

THE LAST HANDOUT

Qcamp 2019, Experimental Session

20/06/2019

1 Introduction

The key is only 32-bit. You can crypt-analyse it and decode the message.

Warning: This is an extremely hard assignment. This will consume a lot of mana. Ensure you have adequate potion supply. If you think you have wasted too much time on this, probably you should pick an easier task and probably, climb Mount Everest instead.

1.1 How to play

There are 5 encrypted text in this assignment, increasing in the level of difficulty. There is a hint for the key and some description of the messages for each section. The encrypted text is also stored in the repository folder “4_HackTools/Last_Handout”.

You can do whatever you want. Good luck!

1.2 Useful stuffs

You might or might not necessarily find these stuffs useful:

1. Python programming language. <https://www.python.org/>
2. C++ programming language, for more speed. <http://www.cplusplus.com/>
3. Multiprocessing. <https://en.wikipedia.org/wiki/Multiprocessing>
4. Cloud computing (i.e. google cloud). <https://cloud.google.com/free/>

2 Assignment

Encrypted Text 1 [2 pts] The key is in the form of “0000????” (in HEX).

The message contains only text and spaces.

ad40316558d6cb9a33f50d99e242364142f2948f0ce30bd712fb87c6526ad8

Encrypted Text 2 [2 pts] The key is in the form of “0000????” (in HEX).

The message contains text, spaces, numbers, and symbols.

295ad8245c8d1f868f87a4f01ec6e04c874d213216d8206bbf366e2785643db84c77277b
98183d97774c917d15c05146030679aff082b3299f289792583abde6c7a83333508de0c5

Encrypted Text 3 [2 pts] The key is in the form of “????????” (in HEX).

The message contains only text, spaces, and starts with “Good Morning”.

af6ba14204673f8e542cb3a4ab007354b204398225d4abcf9e22
03408bc2161c0494889639dc697ccdbe6219be8e3d96189c50f9
96cd1364b8dea3e86869e34206edbb41ad6d82cbd63c068860

Encrypted Text 4 [2 pts] The key is in the form of “00?????” (in HEX).

The message contains text, spaces, and symbols.

55db4e9d213da23598ff15119c131c233e57afd3958144f9981933f1
0a4d4cbb0bb2fc857a935e119fcf7db77c9530c27a0e44c13070c8d4

Encrypted Text 5 [2 pts] The key is in the form of “????????” (in HEX).

The message contains text, spaces, numbers, and symbols.

5882371d0f6ad253d8bd28760fdf3c327ff7b7c6eff12b28cbf579
87222857932958db84a4b7118dbd5c08e86c98a19d5144f1b0d9bf