STAT371-L3 Final Review

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https://dzwang91.github.io/stat371/

- Around 5 big problems in total, 120 points.
    - true or false problems
    - multiple choice problems
    - other standard calculation problems
- You are allowed to take **THREE** sheets of two-side note and calculator. Statistical tables will be provided.
- Materials not covered by midterm 1 and midterm 2 will also **NOT** be covered in final exam.

Circle TRUE or FALSE:

- A p-value greater than significance level α calls for rejecting the null hypothesis. **TRUE**, **FALSE**

Circle TRUE or FALSE:

- A p-value greater than significance level α calls for rejecting the null hypothesis. **TRUE**, **FALSE**
- Standard error is the standard deviation of an estimator.
  TRUE, **FALSE**

Circle the best answer:

A drug company developed a new drug that they claimed, 'statistically significantly lowered blood pressure relative to placebo'. After the drug was on the market for several years, the drug company was sued because the drug was found not to lower blood pressure after all. Assuming they choose an appropriate test for their idea, and performed the test correctly, what kind of statistical error did the drug company make?

(A) Type I

(B) Type II

We will test the following topics:

- Two independent sample tests
- Two paired sample tests
- ANOVA