

FOR 128: Midterm II

Insert Your Name Here

Welcome

Welcome to the second midterm! This is a closed resources exam. This means course materials, past labs/quizzes, internet or AI tools, etc. are not allowed. However, you are allowed one 8.5" x 11" sheet of paper with handwritten notes (double sided) and you are allowed to use RStudio's help menu / look up documentation of functions with `?function_name`.

Please read the exam instructions below.

Good luck!

Instructions

The exam has 5 questions, each equally weighted at 25 points, however only your top 4 questions will be counted to your final score. You can choose to not do one problem entirely, or do all 5 and I will count your top 4. Therefore, the exam is scored out of 100 points.

For Question 3, make sure to download "islands_long.csv" from the same place you downloaded the Quarto document for the exam.

Deliverables (i.e., what to put in the midterm drop box)

Upload your rendered PDF (`midterm_02.pdf`) **and** Quarto (`midterm_02.qmd`) document to the exam drop box. Make sure the Quarto document properly renders to PDF, but partial credit will be given even if you cannot render the PDF (-5 points for no rendered PDF).

Question 0

Load any packages you'll need for this midterm below.

```
library(tidyverse)
```

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr      1.1.4      v readr      2.1.5
v forcats    1.0.0      v stringr    1.5.1
v ggplot2    3.5.1      v tibble     3.2.1
v lubridate  1.9.3      v tidyr      1.3.1
v purrr      1.0.2
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()     masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become
```

```
library(pdxTrees)
```

Question 1

- (a)
- (b)
- (c)
- (d)
- (e)
- (f)

Question 2

- (a)

```
streets <- get_pdxTrees_streets()
```

- (b)
- (c)
- (d)

Question 3

- (a)
- (b)
- (c)

Question 4

For this exercise, we will use data from the `pdxTrees` R package.

```
wrc <- get_pdxTrees_parks() %>%  
  filter(Common_Name == "Western Redcedar")
```

- (a)
- (b)
- (c)

Question 5

For this exercise, we will use data from the `pdxTrees` R package.

```
parks <- get_pdxTrees_parks()
```

- (a)
- (b)
- (c)

Wrap up

Congratulations! You've made it to the end of the midterm. Make sure to render your final document and submit both the .pdf and .qmd file to D2L.