Gauss Markov Assumptions

1. The model is linear in the parameters and correctly specified.
   1. The model could be classified as linear because if run is the dependent variable, then there are some independent variables that can be said to be correlated to the change in run.
2. The values of the regressor/independent variable (X) is drawn randomly from a fixed population.
   1. The values are not randomly drawn because we are using every data point from the sample given
3. There is some variation in the independent variable in the sample.
   1. There is some variation in the independent variable in the sample because the value can either be pass or run
4. The disturbance/error term has zero expectation. (E[*ui*]=0)
   1. There is no expectation in the error term
5. The error term is homoscedastic. (E[*ui*2]=*σu*2)
   1. The error term is homoscedastic
6. The values of the error term have independent distributions. [cov(*ui,uj)* =0]
   1. The values of the error term are independent of each other for each different play
7. The error term is distributed independently of the independent variable. [cov(X,u)=0]
8. The error term has a normal distribution.