Biostatistics - Homework 0

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- 1. Test whether there is a significant difference in IQ between the "high" and "low" lead level groups.
- a. Let μ_{high} and μ_{low} be the average IQ score for all childern with high and low lead exposure respectively. $H_0: \mu_{high} = \mu_{low}$ vs. $H_A: \mu_{high} \neq \mu_{low}$
- b. I performed a two-sample independent t-test with pooled variance.
- c. Test statistic: -1.71
- d. p-value: 0.0925
- e. Conclusion in context: Since our p-value is > 0.05, we fail to reject H_0 . In context, this means that we do not have evidence of a significant difference between the mean IQ scores for children with a high or low lead exposure.
- 2. SAS code: