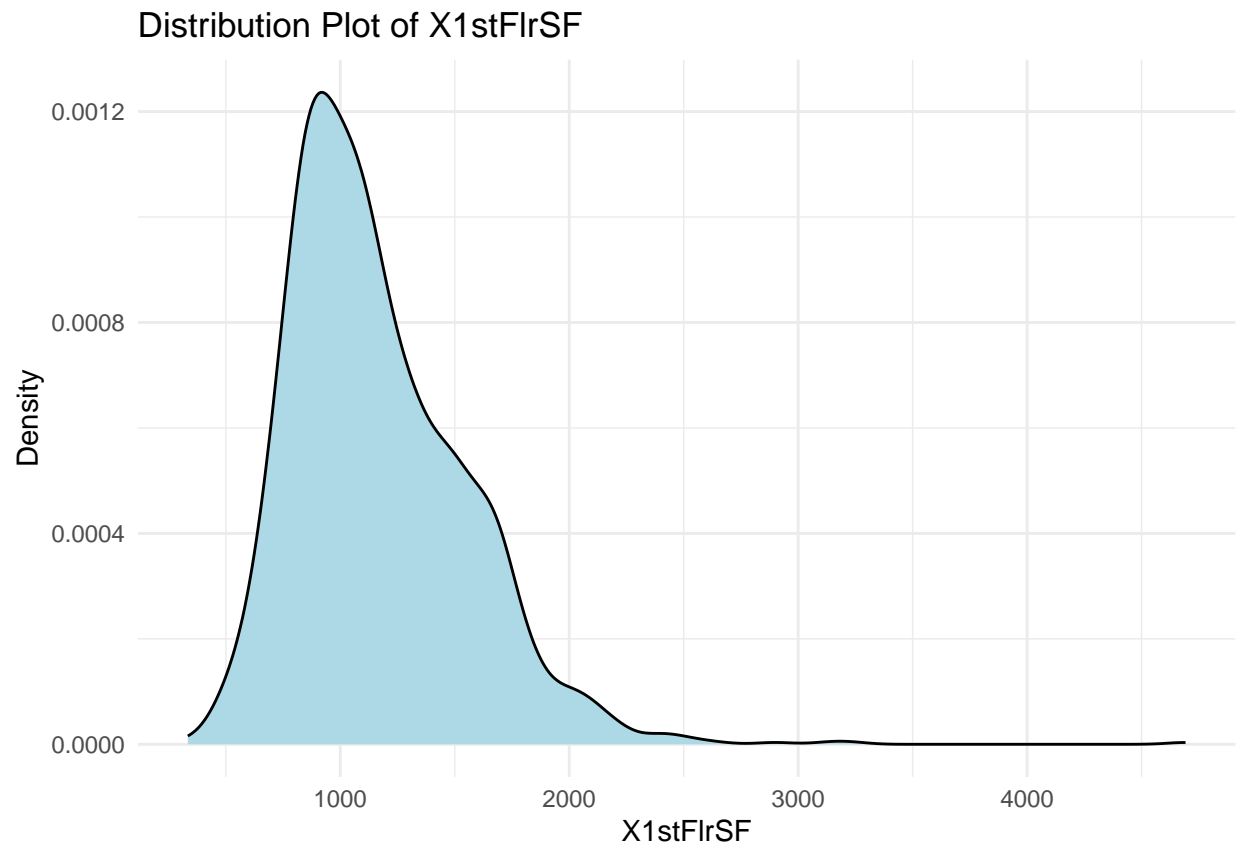
Distribution Plot of BsmtFinSF2

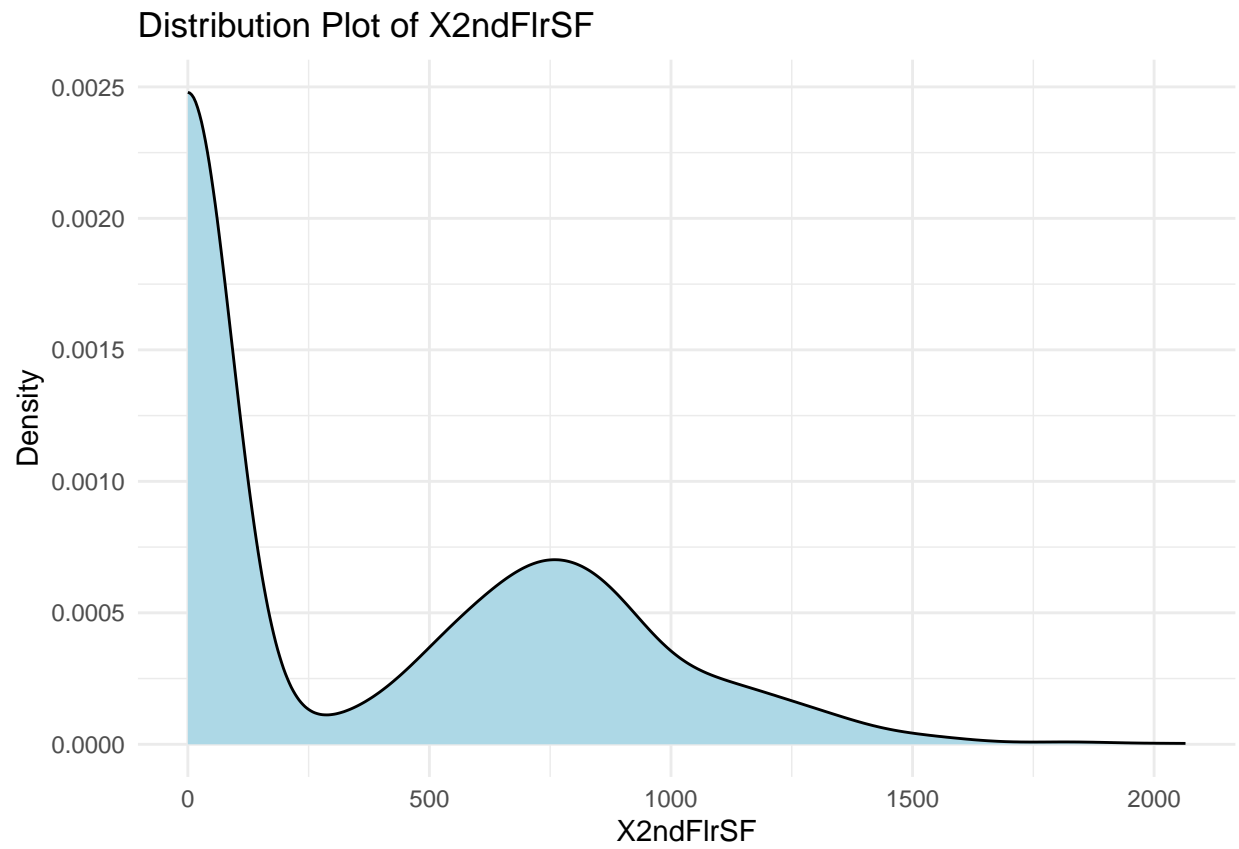


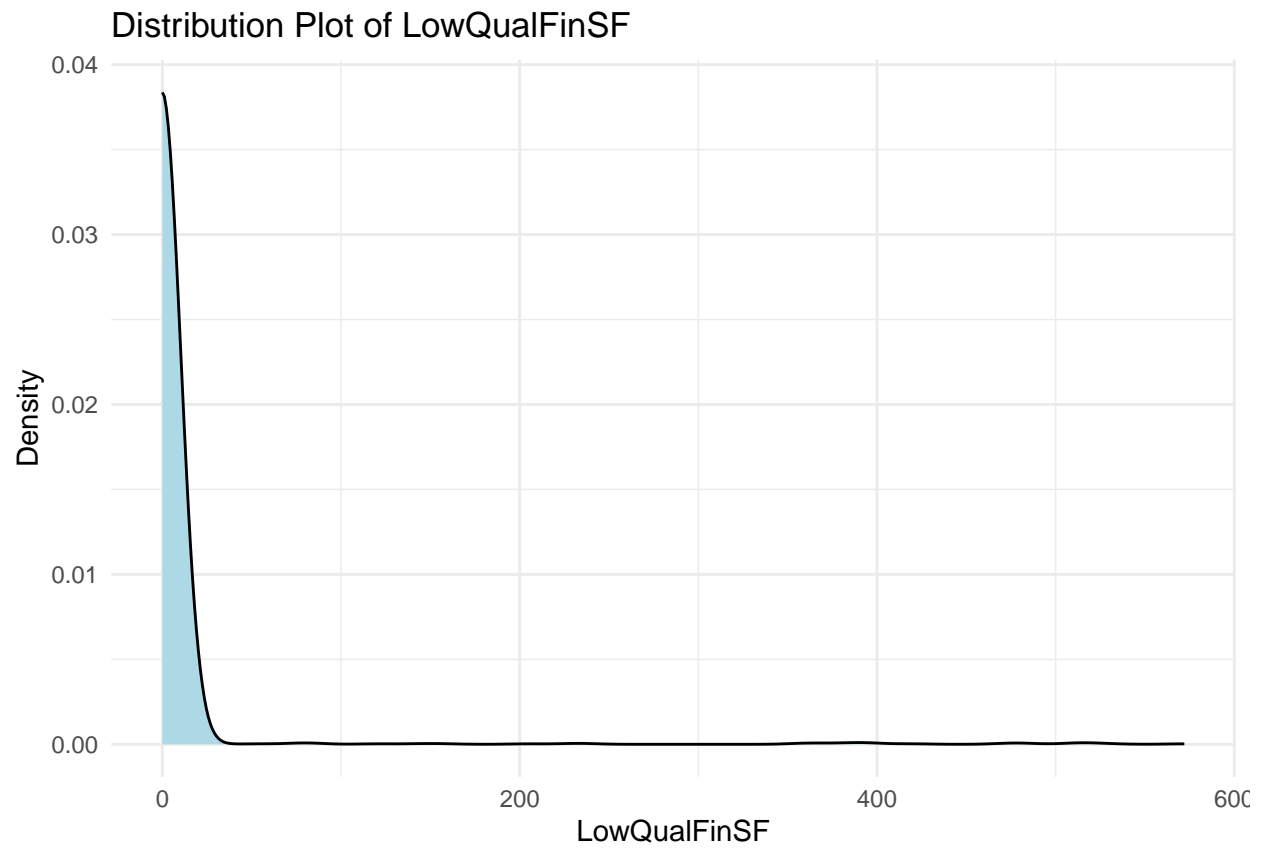


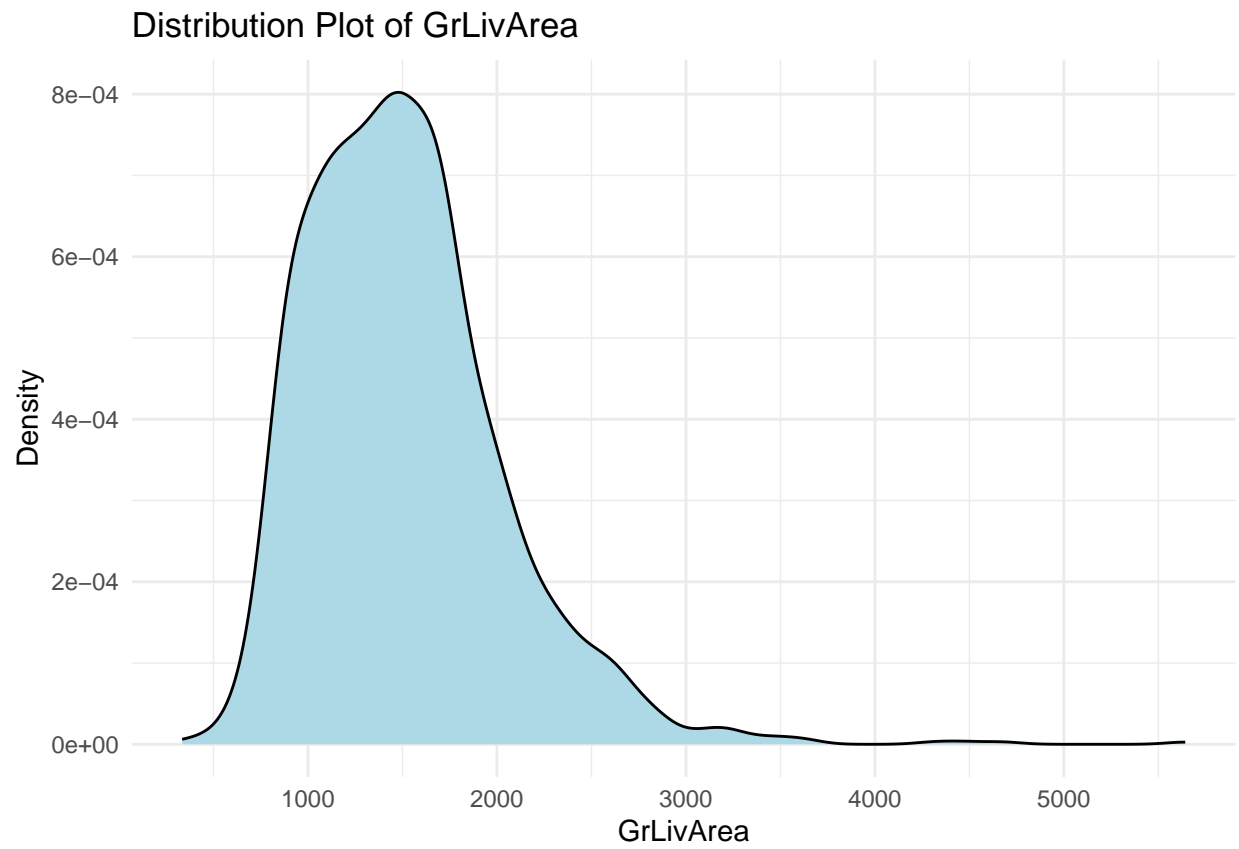
Distribution Plot of TotalBsmtSF

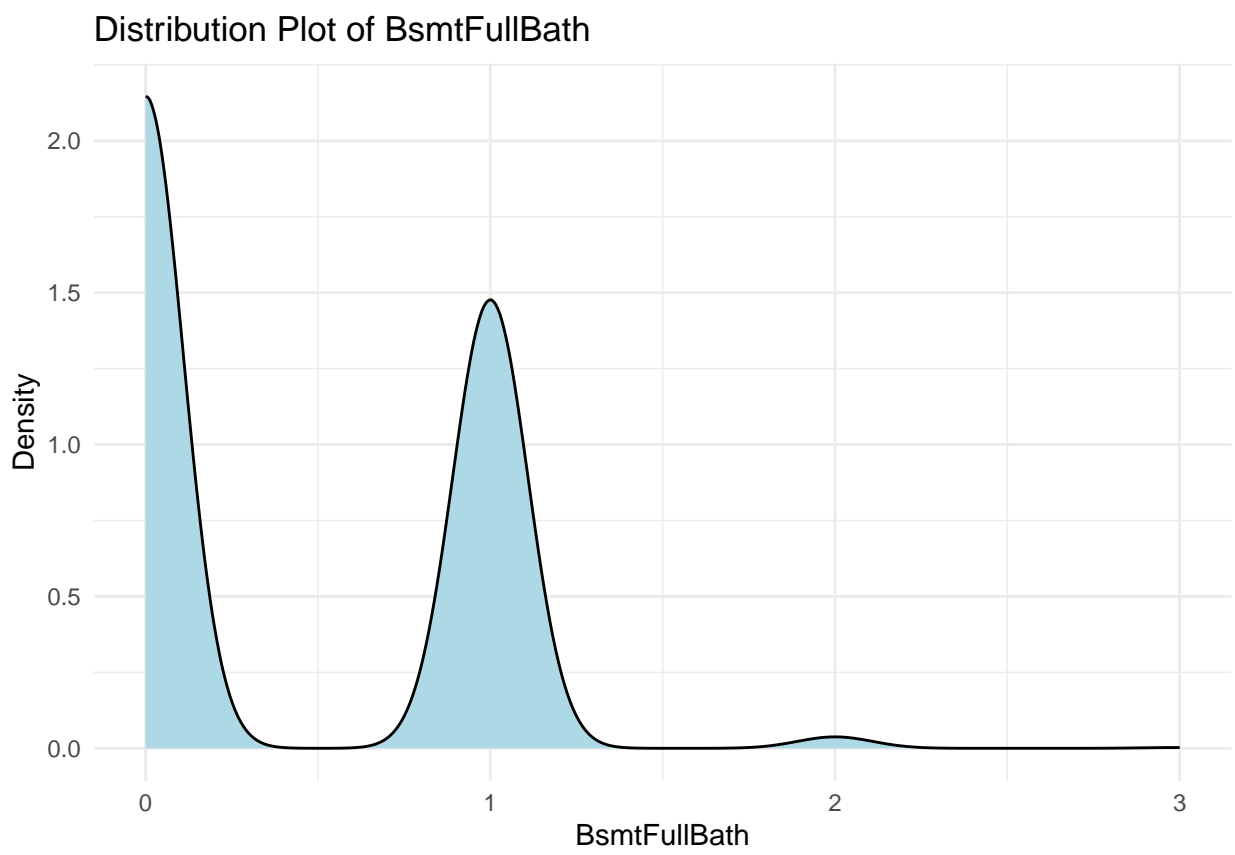






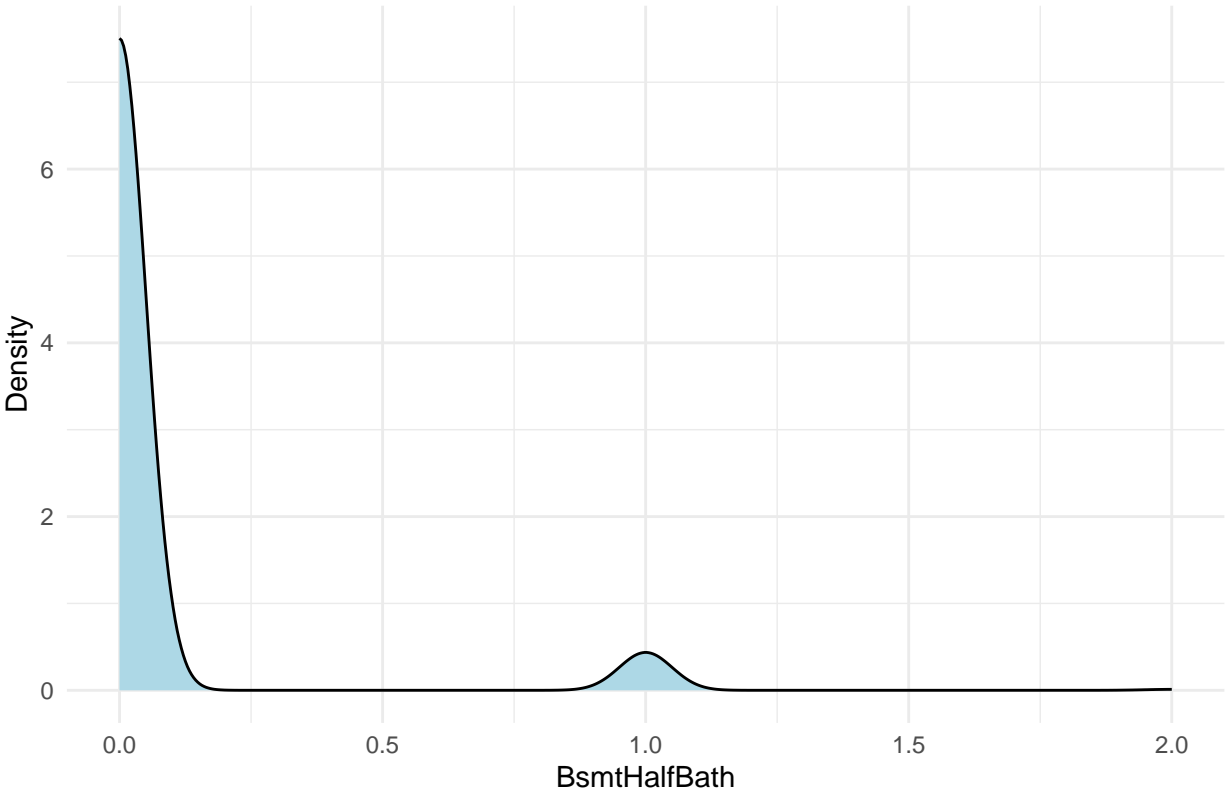




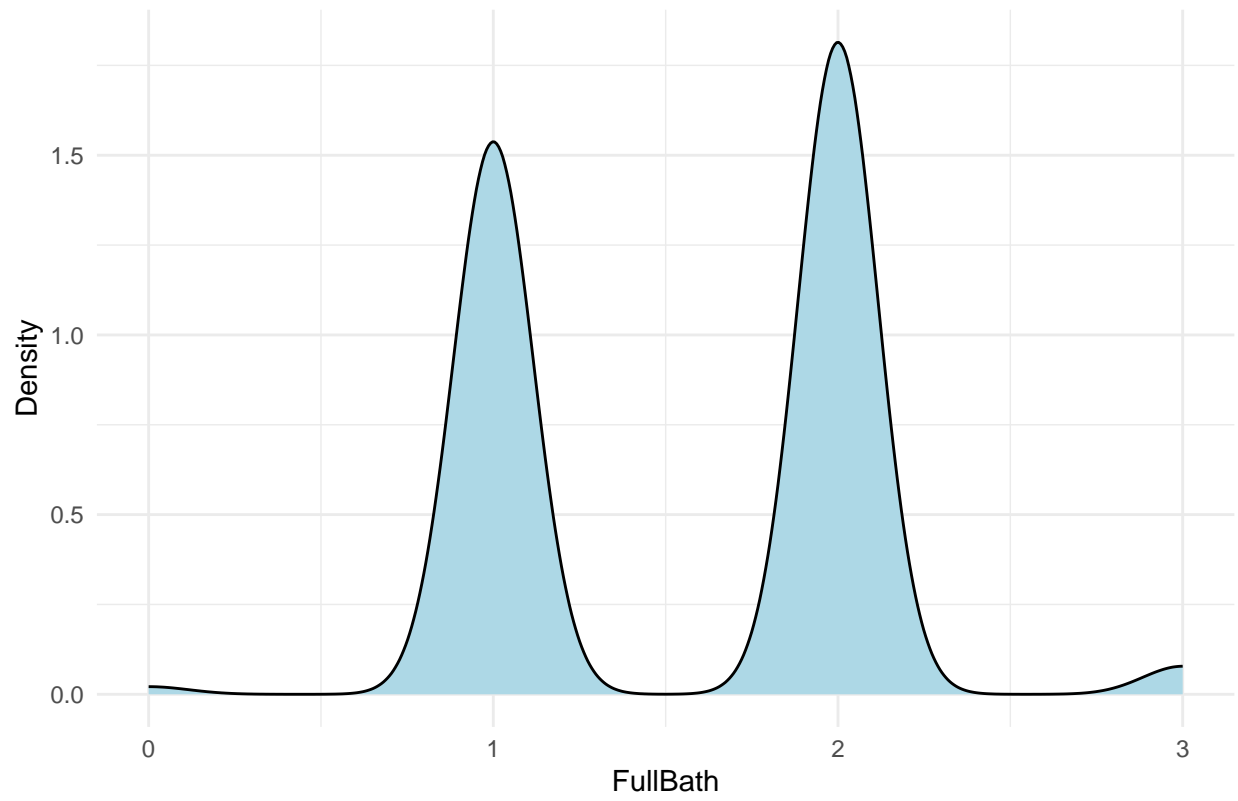


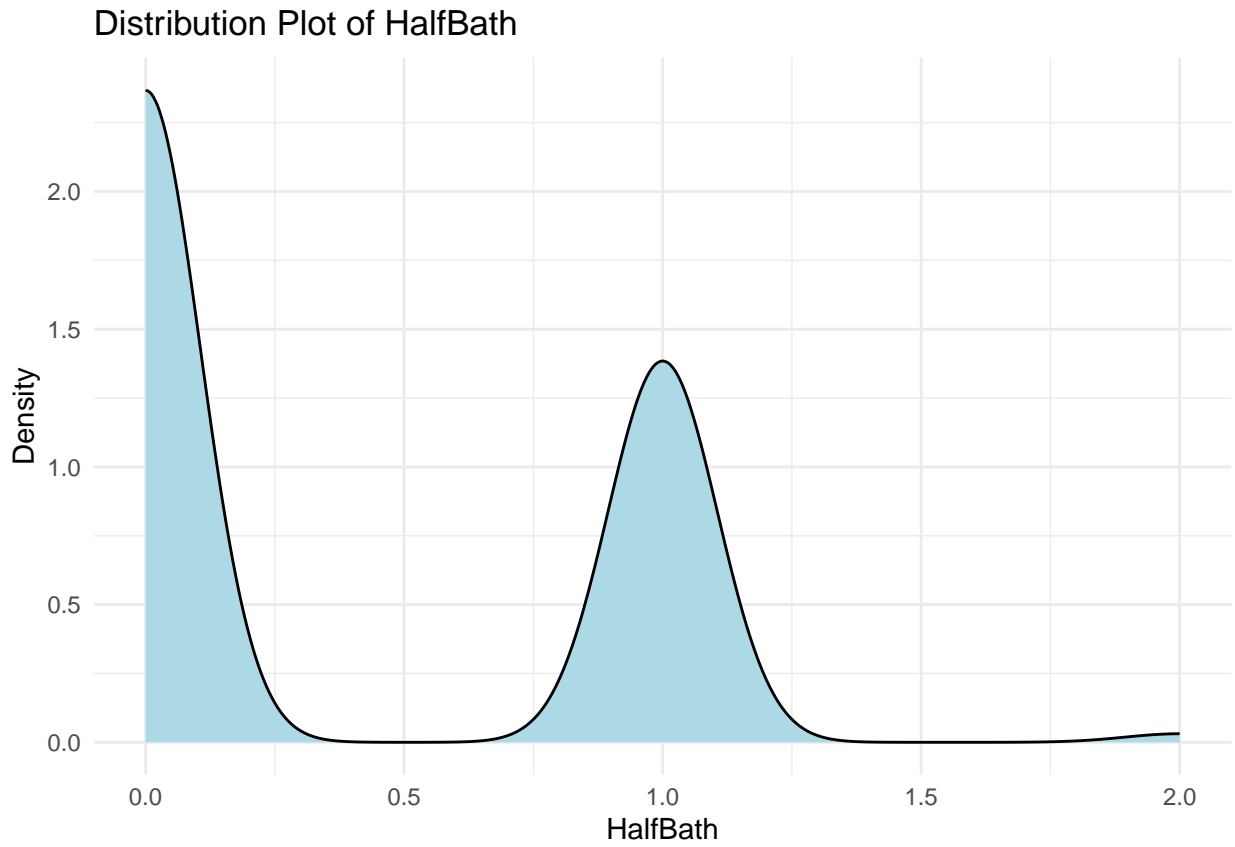


Distribution Plot of BsmtHalfBath

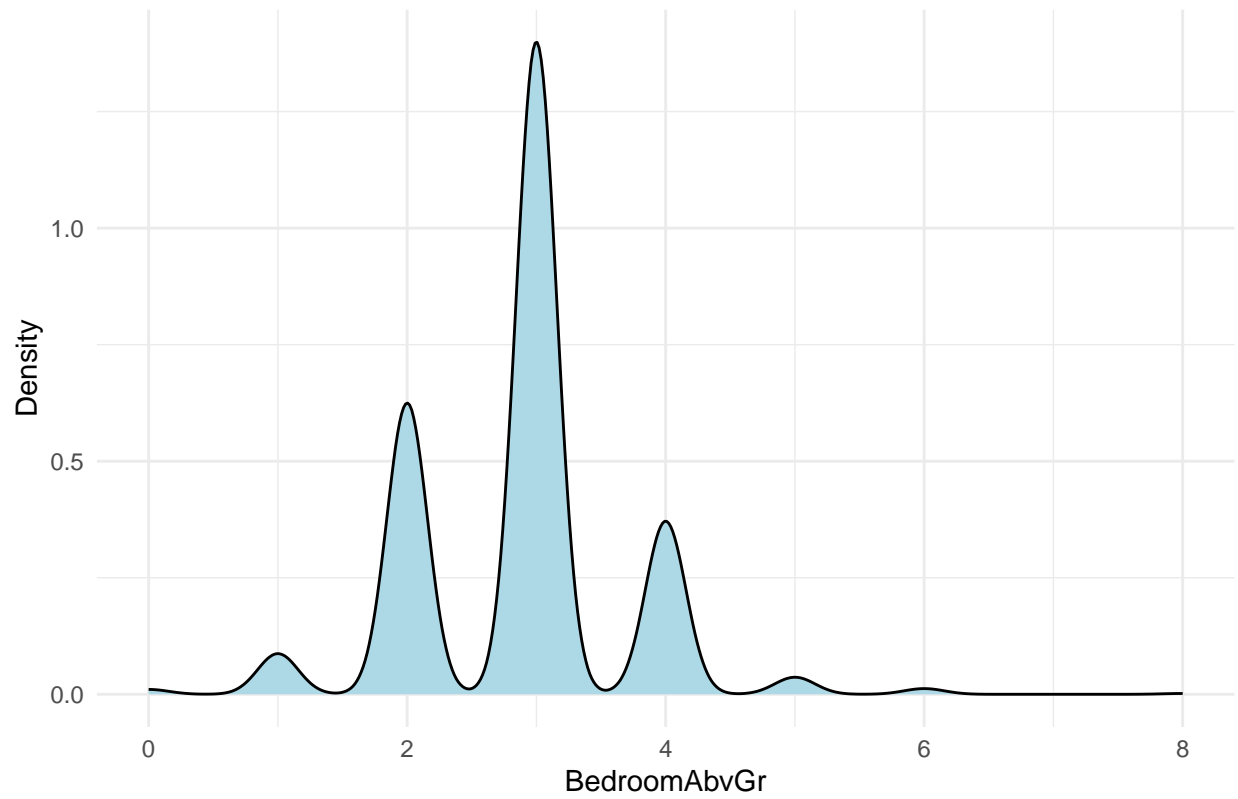


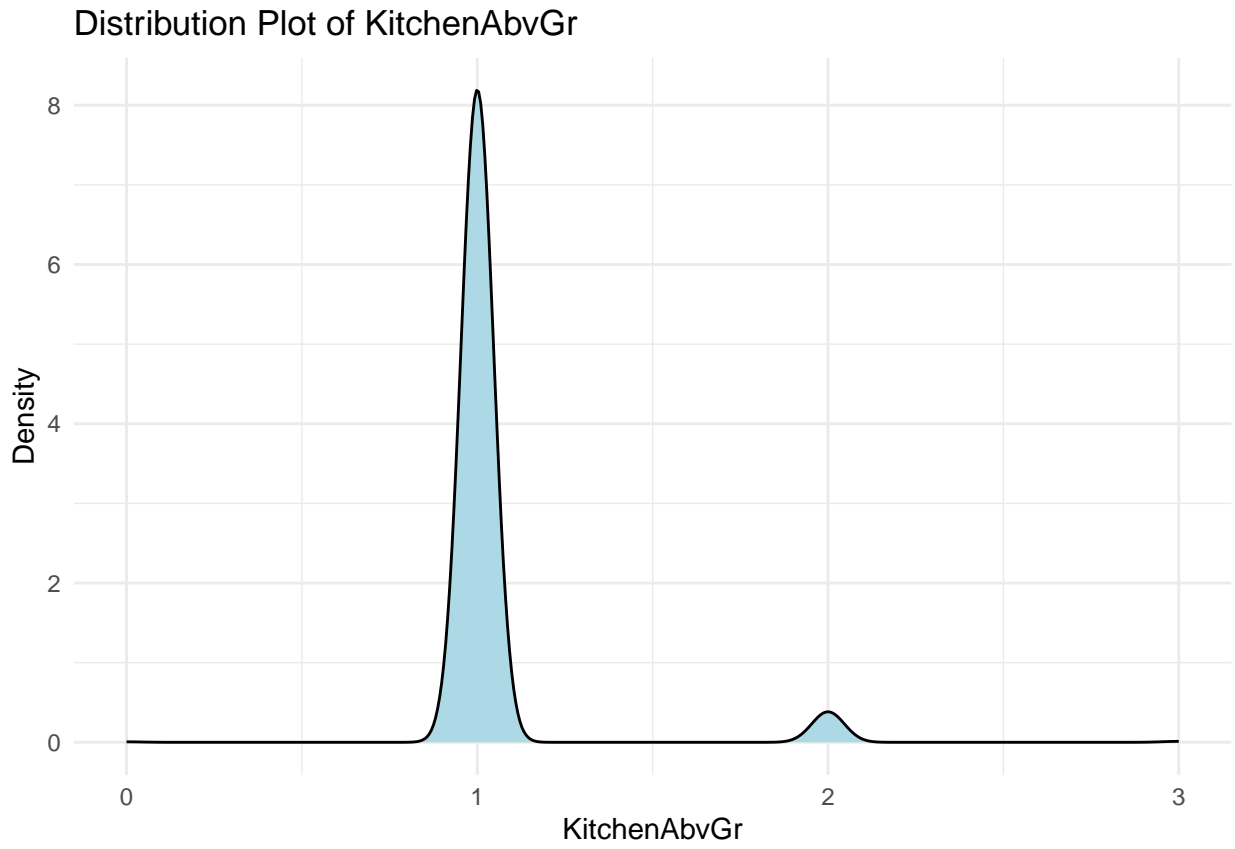
Distribution Plot of FullBath

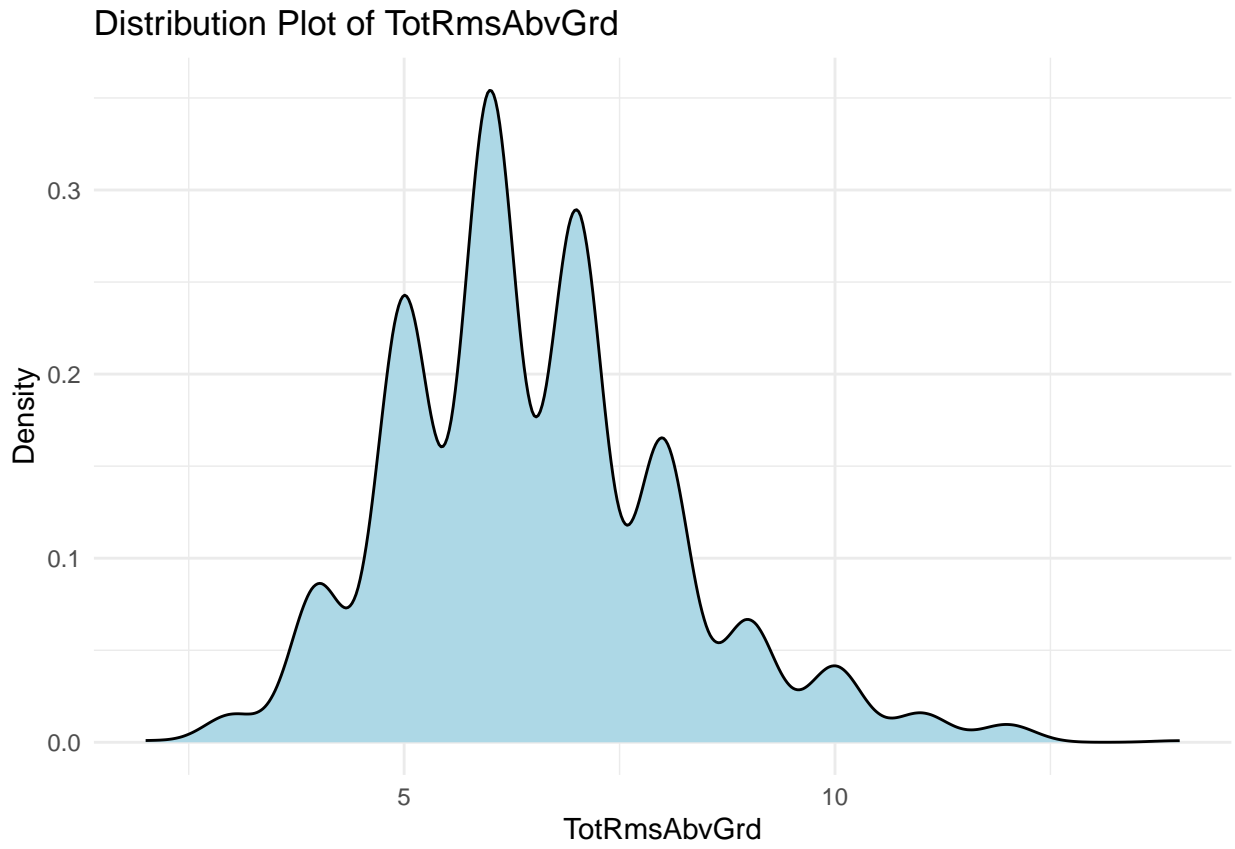


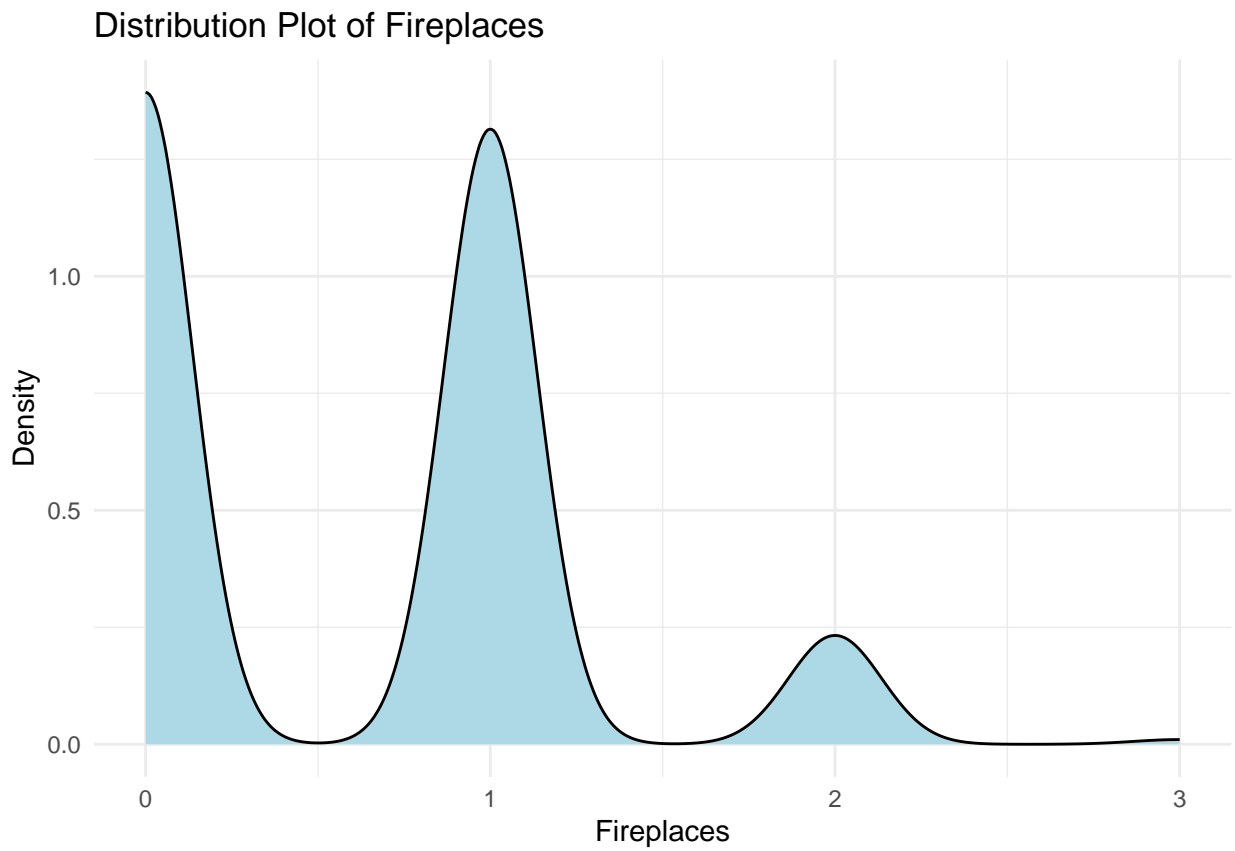


