

BTE 514E Structured Programming

Homework 3

Due 29.11.2023 23:59

Submission through Ninova

Write a function “decodeText(…)” that decodes a secret message using a key text. The function will get 2 inputs:

- key : is a string that helps us to find letters
- code : is a list that gives us the positions of the letters in key

The function will return:

- a string which is the decoded text

Example Run:

```
key = "the quick brown fox jumps over the lazy dog"
code = [7, 12, 11, 11, 2, 7, 0]
decoded_text = decodeText(key,code)
print(decoded_text)
```

Explanation of the Example:

The diagram illustrates the decoding process. It shows the key string "the quick brown fox jumps over the lazy dog" and the code list [7, 12, 11, 11, 2, 7, 0]. Colored lines connect the code values to their corresponding characters in the key: 7 to 'h', 12 to 'e', 11 to 'r', 11 to 'r', 2 to 'o', 7 to 'e', and 0 to 'c'. These characters are then concatenated to form the decoded text "correct".

```
key = "the quick brown fox jumps over the lazy dog"
code = [7, 12, 11, 11, 2, 7, 0]
result = "correct"
```

Hints:

- Practice how to add a letter to the end of a string before.
- Remember how to access elements of a string
- Remember how to access elements of a list
- Remember string functions and find which one of them would be useful in this homework

5 additional codes are given with a txt file. Check if your function can also decode these. It is given in a txt file so you can copy them from there to your code.