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<https://longbeachlemons.slack.com/files/csirk/F5MCGJNAJ/assignment3.txt>

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1 Assignment 3: Modified Binary Encryption and Decryption Programs
2
3 CSirk needs a secure way to send information to his business stakeholders. He is asking you to
  provide him with a way to do so. CSirk feels that the best way to accomplish this is to have
  one encryption program and one decryption program.
4
5 Notes:
6 - Using the modified binary pattern below (6 digit binary string) create an encryption pattern
7   - Regular binary is 0000 which allows a max sum of 15 (8 + 4 + 2 + 1)
8   - You are to use a longer binary string (000000) with a max sum of 63 as shown below
9
10    000000
11    32 + 16 + 8 + 4 + 2 + 1 = 63
12
13 - With the following characters (at minimum) allowed:
14
15    a-z : 26
16    0-9 : 10
17    .!@#$$%^&*()_+==/\<>,?:; ' ' <--- note space is represented by ' ' : 24
18
19    - 26 + 24 + 10 = 60 of the 63 possibilities
20
21 - Create two programs of your format choice:
22   1. Encryption program
23   2. Decryption program
24     - note that these are in face TWO seperate programs. One generates input and the other
  reads from said input and decrypts the encoded text to its correct values
25
26 - The data generated from the encryption program should be saved in an unrecognized format to
  Windows OS, EX: not .txt, .jpg, .xls, etc. an example format would be .csirk (but this is too
  obvious for the purposes of this task. Make up a good format name.)
27
28 - The decryption program should read in said file in the new format (EX: .csirk (but
  not .csirk)) without converting it to a windows known format.
29
30 - Give CSirk an invoice for your services and an agreement or declination of future projects.
31
32
33 BONUS POINTS:
34 CSirk is willing to offer you a hefty bonus for each of the following things accomplished:
35 1. Multiple encryption schemes are available, which are dynamically selected based on unknown
  criteria to the user
36
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- note this means that the user does not select which scheme to use, and the decryption program is able to successfully decrypt in either format dynamically without any additional user input

37

38 2. The text disappears after a set time period as you type into the encryption program.

39 - This means that if you stop typing for X seconds, the text is hidden and upon typing again all text is shown.