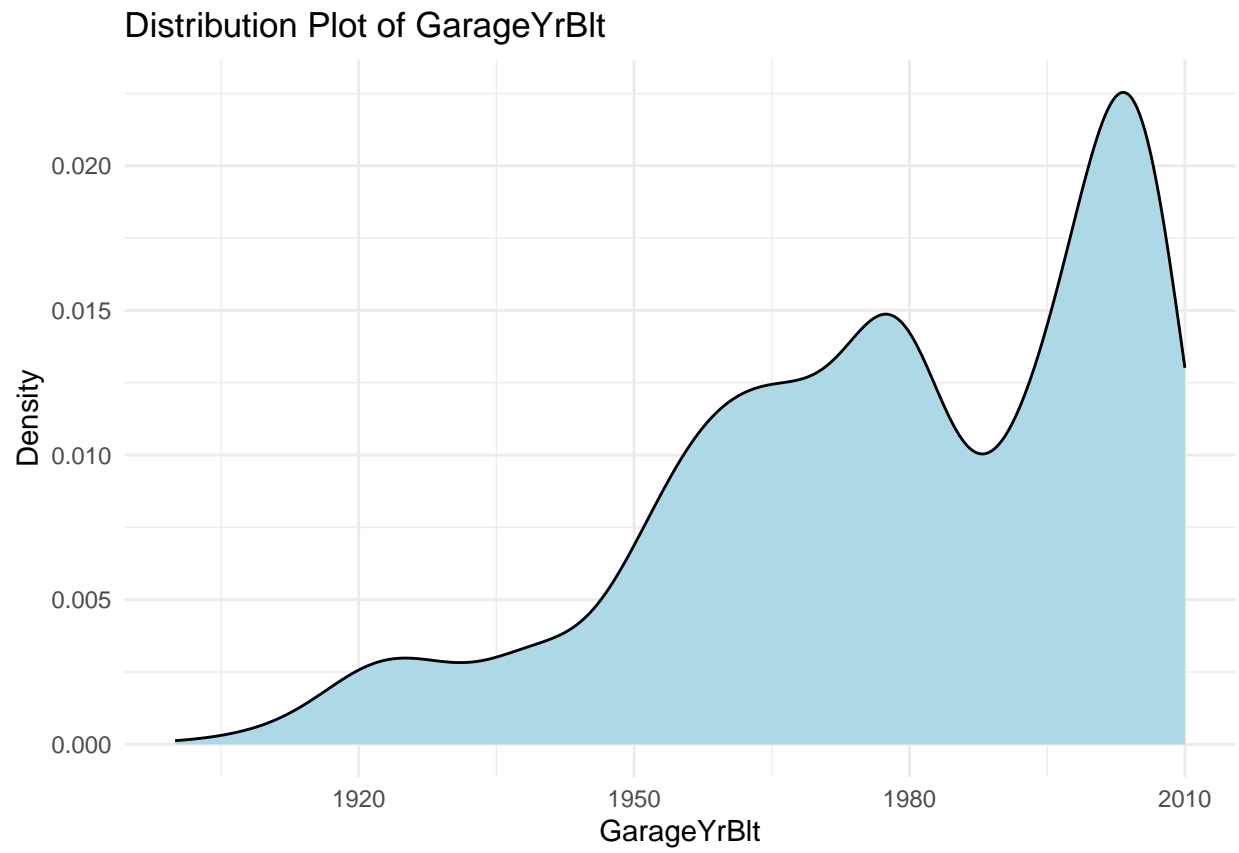
Distribution Plot of BedroomAbvGr



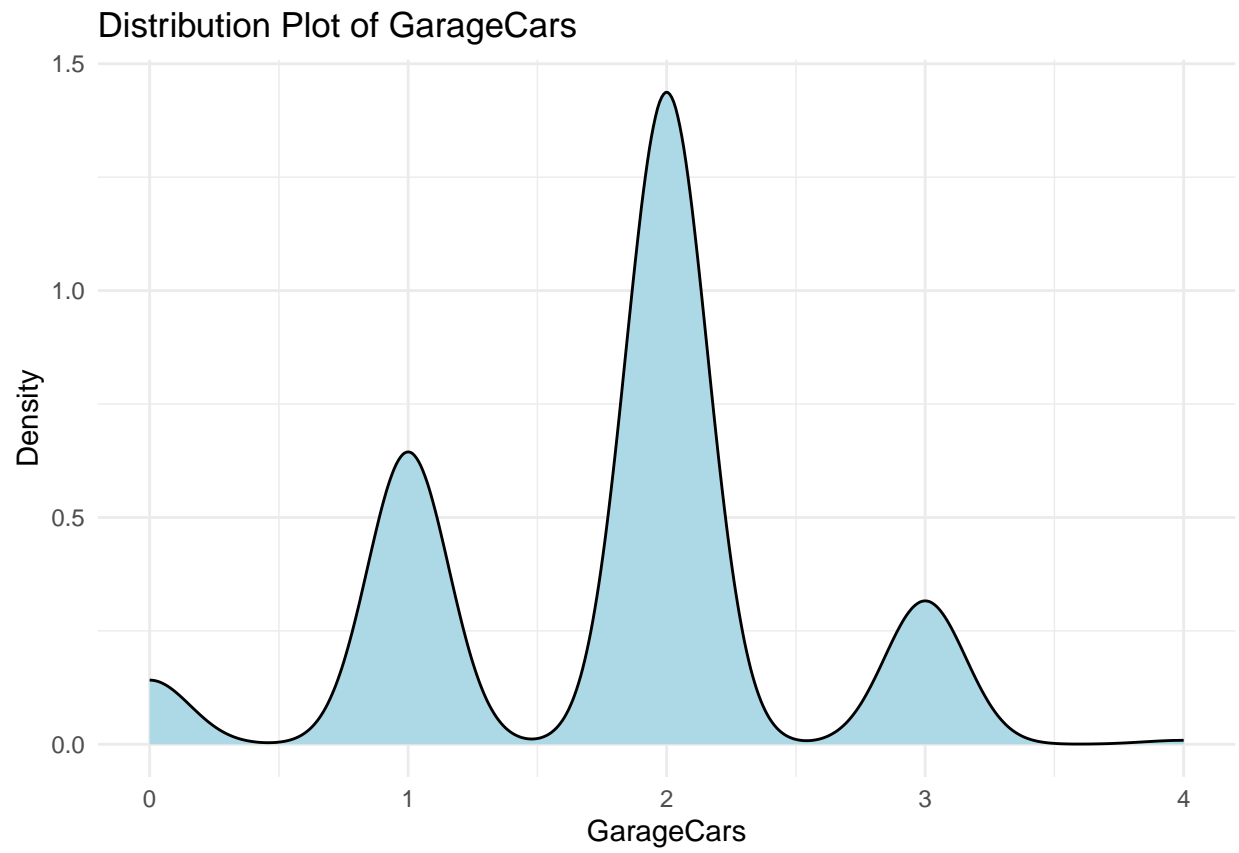


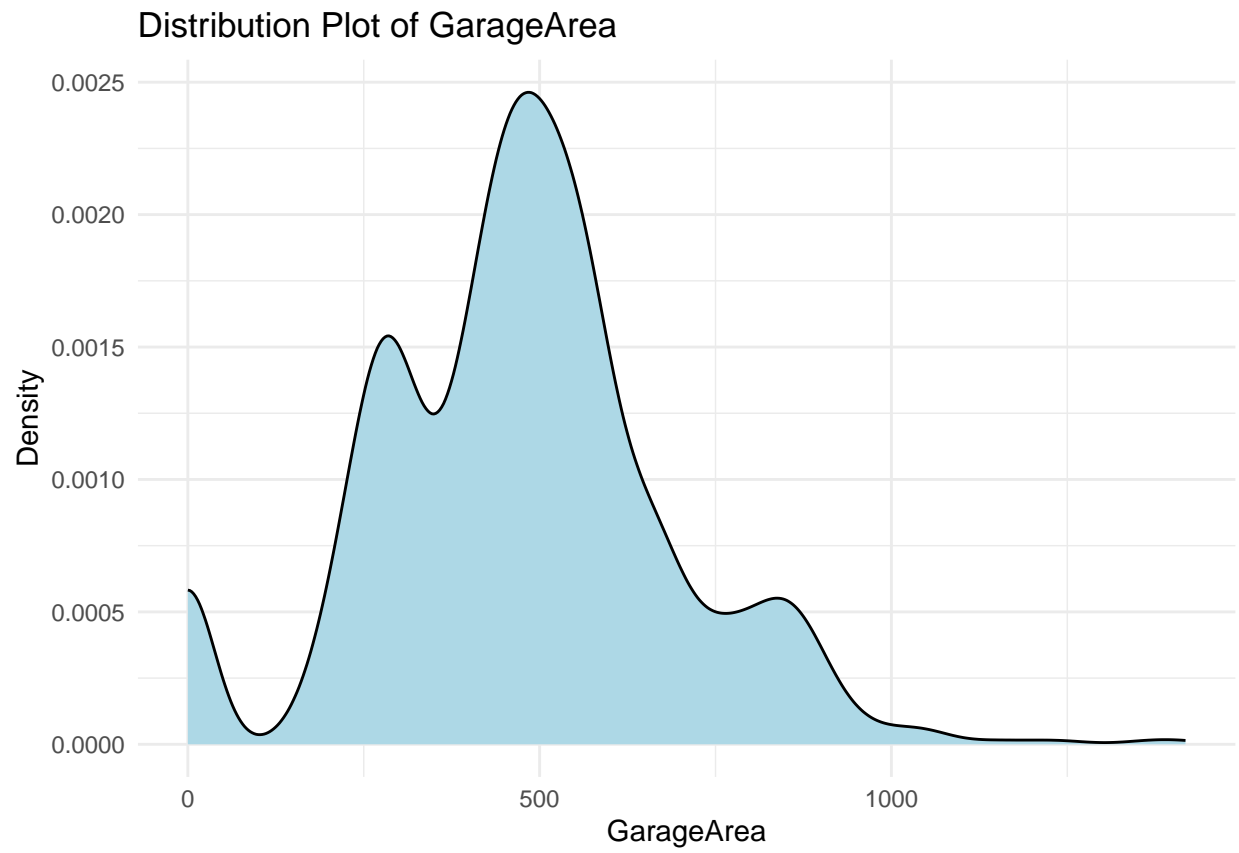


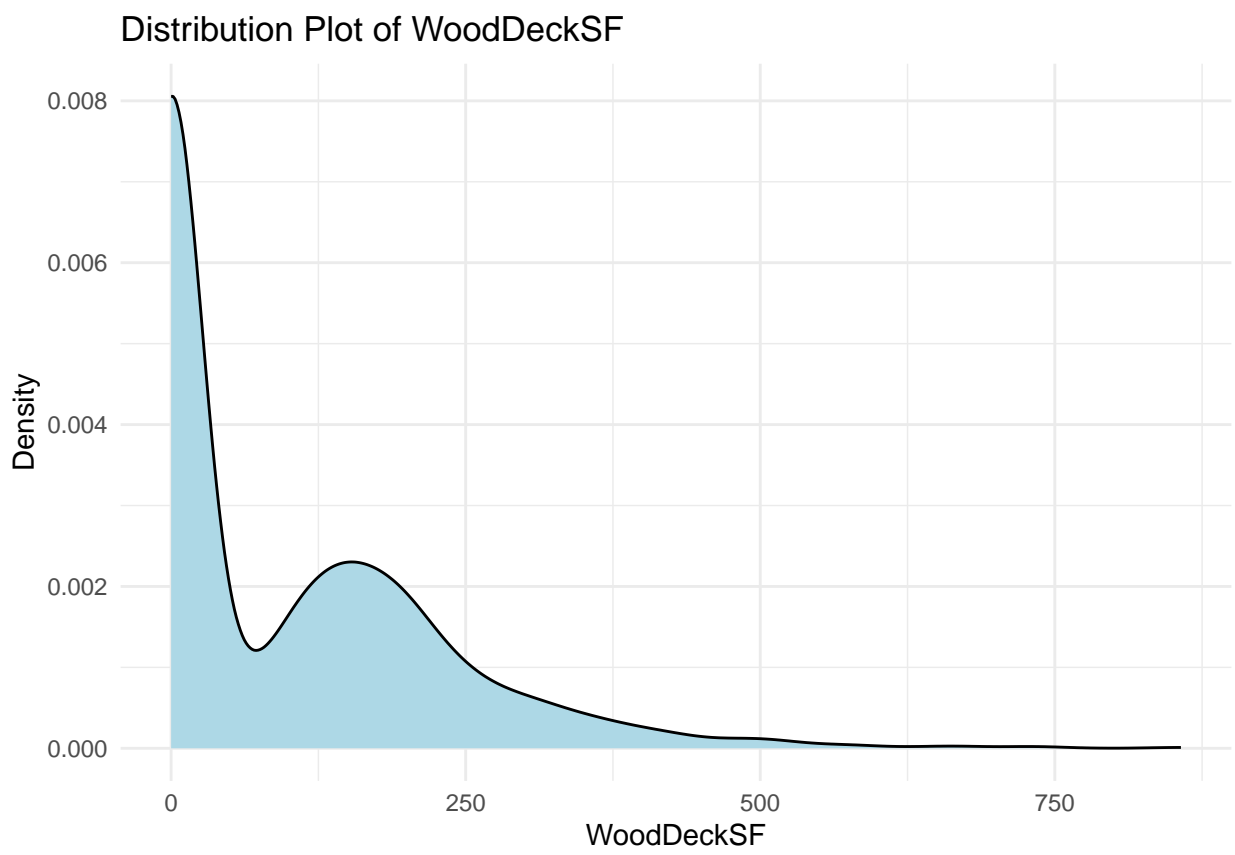




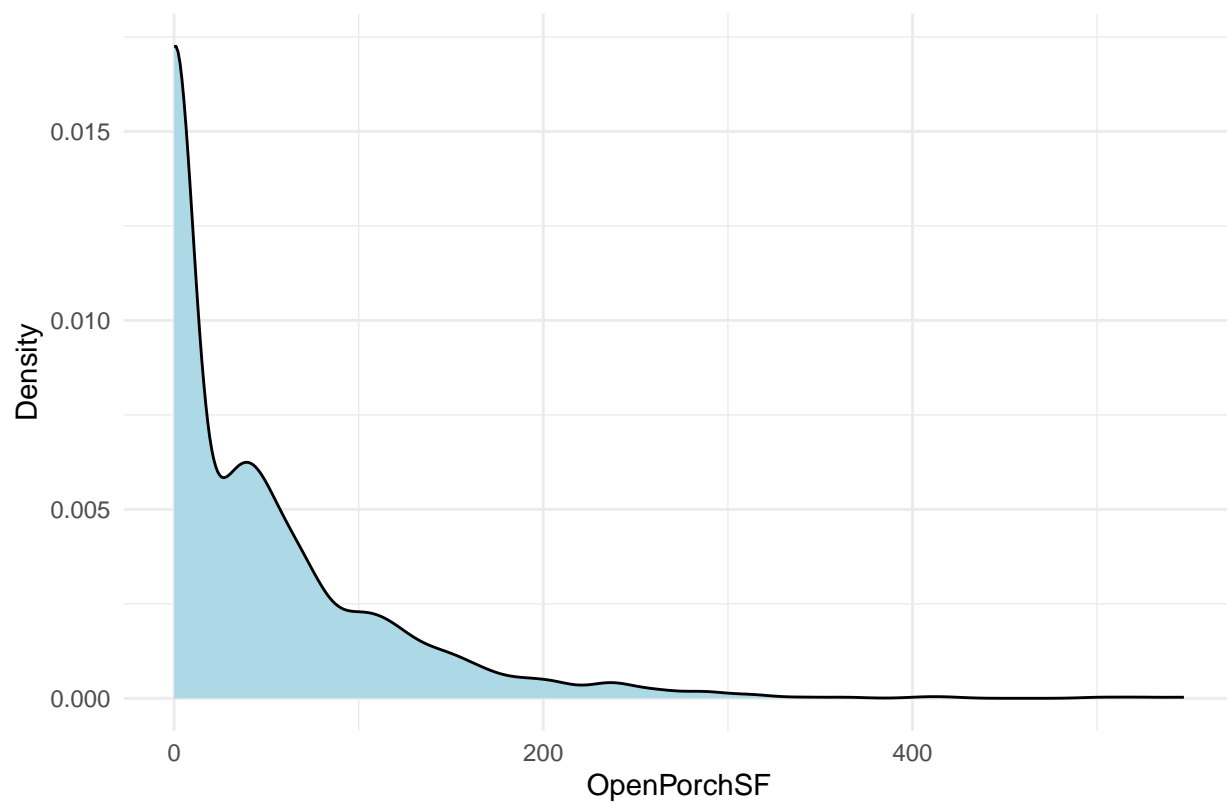


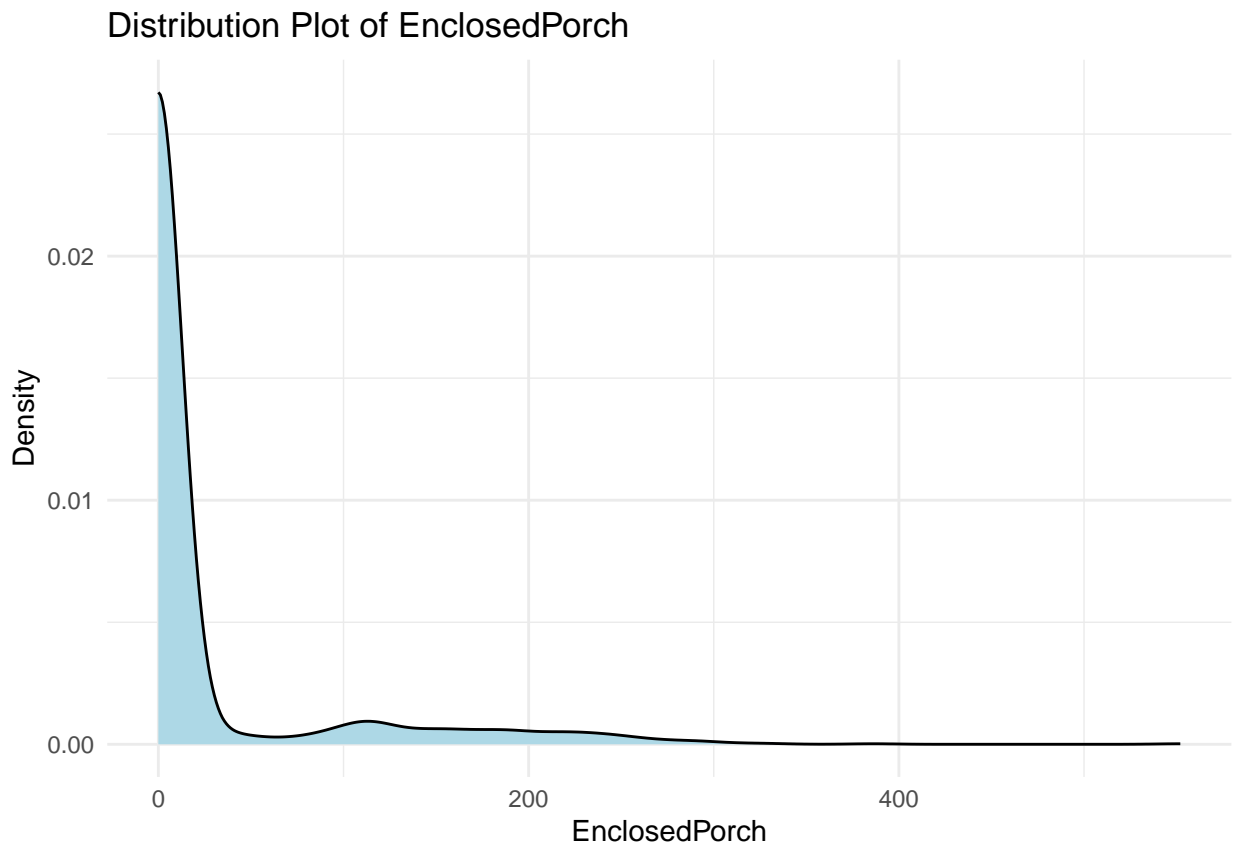


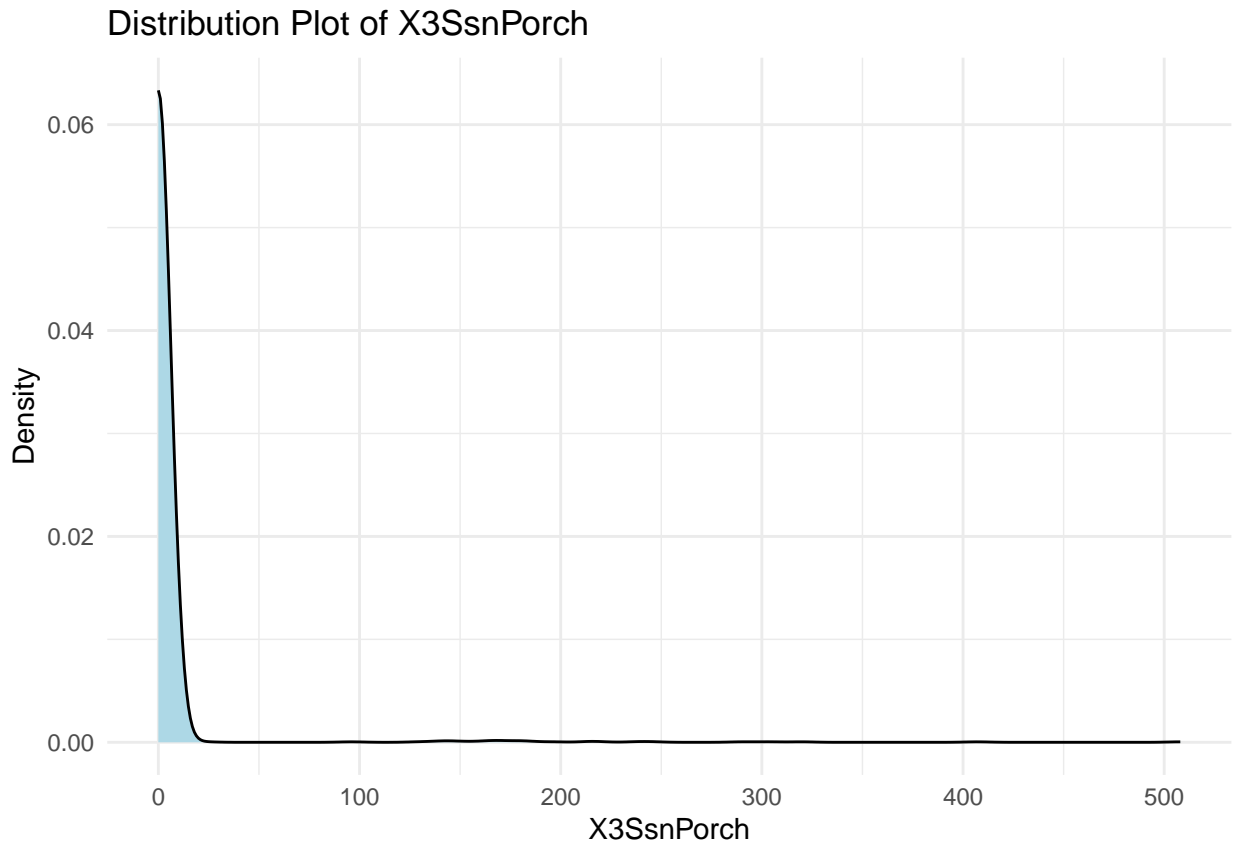


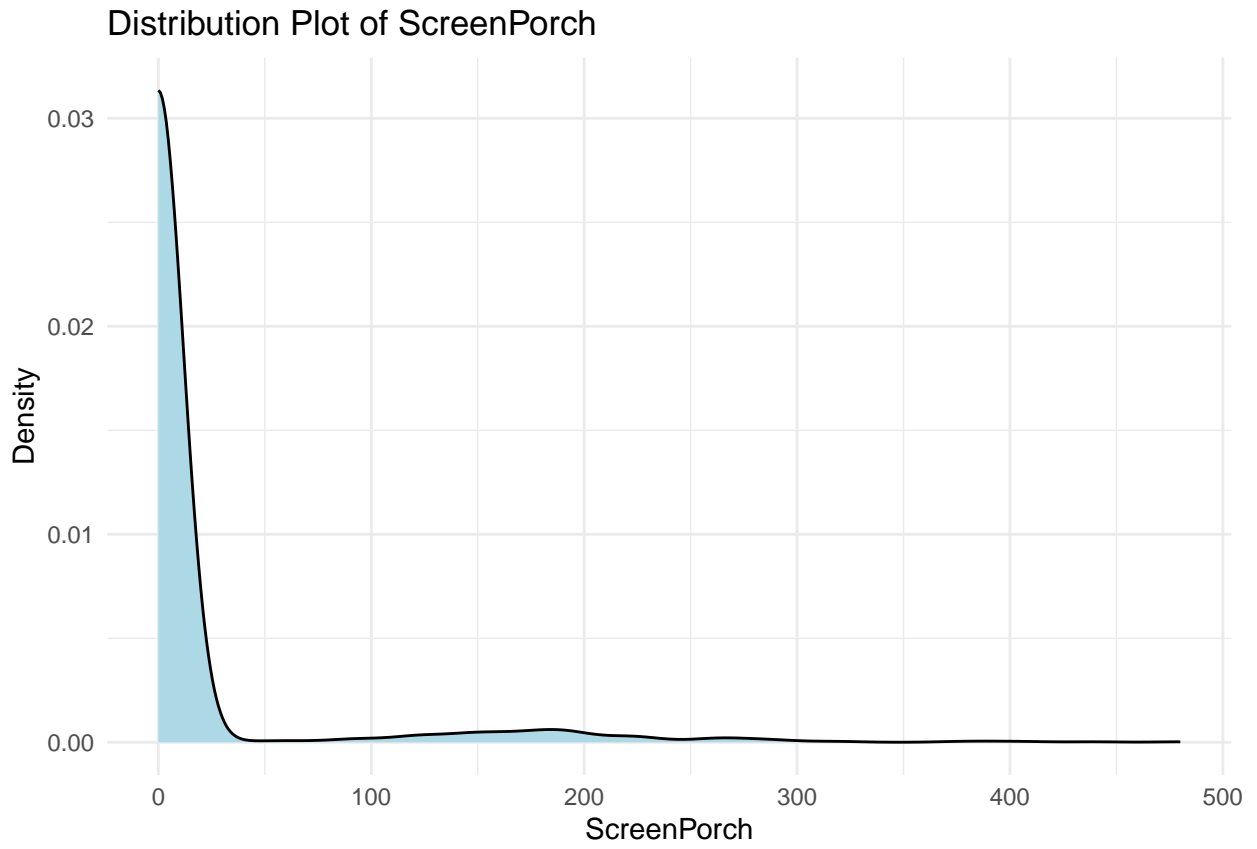


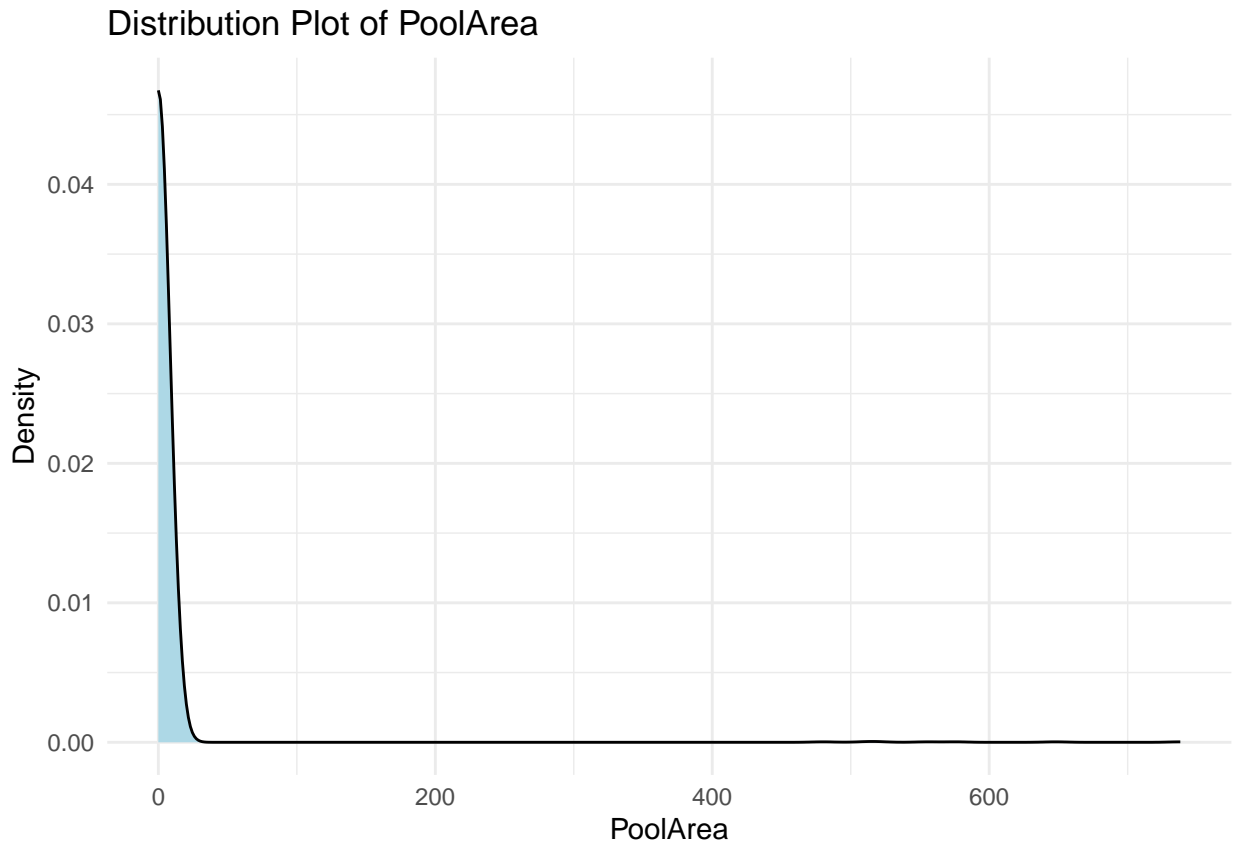
Distribution Plot of OpenPorchSF



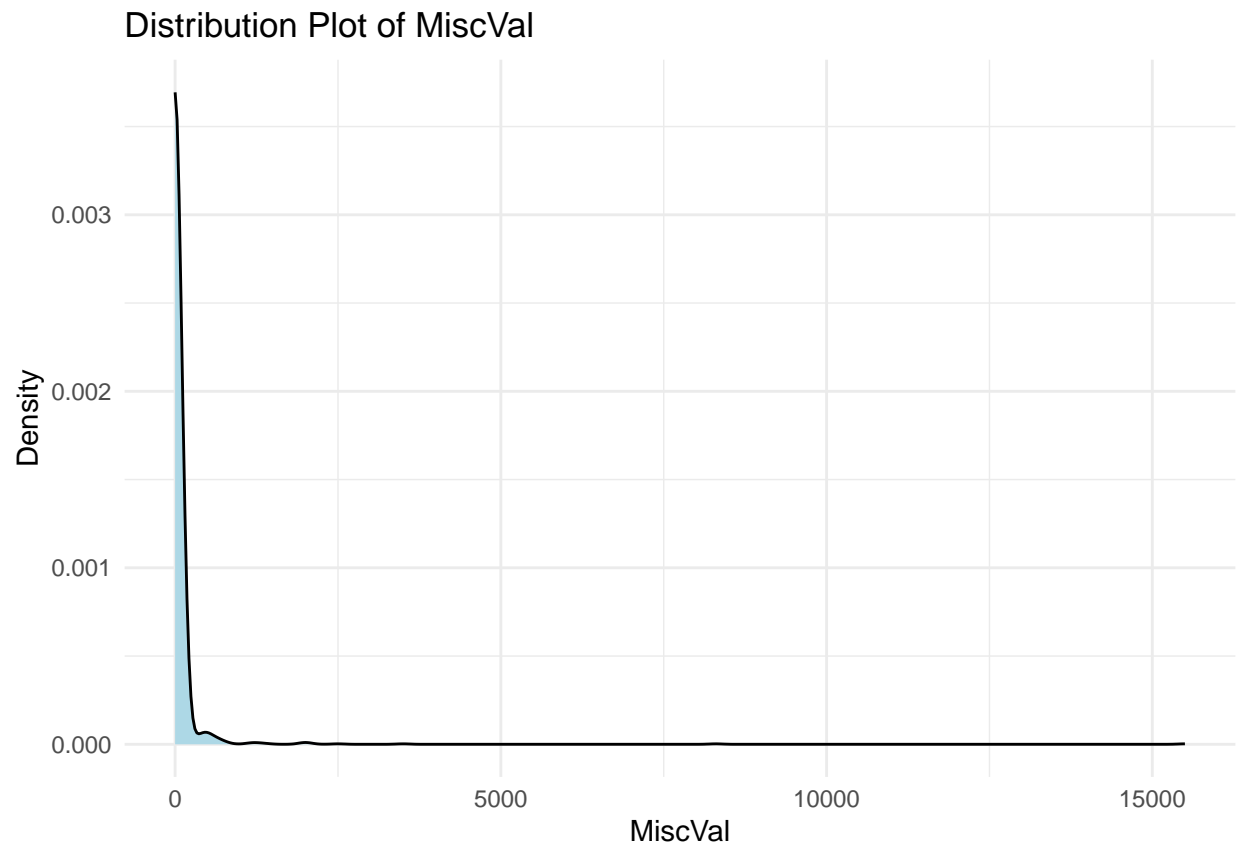


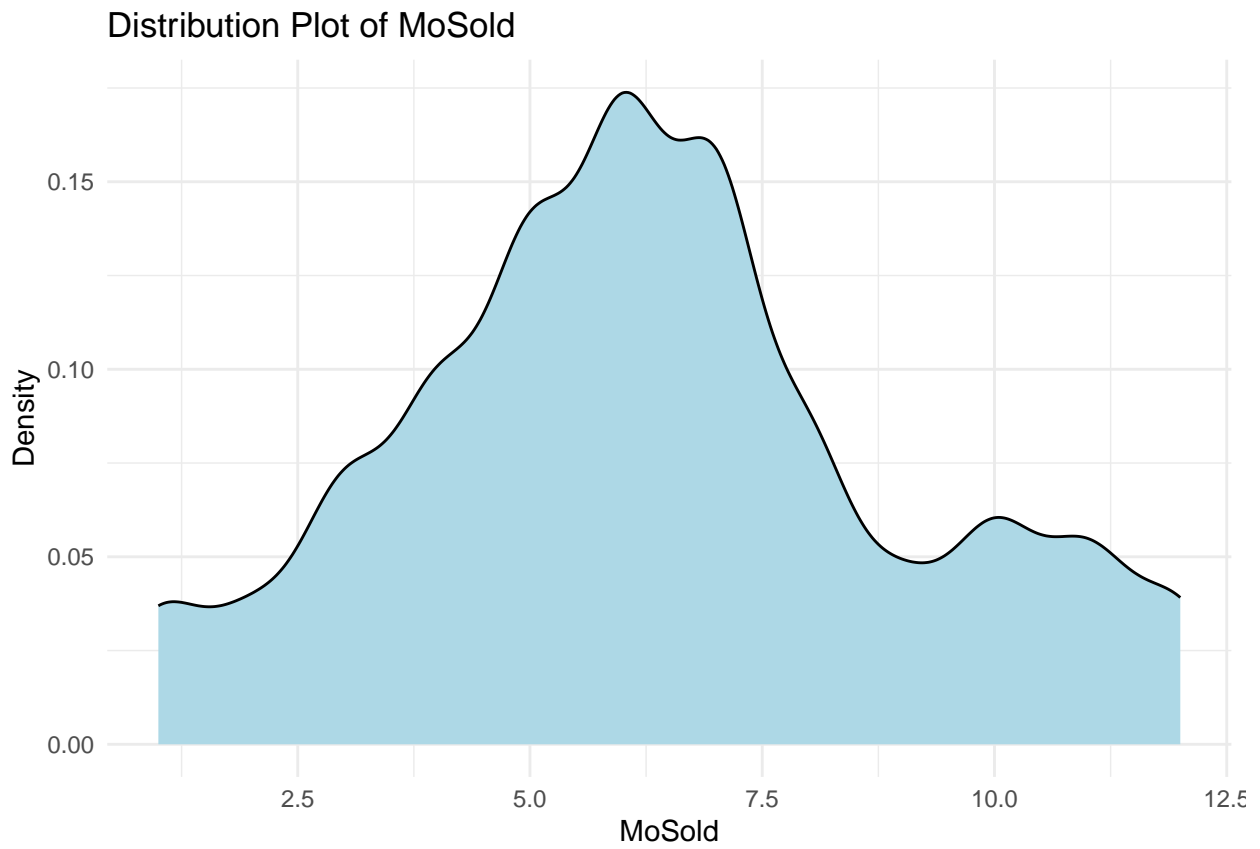


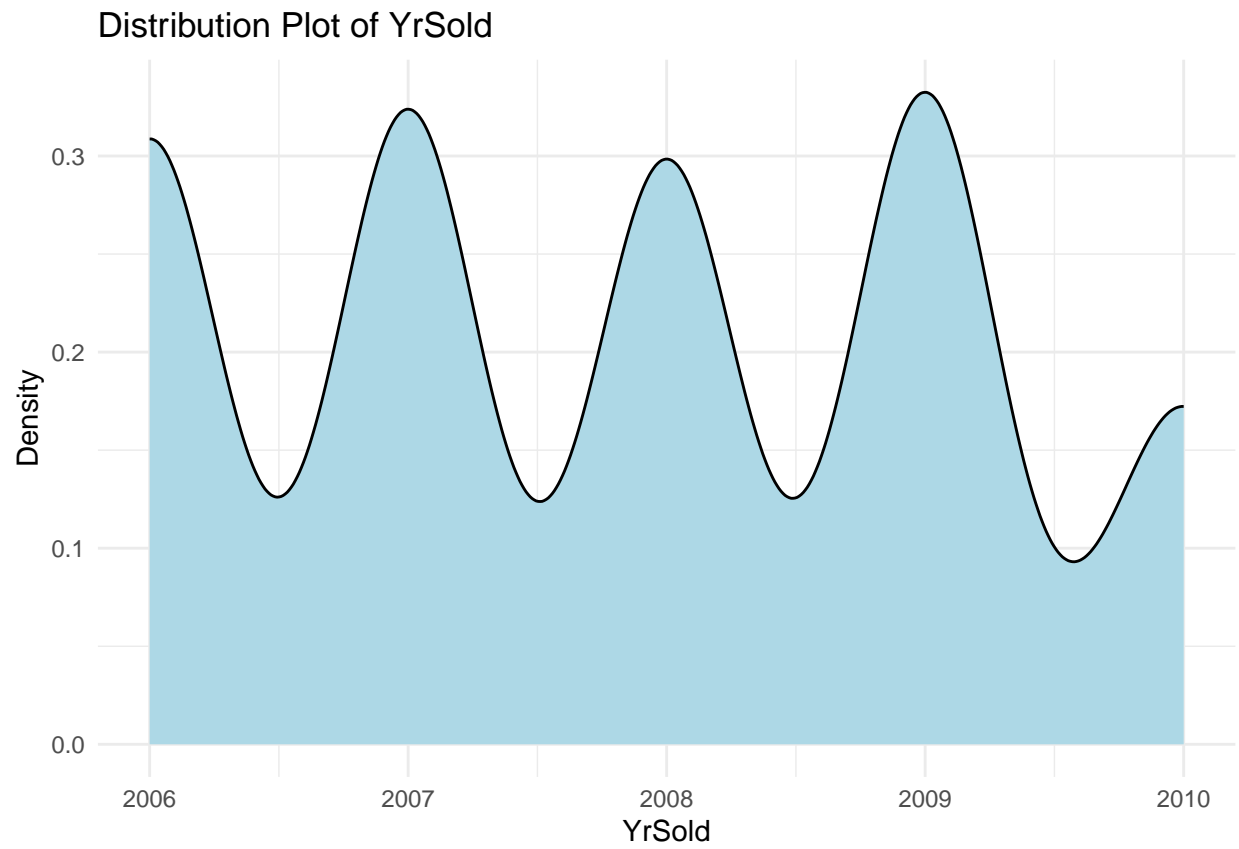


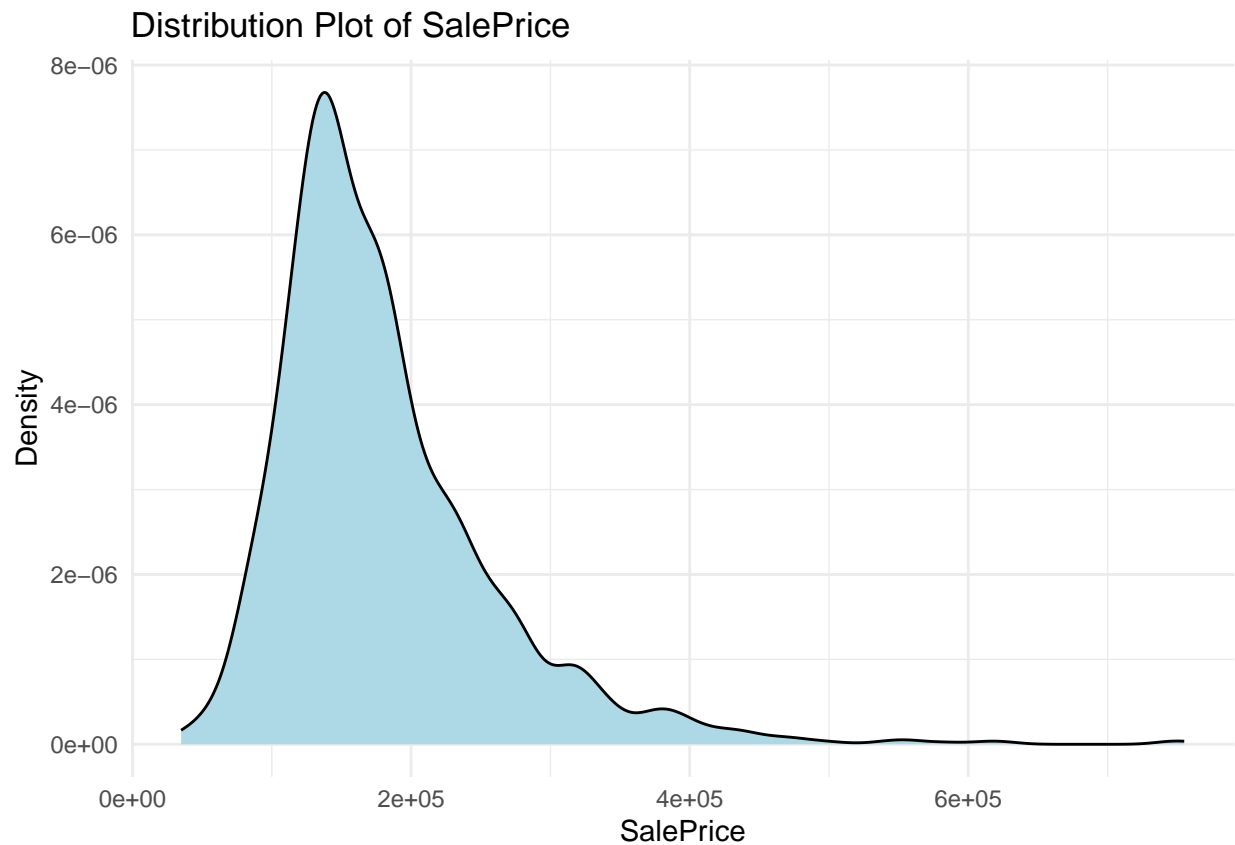










