

Q3: Important Variables

We can determine by looking at the p values of the predictors. Lower p value means the better the predictor. If p value is less than 0.05 we reject the fact that there is no linear relationship between the predictor and response variable. So the p value of the predictors which are less than 0.05 can be considered important. According to that, QI(p value: 2.03×10^{-6}) is the most important predictor. The other important predictors are fiber(0.02), gender(p value: 0.04), smoke(p value: 0.03) and vitamin(p value: 0.05).