Cynnovative Internship

Computer Science / Software Engineering Track

Undergraduate Exercise

For any of the following exercises, you can use the programming language of your choice and any libraries that might help you reach a solution.

Answers must be a source code directory, including the Dockerfile that builds the Docker image (when a Docker image is requested). We will run each Docker-related code with the following two commands:

```
$ docker build -t cynnovative/internship-exercise:latest .
$ docker run -it cynnovative/internship-exercise:latest /relevant/input/path
```

- Write a program that finds all the palindromes in an arbitrary input string
    - Palindromes can be of size 1

- Build a functional Docker image that scrapes a website and operates over the data
    - URL: https://armettasrestaurant.com/armettas-menu
    - Must answer this question: If I ordered one of every appetizer and dessert from Armetta's, what would my total be?

- Build a functional Docker image that processes haveibeenpwned.com (https://haveibeenpwned.com/api/v2/) and answers the following questions:
    - Must answer this question: What is the total number of unique accounts breached ("PwnCount") according to their data?
    - Bonus: Which data breaches have been fabricated?
    - You can use https://www.troyhunt.com/introducing-fabricated-data-breaches-to-have-i-been-pwned/ for help