Assignment 1

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#Downloaded the Dataset From Kaggle

#Importing the dataset to RStudio

train <- read.csv("C:/Users/Kittu Varma/Downloads/train.csv")  
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

#Summary of the train dataset

summary(train)

## Id MSSubClass MSZoning LotFrontage   
## Min. : 1.0 Min. : 20.0 Length:1460 Min. : 21.00   
## 1st Qu.: 365.8 1st Qu.: 20.0 Class :character 1st Qu.: 59.00   
## Median : 730.5 Median : 50.0 Mode :character Median : 69.00   
## Mean : 730.5 Mean : 56.9 Mean : 70.05   
## 3rd Qu.:1095.2 3rd Qu.: 70.0 3rd Qu.: 80.00   
## Max. :1460.0 Max. :190.0 Max. :313.00   
## NA's :259   
## LotArea Street Alley LotShape   
## Min. : 1300 Length:1460 Length:1460 Length:1460   
## 1st Qu.: 7554 Class :character Class :character Class :character   
## Median : 9478 Mode :character Mode :character Mode :character   
## Mean : 10517   
## 3rd Qu.: 11602   
## Max. :215245   
##   
## LandContour Utilities LotConfig LandSlope   
## Length:1460 Length:1460 Length:1460 Length:1460   
## Class :character Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character Mode :character   
##   
##   
##   
##   
## Neighborhood Condition1 Condition2 BldgType   
## Length:1460 Length:1460 Length:1460 Length:1460   
## Class :character Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character Mode :character   
##   
##   
##   
##   
## HouseStyle OverallQual OverallCond YearBuilt   
## Length:1460 Min. : 1.000 Min. :1.000 Min. :1872   
## Class :character 1st Qu.: 5.000 1st Qu.:5.000 1st Qu.:1954   
## Mode :character Median : 6.000 Median :5.000 Median :1973   
## Mean : 6.099 Mean :5.575 Mean :1971   
## 3rd Qu.: 7.000 3rd Qu.:6.000 3rd Qu.:2000   
## Max. :10.000 Max. :9.000 Max. :2010   
##   
## YearRemodAdd RoofStyle RoofMatl Exterior1st   
## Min. :1950 Length:1460 Length:1460 Length:1460   
## 1st Qu.:1967 Class :character Class :character Class :character   
## Median :1994 Mode :character Mode :character Mode :character   
## Mean :1985   
## 3rd Qu.:2004   
## Max. :2010   
##   
## Exterior2nd MasVnrType MasVnrArea ExterQual   
## Length:1460 Length:1460 Min. : 0.0 Length:1460   
## Class :character Class :character 1st Qu.: 0.0 Class :character   
## Mode :character Mode :character Median : 0.0 Mode :character   
## Mean : 103.7   
## 3rd Qu.: 166.0   
## Max. :1600.0   
## NA's :8   
## ExterCond Foundation BsmtQual BsmtCond   
## Length:1460 Length:1460 Length:1460 Length:1460   
## Class :character Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character Mode :character   
##   
##   
##   
##   
## BsmtExposure BsmtFinType1 BsmtFinSF1 BsmtFinType2   
## Length:1460 Length:1460 Min. : 0.0 Length:1460   
## Class :character Class :character 1st Qu.: 0.0 Class :character   
## Mode :character Mode :character Median : 383.5 Mode :character   
## Mean : 443.6   
## 3rd Qu.: 712.2   
## Max. :5644.0   
##   
## BsmtFinSF2 BsmtUnfSF TotalBsmtSF Heating   
## Min. : 0.00 Min. : 0.0 Min. : 0.0 Length:1460   
## 1st Qu.: 0.00 1st Qu.: 223.0 1st Qu.: 795.8 Class :character   
## Median : 0.00 Median : 477.5 Median : 991.5 Mode :character   
## Mean : 46.55 Mean : 567.2 Mean :1057.4   
## 3rd Qu.: 0.00 3rd Qu.: 808.0 3rd Qu.:1298.2   
## Max. :1474.00 Max. :2336.0 Max. :6110.0   
##   
## HeatingQC CentralAir Electrical X1stFlrSF   
## Length:1460 Length:1460 Length:1460 Min. : 334   
## Class :character Class :character Class :character 1st Qu.: 882   
## Mode :character Mode :character Mode :character Median :1087   
## Mean :1163   
## 3rd Qu.:1391   
## Max. :4692   
##   
## X2ndFlrSF LowQualFinSF GrLivArea BsmtFullBath   
## Min. : 0 Min. : 0.000 Min. : 334 Min. :0.0000   
## 1st Qu.: 0 1st Qu.: 0.000 1st Qu.:1130 1st Qu.:0.0000   
## Median : 0 Median : 0.000 Median :1464 Median :0.0000   
## Mean : 347 Mean : 5.845 Mean :1515 Mean :0.4253   
## 3rd Qu.: 728 3rd Qu.: 0.000 3rd Qu.:1777 3rd Qu.:1.0000   
## Max. :2065 Max. :572.000 Max. :5642 Max. :3.0000   
##   
## BsmtHalfBath FullBath HalfBath BedroomAbvGr   
## Min. :0.00000 Min. :0.000 Min. :0.0000 Min. :0.000   
## 1st Qu.:0.00000 1st Qu.:1.000 1st Qu.:0.0000 1st Qu.:2.000   
## Median :0.00000 Median :2.000 Median :0.0000 Median :3.000   
## Mean :0.05753 Mean :1.565 Mean :0.3829 Mean :2.866   
## 3rd Qu.:0.00000 3rd Qu.:2.000 3rd Qu.:1.0000 3rd Qu.:3.000   
## Max. :2.00000 Max. :3.000 Max. :2.0000 Max. :8.000   
##   
## KitchenAbvGr KitchenQual TotRmsAbvGrd Functional   
## Min. :0.000 Length:1460 Min. : 2.000 Length:1460   
## 1st Qu.:1.000 Class :character 1st Qu.: 5.000 Class :character   
## Median :1.000 Mode :character Median : 6.000 Mode :character   
## Mean :1.047 Mean : 6.518   
## 3rd Qu.:1.000 3rd Qu.: 7.000   
## Max. :3.000 Max. :14.000   
##   
## Fireplaces FireplaceQu GarageType GarageYrBlt   
## Min. :0.000 Length:1460 Length:1460 Min. :1900   
## 1st Qu.:0.000 Class :character Class :character 1st Qu.:1961   
## Median :1.000 Mode :character Mode :character Median :1980   
## Mean :0.613 Mean :1979   
## 3rd Qu.:1.000 3rd Qu.:2002   
## Max. :3.000 Max. :2010   
## NA's :81   
## GarageFinish GarageCars GarageArea GarageQual   
## Length:1460 Min. :0.000 Min. : 0.0 Length:1460   
## Class :character 1st Qu.:1.000 1st Qu.: 334.5 Class :character   
## Mode :character Median :2.000 Median : 480.0 Mode :character   
## Mean :1.767 Mean : 473.0   
## 3rd Qu.:2.000 3rd Qu.: 576.0   
## Max. :4.000 Max. :1418.0   
##   
## GarageCond PavedDrive WoodDeckSF OpenPorchSF   
## Length:1460 Length:1460 Min. : 0.00 Min. : 0.00   
## Class :character Class :character 1st Qu.: 0.00 1st Qu.: 0.00   
## Mode :character Mode :character Median : 0.00 Median : 25.00   
## Mean : 94.24 Mean : 46.66   
## 3rd Qu.:168.00 3rd Qu.: 68.00   
## Max. :857.00 Max. :547.00   
##   
## EnclosedPorch X3SsnPorch ScreenPorch PoolArea   
## Min. : 0.00 Min. : 0.00 Min. : 0.00 Min. : 0.000   
## 1st Qu.: 0.00 1st Qu.: 0.00 1st Qu.: 0.00 1st Qu.: 0.000   
## Median : 0.00 Median : 0.00 Median : 0.00 Median : 0.000   
## Mean : 21.95 Mean : 3.41 Mean : 15.06 Mean : 2.759   
## 3rd Qu.: 0.00 3rd Qu.: 0.00 3rd Qu.: 0.00 3rd Qu.: 0.000   
## Max. :552.00 Max. :508.00 Max. :480.00 Max. :738.000   
##   
## PoolQC Fence MiscFeature MiscVal   
## Length:1460 Length:1460 Length:1460 Min. : 0.00   
## Class :character Class :character Class :character 1st Qu.: 0.00   
## Mode :character Mode :character Mode :character Median : 0.00   
## Mean : 43.49   
## 3rd Qu.: 0.00   
## Max. :15500.00   
##   
## MoSold YrSold SaleType SaleCondition   
## Min. : 1.000 Min. :2006 Length:1460 Length:1460   
## 1st Qu.: 5.000 1st Qu.:2007 Class :character Class :character   
## Median : 6.000 Median :2008 Mode :character Mode :character   
## Mean : 6.322 Mean :2008   
## 3rd Qu.: 8.000 3rd Qu.:2009   
## Max. :12.000 Max. :2010   
##   
## SalePrice   
## Min. : 34900   
## 1st Qu.:129975   
## Median :163000   
## Mean :180921   
## 3rd Qu.:214000   
## Max. :755000   
##

