```
#These factor variables evaluate quality of house with ordered levels,
#such as "Ex", "Fa","Gd", "TA", and "Po".
#These will be matched to numbers: "5","4","3","2", and "1".
#The larger the number, the higher the level.
#After transforming, all the variables can be used for heat map as numeric.


#ExterQual: Evaluates the quality of the material on the exterior

        #Ex-Excellent
        #Gd-Good
        #TA-Average/Typical
        #Fa-Fair
        #Po-Poor


#ExterCond: Evaluates the present condition of the material on the exterior

        #Ex-Excellent
        #Gd-Good
        #TA-Average/Typical
        #Fa-Fair
        #Po-Poor

#BsmtQual: Evaluates the height of the basement

        #Ex-Excellent (100+ inches)
        #Gd-Good (90-99 inches)
        #TA-Typical (80-89 inches)
        #Fa-Fair (70-79 inches)
        #Po-Poor (<70 inches
        #NA-No Basement
#BsmtCond: Evaluates the general condition of the basement

        #Ex       Excellent
        #Gd       Good
        #TA       Typical - slight dampness allowed
        #Fa       Fair - dampness or some cracking or settling
        #Po       Poor - Severe cracking, settling, or wetness
        #NA       No Basement

#HeatingQC: Heating quality and condition

        #Ex       Excellent
        #Gd       Good
        #TA       Average/Typical
        #Fa       Fair
        #Po       Poor
#CentralAir: Central air conditioning

        #N        No
        #Y        Yes
```

#KitchenQual: Kitchen quality

       #Ex   Excellent
       #Gd   Good
       #TA   Typical/Average
       #Fa   Fair
       #Po   Poor

#FireplaceQu: Fireplace quality

       #Ex   Excellent - Exceptional Masonry Fireplace
       #Gd   Good - Masonry Fireplace in main level
       #TA   Average - Prefabricated Fireplace in main living area or Masonry
Fireplace in basement
       #Fa   Fair - Prefabricated Fireplace in basement
       #Po   Poor - Ben Franklin Stove
       #NA   No Fireplace

#GarageQual: Garage quality

       #Ex   Excellent
       #Gd   Good
       #TA   Typical/Average
       #Fa   Fair
       #Po   Poor
       #NA   No Garage

#GarageCond: Garage condition

       #Ex   Excellent
       #Gd   Good
       #TA   Typical/Average
       #Fa   Fair
       #Po   Poor
       #NA   No Garage
#PoolQC: Pool quality

       #Ex   Excellent
       #Gd   Good
       #TA   Average/Typical
       #Fa   Fair
       #NA   No Pool

#Fence: Fence quality

       #GdPrv   Good Privacy
       #MnPrv   Minimum Privacy
       #GdWo   Good Wood
       #MnWw   Minimum Wood/Wire
       #NA   No Fence