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Info 206 – Distributed Computing
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HW 2 – Test

I tested the program by inputting the following test "passwords":

Testcase 1:
Testing the function of examining password containing upper and lowercase.
Test Words:
"zzzzzzzz" (in list)
"AAAAA" (in list)
 "Hey" (not in list)

Testcase 2: Testing the function of examining password containing at least 6 chars
Test Words:
"123" (not in list)
"0123456" (in list)
"123456789" (in list)

Testcase 3: Testing the function of examining password containing at least one digit
Test Words:
"0Aa" (not in list)
"0.0.0.000" (in list)
"Bond007" (in list)
"8*8%" (not in list)

Testcase 4: Testing the function of examining password having at least one character that is not a letter or a digit
Test Words:
"9=)" (not in list)
"Hello." (not in list)
"&amp" (in list)
"" (not in list)

The relationship between total comparisons and the size of the list is a maximum of approximately log base 2 of the length of the list (in this case 10,000). This is also the number of times the list is divided by 2 before the function finds the password or reaches the last element of the list and without finding the password.