Practice3

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Due by midnight, Friday, March 4

Reminder: Practice assignments may be completed working with other individuals.

Reading

The associated reading for the week is Sections 6.4, 8.5-8.7, and 8.9-8.10.

Practicing Academic Integrity

If you worked with others or used resources outside of provided course material (anything besides our textbook, course materials in the repo, labs, R help menu) to complete this assignment, please acknowledge them below using a bulleted list.

I acknowledge the following individuals with whom I worked on this assignment:

Name(s) and corresponding problem(s)

I used the following sources to help complete this assignment:

Source(s) and corresponding problem(s)

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1 - Scraping Tables

The text example showed how to scrape tables from a Wikipedia page. We also saw how to scrape a table from basketball-reference.com in our lecture notes. For this exercise, your task is to:

- scrape a table of your choosing from a different website (yes, it can be a different Wikipedia page),
- clean it up (i.e. understandable variable names, etc. in a display), and
- display a few rows of it in a nice table.

You must be sure that scraping the table is allowed. Your code should show appropriate documentation of your steps.

Solution:

```
url <- "https://en.wikipedia.org/wiki/List_of_highest_scores_in_figure_skating#Men"
#Checking if I can scrape
paths_allowed(url)</pre>
```

```
## en.wikipedia.org
```

[1] TRUE

Table 1: Top 3 Best Total Scores in Men's Ice Skating

Rank	Name	Nation	Score	Event
1	Nathan Chen	United States	335.30	2019–20 Grand Prix Final
2	Yuzuru Hanyu	Japan	322.59	2019 Skate Canada
3	Yuma Kagiyama	Japan	310.05	2022 Winter Olympics

2 - MDSR 8.6

Complete MDSR 8.6, which states: "A Slate article (http://tinyurl.com/slate-ethics) discussed whether race/ethnicity should be included in a predictive model for how long a homeless family would stay in homeless services. Discuss the ethical considerations involved in whether race/ethnicity should be included as a predictor in the model."

Solution:

3 - Scraping Text with Weather Data

We want to get a tiny bit of practice with the web developer tools demo-ed in class for scraping in this exercise.

Go to the National Weather Service website and get a forecast page for a city of your choice (maybe your hometown, or Amherst, or a place you want to visit in the States, etc.).

part a - Save the url of the page as weatherurl. Then, check that you are allowed to access the page for scraping.

Solution:

In class, we accessed the table of current conditions and the extended forecast temperatures for the Amherst page via text. Above but near the table of current conditions is information about the local site the conditions are taken from. This includes the latitude, longitude, and elevation of the site.

part b - Adjust the commands demonstrated in class (used to get the extended forecast temperature information) to get these 3 pieces of information off your chosen page. Print the information to the screen from the website.