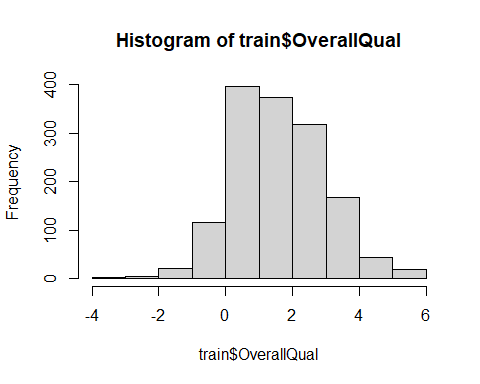
#Transformation of OverallQual Variable

train$OverallQual <- (train$OverallQual - mean(train$OverallQual)/sd(train$OverallQual))  
train$OverallQual

## [1] 2.5897829 1.5897829 2.5897829 2.5897829 3.5897829 0.5897829  
## [7] 3.5897829 2.5897829 2.5897829 0.5897829 0.5897829 4.5897829  
## [13] 0.5897829 2.5897829 1.5897829 2.5897829 1.5897829 -0.4102171  
## [19] 0.5897829 0.5897829 3.5897829 2.5897829 3.5897829 0.5897829  
## [25] 0.5897829 3.5897829 0.5897829 3.5897829 0.5897829 -0.4102171  
## [31] -0.4102171 0.5897829 3.5897829 0.5897829 4.5897829 3.5897829  
## [37] 0.5897829 0.5897829 0.5897829 -0.4102171 1.5897829 0.5897829  
## [43] 0.5897829 0.5897829 0.5897829 4.5897829 2.5897829 3.5897829  
## [49] -0.4102171 0.5897829 1.5897829 1.5897829 0.5897829 4.5897829  
## [55] 0.5897829 1.5897829 3.5897829 2.5897829 5.5897829 0.5897829  
## [61] 1.5897829 0.5897829 3.5897829 2.5897829 2.5897829 3.5897829  
## [67] 2.5897829 2.5897829 -0.4102171 2.5897829 2.5897829 -0.4102171  
## [73] 2.5897829 0.5897829 -1.4102171 -0.4102171 -0.4102171 0.5897829  
## [79] -0.4102171 0.5897829 1.5897829 1.5897829 3.5897829 0.5897829  
## [85] 2.5897829 3.5897829 1.5897829 1.5897829 -1.4102171 -0.4102171  
## [91] -0.4102171 0.5897829 0.5897829 1.5897829 1.5897829 1.5897829  
## [97] 2.5897829 -0.4102171 0.5897829 -0.4102171 1.5897829 1.5897829  
## [103] 0.5897829 2.5897829 2.5897829 3.5897829 -0.4102171 0.5897829  
## [109] 0.5897829 1.5897829 1.5897829 2.5897829 2.5897829 1.5897829  
## [115] 1.5897829 1.5897829 0.5897829 0.5897829 2.5897829 1.5897829  
## [121] 1.5897829 -0.4102171 1.5897829 1.5897829 1.5897829 1.5897829  
## [127] 1.5897829 0.5897829 1.5897829 0.5897829 2.5897829 1.5897829  
## [133] 0.5897829 3.5897829 0.5897829 2.5897829 0.5897829 2.5897829  
## [139] 3.5897829 1.5897829 -0.4102171 2.5897829 0.5897829 2.5897829  
## [145] 0.5897829 1.5897829 0.5897829 2.5897829 2.5897829 0.5897829  
## [151] 0.5897829 3.5897829 1.5897829 1.5897829 1.5897829 1.5897829  
## [157] 0.5897829 3.5897829 2.5897829 2.5897829 1.5897829 4.5897829  
## [163] 2.5897829 -0.4102171 1.5897829 0.5897829 0.5897829 3.5897829  
## [169] 2.5897829 3.5897829 0.5897829 1.5897829 2.5897829 1.5897829  
## [175] 1.5897829 1.5897829 1.5897829 0.5897829 4.5897829 0.5897829  
## [181] 1.5897829 2.5897829 0.5897829 2.5897829 0.5897829 5.5897829  
## [187] 2.5897829 0.5897829 0.5897829 3.5897829 3.5897829 2.5897829  
## [193] 2.5897829 2.5897829 0.5897829 