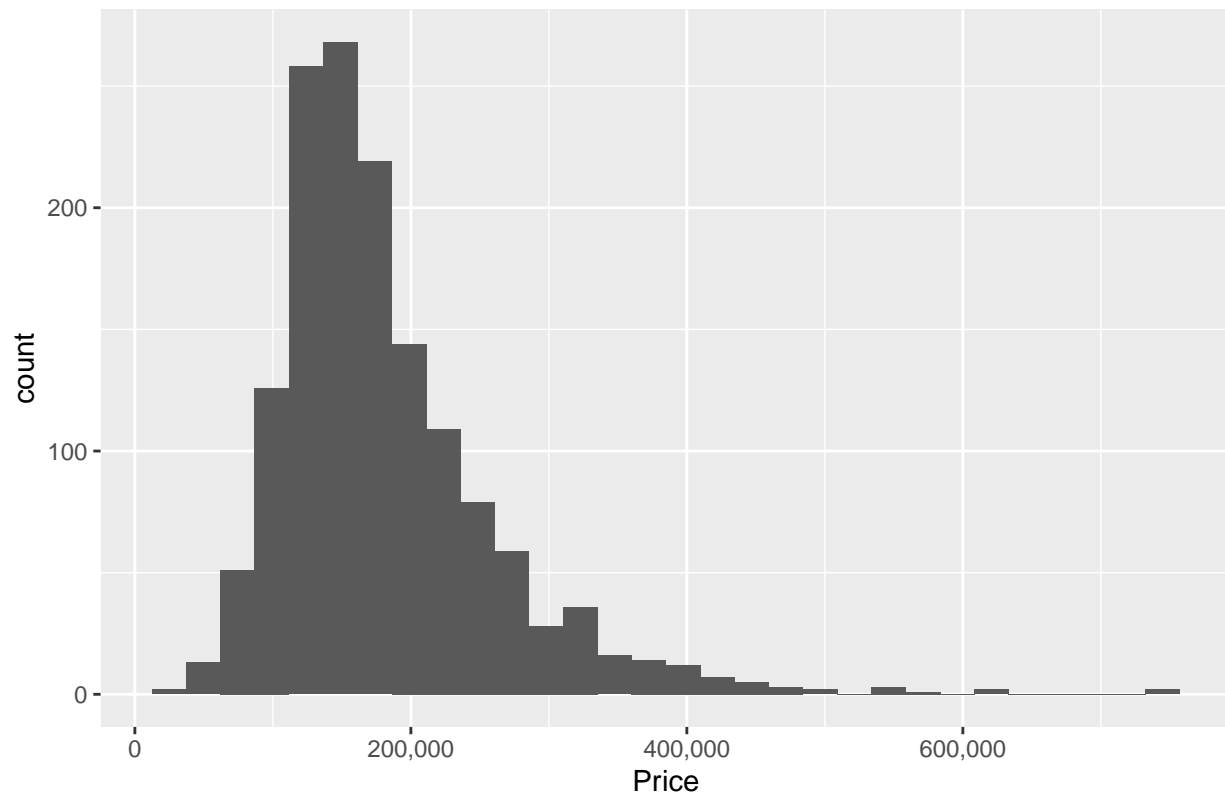


- Target Variable

```
ggplot(train, aes(x = train$SalePrice)) +  
  geom_histogram() +  
  labs(title = "Distribution of House Prices", x = "Price") +  
  scale_x_continuous(labels = scales::comma)
```

```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```

# Distribution of House Prices



```
theme_minimal()
```

```
## List of 136
## $ line                                     :List of 6
##   ..$ colour      : chr "black"
##   ..$ linewidth    : num 0.5
##   ..$ linetype     : num 1
##   ..$ lineend      : chr "butt"
##   ..$ arrow        : logi FALSE
##   ..$ inherit.blank: logi TRUE
##   ..- attr(*, "class")= chr [1:2] "element_line" "element"
## $ rect                                     :List of 5
##   ..$ fill         : chr "white"
##   ..$ colour       : chr "black"
##   ..$ linewidth    : num 0.5
##   ..$ linetype     : num 1
##   ..$ inherit.blank: logi TRUE
##   ..- attr(*, "class")= chr [1:2] "element_rect" "element"
## $ text                                    :List of 11
##   ..$ family       : chr ""
##   ..$ face         : chr "plain"
##   ..$ colour       : chr "black"
##   ..$ size         : num 11
##   ..$ hjust        : num 0.5
##   ..$ vjust        : num 0.5
```

