Exercise 13 – Telephone Numbering Plan

Difficulty Level: 2 out of 5

Write a program where the user will enter a 10-digit telephone number. Then, the system will tell the user what location the telephone number is from.

When testing the program, there will be a file containing something like the text below except that it will have a lot more area codes:

301 Maryland

202 Washington, D.C.

301816 Bethesda, MD

718423 Queens, NY

718 New York

3018 Montgomery County, MD

The blank spaces between the area code and the location are the number of numbers not specified. For example, for the 1st line, there are 7 spaces between 301 and Maryland. For the 3rd line, there are 4 spaces between 301816 and Bethesda, MD. This way, everything will line up nicely and you know what to expect.

If the user inputs: 3018162839

Then, you will output: Bethesda, MD

Note: It will not output Maryland because you want your program to be as precise with the location as possible.

But if they input: 3018150382

Then, you will output: Montgomery County, MD

If there is no match, then tell the user that there is no match.

Your program will have to be able to read a .txt file that will be given to you and output the location.