

PROBLEM 1: ENCRYPTION (5/5 points)

Once you have written `buildCoder` and `applyCoder`, you should be able to use them to encode strings.

Test Cases

```
>>> applyShift('This is a test.', 8)
'Bpqa qa i bmab.'
>>> applyShift('Bpqa qa i bmab.', 18)
'This is a test.'
```

```
1 def applyShift(text, shift):
2     """
3     Given a text, returns a new text Caesar shifted by the given shift
4     offset. Lower case letters should remain lower case, upper case
5     letters should remain upper case, and all other punctuation should
6     stay as it is.
7
8     text: string to apply the shift to
9     shift: amount to shift the text (0 <= int < 26)
10    returns: text after being shifted by specified amount.
11    """
12    ### TODO.
13    ### HINT: This is a wrapper function.
14    return applyCoder(text, buildCoder(shift))
```

Correct

Test results

Hide output

CORRECT

Test 1: `applyShift('Hello, world!', 8)`

Output:

`'Pmttw, ewztl!'`Test 2: `applyShift('The quiz is... hard!', 13)`

Output:

`'Gur dhvm vf... uneq!'`Test 3: `applyShift('12 jackdaws quizzed my sphinx!?', 0)`

Output:

```
'12 jackdaws quizzed my sphinx!?'
```

Test 4: `applyShift('zsupl', 4)`

Output:

```
'dwytp'
```

Test 5: `applyShift('jxcaubekdhiovy', 21)`

Output:

```
'esxvpwzfycdjqt'
```

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