```

## ..$ angle          : num 0
## ..$ lineheight     : num 0.9
## ..$ margin         : 'margin' num [1:4] 0points 0points 0points 0points
## .. ..- attr(*, "unit")= int 8
## ..$ debug          : logi FALSE
## ..$ inherit.blank: logi TRUE
## ..- attr(*, "class")= chr [1:2] "element_text" "element"
## $ title            : NULL
## $ aspect.ratio     : NULL
## $ axis.title        : NULL
## $ axis.title.x      :List of 11
## ..$ family         : NULL
## ..$ face            : NULL
## ..$ colour         : NULL
## ..$ size           : NULL
## ..$ hjust          : NULL
## ..$ vjust          : num 1
## ..$ angle          : NULL
## ..$ lineheight     : NULL
## ..$ margin         : 'margin' num [1:4] 2.75points 0points 0points 0points
## .. ..- attr(*, "unit")= int 8
## ..$ debug          : NULL
## ..$ inherit.blank: logi TRUE
## ..- attr(*, "class")= chr [1:2] "element_text" "element"
## $ axis.title.x.top  :List of 11
## ..$ family         : NULL
## ..$ face            : NULL
## ..$ colour         : NULL
## ..$ size           : NULL
## ..$ hjust          : NULL
## ..$ vjust          : num 0
## ..$ angle          : NULL
## ..$ lineheight     : NULL
## ..$ margin         : 'margin' num [1:4] 0points 0points 2.75points 0points
## .. ..- attr(*, "unit")= int 8
## ..$ debug          : NULL
## ..$ inherit.blank: logi TRUE
## ..- attr(*, "class")= chr [1:2] "element_text" "element"
## $ axis.title.x.bottom : NULL
## $ axis.title.y       :List of 11
## ..$ family         : NULL
## ..$ face            : NULL
## ..$ colour         : NULL
## ..$ size           : NULL
## ..$ hjust          : NULL
## ..$ vjust          : num 1
## ..$ angle          : num 90
## ..$ lineheight     : NULL
## ..$ margin         : 'margin' num [1:4] 0points 2.75points 0points 0points
## .. ..- attr(*, "unit")= int 8
## ..$ debug          : NULL
## ..$ inherit.blank: logi TRUE
## ..- attr(*, "class")= chr [1:2] "element_text" "element"
## $ axis.title.y.left  : NULL

```

```

## $ axis.title.y.right          :List of 11
## ..$ family                   : NULL
## ..$ face                     : NULL
## ..$ colour                   : NULL
## ..$ size                     : NULL
## ..$ hjust                    : NULL
## ..$ vjust                    : num 1
## ..$ angle                    : num -90
## ..$ lineheight               : NULL
## ..$ margin                   : 'margin' num [1:4] 0points 0points 0points 2.75points
## .. ..- attr(*, "unit")= int 8
## ..$ debug                    : NULL
## ..$ inherit.blank: logi TRUE
## ..- attr(*, "class")= chr [1:2] "element_text" "element"
## $ axis.text                   :List of 11
## ..$ family                   : NULL
## ..$ face                     : NULL
## ..$ colour                   : chr "grey30"
## ..$ size                     : 'rel' num 0.8
## ..$ hjust                    : NULL
## ..$ vjust                    : NULL
## ..$ angle                    : NULL
## ..$ lineheight               : NULL
## ..$ margin                   : NULL
## ..$ debug                    : NULL
## ..$ inherit.blank: logi TRUE
## ..- attr(*, "class")= chr [1:2] "element_text" "element"
## $ axis.text.x                 :List of 11
## ..$ family                   : NULL
## ..$ face                     : NULL
## ..$ colour                   : NULL
## ..$ size                     : NULL
## ..$ hjust                    : NULL
## ..$ vjust                    : num 1
## ..$ angle                    : NULL
## ..$ lineheight               : NULL
## ..$ margin                   : 'margin' num [1:4] 2.2points 0points 0points 0points
## .. ..- attr(*, "unit")= int 8
## ..$ debug                    : NULL
## ..$ inherit.blank: logi TRUE
## ..- attr(*, "class")= chr [1:2] "element_text" "element"
## $ axis.text.x.top            :List of 11
## ..$ family                   : NULL
## ..$ face                     : NULL
## ..$ colour                   : NULL
## ..$ size                     : NULL
## ..$ hjust                    : NULL
## ..$ vjust                    : num 0
## ..$ angle                    : NULL
## ..$ lineheight               : NULL
## ..$ margin                   : 'margin' num [1:4] 0points 0points 2.2points 0points
## .. ..- attr(*, "unit")= int 8
## ..$ debug                    : NULL
## ..$ inherit.blank: logi TRUE

```

```

##   ..- attr(*, "class")= chr [1:2] "element_text" "element"
##   $ axis.text.x.bottom      : NULL
##   $ axis.text.y             :List of 11
##   ..$ family                : NULL
##   ..$ face                  : NULL
##   ..$ colour                : NULL
##   ..$ size                  : NULL
##   ..$ hjust                 : num 1
##   ..$ vjust                 : NULL
##   ..$ angle                 : NULL
##   ..$ lineheight            : NULL
##   ..$ margin                : 'margin' num [1:4] 0points 2.2points 0points 0points
##   .. ..- attr(*, "unit")= int 8
##   ..$ debug                 : NULL
##   ..$ inherit.blank: logi TRUE
##   ..- attr(*, "class")= chr [1:2] "element_text" "element"
##   $ axis.text.y.left        : NULL
##   $ axis.text.y.right       :List of 11
##   ..$ family                : NULL
##   ..$ face                  : NULL
##   ..$ colour                : NULL
##   ..$ size                  : NULL
##   ..$ hjust                 : num 0
##   ..$ vjust                 : NULL
##   ..$ angle                 : NULL
##   ..$ lineheight            : NULL
##   ..$ margin                : 'margin' num [1:4] 0points 0points 0points 2.2points
##   .. ..- attr(*, "unit")= int 8
##   ..$ debug                 : NULL
##   ..$ inherit.blank: logi TRUE
##   ..- attr(*, "class")= chr [1:2] "element_text" "element"
##   $ axis.text.theta         : NULL
##   $ axis.text.r             :List of 11
##   ..$ family                : NULL
##   ..$ face                  : NULL
##   ..$ colour                : NULL
##   ..$ size                  : NULL
##   ..$ hjust                 : num 0.5
##   ..$ vjust                 : NULL
##   ..$ angle                 : NULL
##   ..$ lineheight            : NULL
##   ..$ margin                : 'margin' num [1:4] 0points 2.2points 0points 2.2points
##   .. ..- attr(*, "unit")= int 8
##   ..$ debug                 : NULL
##   ..$ inherit.blank: logi TRUE
##   ..- attr(*, "class")= chr [1:2] "element_text" "element"
##   $ axis.ticks              : list()
##   ..- attr(*, "class")= chr [1:2] "element_blank" "element"
##   $ axis.ticks.x            : NULL
##   $ axis.ticks.x.top        : NULL
##   $ axis.ticks.x.bottom     : NULL
##   $ axis.ticks.y            : NULL
##   $ axis.ticks.y.left       : NULL
##   $ axis.ticks.y.right      : NULL

```



```

## $ axis.ticks.theta : NULL
## $ axis.ticks.r : NULL
## $ axis.minor.ticks.x.top : NULL
## $ axis.minor.ticks.x.bottom : NULL
## $ axis.minor.ticks.y.left : NULL
## $ axis.minor.ticks.y.right : NULL
## $ axis.minor.ticks.theta : NULL
## $ axis.minor.ticks.r : NULL
## $ axis.ticks.length : 'simpleUnit' num 2.75points
## .. attr(*, "unit")= int 8
## $ axis.ticks.length.x : NULL
## $ axis.ticks.length.x.top : NULL
## $ axis.ticks.length.x.bottom : NULL
## $ axis.ticks.length.y : NULL
## $ axis.ticks.length.y.left : NULL
## $ axis.ticks.length.y.right : NULL
## $ axis.ticks.length.theta : NULL
## $ axis.ticks.length.r : NULL
## $ axis.minor.ticks.length : 'rel' num 0.75
## $ axis.minor.ticks.length.x : NULL
## $ axis.minor.ticks.length.x.top : NULL
## $ axis.minor.ticks.length.x.bottom : NULL
## $ axis.minor.ticks.length.y : NULL
## $ axis.minor.ticks.length.y.left : NULL
## $ axis.minor.ticks.length.y.right : NULL
## $ axis.minor.ticks.length.theta : NULL
## $ axis.minor.ticks.length.r : NULL
## $ axis.line : list()
## .. attr(*, "class")= chr [1:2] "element_blank" "element"
## $ axis.line.x : NULL
## $ axis.line.x.top : NULL
## $ axis.line.x.bottom : NULL
## $ axis.line.y : NULL
## $ axis.line.y.left : NULL
## $ axis.line.y.right : NULL
## $ axis.line.theta : NULL
## $ axis.line.r : NULL
## $ legend.background : list()
## .. attr(*, "class")= chr [1:2] "element_blank" "element"
## $ legend.margin : 'margin' num [1:4] 5.5points 5.5points 5.5points 5.5points
## .. attr(*, "unit")= int 8
## $ legend.spacing : 'simpleUnit' num 11points
## .. attr(*, "unit")= int 8
## $ legend.spacing.x : NULL
## $ legend.spacing.y : NULL
## $ legend.key : list()
## .. attr(*, "class")= chr [1:2] "element_blank" "element"
## $ legend.key.size : 'simpleUnit' num 1.2lines
## .. attr(*, "unit")= int 3
## $ legend.key.height : NULL
## $ legend.key.width : NULL
## $ legend.key.spacing : 'simpleUnit' num 5.5points
## .. attr(*, "unit")= int 8
## $ legend.key.spacing.x : NULL

```

```

## $ legend.key.spacing.y      : NULL
## $ legend.frame              : NULL
## $ legend.ticks              : NULL
## $ legend.ticks.length      : 'rel' num 0.2
## $ legend.axis.line          : NULL
## $ legend.text                :List of 11
##   ..$ family                : NULL
##   ..$ face                   : NULL
##   ..$ colour                 : NULL
##   ..$ size                   : 'rel' num 0.8
##   ..$ hjust                  : NULL
##   ..$ vjust                  : NULL
##   ..$ angle                  : NULL
##   ..$ lineheight             : NULL
##   ..$ margin                 : NULL
##   ..$ debug                  : NULL
##   ..$ inherit.blank: logi TRUE
##   ..- attr(*, "class")= chr [1:2] "element_text" "element"
## $ legend.text.position      : NULL
## $ legend.title              :List of 11
##   ..$ family                : NULL
##   ..$ face                   : NULL
##   ..$ colour                 : NULL
##   ..$ size                   : NULL
##   ..$ hjust                  : num 0
##   ..$ vjust                  : NULL
##   ..$ angle                  : NULL
##   ..$ lineheight             : NULL
##   ..$ margin                 : NULL
##   ..$ debug                  : NULL
##   ..$ inherit.blank: logi TRUE
##   ..- attr(*, "class")= chr [1:2] "element_text" "element"
## $ legend.title.position    : NULL
## $ legend.position          : chr "right"
## $ legend.position.inside   : NULL
## $ legend.direction         : NULL
## $ legend.byrow              : NULL
## $ legend.justification     : chr "center"
## $ legend.justification.top  : NULL
## $ legend.justification.bottom : NULL
## $ legend.justification.left : NULL
## $ legend.justification.right : NULL
## $ legend.justification.inside : NULL
## $ legend.location          : NULL
## $ legend.box                : NULL
## $ legend.box.just           : NULL
## $ legend.box.margin         : 'margin' num [1:4] 0cm 0cm 0cm 0cm
##   ..- attr(*, "unit")= int 1
## $ legend.box.background    : list()
##   ..- attr(*, "class")= chr [1:2] "element_blank" "element"
## $ legend.box.spacing       : 'simpleUnit' num 11points
##   ..- attr(*, "unit")= int 8
## [list output truncated]
## - attr(*, "class")= chr [1:2] "theme" "gg"

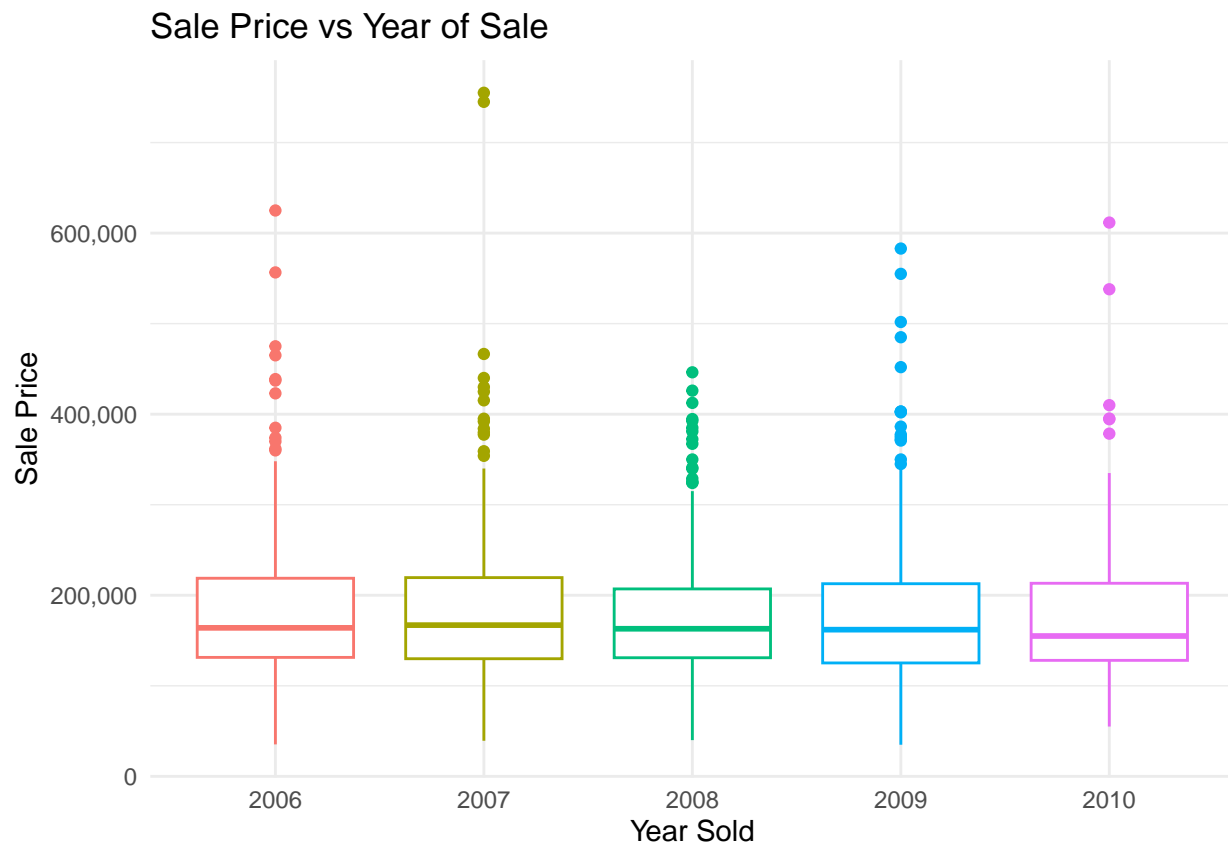
```

```
## - attr(*, "complete")= logi TRUE
## - attr(*, "validate")= logi TRUE
```

The distribution of house prices is rightly skewed, with more houses ranging below 200000.

- Sale Price vs Year Sold

```
ggplot(train, aes(x = as.factor(train$YrSold), y = train$SalePrice, color = as.factor(train$YrSold))) +
  geom_boxplot(show.legend = FALSE) +
  scale_y_continuous(labels = scales::comma) +
  theme_minimal() +
  labs(title = "Sale Price vs Year of Sale", y = "Sale Price", x = "Year Sold")
```

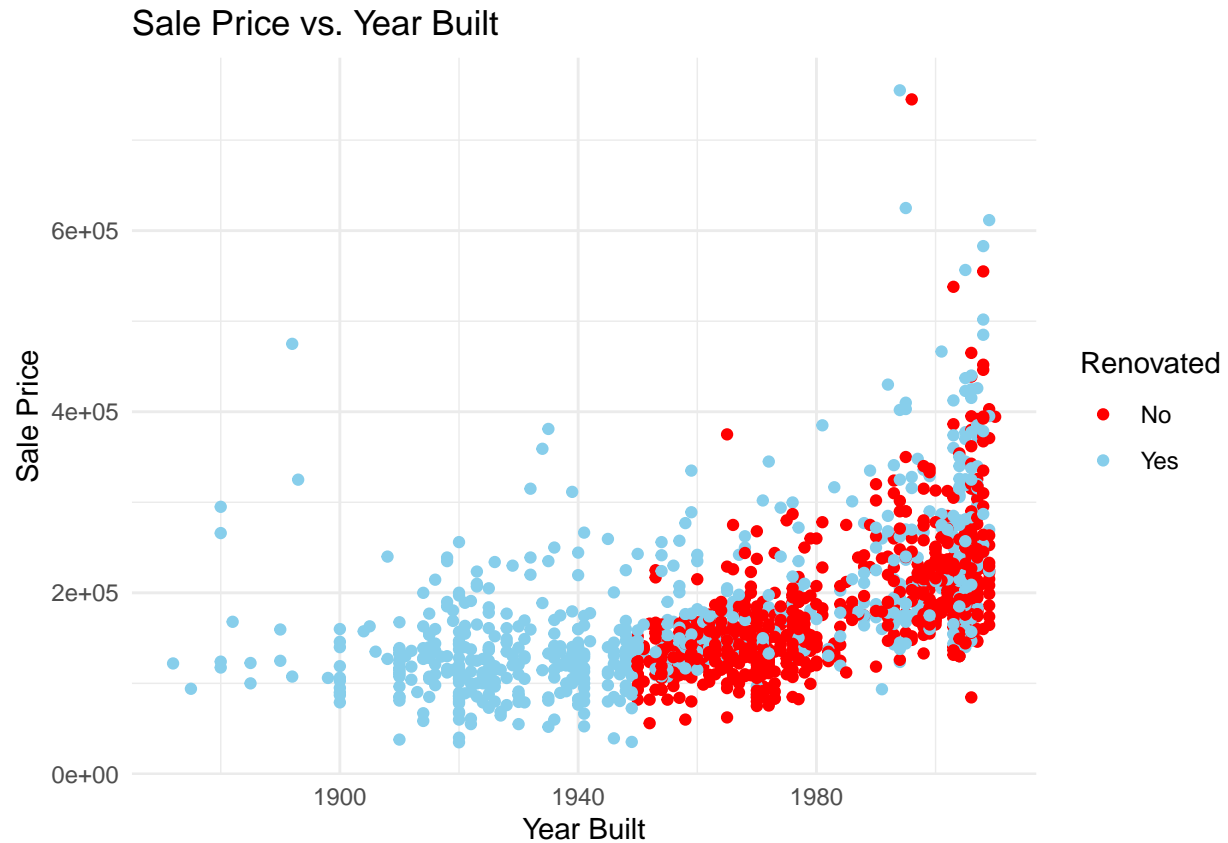


There is an almost similar pattern across the years when it comes to Sale Prices.

- Sale Price VS Year Built VS Renovated

```
train <- train %>% mutate(Renovated = ifelse(YearBuilt == YearRemodAdd, "No", "Yes"))

#create plot
ggplot(train, aes(x= train$YearBuilt, y = train$SalePrice,color=train$Renovated)) +
  geom_point() +
  labs(title="Sale Price vs. Year Built",x = "Year Built",y = "Sale Price", color = 'Renovated') +
  theme_minimal() +
  scale_color_manual(values = c("Yes" = "skyblue", "No" = "red"))
```



From the plot, we can say that newer houses are sold at higher prices and house build after 1940 were mostly renovated later.

- Sale Price vs Overall Quality

```
# Define custom labels for the quality scale
quality_labels <- c("1" = "Very Poor", "2" = "Poor", "3" = "Fair", "4" = "Below Average",
                    "5" = "Average", "6" = "Above Average", "7" = "Good", "8" = "Very Good",
                    "9" = "Excellent", "10" = "Very Excellent")

