

STAT S4201 001, Homework 1

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Problem 1: Ramsey 1.17

See `hw01.R` for code.

The observed difference between sample averages is 15.333, which, based on the 35 differences in the randomization distribution, corresponds to a two-sided p-value of 0.0867.

Problem 2: Ramsey 1.21

problem
2 (1.21)

- (a) A Trial of Wound Irrigation in the Initial Management of Open Fracture Wounds
 - i. Link: <http://www.nejm.org/doi/full/10.1056/NEJMoa1508502>
 - ii. Study design and conclusions:
asdfasdf
 - iii. Categorize the study according to Display 1.5.
asdfasdf
 - iv. Determine whether inferential statements are limited to or go beyond the scope allowed in Display 1.5.
asdfasdf
- (b) A Randomized, Controlled Trial of an Aerosolized Vaccine against Measles
 - i. Link: <http://www.nejm.org/doi/full/10.1056/NEJMoa1407417>
 - ii. Study design and conclusions:
asdfasdf
 - iii. Categorize the study according to Display 1.5.
asdfasdf
 - iv. Determine whether inferential statements are limited to or go beyond the scope allowed in Display 1.5.
asdfasdf

Problem 3: question name

- (a) asdf asdf asdf

```
> apply(rawData, 2, mean)
      x1      x2      x3      x4      x5
6.049104 -8.277221  4.665532  7.914270 62.138753
```

- (b) asdfasdfasdf

i. asdf asdf asdf asdf

```
> apply(rawData, 1, mean)
[1] -0.1277116 20.8162864 -8.8984358 25.5999204 -9.7472153
[6] 64.0626702 22.0392371 23.3914888 31.7598224 -13.8680290
...
[91] 1.2105932 21.2145724 -8.4896595 19.0639963 20.9767512
[96] 3.5962333 22.3461063 0.7145014 6.3080005 64.8829556
```

Problem 4: question name 2

- (a) Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetur.

Todo list

problem 2 (1.21) 1