Testing document for Assignment 2

Please extensively test your assignment.  When it is complete, put it in a script named hw2.USERID.py.  Write a document (acceptable formats include pdf and text files) explaining how you tested your program (what test cases and strategies did you use) as hw2-test.USERID.txt or hw2-test.USERID.pdf.

The relationship between the number of comparisons and the length of the list for the binary search algorithm was found to be \_\_\_.

This relationship for recursive binary search was found to be \_\_\_.

Passwords tested:

“ ” – Space

(Enter)

(up arrow)

(up arrow)(space)

(space)(Enter)

Hello

Password

password

He45$gh

Password1

1234567

I based my test inputs on the requirements of the program,

Space is not to be considered – if password contains space – prompt the user

If just Enter is typed – prompt the user

File is to be assumed to be always present

For the 4 conditions – different combinations of passwords were used to test if all conditions would work separately as well as together

A list of inputs from the common.txt was also tested and list of passwords which were not present in the file was also tested.

Binary search method was separately tested using hard coded inputs, to test the accuracy and efficiency of the method.

The above testing was also done for the recursive binary search method. I also manually tested the program flow by hand for a few inputs to check if the counter for number of comparisons is correct.