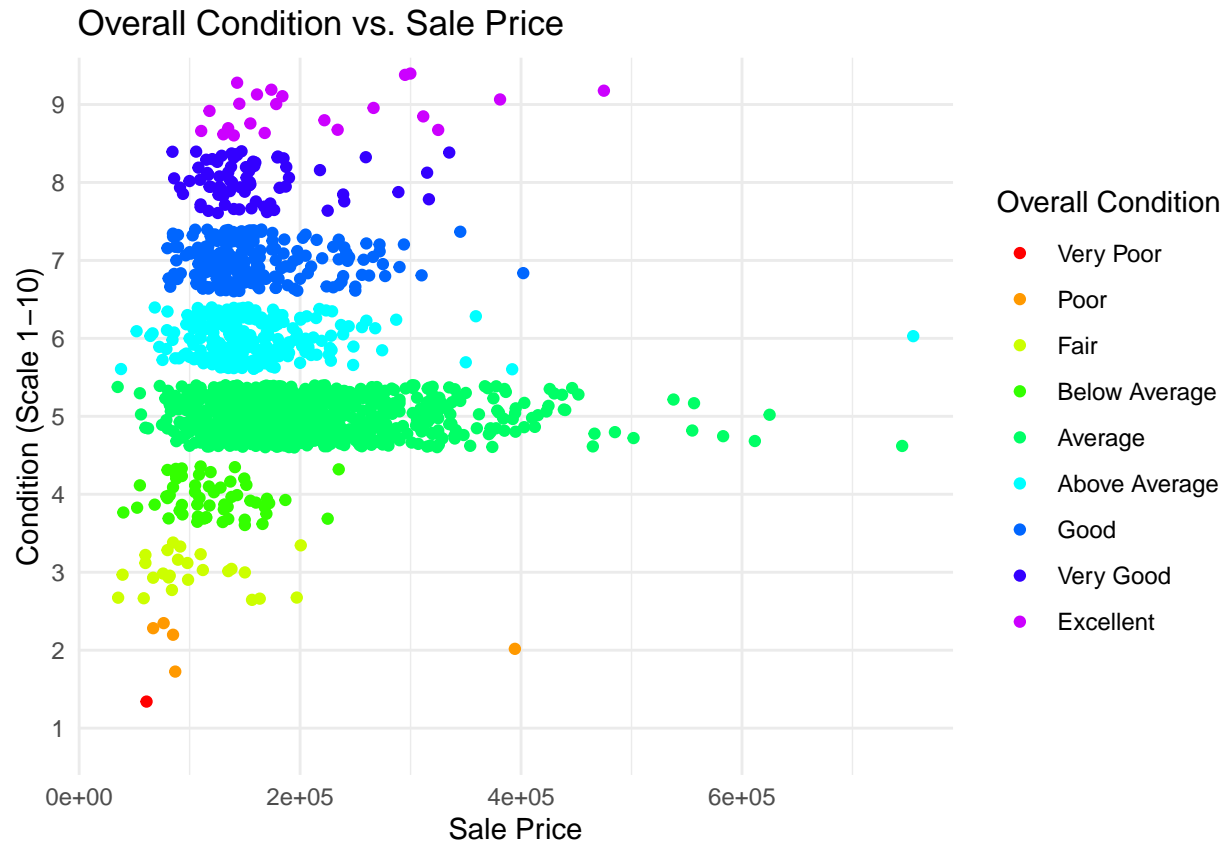
ggplot(train, aes(x= train$OverallQual, y= train$SalePrice, color=train$OverallQual))+
  geom_jitter()+
  scale_x_discrete()+
  labs(x = "Quality (Scale 1-10)", y= "Sale Price", title="Overall Quality vs. Sale Price", color = "Overall Quality")+
  coord_flip()+
  scale_color_manual(values = rainbow(10), labels = quality_labels) +
  theme_minimal()
```



Houses with Very Good, Excellent and Very Excellent Quality are more expensive.

- Sale Price vs Overall Condition

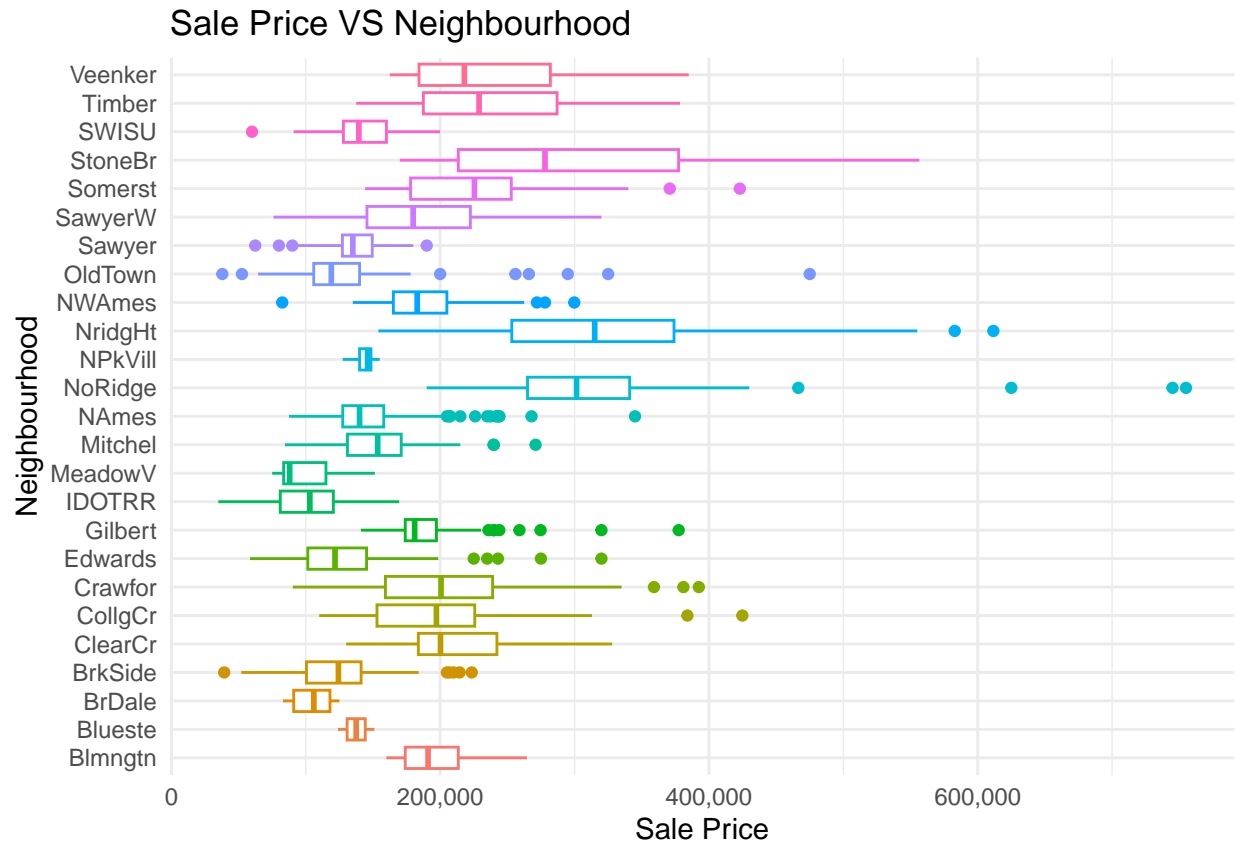
```
ggplot(train, aes(x= train$OverallCond, y= train$SalePrice, color=train$OverallCond))+
  geom_jitter()+
  scale_x_discrete()+
  labs(x = "Condition (Scale 1-10)",y= "Sale Price",title="Overall Condition vs. Sale Price",color = "0")+
  coord_flip()+
  scale_color_manual(values = rainbow(10), labels = quality_labels)+
  theme_minimal()
```



Houses with Very Good, Excellent and Very Excellent Overall Condition are more expensive.

- Sale Price VS Neighbourhood

```
ggplot(train, aes(x = train$Neighborhood, y = train$SalePrice))+
  geom_boxplot(aes(color = train$Neighborhood), show.legend = FALSE)+
  scale_y_continuous(labels = scales::comma)+
  labs(x = "Neighbourhood", y = "Sale Price", title = "Sale Price VS Neighbourhood")+
  theme_minimal()+
  coord_flip()
```



Northridge Heights and Stony Brook are the most expensive neighbourhoods as per the Sale Prices.

- Correlation

1. Size Attributes : Explore size attributes for houses and their correlation with sale price.

```
size = c('LotFrontage', 'LotArea', 'MasVnrArea', 'BsmtFinSF1', 'BsmtFinSF2', 'BsmtUnfSF', 'TotalBsmtSF', 'X1stFlrArea', 'X2ndFlrArea', 'X3rdFlrArea', 'X4thFlrArea', 'X5thFlrArea', 'X6thFlrArea', 'X7thFlrArea', 'X8thFlrArea', 'X9thFlrArea', 'X10thFlrArea', 'X11thFlrArea', 'X12thFlrArea', 'X13thFlrArea', 'X14thFlrArea', 'X15thFlrArea', 'X16thFlrArea', 'X17thFlrArea', 'X18thFlrArea', 'X19thFlrArea', 'X20thFlrArea', 'X21stFlrArea', 'X22ndFlrArea', 'X23rdFlrArea', 'X24thFlrArea', 'X25thFlrArea', 'X26thFlrArea', 'X27thFlrArea', 'X28thFlrArea', 'X29thFlrArea', 'X30thFlrArea', 'X31stFlrArea', 'X32ndFlrArea', 'X33rdFlrArea', 'X34thFlrArea', 'X35thFlrArea', 'X36thFlrArea', 'X37thFlrArea', 'X38thFlrArea', 'X39thFlrArea', 'X40thFlrArea', 'X41stFlrArea', 'X42ndFlrArea', 'X43rdFlrArea', 'X44thFlrArea', 'X45thFlrArea', 'X46thFlrArea', 'X47thFlrArea', 'X48thFlrArea', 'X49thFlrArea', 'X50thFlrArea', 'X51stFlrArea', 'X52ndFlrArea', 'X53rdFlrArea', 'X54thFlrArea', 'X55thFlrArea', 'X56thFlrArea', 'X57thFlrArea', 'X58thFlrArea', 'X59thFlrArea', 'X60thFlrArea', 'X61stFlrArea', 'X62ndFlrArea', 'X63rdFlrArea', 'X64thFlrArea', 'X65thFlrArea', 'X66thFlrArea', 'X67thFlrArea', 'X68thFlrArea', 'X69thFlrArea', 'X70thFlrArea', 'X71stFlrArea', 'X72ndFlrArea', 'X73rdFlrArea', 'X74thFlrArea', 'X75thFlrArea', 'X76thFlrArea', 'X77thFlrArea', 'X78thFlrArea', 'X79thFlrArea', 'X80thFlrArea', 'X81stFlrArea', 'X82ndFlrArea', 'X83rdFlrArea', 'X84thFlrArea', 'X85thFlrArea', 'X86thFlrArea', 'X87thFlrArea', 'X88thFlrArea', 'X89thFlrArea', 'X90thFlrArea', 'X91stFlrArea', 'X92ndFlrArea', 'X93rdFlrArea', 'X94thFlrArea', 'X95thFlrArea', 'X96thFlrArea', 'X97thFlrArea', 'X98thFlrArea', 'X99thFlrArea', 'X100thFlrArea')

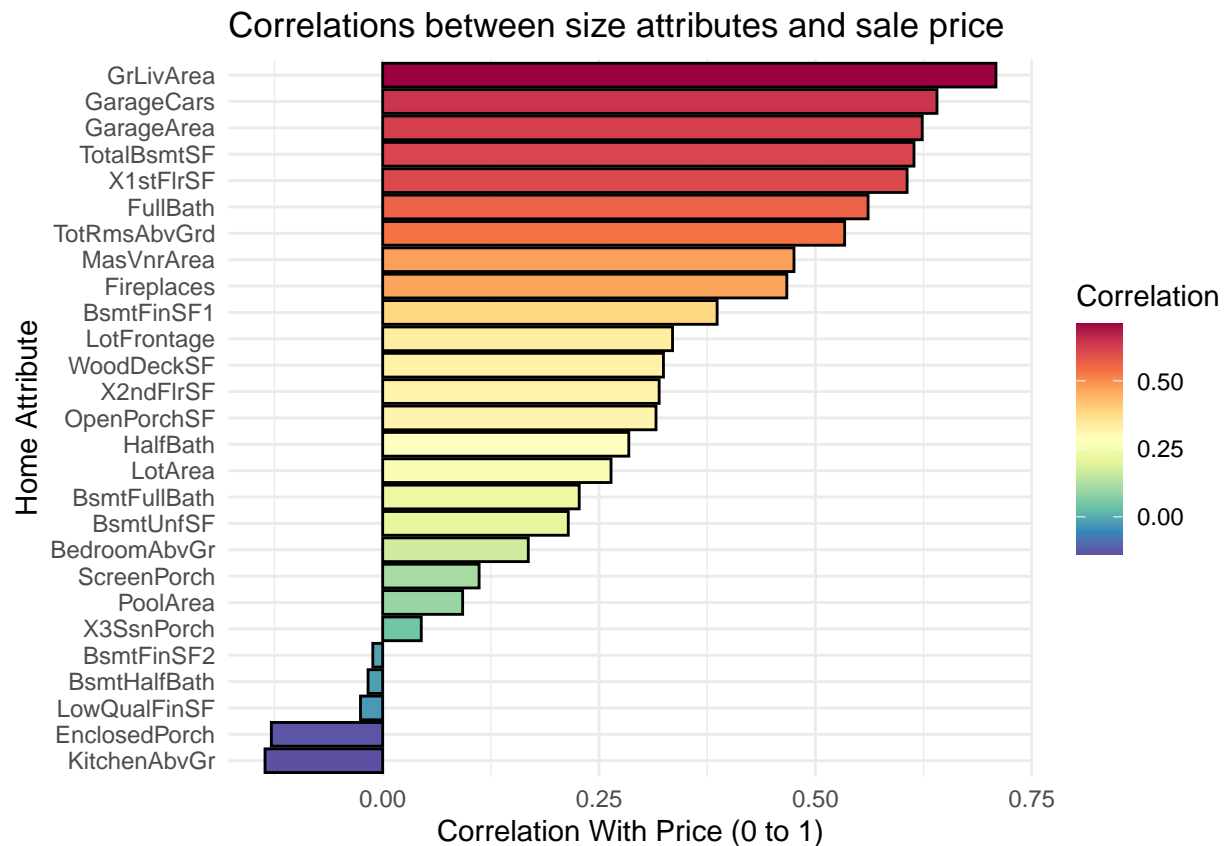
# Calculate correlations with SalePrice
size_corr <- train %>%
  dplyr::select(all_of(size), "SalePrice") %>%
  cor() %>%
  as.data.frame() %>%
  dplyr::select("SalePrice") %>%
  arrange(desc("SalePrice"))

# Remove the row where rowname is SalePrice
size_corr <- size_corr[-which(rownames(size_corr) == "SalePrice"), , drop = FALSE]

# Add column names for ggplot
size_corr$Attribute <- rownames(size_corr)
rownames(size_corr) <- NULL

# Create the plot
```

```
ggplot(size_corr, aes(x = SalePrice, y = reorder(Attribute, SalePrice))) +
  geom_bar(stat = "identity", aes(fill = SalePrice), color = "black") +
  scale_fill_gradientn(colors = rev(RColorBrewer::brewer.pal(11, "Spectral")),
    name = "Correlation") +
  labs(
    title = "Correlations between size attributes and sale price",
    x = "Correlation With Price (0 to 1)",
    y = "Home Attribute"
  ) +
  theme_minimal()
```



Above grade (ground) living area, garage Cars, Garage Area, Total Basement Area and First Floor square feet are highly correlated with the Sale Price.

Full bathrooms above grade, Total Rooms above Grade, Masonry veneer area and no. of fireplaces are moderately correlated with the sale Price.

Type 2 finished square feet, Basement half bathrooms, Low quality finished square feet (all floors), Enclosed porch area in square feet and KitchenAbvGr are negatively correlated with Sale Price.

## Feature Engineering

*#The following 3 features describe the Total area of the house so a good idea is to sum them to a new variable*

```
train$TotalArea<-train$X1stFlrSF+train$X2ndFlrSF+train$TotalBsmtSF
```



```

#combine are those that describe the finished square feet area of the house.
train$TotalFinSF<-train$BsmtFinSF1+train$BsmtFinSF2+train$X1stFlrSF+train$X2ndFlrSF

#delete the features that we used to make our two new variables
train$BsmtFinSF1<-NULL
train$BsmtFinSF2<-NULL
train$X1stFlrSF<-NULL
train$X2ndFlrSF<-NULL
train$TotalBsmtSF<-NULL

dim(train)

```

```
## [1] 1459 78
```

```

#variables that describe the number full baths and half baths of the house can merge to one column
train$TotBath<-train$BsmtFullBath+(0.5*train$BsmtHalfBath)+train$FullBath+(0.5*train$HalfBath)

#Also Porches
train$TotPorch<-train$OpenPorchSF+train$EnclosedPorch+train$X3SsnPorch+train$ScreenPorch+train$WoodDeckSF

#Remove variables used
train$BsmtFullBath<-NULL
train$BsmtHalfBath<-NULL
train$HalfBath<-NULL
train$FullBath<-NULL
train$OpenPorchSF<-NULL
train$EnclosedPorch<-NULL
train$X3SsnPorch<-NULL
train$ScreenPorch<-NULL
train$WoodDeckSF<-NULL

dim(train)

```

```
## [1] 1459 71
```

```

#seperate those houses that have a pool with those who don't. It's pretty obvious that if we look for h

train$Pool<-c(rep(2,1459))
for (i in 1:nrow(train)){
  if (train$PoolArea[i]==0) {
    train$Pool[i]<-c(0)
  } else {
    train$Pool[i]<-c(1)
  }
}
train$Pool<-as.factor(train$Pool)

train$PoolQC<-NULL
train$PoolArea<-NULL
dim(train)

```

```
## [1] 1459 70
```

```

# Function to calculate mode percentage for a categorical variable
mode_percentage <- function(column) {
  # Get frequency table
  freq_table <- table(column)

  # Find the mode (most frequent value)
  mode_value <- names(freq_table)[which.max(freq_table)]

  # Calculate the mode's percentage
  mode_percent <- max(freq_table) / length(column) * 100

  # Output result as a named vector
  result <- c(Mode = mode_value, Percentage = mode_percent)
  return(result)
}

# Apply the function to each categorical column in the data frame
cat_columns <- sapply(train, is.factor) | sapply(train, is.character) # Identify categorical columns
mode_percentages <- sapply(train[, cat_columns], mode_percentage)

# Print the result
print(mode_percentages)

```

```

##           MSSubClass      MSZoning      Street
## Mode           "20"           "RL"           "Pave"
## Percentage "36.737491432488" "78.8211103495545" "99.5887594242632"
##           Alley           LotShape      LandContour
## Mode           "No alley access" "Reg"           "Lvl"
## Percentage "93.7628512679918" "63.3310486634681" "89.787525702536"
##           Utilities      LotConfig      LandSlope
## Mode           "AllPub"           "Inside"           "Gtl"
## Percentage "99.9314599040439" "72.0356408498972" "94.6538725154215"
##           Neighborhood      Condition1      Condition2
## Mode           "NAmes"           "Norm"           "Norm"
## Percentage "15.4215215901302" "86.2919808087731" "98.971898560658"
##           BldgType      HouseStyle      OverallQual
## Mode           "1Fam"           "1Story"           "5"
## Percentage "83.5503769705278" "49.7601096641535" "27.1418779986292"
##           OverallCond      RoofStyle      RoofMatl
## Mode           "5"           "Gable"           "CompShg"
## Percentage "56.2028786840302" "78.1357093899932" "98.2179575051405"
##           Exterior1st      Exterior2nd      MasVnrType
## Mode           "VinylSd"           "VinylSd"           "None"
## Percentage "35.229609321453" "34.4756682659356" "59.698423577793"
##           ExterQual      ExterCond      Foundation
## Mode           "TA"           "TA"           "PConc"
## Percentage "62.0287868403016" "87.7998629198081" "44.2769019876628"
##           BsmtQual      BsmtCond      BsmtExposure
## Mode           "TA"           "TA"           "No"
## Percentage "44.4825222755312" "89.787525702536" "65.318711446196"
##           BsmtFinType1      BsmtFinType2      Heating
## Mode           "Unf"           "Unf"           "GasA"
## Percentage "29.4037011651816" "86.0178204249486" "97.8067169294037"

```

```
## HeatingQC CentralAir Electrical
## Mode "Ex" "Y" "SBrkr"
## Percentage "50.7882111034955" "93.4886908841672" "91.4324880054832"
## KitchenQual Functional FireplaceQu
## Mode "TA" "Typ" "No basement"
## Percentage "50.3769705277587" "93.1459904043866" "47.2241261137766"
## GarageType GarageFinish GarageQual
## Mode "Attchd" "Unf" "TA"
## Percentage "59.6298834818369" "41.4667580534613" "89.787525702536"
## GarageCond PavedDrive Fence
## Mode "TA" "Y" "No Fence"
## Percentage "90.815627141878" "91.7751884852639" "80.7402330363262"
## MiscFeature SaleType SaleCondition
## Mode "None" "WD" "Normal"
## Percentage "96.2988348183687" "86.7717614804661" "82.0424948594928"
## Renovated Pool
## Mode "No" "O"
## Percentage "52.3646333104866" "99.5202193283071"
```

*#variables which their mode is more than 90% of other categories are useless and we are going to delete*

```
remove_cols <- c('Street','Alley','Utilities','LandSlope','Condition2','RoofMatl','Heating', 'CentralAir')
t_data <- train[, !names(train) %in% remove_cols]
dim(t_data)
```

```
## [1] 1459 56
```

*#One hot encode categorical variables*

```
cat_dat <- t_data[,sapply(t_data, is.factor)]
num_dat <- t_data[,sapply(t_data, is.numeric)]

encode <- onehot(cat_dat)
```

```
## Warning: Variables excluded for having levels > max_levels: MSSubClassVariables
## excluded for having levels > max_levels: NeighborhoodVariables excluded for
## having levels > max_levels: Exterior1stVariables excluded for having levels >
## max_levels: Exterior2nd
```

```
cat_encoded <- as.data.frame(predict(encode, cat_dat))
```

*# Combine encoded categorical data with numeric data*

```
train_data <- cbind(num_dat, cat_encoded)
```

## Model Building

*# Fit an initial full model with all predictors*

