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criteria:
RSE
adj r2
TSS & RSS
Rgression Ridge
Lasso
Cross validation then compare it to original LR
Covariance matrix
Plan:
Plot:
Debut on a fait un plot pour savoir comment les données varient en fonction de Time
D'apres la description des donnes on sait qu il va y avoir des correlations (interactions ?) entre facteur
Split Data:
RL:
   pour avoir une 1ere idée :
   on ne se fie pas du p value (cf names part 1)
   cook distance + leverage score ==> no problem in the data
   mean squared is HUGE
   QQplot ==> non linearity = heterosedacticity
R2: 20% data sont expliques par LR -> PAS OUF!
KNN:
we also tried Knn but the mean squared is not any better
Subset selection:
   since we only have 32 variables we can afford having an exhaustive method
   best_bic:
      mean squared
   best R2:
      best r2 = 0.29
but we still have same problem in QQ plot
Ridge model:
Lasso:
try to find something (alpha between 0 and 1) that works better
Principle component regression
   since we are sure there are interactions
   we find 4 components (we dont know which)
  for now it gives us the best mean squared error = 960
```