Program Design Document

Project Title and Due Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A screenshot of a cell phone

Description automatically generated

*Answer these questions for the current upcoming project. In order to get credit for the programming part of the project, you need to complete this document beforehand. This design document is worth 20 points.*

1. What data do you need to represent for this problem? Illustrate your answer with a few concrete examples for this program.

2. Describe in your own words what problem your program is supposed to solve. If your program takes command line parameters, give the program signature. For any functions that you write for your program, describe what they compute and their signatures.

3. Show how your program will work and what your will produce given some example inputs. Do the same for any functions you write.

4. Write a high-level pseudocode outline of your program based on steps 1 and 2. You do not need to fill in all the details at this point.

5. Turn the examples you used in your answers above into assertions that could be used to test your program.