```
full_model <- lm(SalePrice ~ ., data = train_data)
summary(full_model)
```

```
##
## Call:
## lm(formula = SalePrice ~ ., data = train_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -361632  -12084    -632   10624  244184
##
## Coefficients: (34 not defined because of singularities)
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      6.313e+05  1.284e+06   0.492 0.622945
## LotFrontage     -1.524e+02  5.113e+01  -2.980 0.002932 **
## LotArea          3.268e-01  1.032e-01   3.166 0.001582 **
## YearBuilt        2.347e+02  7.945e+01   2.954 0.003197 **
## YearRemodAdd     -1.921e+01  6.803e+01  -0.282 0.777730
## MasVnrArea        2.711e+01  6.853e+00   3.956 8.03e-05 ***
## BsmtUnfSF        -1.459e+00  3.513e+00  -0.415 0.677993
## LowQualFinSF     -4.404e+01  2.211e+01  -1.992 0.046550 *
## GrLivArea         6.331e+01  8.367e+00   7.567 7.17e-14 ***
## BedroomAbvGr     -1.394e+03  1.639e+03  -0.851 0.394991
## KitchenAbvGr     -1.817e+04  6.608e+03  -2.749 0.006059 **
## TotRmsAbvGrd      1.825e+03  1.135e+03   1.607 0.108261
## Fireplaces        4.350e+03  3.136e+03   1.387 0.165673
## GarageYrBlt       -1.510e+02  7.321e+01  -2.062 0.039407 *
## GarageCars        1.522e+04  2.721e+03   5.593 2.71e-08 ***
## GarageArea       -8.533e+00  9.485e+00  -0.900 0.368501
## MiscVal           -4.494e-01  1.701e+00  -0.264 0.791700
## MoSold            -2.506e+02  3.041e+02  -0.824 0.410117
## YrSold            -3.276e+02  6.352e+02  -0.516 0.606149
## TotalArea        -7.259e+00  4.987e+00  -1.456 0.145731
## TotalFinSF                NA         NA         NA         NA
## TotBath              6.106e+03  1.907e+03   3.202 0.001399 **
## TotPorch             1.709e+01  5.973e+00   2.861 0.004285 **
## 'MSZoning=C (all)'     -2.711e+04  1.106e+04  -2.450 0.014413 *
## 'MSZoning=FV'          1.267e+04  4.919e+03   2.576 0.010118 *
## 'MSZoning=RH'          1.352e+04  8.185e+03   1.651 0.098900 .
## 'MSZoning=RL'          8.298e+03  2.916e+03   2.846 0.004503 **
## 'MSZoning=RM'                NA         NA         NA         NA
## 'LotShape=IR1'         2.691e+02  1.946e+03   0.138 0.890021
## 'LotShape=IR2'         1.021e+04  5.320e+03   1.919 0.055233 .
## 'LotShape=IR3'       -2.407e+04  1.058e+04  -2.276 0.023009 *
## 'LotShape=Reg'                NA         NA         NA         NA
## 'LandContour=Bnk'     -1.712e+04  4.319e+03  -3.964 7.78e-05 ***
## 'LandContour=HLS'      2.360e+03  4.624e+03   0.510 0.609895
## 'LandContour=Low'      6.811e+03  6.160e+03   1.106 0.269132
## 'LandContour=Lvl'                NA         NA         NA         NA
## 'LotConfig=Corner'      1.915e+03  2.229e+03   0.859 0.390539
## 'LotConfig=CulDSac'     9.666e+03  3.670e+03   2.634 0.008549 **
## 'LotConfig=FR2'       -6.548e+03  4.647e+03  -1.409 0.159054
## 'LotConfig=FR3'       -4.944e+03  1.555e+04  -0.318 0.750586
## 'LotConfig=Inside'                NA         NA         NA         NA
## 'Condition1=Artery'    -3.376e+03  1.500e+04  -0.225 0.821946
## 'Condition1=Feedr'    -1.454e+03  1.467e+04  -0.099 0.921076
## 'Condition1=Norm'      1.174e+04  1.434e+04   0.819 0.412886
```

## 'Condition1=PosA'	5.991e+03	1.819e+04	0.329	0.741889	
## 'Condition1=PosN'	-1.532e+04	1.603e+04	-0.956	0.339480	
## 'Condition1=RR Ae'	-9.827e+03	1.739e+04	-0.565	0.572091	
## 'Condition1=RR An'	9.322e+03	1.549e+04	0.602	0.547519	
## 'Condition1=RR Ne'	-8.662e+03	2.549e+04	-0.340	0.734054	
## 'Condition1=RR Nn'	NA	NA	NA	NA	
## 'BldgType=1Fam'	1.677e+04	3.760e+03	4.461	8.84e-06	***
## 'BldgType=2fmCon'	1.145e+04	8.065e+03	1.420	0.155939	
## 'BldgType=Duplex'	1.406e+04	8.413e+03	1.671	0.094961	.
## 'BldgType=Twnhs'	-1.043e+03	5.849e+03	-0.178	0.858481	
## 'BldgType=TwnhsE'	NA	NA	NA	NA	
## 'HouseStyle=1.5Fin'	5.070e+03	5.440e+03	0.932	0.351516	
## 'HouseStyle=1.5Unf'	2.227e+04	1.000e+04	2.227	0.026150	*
## 'HouseStyle=1Story'	1.613e+04	4.723e+03	3.415	0.000658	***
## 'HouseStyle=2.5Fin'	-1.943e+03	1.548e+04	-0.126	0.900146	
## 'HouseStyle=2.5Unf'	-1.178e+03	1.126e+04	-0.105	0.916710	
## 'HouseStyle=2Story'	-3.245e+03	4.930e+03	-0.658	0.510604	
## 'HouseStyle=SFoyer'	2.132e+03	6.732e+03	0.317	0.751551	
## 'HouseStyle=SLvl'	NA	NA	NA	NA	
## 'OverallQual=1'	-9.904e+04	3.560e+04	-2.782	0.005486	**
## 'OverallQual=2'	-9.913e+04	2.271e+04	-4.365	1.37e-05	***
## 'OverallQual=3'	-1.069e+05	1.349e+04	-7.924	4.89e-15	***
## 'OverallQual=4'	-1.009e+05	1.150e+04	-8.771	< 2e-16	***
## 'OverallQual=5'	-1.002e+05	1.102e+04	-9.094	< 2e-16	***
## 'OverallQual=6'	-9.546e+04	1.071e+04	-8.910	< 2e-16	***
## 'OverallQual=7'	-8.482e+04	1.037e+04	-8.178	6.76e-16	***
## 'OverallQual=8'	-5.669e+04	9.897e+03	-5.728	1.26e-08	***
## 'OverallQual=9'	-1.432e+04	9.281e+03	-1.543	0.123183	
## 'OverallQual=10'	NA	NA	NA	NA	
## 'OverallCond=1'	-6.072e+04	6.082e+04	-0.998	0.318341	
## 'OverallCond=2'	-8.971e+03	2.141e+04	-0.419	0.675287	
## 'OverallCond=3'	-4.723e+04	1.066e+04	-4.430	1.02e-05	***
## 'OverallCond=4'	-3.235e+04	9.117e+03	-3.549	0.000401	***
## 'OverallCond=5'	-2.521e+04	8.205e+03	-3.072	0.002167	**
## 'OverallCond=6'	-1.850e+04	8.116e+03	-2.280	0.022787	*
## 'OverallCond=7'	-1.092e+04	7.859e+03	-1.390	0.164865	
## 'OverallCond=8'	-8.562e+03	8.203e+03	-1.044	0.296791	
## 'OverallCond=9'	NA	NA	NA	NA	
## 'RoofStyle=Flat'	-1.059e+04	2.448e+04	-0.433	0.665443	
## 'RoofStyle=Gable'	4.049e+03	2.281e+04	0.178	0.859115	
## 'RoofStyle=Gambrel'	1.295e+04	2.486e+04	0.521	0.602512	
## 'RoofStyle=Hip'	6.072e+03	2.287e+04	0.265	0.790686	
## 'RoofStyle=Mansard'	2.974e+03	2.550e+04	0.117	0.907165	
## 'RoofStyle=Shed'	NA	NA	NA	NA	
## 'MasVnrType=BrkCmn'	-1.476e+04	8.868e+03	-1.664	0.096334	.
## 'MasVnrType=BrkFace'	-1.427e+03	3.379e+03	-0.422	0.672880	
## 'MasVnrType=None'	4.530e+03	3.641e+03	1.244	0.213649	
## 'MasVnrType=Stone'	NA	NA	NA	NA	
## 'ExterQual=Ex'	4.723e+03	6.971e+03	0.678	0.498202	
## 'ExterQual=Fa'	7.275e+03	1.051e+04	0.692	0.488920	
## 'ExterQual=Gd'	6.630e+03	3.054e+03	2.171	0.030107	*
## 'ExterQual=TA'	NA	NA	NA	NA	
## 'ExterCond=Ex'	-6.653e+03	1.964e+04	-0.339	0.734833	
## 'ExterCond=Fa'	1.136e+03	6.920e+03	0.164	0.869642	

## 'ExterCond=Gd'	-1.782e+03	2.940e+03	-0.606	0.544484	
## 'ExterCond=Po'	-5.419e+04	3.681e+04	-1.472	0.141205	
## 'ExterCond=TA'	NA	NA	NA	NA	
## 'Foundation=BrkTil'	1.698e+04	1.831e+04	0.927	0.353999	
## 'Foundation=CBlock'	2.081e+04	1.802e+04	1.155	0.248320	
## 'Foundation=PConc'	2.378e+04	1.790e+04	1.328	0.184260	
## 'Foundation=Slab'	1.675e+04	2.086e+04	0.803	0.422283	
## 'Foundation=Stone'	2.562e+04	2.267e+04	1.130	0.258680	
## 'Foundation=Wood'	NA	NA	NA	NA	
## 'BsmtQual=Ex'	1.993e+04	5.069e+03	3.932	8.86e-05	***
## 'BsmtQual=Fa'	1.136e+03	5.892e+03	0.193	0.847108	
## 'BsmtQual=Gd'	1.878e+03	2.975e+03	0.631	0.527917	
## 'BsmtQual=No basement'	-5.900e+04	3.331e+04	-1.771	0.076721	.
## 'BsmtQual=TA'	NA	NA	NA	NA	
## 'BsmtCond=Fa'	-7.838e+03	5.208e+03	-1.505	0.132582	
## 'BsmtCond=Gd'	-4.654e+03	4.045e+03	-1.151	0.250097	
## 'BsmtCond=No basement'	NA	NA	NA	NA	
## 'BsmtCond=Po'	-3.699e+04	4.267e+04	-0.867	0.386205	
## 'BsmtCond=TA'	NA	NA	NA	NA	
## 'BsmtExposure=Av'	4.847e+03	2.651e+03	1.828	0.067744	.
## 'BsmtExposure=Gd'	1.893e+04	3.610e+03	5.245	1.83e-07	***
## 'BsmtExposure=Mn'	2.915e+03	3.115e+03	0.936	0.349519	
## 'BsmtExposure=No'	NA	NA	NA	NA	
## 'BsmtExposure=No basement'	NA	NA	NA	NA	
## 'BsmtFinType1=ALQ'	6.237e+03	3.474e+03	1.795	0.072828	.
## 'BsmtFinType1=BLQ'	6.720e+03	3.819e+03	1.760	0.078726	.
## 'BsmtFinType1=GLQ'	1.271e+04	3.261e+03	3.899	0.000102	***
## 'BsmtFinType1=LwQ'	1.710e+03	4.552e+03	0.376	0.707224	
## 'BsmtFinType1=No basement'	NA	NA	NA	NA	
## 'BsmtFinType1=Rec'	5.393e+03	3.866e+03	1.395	0.163230	
## 'BsmtFinType1=Unf'	NA	NA	NA	NA	
## 'BsmtFinType2=ALQ'	1.045e+04	7.621e+03	1.371	0.170490	
## 'BsmtFinType2=BLQ'	-4.582e+03	5.581e+03	-0.821	0.411803	
## 'BsmtFinType2=GLQ'	-1.244e+03	8.690e+03	-0.143	0.886231	
## 'BsmtFinType2=LwQ'	-4.033e+03	4.791e+03	-0.842	0.400129	
## 'BsmtFinType2=No basement'	3.961e+04	3.063e+04	1.293	0.196209	
## 'BsmtFinType2=Rec'	-1.438e+03	4.516e+03	-0.318	0.750295	
## 'BsmtFinType2=Unf'	NA	NA	NA	NA	
## 'HeatingQC=Ex'	2.651e+03	2.472e+03	1.072	0.283735	
## 'HeatingQC=Fa'	-5.280e+02	4.864e+03	-0.109	0.913584	
## 'HeatingQC=Gd'	-4.739e+01	2.627e+03	-0.018	0.985611	
## 'HeatingQC=Po'	-2.239e+04	3.267e+04	-0.685	0.493190	
## 'HeatingQC=TA'	NA	NA	NA	NA	
## 'KitchenQual=Ex'	2.099e+04	4.960e+03	4.232	2.48e-05	***
## 'KitchenQual=Fa'	2.293e+03	5.750e+03	0.399	0.690093	
## 'KitchenQual=Gd'	9.676e+02	2.653e+03	0.365	0.715358	
## 'KitchenQual=TA'	NA	NA	NA	NA	
## 'FireplaceQu=Ex'	5.041e+03	6.957e+03	0.725	0.468787	
## 'FireplaceQu=Fa'	-2.533e+03	5.623e+03	-0.450	0.652431	
## 'FireplaceQu=Gd'	-1.150e+02	2.641e+03	-0.044	0.965264	
## 'FireplaceQu=No basement'	-1.378e+03	4.382e+03	-0.315	0.753175	
## 'FireplaceQu=Po'	-4.383e+02	7.317e+03	-0.060	0.952245	
## 'FireplaceQu=TA'	NA	NA	NA	NA	
## 'GarageType=2Types'	-3.593e+04	1.533e+04	-2.343	0.019270	*

```
## 'GarageType=Attchd'      -9.838e+03  5.785e+03  -1.701  0.089267 .
## 'GarageType=Basement'    -1.249e+04  9.333e+03  -1.338  0.181163
## 'GarageType=BuiltIn'     -1.020e+04  6.844e+03  -1.490  0.136517
## 'GarageType=CarPort'     -1.382e+04  1.207e+04  -1.145  0.252341
## 'GarageType=Detchd'      -9.517e+03  5.670e+03  -1.679  0.093466 .
## 'GarageType=No Garage'   NA          NA          NA          NA
## 'GarageFinish=Fin'       -1.304e+02  2.912e+03  -0.045  0.964288
## 'GarageFinish=No Garage' NA          NA          NA          NA
## 'GarageFinish=RFn'       2.192e+03  2.651e+03  0.827  0.408516
## 'GarageFinish=Unf'       NA          NA          NA          NA
## 'GarageQual=Ex'          4.013e+04  1.848e+04  2.172  0.030025 *
## 'GarageQual=Fa'          -8.320e+03  5.222e+03  -1.593  0.111359
## 'GarageQual=Gd'          5.243e+03  8.439e+03  0.621  0.534515
## 'GarageQual=No Garage'   NA          NA          NA          NA
## 'GarageQual=Po'          -7.330e+03  2.341e+04  -0.313  0.754197
## 'GarageQual=TA'          NA          NA          NA          NA
## 'Fence=GdPrv'            -3.032e+03  4.261e+03  -0.712  0.476842
## 'Fence=GdWo'             -3.268e+03  4.451e+03  -0.734  0.462935
## 'Fence=MnPrv'            1.332e+03  2.757e+03  0.483  0.628994
## 'Fence=MnWw'             -3.732e+03  9.406e+03  -0.397  0.691613
## 'Fence=No Fence'         NA          NA          NA          NA
## 'SaleType=COD'           -4.102e+03  5.177e+03  -0.792  0.428222
## 'SaleType=Con'           3.456e+04  2.119e+04  1.631  0.103207
## 'SaleType=ConLD'         9.134e+03  1.120e+04  0.816  0.414879
## 'SaleType=ConLI'         6.591e+03  1.386e+04  0.476  0.634440
## 'SaleType=ConLw'         -7.657e+02  1.451e+04  -0.053  0.957912
## 'SaleType=CWD'           1.819e+03  1.541e+04  0.118  0.906069
## 'SaleType=New'           3.015e+04  1.844e+04  1.635  0.102361
## 'SaleType=Oth'           3.211e+03  1.795e+04  0.179  0.858069
## 'SaleType=WD'            NA          NA          NA          NA
## 'SaleCondition=Abnorml'   8.424e+03  1.841e+04  0.458  0.647290
## 'SaleCondition=AdjLand'   1.176e+04  2.414e+04  0.487  0.626155
## 'SaleCondition=Alloca'    2.190e+04  2.061e+04  1.063  0.288073
## 'SaleCondition=Family'    9.066e+03  1.945e+04  0.466  0.641274
## 'SaleCondition=Normal'    1.418e+04  1.814e+04  0.781  0.434724
## 'SaleCondition=Partial'   NA          NA          NA          NA
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 29250 on 1305 degrees of freedom
## Multiple R-squared:  0.8788, Adjusted R-squared:  0.8645
## F-statistic: 61.82 on 153 and 1305 DF, p-value: < 2.2e-16
```

```
#Perform stepwise regression using AIC
```

```
stepwise_model <- stepAIC(full_model, direction = "both", trace = FALSE)
summary(stepwise_model)
```

```
##
## Call:
## lm(formula = SalePrice ~ LotFrontage + LotArea + YearBuilt +
##     MasVnrArea + LowQualFinSF + GrLivArea + KitchenAbvGr + TotRmsAbvGrd +
##     Fireplaces + GarageYrBlt + GarageCars + TotBath + TotPorch +
##     'MSZoning=C (all)' + 'MSZoning=FU' + 'MSZoning=RH' + 'MSZoning=RL' +
##     'LotShape=IR2' + 'LotShape=IR3' + 'LandContour=Bnk' + 'LotConfig=CulDSac' +
```

```

## 'LotConfig=FR2' + 'Condition1=Norm' + 'Condition1=PosN' +
## 'Condition1=RRAn' + 'BldgType=1Fam' + 'BldgType=2fmCon' +
## 'BldgType=Duplex' + 'HouseStyle=1.5Fin' + 'HouseStyle=1.5Unf' +
## 'HouseStyle=1Story' + 'OverallQual=1' + 'OverallQual=2' +
## 'OverallQual=3' + 'OverallQual=4' + 'OverallQual=5' + 'OverallQual=6' +
## 'OverallQual=7' + 'OverallQual=8' + 'OverallQual=9' + 'OverallCond=3' +
## 'OverallCond=4' + 'OverallCond=5' + 'OverallCond=6' + 'RoofStyle=Flat' +
## 'MasVnrType=BrkCmn' + 'MasVnrType=None' + 'ExterQual=Gd' +
## 'ExterCond=Po' + 'Foundation=PConc' + 'BsmtQual=Ex' + 'BsmtQual=No basement' +
## 'BsmtCond=Fa' + 'BsmtCond=Po' + 'BsmtExposure=Av' + 'BsmtExposure=Gd' +
## 'BsmtFinType1=ALQ' + 'BsmtFinType1=BLQ' + 'BsmtFinType1=GLQ' +
## 'BsmtFinType1=Rec' + 'BsmtFinType2=ALQ' + 'KitchenQual=Ex' +
## 'GarageType=2Types' + 'GarageQual=Ex' + 'GarageQual=Fa' +
## 'SaleType=Con' + 'SaleType=New' + 'SaleCondition=Alloca' +
## 'SaleCondition=Normal' + 'GarageQual=TA' + 'OverallCond=9',
## data = train_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -383615  -11955    -620   10478  247457
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -8.481e+04  1.304e+05  -0.651  0.515421
## LotFrontage    -1.391e+02  4.644e+01  -2.995  0.002790 **
## LotArea         3.411e-01  9.354e-02   3.647  0.000275 ***
## YearBuilt       2.488e+02  6.250e+01   3.981  7.23e-05 ***
## MasVnrArea      2.795e+01  6.456e+00   4.329  1.60e-05 ***
## LowQualFinSF   -3.072e+01  1.695e+01  -1.812  0.070187 .
## GrLivArea      5.112e+01  3.675e+00  13.911  < 2e-16 ***
## KitchenAbvGr   -1.917e+04  5.996e+03  -3.196  0.001423 **
## TotRmsAbvGrd    1.447e+03  9.521e+02   1.520  0.128801
## Fireplaces      5.941e+03  1.485e+03   4.002  6.62e-05 ***
## GarageYrBlt    -1.464e+02  6.263e+01  -2.338  0.019517 *
## GarageCars      1.326e+04  1.788e+03   7.413  2.14e-13 ***
## TotBath         6.283e+03  1.656e+03   3.795  0.000154 ***
## TotPorch       1.539e+01  5.575e+00   2.761  0.005830 **
## 'MSZoning=C (all)' -2.047e+04  9.858e+03  -2.077  0.038008 *
## 'MSZoning=FV'    1.300e+04  4.677e+03   2.780  0.005516 **
## 'MSZoning=RH'    1.530e+04  7.739e+03   1.977  0.048232 *
## 'MSZoning=RL'    8.969e+03  2.717e+03   3.301  0.000989 ***
## 'LotShape=IR2'   1.033e+04  4.896e+03   2.110  0.035016 *
## 'LotShape=IR3'  -2.680e+04  9.892e+03  -2.709  0.006832 **
## 'LandContour=Bnk' -1.638e+04  4.032e+03  -4.061  5.15e-05 ***
## 'LotConfig=CulDSac' 9.931e+03  3.345e+03   2.969  0.003037 **
## 'LotConfig=FR2'  -6.358e+03  4.379e+03  -1.452  0.146696
## 'Condition1=Norm' 1.293e+04  2.609e+03   4.956  8.09e-07 ***
## 'Condition1=PosN' -1.380e+04  7.270e+03  -1.898  0.057912 .
## 'Condition1=RRAn' 9.511e+03  6.319e+03   1.505  0.132491
## 'BldgType=1Fam'  1.569e+04  3.250e+03   4.827  1.54e-06 ***
## 'BldgType=2fmCon' 1.327e+04  7.155e+03   1.855  0.063851 .
## 'BldgType=Duplex' 1.109e+04  7.273e+03   1.525  0.127505
## 'HouseStyle=1.5Fin' 5.450e+03  2.988e+03   1.824  0.068354 .
## 'HouseStyle=1.5Unf' 1.692e+04  8.264e+03   2.047  0.040831 *

```



```

## 'HouseStyle=1Story'      1.490e+04  2.085e+03   7.148 1.41e-12 ***
## 'OverallQual=1'         -9.530e+04  2.629e+04  -3.625 0.000300 ***
## 'OverallQual=2'         -9.262e+04  2.041e+04  -4.537 6.20e-06 ***
## 'OverallQual=3'         -1.045e+05  1.213e+04  -8.612 < 2e-16 ***
## 'OverallQual=4'         -1.002e+05  1.004e+04  -9.977 < 2e-16 ***
## 'OverallQual=5'         -1.005e+05  9.550e+03 -10.519 < 2e-16 ***
## 'OverallQual=6'         -9.528e+04  9.294e+03 -10.252 < 2e-16 ***
## 'OverallQual=7'         -8.379e+04  9.053e+03  -9.256 < 2e-16 ***
## 'OverallQual=8'         -5.663e+04  8.641e+03  -6.554 7.89e-11 ***
## 'OverallQual=9'         -1.249e+04  8.636e+03  -1.446 0.148272
## 'OverallCond=3'         -3.880e+04  6.542e+03  -5.930 3.82e-09 ***
## 'OverallCond=4'         -2.180e+04  4.495e+03  -4.850 1.37e-06 ***
## 'OverallCond=5'         -1.604e+04  2.531e+03  -6.337 3.16e-10 ***
## 'OverallCond=6'         -8.948e+03  2.595e+03  -3.448 0.000582 ***
## 'RoofStyle=Flat'        -1.462e+04  8.663e+03  -1.688 0.091726 .
## 'MasVnrType=BrkCmn'     -1.462e+04  7.877e+03  -1.855 0.063752 .
## 'MasVnrType=None'       5.525e+03  2.382e+03   2.319 0.020516 *
## 'ExterQual=Gd'          6.874e+03  2.500e+03   2.749 0.006054 **
## 'ExterCond=Po'          -5.206e+04  2.989e+04  -1.742 0.081802 .
## 'Foundation=PConc'      5.044e+03  2.501e+03   2.016 0.043943 *
## 'BsmtQual=Ex'           1.972e+04  3.919e+03   5.032 5.50e-07 ***
## 'BsmtQual=No basement'  -1.244e+04  5.546e+03  -2.243 0.025058 *
## 'BsmtCond=Fa'           -6.921e+03  4.764e+03  -1.453 0.146446
## 'BsmtCond=Po'           -6.240e+04  2.402e+04  -2.598 0.009487 **
## 'BsmtExposure=Av'       4.882e+03  2.355e+03   2.073 0.038361 *
## 'BsmtExposure=Gd'       1.984e+04  3.152e+03   6.292 4.19e-10 ***
## 'BsmtFinType1=ALQ'      5.343e+03  2.730e+03   1.957 0.050537 .
## 'BsmtFinType1=BLQ'      5.404e+03  3.017e+03   1.792 0.073429 .
## 'BsmtFinType1=GLQ'      1.293e+04  2.440e+03   5.298 1.36e-07 ***
## 'BsmtFinType1=Rec'      4.347e+03  3.120e+03   1.393 0.163845
## 'BsmtFinType2=ALQ'      1.024e+04  6.917e+03   1.480 0.139075
## 'KitchenQual=Ex'        2.037e+04  4.105e+03   4.963 7.82e-07 ***
## 'GarageType=2Types'     -2.950e+04  1.243e+04  -2.373 0.017776 *
## 'GarageQual=Ex'         3.073e+04  1.773e+04   1.734 0.083180 .
## 'GarageQual=Fa'         -1.719e+04  6.310e+03  -2.725 0.006512 **
## 'SaleType=Con'          3.436e+04  2.061e+04   1.667 0.095757 .
## 'SaleType=New'          2.182e+04  4.165e+03   5.238 1.87e-07 ***
## 'SaleCondition=Alloca'  1.478e+04  9.395e+03   1.573 0.116008
## 'SaleCondition=Normal'  6.313e+03  2.798e+03   2.257 0.024181 *
## 'GarageQual=TA'         -9.806e+03  4.314e+03  -2.273 0.023186 *
## 'OverallCond=9'         9.443e+03  6.667e+03   1.416 0.156899
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 28710 on 1387 degrees of freedom
## Multiple R-squared:  0.8758, Adjusted R-squared:  0.8695
## F-statistic: 137.8 on 71 and 1387 DF,  p-value: < 2.2e-16

```

