

Prompt	Scratchpad	Our Solution(s)	Video Explanation	Run Code	Your Solutions	Run Code
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Solution 1Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     // O(n) time | O(n) space
5     func caesarCipherEncryptor(string: String, key: UInt32) -> String {
6         var newLetters = [Character]()
7         let newKey = key % 26
8
9         let alphabet = Array("abcdefghijklmnopqrstuvwxyz")
10
11         for letter in string {
12             newLetters.append(getNewLetter(letter, newKey, alphabet))
13         }
14
15         return String(newLetters)
16     }
17
18     func getNewLetter(_ letter: Character, _ key: UInt32, _ alphabet: [Character])
19         let newLetterCode = alphabet.firstIndex(of: letter)! + Int(key)
20
21         if newLetterCode <= 25 {
22             return alphabet[newLetterCode]
23         } else {
24             return alphabet[-1 + newLetterCode % 25]
25         }
26     }
27 }
28
```

Solution 1Solution 2Solution 3

```
1 class Program {
2     func caesarCipherEncryptor(string: String, key: UInt32) -> String {
3         // Write your code here.
4         return ""
5     }
6 }
7
```

**Run or submit code when you're ready.**