Text\_Encrypt’s Encryption scheme

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Encryption:

Example Password: 1@Ab Example Text: this is a text~

1. Each character in the password is converted into ASCII codes and chained together.

Password = 1@Ab

Converted into ASCII code

1 = 49 @ = 64 A = 65 b = 98

Converted Password = 49646598

2. Checks if the number of characters in Converted Password is greater than or equal to the number of characters in Text or not, if not, another set of Converted Password is added to the end of itself until the number of characters in it is greater than or equal to the number of characters in Text.

Converted Password = 49646598 (8 characters)

Text = this is a text (14 characters, counting spaces)

Converted Password is not long enough! (Less characters than Text)

Converted Password is added to the end of itself.

New Converted Password = 4964659849646598 (16 characters)

Converted Password is now long enough!

3. Text is converted into ASCII codes.

Text = this is a text~

t = 116 h = 104 i = 105 s = 115 space = 32

a = 97 e = 101 x = 120 ~ = 126

Converted Text = 116 104 105 115 32 105 115 32 97 32 116 101 120 116 126

4. Each ASCII code in Converted text is added by the number in the corresponding position of characters in the Converted Password, extra characters in Converted Password will be ignored.

Converted Text = 116 104 105 115 32 105 115 32 97 32 116 101 120 116 126

Converted Password = 4 9 6 4 6 5 9 8 4 9 6 4 6 5 9 8 <= 8 is a extra character

116+4 104+9 105+6 115+4 32+6 105+5 115+9 32+8 97+4 32+9 116+6 101+4 120+6 116+5 126+9

= 120 113 111 119 38 110 124 40 101 41 122 105 126 121 135

5. ASCII codes that are greater than 126 (code of last readable character) will be subtracted by 126 and added with 32 (code of the first readable character).

120 113 111 119 38 110 124 40 101 41 122 105 126 121 135

120 113 111 119 38 110 124 40 101 41 122 105 126 121 (135-126)+32

120 113 111 119 38 110 124 40 101 41 122 105 126 121 41

6. ASCII codes are converted back into characters.

120 113 111 119 38 110 124 40 101 41 122 105 126 121 41

120 = x 113 = q 111 = o 119 = w 38 = &

110 = n 124 = | 40 = ( 101 = e 41 = )

122 = z 105 = i 126 = ~ 121 = y

Original Text = this is a text~

Encrypted Text = xqow&n|(e)zi~y)