```

# Check for multicollinearity
vif_values <- vif(stepwise_model)
vif_values

```

```

##          LotFrontage          LotArea          YearBuilt
##          1.851598          1.543114          6.302624

```

##	MasVnrArea	LowQualFinSF	GrLivArea
##	2.405304	1.202777	6.600592
##	KitchenAbvGr	TotRmsAbvGrd	Fireplaces
##	3.089856	4.239290	1.620729
##	GarageYrBlt	GarageCars	TotBath
##	3.994124	3.161488	2.993243
##	TotPorch	'MSZoning=C (all)'	'MSZoning=FV'
##	1.349868	1.170936	1.648029
##	'MSZoning=RH'	'MSZoning=RL'	'LotShape=IR2'
##	1.149968	2.181688	1.158894
##	'LotShape=IR3'	'LandContour=Bnk'	'LotConfig=CulDSac'
##	1.178970	1.188959	1.193645
##	'LotConfig=FR2'	'Condition1=Norm'	'Condition1=PosN'
##	1.058134	1.425013	1.202561
##	'Condition1=RRAn'	'BldgType=1Fam'	'BldgType=2fmCon'
##	1.237079	2.570461	1.884631
##	'BldgType=Duplex'	'HouseStyle=1.5Fin'	'HouseStyle=1.5Unf'
##	3.218564	1.491909	1.148957
##	'HouseStyle=1Story'	'OverallQual=1'	'OverallQual=2'
##	1.923363	1.675065	1.513741
##	'OverallQual=3'	'OverallQual=4'	'OverallQual=5'
##	3.521763	13.064345	31.927882
##	'OverallQual=6'	'OverallQual=7'	'OverallQual=8'
##	29.147282	24.782733	13.467363
##	'OverallQual=9'	'OverallCond=3'	'OverallCond=4'
##	3.776664	1.276055	1.342469
##	'OverallCond=5'	'OverallCond=6'	'RoofStyle=Flat'
##	2.790624	1.703728	1.173200
##	'MasVnrType=BrkCmn'	'MasVnrType=None'	'ExterQual=Gd'
##	1.117709	2.416743	2.463458
##	'ExterCond=Po'	'Foundation=PConc'	'BsmtQual=Ex'
##	1.083387	2.732350	2.067489
##	'BsmtQual=No basement'	'BsmtCond=Fa'	'BsmtCond=Po'
##	1.345904	1.200679	1.398169
##	'BsmtExposure=Av'	'BsmtExposure=Gd'	'BsmtFinType1=ALQ'
##	1.261797	1.467315	1.689573
##	'BsmtFinType1=BLQ'	'BsmtFinType1=GLQ'	'BsmtFinType1=Rec'
##	1.468326	2.155187	1.427931
##	'BsmtFinType2=ALQ'	'KitchenQual=Ex'	'GarageType=2Types'
##	1.088584	1.904012	1.120564
##	'GarageQual=Ex'	'GarageQual=Fa'	'SaleType=Con'
##	1.141319	2.242572	1.029744
##	'SaleType=New'	'SaleCondition=Alloca'	'SaleCondition=Normal'
##	2.353137	1.274537	2.041118
##	'GarageQual=TA'	'OverallCond=9'	
##	3.021361	1.168718	

```
# Remove high VIF variables in a loop (similar to the previous function)
remove_high_vif <- function(model, threshold = 5) {
  vif_values <- vif(model)
```

```
  # Loop to remove variables with high VIF
  while(any(vif_values > threshold)) {
    # Find the variable with the highest VIF
```

```

highest_vif_var <- names(which.max(vif_values))
cat("Removing variable:", highest_vif_var, "with VIF:", max(vif_values), "\n")

# Update formula to exclude the high-VIF variable
model_formula <- as.formula(
  paste(". ~ . -", highest_vif_var),
  env = environment(formula(model))
)
# Refit the model
model <- update(model, model_formula)
vif_values <- vif(model)
}

return(model)
}

```

```

# Apply the VIF removal function on the stepwise model
final_model <- remove_high_vif(stepwise_model, threshold = 5)

```

```

## Removing variable: 'OverallQual=5' with VIF: 31.92788
## Removing variable: YearBuilt with VIF: 6.295364
## Removing variable: GrLivArea with VIF: 6.18335

```

```
summary(final_model)
```

```

##
## Call:
## lm(formula = SalePrice ~ LotFrontage + LotArea + MasVnrArea +
##   LowQualFinSF + KitchenAbvGr + TotRmsAbvGrd + Fireplaces +
##   GarageYrBlt + GarageCars + TotBath + TotPorch + 'MSZoning=C (all)' +
##   'MSZoning=FV' + 'MSZoning=RH' + 'MSZoning=RL' + 'LotShape=IR2' +
##   'LotShape=IR3' + 'LandContour=Bnk' + 'LotConfig=CulDSac' +
##   'LotConfig=FR2' + 'Condition1=Norm' + 'Condition1=PosN' +
##   'Condition1=RRAn' + 'BldgType=1Fam' + 'BldgType=2fmCon' +
##   'BldgType=Duplex' + 'HouseStyle=1.5Fin' + 'HouseStyle=1.5Unf' +
##   'HouseStyle=1Story' + 'OverallQual=1' + 'OverallQual=2' +
##   'OverallQual=3' + 'OverallQual=4' + 'OverallQual=6' + 'OverallQual=7' +
##   'OverallQual=8' + 'OverallQual=9' + 'OverallCond=3' + 'OverallCond=4' +
##   'OverallCond=5' + 'OverallCond=6' + 'RoofStyle=Flat' + 'MasVnrType=BrkCmn' +
##   'MasVnrType=None' + 'ExterQual=Gd' + 'ExterCond=Po' + 'Foundation=PConc' +
##   'BsmtQual=Ex' + 'BsmtQual=No basement' + 'BsmtCond=Fa' +
##   'BsmtCond=Po' + 'BsmtExposure=Av' + 'BsmtExposure=Gd' + 'BsmtFinType1=ALQ' +
##   'BsmtFinType1=BLQ' + 'BsmtFinType1=GLQ' + 'BsmtFinType1=Rec' +
##   'BsmtFinType2=ALQ' + 'KitchenQual=Ex' + 'GarageType=2Types' +
##   'GarageQual=Ex' + 'GarageQual=Fa' + 'SaleType=Con' + 'SaleType=New' +
##   'SaleCondition=Alloca' + 'SaleCondition=Normal' + 'GarageQual=TA' +
##   'OverallCond=9', data = train_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -271065  -15666    -527   13957  382389
##

```

```

## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    1.361e+05  1.257e+05   1.083 0.278920
## LotFrontage    4.950e+01  5.162e+01   0.959 0.337733
## LotArea        3.952e-01  1.059e-01   3.732 0.000198 ***
## MasVnrArea     6.097e+01  7.092e+00   8.597 < 2e-16 ***
## LowQualFinSF   -1.356e+01  1.897e+01  -0.715 0.474880
## KitchenAbvGr   -2.205e+04  6.769e+03  -3.257 0.001152 **
## TotRmsAbvGrd    1.067e+04  8.482e+02  12.573 < 2e-16 ***
## Fireplaces     1.058e+04  1.659e+03   6.376 2.46e-10 ***
## GarageYrBlt    -7.106e+01  6.341e+01  -1.121 0.262659
## GarageCars      1.800e+04  2.011e+03   8.954 < 2e-16 ***
## TotBath         1.434e+04  1.792e+03   8.003 2.53e-15 ***
## TotPorch        2.917e+01  6.215e+00   4.694 2.95e-06 ***
## 'MSZoning=C (all)' -2.482e+04  1.119e+04  -2.217 0.026793 *
## 'MSZoning=FV'     1.694e+04  5.249e+03   3.228 0.001278 **
## 'MSZoning=RH'     1.841e+04  8.784e+03   2.096 0.036240 *
## 'MSZoning=RL'     9.497e+03  2.998e+03   3.168 0.001570 **
## 'LotShape=IR2'     1.115e+04  5.560e+03   2.006 0.045070 *
## 'LotShape=IR3'    -2.161e+04  1.123e+04  -1.924 0.054538 .
## 'LandContour=Bnk' -1.172e+04  4.540e+03  -2.581 0.009949 **
## 'LotConfig=CulDSac' 1.419e+04  3.779e+03   3.756 0.000180 ***
## 'LotConfig=FR2'   -7.400e+03  4.970e+03  -1.489 0.136719
## 'Condition1=Norm'  1.356e+04  2.960e+03   4.582 5.02e-06 ***
## 'Condition1=PosN' -1.309e+03  8.229e+03  -0.159 0.873634
## 'Condition1=RRAn'  7.595e+03  7.170e+03   1.059 0.289637
## 'BldgType=1Fam'    7.986e+03  3.642e+03   2.193 0.028478 *
## 'BldgType=2fmCon' -1.949e+03  8.043e+03  -0.242 0.808564
## 'BldgType=Duplex' -2.277e+03  8.220e+03  -0.277 0.781846
## 'HouseStyle=1.5Fin' 6.398e+03  3.345e+03   1.913 0.055987 .
## 'HouseStyle=1.5Unf' 1.165e+04  9.348e+03   1.246 0.212874
## 'HouseStyle=1Story' 1.010e+04  2.313e+03   4.366 1.36e-05 ***
## 'OverallQual=1'    6.468e+03  2.768e+04   0.234 0.815247
## 'OverallQual=2'    3.685e+03  2.027e+04   0.182 0.855725
## 'OverallQual=3'   -1.475e+04  8.244e+03  -1.789 0.073762 .
## 'OverallQual=4'   -1.715e+03  3.682e+03  -0.466 0.641466
## 'OverallQual=6'    1.262e+03  2.586e+03   0.488 0.625752
## 'OverallQual=7'    1.136e+04  3.321e+03   3.422 0.000641 ***
## 'OverallQual=8'    3.251e+04  4.226e+03   7.694 2.69e-14 ***
## 'OverallQual=9'    4.942e+04  6.890e+03   7.172 1.19e-12 ***
## 'OverallCond=3'   -3.776e+04  7.425e+03  -5.086 4.16e-07 ***
## 'OverallCond=4'   -1.860e+04  5.092e+03  -3.653 0.000269 ***
## 'OverallCond=5'   -1.279e+04  2.764e+03  -4.630 4.00e-06 ***
## 'OverallCond=6'   -6.714e+03  2.929e+03  -2.292 0.022027 *
## 'RoofStyle=Flat'  -1.392e+04  9.813e+03  -1.418 0.156379
## 'MasVnrType=BrkCmn' -1.809e+04  8.947e+03  -2.022 0.043349 *
## 'MasVnrType=None'  1.067e+04  2.670e+03   3.996 6.78e-05 ***
## 'ExterQual=Gd'     1.123e+04  2.802e+03   4.008 6.46e-05 ***
## 'ExterCond=Po'    -2.964e+04  3.391e+04  -0.874 0.382177
## 'Foundation=PConc' 8.099e+03  2.802e+03   2.890 0.003912 **
## 'BsmtQual=Ex'      3.302e+04  4.336e+03   7.616 4.80e-14 ***
## 'BsmtQual=No basement' -9.015e+03  6.292e+03  -1.433 0.152167
## 'BsmtCond=Fa'     -4.433e+03  5.374e+03  -0.825 0.409594
## 'BsmtCond=Po'     -6.527e+04  2.729e+04  -2.392 0.016889 *

```

```
## 'BsmtExposure=Av'      2.938e+03  2.648e+03  1.109 0.267506
## 'BsmtExposure=Gd'      2.485e+04  3.544e+03  7.011 3.67e-12 ***
## 'BsmtFinType1=ALQ'     6.795e+01  3.077e+03  0.022 0.982383
## 'BsmtFinType1=BLQ'     2.734e+03  3.422e+03  0.799 0.424440
## 'BsmtFinType1=GLQ'     1.219e+04  2.760e+03  4.418 1.07e-05 ***
## 'BsmtFinType1=Rec'     1.942e+03  3.540e+03  0.549 0.583281
## 'BsmtFinType2=ALQ'     6.738e+03  7.850e+03  0.858 0.390858
## 'KitchenQual=Ex'       3.886e+04  4.457e+03  8.720 < 2e-16 ***
## 'GarageType=2Types'    -3.339e+04  1.411e+04 -2.366 0.018132 *
## 'GarageQual=Ex'        5.233e+04  2.001e+04  2.616 0.009004 **
## 'GarageQual=Fa'       -2.266e+04  7.147e+03 -3.171 0.001553 **
## 'SaleType=Con'         3.373e+04  2.342e+04  1.440 0.150105
## 'SaleType=New'         1.960e+04  4.705e+03  4.166 3.30e-05 ***
## 'SaleCondition=Alloca' 1.167e+04  1.066e+04  1.094 0.274016
## 'SaleCondition=Normal' 4.839e+03  3.176e+03  1.524 0.127758
## 'GarageQual=TA'        -1.263e+04  4.793e+03 -2.636 0.008486 **
## 'OverallCond=9'        1.974e+04  7.463e+03  2.645 0.008267 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 32620 on 1390 degrees of freedom
## Multiple R-squared:  0.8394, Adjusted R-squared:  0.8315
## F-statistic: 106.8 on 68 and 1390 DF,  p-value: < 2.2e-16
```

## Fine Tune Model

```
# Apply log transformation to the target variable
train_data$log_sale <- log(train_data$SalePrice)
```

```
# Step 2: Extract the formula from `final_model`, removing the response part
predictor_formula <- reformulate(attr(terms(final_model), "term.labels"))
```

```
# Step 3: Fit a new model with log-transformed target
```

```
log_model <- lm(as.formula(paste("log_sale ~", paste(attr(terms(final_model), "term.labels"), collapse = " + "))), data = train_data)
```

```
summary(log_model)
```

```
##
## Call:
## lm(formula = as.formula(paste("log_sale ~", paste(attr(terms(final_model),
## "term.labels"), collapse = " + "))), data = train_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.05599 -0.07366  0.00160  0.07828  0.74926
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    1.090e+01  5.443e-01  20.030 < 2e-16 ***
## LotFrontage     4.511e-04  2.235e-04   2.018 0.043749 *
```

## LotArea	1.669e-06	4.586e-07	3.639	0.000284	***
## MasVnrArea	1.402e-04	3.071e-05	4.565	5.45e-06	***
## LowQualFinSF	3.163e-05	8.216e-05	0.385	0.700302	
## KitchenAbvGr	-7.189e-02	2.931e-02	-2.453	0.014302	*
## TotRmsAbvGrd	4.892e-02	3.673e-03	13.319	< 2e-16	***
## Fireplaces	6.145e-02	7.185e-03	8.553	< 2e-16	***
## GarageYrBlt	2.365e-05	2.746e-04	0.086	0.931378	
## GarageCars	8.904e-02	8.707e-03	10.226	< 2e-16	***
## TotBath	7.652e-02	7.759e-03	9.862	< 2e-16	***
## TotPorch	1.668e-04	2.691e-05	6.197	7.55e-10	***
## 'MSZoning=C (all)'	-3.235e-01	4.847e-02	-6.674	3.59e-11	***
## 'MSZoning=FV'	1.538e-01	2.273e-02	6.766	1.95e-11	***
## 'MSZoning=RH'	1.321e-01	3.804e-02	3.472	0.000533	***
## 'MSZoning=RL'	9.954e-02	1.298e-02	7.667	3.29e-14	***
## 'LotShape=IR2'	3.840e-02	2.407e-02	1.595	0.110932	
## 'LotShape=IR3'	-9.200e-02	4.863e-02	-1.892	0.058713	.
## 'LandContour=Bnk'	-5.472e-02	1.966e-02	-2.784	0.005450	**
## 'LotConfig=CulDSac'	6.733e-02	1.636e-02	4.115	4.10e-05	***
## 'LotConfig=FR2'	-1.969e-02	2.152e-02	-0.915	0.360444	
## 'Condition1=Norm'	7.325e-02	1.282e-02	5.716	1.33e-08	***
## 'Condition1=PosN'	4.447e-02	3.563e-02	1.248	0.212285	
## 'Condition1=RRAn'	3.475e-02	3.105e-02	1.119	0.263202	
## 'BldgType=1Fam'	3.245e-02	1.577e-02	2.058	0.039777	*
## 'BldgType=2fmCon'	2.009e-03	3.483e-02	0.058	0.954011	
## 'BldgType=Duplex'	2.168e-02	3.559e-02	0.609	0.542593	
## 'HouseStyle=1.5Fin'	4.297e-02	1.448e-02	2.967	0.003061	**
## 'HouseStyle=1.5Unf'	2.533e-02	4.048e-02	0.626	0.531576	
## 'HouseStyle=1Story'	5.287e-02	1.002e-02	5.279	1.51e-07	***
## 'OverallQual=1'	-3.618e-01	1.198e-01	-3.019	0.002578	**
## 'OverallQual=2'	-3.307e-01	8.775e-02	-3.769	0.000171	***
## 'OverallQual=3'	-2.003e-01	3.570e-02	-5.610	2.43e-08	***
## 'OverallQual=4'	-6.245e-02	1.594e-02	-3.916	9.42e-05	***
## 'OverallQual=6'	5.539e-02	1.120e-02	4.945	8.52e-07	***
## 'OverallQual=7'	1.240e-01	1.438e-02	8.626	< 2e-16	***
## 'OverallQual=8'	2.096e-01	1.830e-02	11.452	< 2e-16	***
## 'OverallQual=9'	2.370e-01	2.983e-02	7.944	4.03e-15	***
## 'OverallCond=3'	-2.945e-01	3.215e-02	-9.159	< 2e-16	***
## 'OverallCond=4'	-1.340e-01	2.205e-02	-6.077	1.57e-09	***
## 'OverallCond=5'	-8.646e-02	1.197e-02	-7.225	8.23e-13	***
## 'OverallCond=6'	-4.758e-02	1.268e-02	-3.752	0.000183	***
## 'RoofStyle=Flat'	-2.084e-03	4.249e-02	-0.049	0.960897	
## 'MasVnrType=BrkCmn'	-8.335e-02	3.874e-02	-2.151	0.031613	*
## 'MasVnrType=None'	1.758e-02	1.156e-02	1.520	0.128711	
## 'ExterQual=Gd'	4.983e-02	1.213e-02	4.107	4.24e-05	***
## 'ExterCond=Po'	-2.116e-01	1.468e-01	-1.441	0.149804	
## 'Foundation=PConc'	5.807e-02	1.213e-02	4.786	1.88e-06	***
## 'BsmtQual=Ex'	8.655e-02	1.877e-02	4.610	4.39e-06	***
## 'BsmtQual=No basement'	-1.055e-01	2.725e-02	-3.874	0.000112	***
## 'BsmtCond=Fa'	-3.049e-02	2.327e-02	-1.310	0.190255	
## 'BsmtCond=Po'	-3.664e-01	1.181e-01	-3.101	0.001967	**
## 'BsmtExposure=Av'	1.136e-02	1.147e-02	0.990	0.322173	
## 'BsmtExposure=Gd'	8.506e-02	1.535e-02	5.543	3.56e-08	***
## 'BsmtFinType1=ALQ'	1.676e-02	1.332e-02	1.258	0.208541	
## 'BsmtFinType1=BLQ'	2.013e-02	1.482e-02	1.358	0.174530	

```
## 'BsmtFinType1=GLQ'      5.269e-02  1.195e-02   4.409 1.12e-05 ***
## 'BsmtFinType1=Rec'      2.492e-02  1.533e-02   1.626 0.104194
## 'BsmtFinType2=ALQ'      2.077e-02  3.399e-02   0.611 0.541215
## 'KitchenQual=Ex'        1.179e-01  1.930e-02   6.110 1.29e-09 ***
## 'GarageType=2Types'     -1.336e-01  6.111e-02  -2.185 0.029021 *
## 'GarageQual=Ex'         2.071e-01  8.663e-02   2.391 0.016931 *
## 'GarageQual=Fa'         -5.022e-02  3.095e-02  -1.623 0.104906
## 'SaleType=Con'          1.214e-01  1.014e-01   1.198 0.231304
## 'SaleType=New'          1.062e-01  2.037e-02   5.211 2.16e-07 ***
## 'SaleCondition=Alloca'  7.085e-02  4.617e-02   1.535 0.125109
## 'SaleCondition=Normal'  5.692e-02  1.375e-02   4.140 3.69e-05 ***
## 'GarageQual=TA'         1.873e-02  2.076e-02   0.903 0.366932
## 'OverallCond=9'         8.923e-02  3.231e-02   2.761 0.005830 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1412 on 1390 degrees of freedom
## Multiple R-squared:  0.8809, Adjusted R-squared:  0.8751
## F-statistic: 151.2 on 68 and 1390 DF, p-value: < 2.2e-16
```

```
# Perform stepwise selection again on the transformed target variable, if desired
#log_stepwise_model <- stepAIC(log_model, direction = "both")
#summary(log_stepwise_model)
```