

Our Solution(s)

Run Code

Solution 1Solution 2

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 # O(n) time | O(n) space
4 def caesarCipherEncryptor(string, key):
5     newLetters = []
6     newKey = key % 26
7     alphabet = list("abcdefghijklmnopqrstuvwxyz")
8     for letter in string:
9         newLetters.append(getNewLetter(letter, newKey, alphabet))
10    return "".join(newLetters)
11
12
13 def getNewLetter(letter, key, alphabet):
14     newLetterCode = alphabet.index(letter) + key
15     return alphabet[newLetterCode] if newLetterCode <= 25 else al
16
```

Our Tests

```
1 def test_caesarCipherEncryptor():
2     # Test 1
3     string = "abc"
4     key = 3
5     result = caesarCipherEncryptor(string, key)
6     expected = "def"
7     assert result == expected
8
9     # Test 2
10    string = "xyz"
11    key = 4
12    result = caesarCipherEncryptor(string, key)
13    expected = "bcd"
14    assert result == expected
15
16    # Test 3
17    string = "zyx"
18    key = 1
19    result = caesarCipherEncryptor(string, key)
20    expected = "yza"
21    assert result == expected
22
```

Your Solutions

Run Code

Solution 1Solution 2Solution 3

```
1 def caesarCipherEncryptor(string, key):
2     # Write your code here.
3     pass
4
```

Custom OutputRaw OutputSubmit Code

Run or submit code when you're ready.