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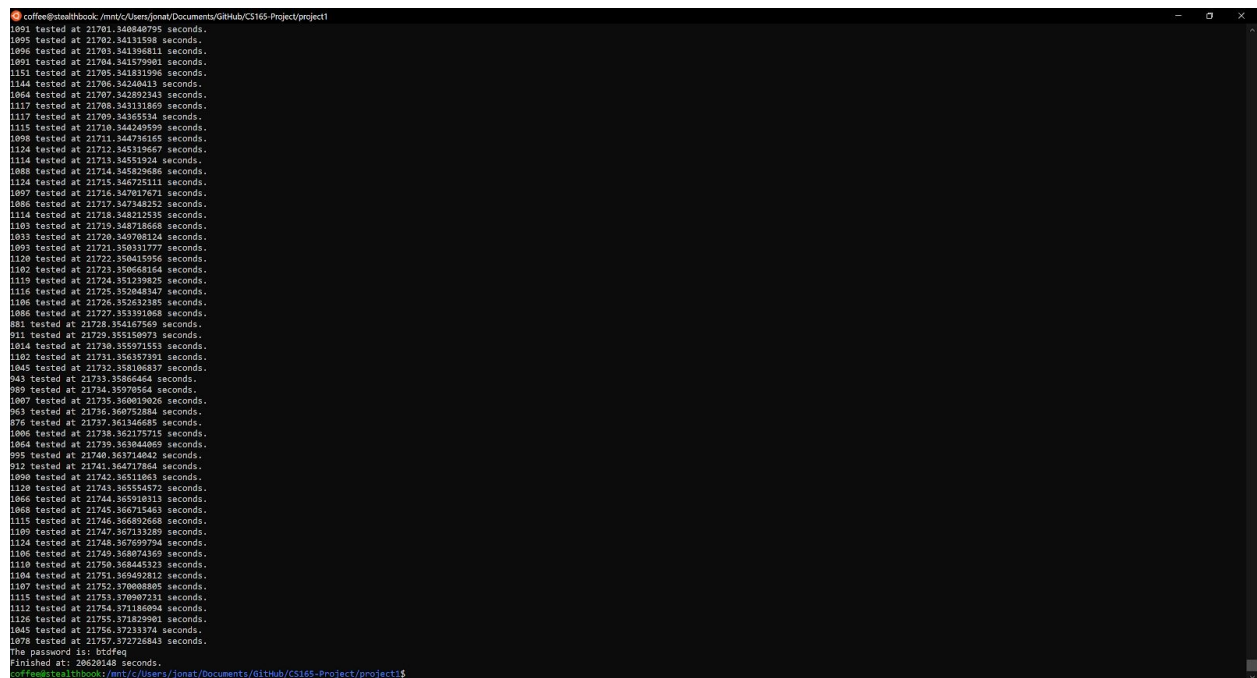
Lab 1 Report

For our program, we did not optimize it to utilize multiple threads, so it was a single threaded program. The average throughput of the password cracking was roughly 1050 passwords a second.

The cpu used for the cracking is listed below:

CPU: Intel(R) Core(TM) i7-8550U CPU @ 1.80GHz 2.00 GHz

The cracked password is: btdfeq



```
coffee@stealthbook: /mnt/c/Users/jonat/Documents/GitHub/CS165-Project/project1
1091 tested at 21701.348848795 seconds.
1095 tested at 21702.34111558 seconds.
1096 tested at 21703.341196811 seconds.
1091 tested at 21704.341179981 seconds.
1131 tested at 21706.341131196 seconds.
1144 tested at 21706.34240413 seconds.
1064 tested at 21707.342892343 seconds.
1117 tested at 21708.343131869 seconds.
1117 tested at 21709.34365534 seconds.
1115 tested at 21710.344249599 seconds.
1098 tested at 21711.344736165 seconds.
1124 tested at 21712.345119467 seconds.
1114 tested at 21713.34551924 seconds.
1088 tested at 21714.345829486 seconds.
1124 tested at 21715.346272511 seconds.
1097 tested at 21716.347017671 seconds.
1086 tested at 21717.347348252 seconds.
1114 tested at 21718.348122435 seconds.
1103 tested at 21719.348718668 seconds.
1033 tested at 21720.349708124 seconds.
1093 tested at 21721.350311777 seconds.
1120 tested at 21722.350415956 seconds.
1102 tested at 21723.350668164 seconds.
1119 tested at 21724.351239825 seconds.
1116 tested at 21725.352048347 seconds.
1106 tested at 21726.352632385 seconds.
1086 tested at 21727.353391868 seconds.
881 tested at 21728.354167509 seconds.
911 tested at 21729.355150973 seconds.
1044 tested at 21730.355971553 seconds.
1102 tested at 21731.356357391 seconds.
1045 tested at 21732.358106837 seconds.
943 tested at 21733.35866444 seconds.
909 tested at 21734.35979564 seconds.
1007 tested at 21735.360019026 seconds.
903 tested at 21736.360972884 seconds.
975 tested at 21737.361346685 seconds.
1006 tested at 21738.362175715 seconds.
1064 tested at 21739.363044069 seconds.
901 tested at 21740.363714042 seconds.
912 tested at 21741.364717884 seconds.
1090 tested at 21742.36511863 seconds.
1130 tested at 21743.365554972 seconds.
1086 tested at 21744.365910313 seconds.
1068 tested at 21745.366715463 seconds.
1115 tested at 21746.366892658 seconds.
1109 tested at 21747.367333289 seconds.
1124 tested at 21748.367699794 seconds.
1106 tested at 21749.368074569 seconds.
1110 tested at 21750.368444523 seconds.
1104 tested at 21751.368492812 seconds.
1107 tested at 21752.370080895 seconds.
1115 tested at 21753.370007231 seconds.
1112 tested at 21754.371186094 seconds.
1126 tested at 21755.371829901 seconds.
1045 tested at 21756.372123374 seconds.
1078 tested at 21757.372726843 seconds.
The password is: btdfeq
Finished at: 20620148 seconds.
coffee@stealthbook: /mnt/c/Users/jonat/Documents/GitHub/CS165-Project/project1$
```

Here is a screenshot of the program in action. The last statement says statements, but that is the number of passwords hashed before reaching the match, so 20620148 generated passwords to find the match.