

# Problem Set 6

STAT-S 520

Due on February 20th, 2023

## Instructions:

- Submit your answers in Canvas.
- Your answers can be typed and/or handwritten as long as your final submission is a single PDF file with answers in proper order.
- You are allowed to collaborate with your classmates as long as you write your own solutions.

## Questions:

1. ISI Section 6.4 Exercise 3
2. ISI Section 6.4 Exercise 7
3. ISI Section 7.7 Exercise 1, but use instead a random sample of size 50 extracted from the daily `births` from data frame `US_births_2000_2014` in package `fivethirtyeight` (use `set.seed(520)` before obtaining your sample).
4. ISI Section 7.7 Exercise 3
5. ISI Section 7.7 Exercise 4, but use instead a random sample of size 35 extracted from variable `total` from data frame `unisex_names` in package `fivethirtyeight` (use `set.seed(100)` before obtaining your sample).

Hint: the file `S520_021623_lab_plugin.R` (or his .pdf version) will be useful to answer questions 3 - 5.

## Reading assignments

- ISI Chapter 8, Sections 8.1 and 8.3 (8.2 is optional)