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CS 206
Professor Cooper
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Assignment III

TITLE: Searching US Postal Zip Code Locations

Short Description:

This program reads the file from "Xinyue_A3.txt" using java.util.Scanner, parse the data and

save the zipcode, town and states into an array of Place objects. Then it asks user for a given

zipcode, check its validity, then search it inside the Place[] array and returns the location to the

user as well as printing out all the interactions in the Console Output. In addition, this program

compares the time used by linear search and binary search and print them out in the console.

More Detailed Description:

       I started Assignment 3 before the third lab was handed, so I already had a runnable

program by then. Originally, I coded the readData and search part all inside the main method in

my main class, which made the code quite messy. After doing this lab, I separate readData and

search out into two functions, so I just need to call them in the main method. This lab reminds

me of the importance of functions while designing how to program.

       Overall, I don't have a lot of trouble with the main project and I found this project a very

good exercise to the Object Oriented Programming. However, I do find the extra credit part a

little challenging, mainly because I was quite confused by the instruction at first. Later on, when

professor updated the new version, I searched a lot of examples among java documentation

and stackOverflow and finally figured everything out.