**CSC150 Program #3** Name: Brandon Amundson

**Run Time Output: \_\_\_\_35\_\_\_\_ ( 55 Points )**

Test case 1:   
***prog3.exe -e test1\_plain.txt test1\_key.txt result1.txt*** \_\_\_\_15\_\_\_\_ ( 15 )

(Test encryption using the given plain text Compare result1.txt with the given

test1\_cipher\_result.txt. The result may be different due to randomization)

Test case 2:

***prog3.exe -d result1.txt test1\_key.txt result2.txt*** \_\_\_\_5\_\_\_ ( 15 ) -incorrect

(Test decryption using the result of test case 1.Compare result2.txt with

the given test1\_plain\_result.txt. The result should be same)

Test case 3:

***prog3.exe -d test2\_cipher.txt test2\_key.txt result3.txt*** \_\_\_\_\_0\_\_\_ ( 15 ) - crashes

(Test decryption using the given cipher text. Compare result3.txt with

the given test2\_plain\_result.txt. The result should be same)

Test case 4:

***prog3.exe -e test3\_plain.txt test3\_key.txt test3\_cipher.txt*** \_0\_ ( 5 ) – doesn’t print error

***The key file doesn't have all 27 encryptable characters.***

(Test the error handling for incomplete charset.

The error message should be printed to console)

Test case 5:

***prog3.exe -e test4\_plain.txt test4\_key.txt test4\_cipher.txt*** \_\_\_\_\_5\_\_\_ ( 5 )

***Can't open the input file.***

(Test the error handling for missing input file.

The error message should be printed to console)

**Program Specifications Met: \_\_\_45\_\_\_ ( 45 + 5 Points )**

|  |  |
| --- | --- |
| Command Line | \_\_\_\_5\_\_\_\_(5) |
| Four arguments & valid mode | \_\_\_\_0\_\_\_\_(5) |
| File open and close | \_\_\_\_5\_\_\_\_(5) |
| Exits | \_\_\_\_5\_\_\_\_(5) |
| void readText | \_\_\_\_5\_\_\_\_(5) |
| void readNumber | \_\_\_\_5\_\_\_\_(5) |
| bool findLetter | \_\_\_\_5\_\_\_\_(5) |
| void encrypt | \_\_\_\_5\_\_\_\_(5) |
| void decrypt | \_\_\_\_5\_\_\_\_(5) |
| Extra Points: Randomization | \_\_\_\_5\_\_\_\_(+5) |

**Coding Standards:**

\_\_\_\_\_\_\_21\_\_\_\_\_ ( 25 ) Documentation (Doxygen scoresheet \* .25)

**Total:** **\_\_\_\_101\_\_\_\_ ( 125 Points)**

**\_\_\_\_81\_\_\_\_%**

Documentation grade: (Points are all or nothing unless otherwise stated)

Program Header

Main Page \_\_\_5\_\_ (5)

Course Information

Author \_\_\_5\_\_ (5)

Date Due \_\_\_5\_\_ (5)

Professor \_\_\_5\_\_ (5)

Course \_\_\_5\_\_ (5)

Location \_\_\_5\_\_ (5)

Program Information (0, 5, 10 will be assigned)

Details \_\_\_0\_\_ (10)

Compiling

Compile & usage \_\_\_10\_\_ (10)

Todo, Bugs, and Modifications

Bugs

Todo

Timeline \_\_\_10\_\_ (10)

**Total \_\_50\_\_\_ (60)**

Function Header (all functions must have the following, if one function is missing, no points will be assigned.

Author \_\_\_5\_\_ (5)

Description \_\_\_5\_\_ (5)

Params (when needed) \_\_\_5\_\_ (5)

Returns (when needed) \_\_\_5\_\_ (5)

**Total \_\_20\_\_\_ (20)**

Others

Meaningful variable names \_\_5\_\_\_ (5)

Whitespace around functions,

blocks of code and operators \_\_5\_\_\_ (5)

Global constants document

(if they have a variable do not give credit) \_\_5\_\_\_ (5)

Comments, must be adequate to cover the algorithm

\_\_0\_\_\_ (5)

**Total \_\_15\_\_ (20)**

Other items not mentioned above \_\_\_\_\_ ( )

Files named correctly ( -5 )

**Documentation Total \_\_\_85\_\_ ( 100 )**

