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CMSC-203 - Assignment 3 - Encryption

**Pseudo Code**

-String str1

-String str2

-String str3

-String str4

-String bellasoStr

-String str5

-String str6

-boolean good

-boolean bad

-char LOWER\_BOUND

-char UPPER\_BOUND

-int RANGE

CryptoManager

CryptoManagerTest

+stringInBounds(String): boolean

+encryptCaesar(String, int): String

+encryptBellaso(String, String): String

+decryptCaesar(String, int): String

+decryptBellaso(String, String): String

Declare the seven Strings including “bellasoStr”

Declare the two Boolean outcomes

Print (str1 + good)

Print (str2 + bad)

* Bad = stringInBounds(str3)

Print (str3 + bad)

Print (str4 + encryptCaesar(str4, 3))

Print (str4 + encryptBellaso (str4, bellasoStr))

Print (str5 + decryptCaesar(str5, 3))

Print (str6 + decryptBellaso (str6, bellasoStr))

**Test Table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Input Text | Input Key | Encrypted (Method 1) | Encrypted (Method 2) | Decrypted (Method 1) | Decrypted (Method 2) |
| ANIME IS LIFE | 69 | FSNRJ%NX%QNKJ | 7G?F;Y?LVE??; | ANIME IS LIFE | ANIME IS LIFE |
| PLAYSTATION5 | 94 | .\*\_712\_2'-,S | I@:MLH:HBCG) | PLAYSTATION5 | PLAYSTATION5 |
| DISNEY PLUS | 31 | #(2-$8?/+42 | 7:F?8JSA?FF | DISNEY PLUS | DISNEY PLUS |
| HALF-LIFE 3 CONFIRMED | 3 | KDOI0OLIH#6#FRQILUPHG | ;4?9 ?<98S&S6BA9<E@87 | HALF-LIFE 3 CONFIRMED | HALF-LIFE 3 CONFIRMED |