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Data Science 350

Homework 4

We want to know if all states represented equally when it comes to the farm subsidies.

* H0: All 50 states are equally represented in our sample by subsidies given.
* HA: There exists at least one difference in how the states are represented.

The P-value for the above tests (*p* < 0.0000000000000002) suggests that null hypotheses should be rejected, signifying that states are not represented equally when it comes to the distribution of the farm subsidies.

***Test of weighted (by state/farms) representation:***

For this state we want to know if the states weighted by the number of farms per stated are represented correspondingly when it comes to the farm subsidies.

* H0: All 50 states are weighted equally by state/farm number in the sample of subsidies given.
* HA: There exists at least one difference in how weighted states represented.

The P-value for the weighted representation test/farms suggests that null hypotheses should be rejected due to P-value being negligibly small (*p* < 0.0000000000000002).