1.5897829 2.5897829 3.5897829  
## [199] 1.5897829 3.5897829 -0.4102171 1.5897829 1.5897829 1.5897829  
## [205] 0.5897829 2.5897829 0.5897829 -0.4102171 2.5897829 1.5897829  
## [211] 0.5897829 1.5897829 2.5897829 0.5897829 1.5897829 0.5897829  
## [217] 2.5897829 -0.4102171 2.5897829 2.5897829 2.5897829 1.5897829  
## [223] 1.5897829 -0.4102171 5.5897829 0.5897829 2.5897829 1.5897829  
## [229] 0.5897829 2.5897829 1.5897829 3.5897829 1.5897829 0.5897829  
## [235] 1.5897829 1.5897829 2.5897829 2.5897829 3.5897829 1.5897829  
## [241] 3.5897829 0.5897829 0.5897829 1.5897829 2.5897829 2.5897829  
## [247] 1.5897829 1.5897829 2.5897829 1.5897829 -1.4102171 3.5897829  
## [253] 1.5897829 1.5897829 0.5897829 2.5897829 1.5897829 2.5897829  
## [259] 2.5897829 0.5897829 1.5897829 3.5897829 1.5897829 0.5897829  
## [265] 0.5897829 1.5897829 1.5897829 0.5897829 0.5897829 1.5897829  
## [271] 3.5897829 2.5897829 3.5897829 1.5897829 0.5897829 2.5897829  
## [277] 2.5897829 -0.4102171 4.5897829 2.5897829 2.5897829 1.5897829  
## [283] 2.5897829 3.5897829 1.5897829 2.5897829 1.5897829 -0.4102171  
## [289] 0.5897829 1.5897829 3.5897829 0.5897829 0.5897829 2.5897829  
## [295] 1.5897829 1.5897829 0.5897829 2.5897829 1.5897829 1.5897829  
## [301] 0.5897829 3.5897829 2.5897829 0.5897829 2.5897829 3.5897829  
## [307] 2.5897829 1.5897829 -0.4102171 4.5897829 1.5897829 1.5897829  
## [313] 0.5897829 2.5897829 2.5897829 2.5897829 2.5897829 3.5897829  
## [319] 2.5897829 2.5897829 4.5897829 3.5897829 2.5897829 -1.4102171  
## [325] 2.5897829 0.5897829 3.5897829 1.5897829 1.5897829 0.5897829  
## [331] 0.5897829 0.5897829 3.5897829 2.5897829 1.5897829 0.5897829  
## [337] 4.5897829 2.5897829 2.5897829 1.5897829 3.5897829 -0.4102171  
## [343] -1.4102171 4.5897829 0.5897829 1.5897829 1.5897829 1.5897829  
## [349] 2.5897829 4.5897829 4.5897829 2.5897829 0.5897829 1.5897829  
## [355] 1.5897829 1.5897829 1.5897829 0.5897829 0.5897829 3.5897829  
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## [367] 1.5897829 1.5897829 0.5897829 0.5897829 1.5897829 -0.4102171  
## [373] 1.5897829 0.5897829 2.5897829 -3.4102171 0.5897829 3.5897829  
## [379] 4.5897829 1.5897829 0.5897829 2.5897829 2.5897829 1.5897829  
## [385] 1.5897829 3.5897829 0.5897829 1.5897829 2.5897829 5.5897829  
## [391] 0.5897829 1.5897829 0.5897829 -0.4102171 0.5897829 0.5897829  
## [397] 0.5897829 0.5897829 0.5897829 2.5897829 3.5897829 2.5897829  
## [403] 0.5897829 3.5897829 1.5897829 -0.4102171 1.5897829 1.5897829  
## [409] 2.5897829 3.5897829 0.5897829 0.5897829 2.5897829 0.5897829  
## [415] 2.5897829 2.5897829 1.5897829 1.5897829 0.5897829 0.5897829  
## [421] 2.5897829 1.5897829 0.5897829 3.5897829 1.5897829 2.5897829  
## [427] 2.5897829 -0.4102171 2.5897829 1.5897829 1.5897829 1.5897829  
## [433] 0.5897829 1.5897829 -0.4102171 2.5897829 1.5897829 1.5897829  
## [439] 0.5897829 1.5897829 5.5897829 -0.4102171 0.5897829 2.5897829  
## [445] 2.5897829 1.5897829 1.5897829 2.5897829 1.5897829 -1.4102171  
## [451] 1.5897829 2.5897829 1.5897829 3.5897829 0.5897829 2.5897829  
## [457] 0.5897829 -0.4102171 3.5897829 0.5897829 3.5897829 2.5897829  
## [463] 0.5897829 1.5897829 0.5897829 2.5897829 2.5897829 0.5897829  
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## [475] 3.5897829 0.5897829 1.5897829 4.5897829 3.5897829 -0.4102171  
## [481] 4.5897829 4.5897829 2.5897829 1.5897829 0.5897829 0.5897829  
## [487] 0.5897829 0.5897829 0.5897829 -0.4102171 0.5897829 1.5897829  
## [493] 1.5897829 0.5897829 0.5897829 -0.4102171 3.5897829 2.5897829  
## [499] 0.5897829 0.5897829 1.5897829 2.5897829 0.5897829 2.5897829  
## [505] 1.5897829 0.5897829 3.5897829 1.5897829 2.5897829 0.5897829  
## [511] 0.5897829 2.5897829 0.5897829 1.5897829 0.5897829 5.5897829  
## [517] 1.5897829 2.5897829 1.5897829 2.5897829 -0.4102171 1.5897829  
## [523] 1.5897829 5.5897829 2.5897829 2.5897829 0.5897829 4.5897829  
## [529] -0.4102171 1.5897829 1.5897829 1.5897829 0.5897829 -3.4102171  
## [535] 3.5897829 0.5897829 2.5897829 -0.4102171 0.5897829 3.5897829  
## [541] 4.5897829 3.5897829 2.5897829 2.5897829 2.5897829 2.5897829  
## [547] 1.5897829 0.5897829 0.5897829 2.5897829 1.5897829 0.5897829  
## [553] 3.5897829 -0.4102171 2.5897829 0.5897829 0.5897829 -0.4102171  
## [559] 2.5897829 2.5897829 0.5897829 0.5897829 0.5897829 1.5897829  
## [565] 2.5897829 1.5897829 4.5897829 2.5897829 3.5897829 0.5897829  
## [571] 0.5897829 1.5897829 2.5897829 2.5897829 0.5897829 0.5897829  
## [577] 2.5897829 0.5897829 2.5897829 0.5897829 1.5897829 3.5897829  
## [583] 1.5897829 5.5897829 -0.4102171 3.5897829 1.5897829 0.5897829  
## [589] 0.5897829 0.5897829 2.5897829 5.5897829 0.5897829 1.5897829  
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## [1453] 0.5897829 0.5897829 2.5897829 1.5897829 1.5897829 2.5897829  
## [1459] 0.5897829 0.5897829

#Histogram and Scatter plot

#Histogram Chart  
hist(train$OverallQual)



#plotting the scatter plot  
plot(train$BsmtFinSF1,train$BsmtUnfSF)

