edX

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Problem 2 - PlaintextMessage

Problem Set due Jul 23, 2020 20:30 -03

Problem 2 - PlaintextMessage

15/15 points (graded)
For this problem, the graders will use our implementation of the `Message` class, so don't worry if you did not get the previous parts correct.

`PlaintextMessage` is a subclass of `Message` and has methods to encode a string using a specified shift value. Our class will always create an encoded version of the message, and will have methods for changing the encoding.

Implement the methods in the class `PlaintextMessage` according to the specifications in ps6.py. The methods you should fill in are:

- `__init__(self, text, shift)` : Use the parent class constructor to make your code more concise.

- The getter method `get_shift(self)`

- The getter method `get_encrypting_dict(self)` : This should return a COPY of self.encrypting_dict to prevent someone from mutating the original dictionary.

- The getter method `get_message_text_encrypted(self)`

- `change_shift(self, shift)` : Think about what other methods you can use to make this easier. It shouldn't take more than a couple lines of code.

Paste your implementation of the entire `PlaintextMessage` class in the box below.

```
1 class PlaintextMessage(Message):
```
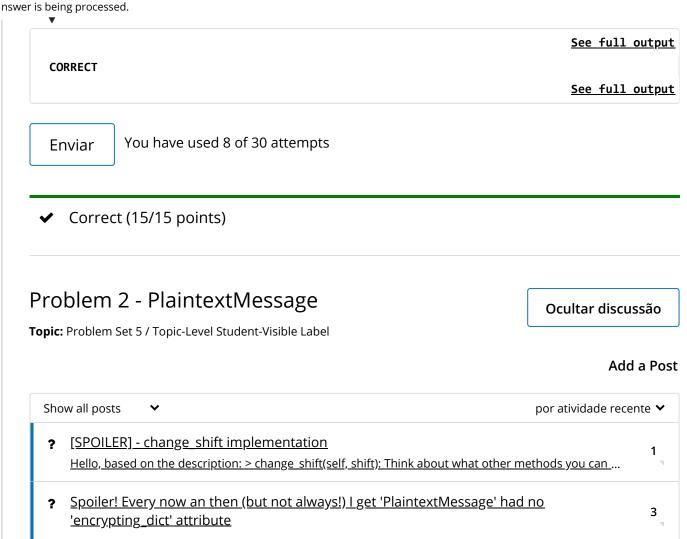
Couldn't get auth token: undefined

```
 4          Initializes a PlaintextMessage object
 5
 6          text (string): the message's text
 7          shift (integer): the shift associated with this message
 8
 9          A PlaintextMessage object inherits from Message and has five attributes:
10              self.message_text (string, determined by input text)
11              self.valid_words (list, determined using helper function load_words)
12              self.shift (integer, determined by input shift)
13              self.encrypting_dict (dictionary, built using shift)
14              self.message_text_encrypted (string, created using shift)
15
```

Press ESC then TAB or click outside of the code editor to exit

Correta

Test results

nswer is being processed.

▼

See full output
CORRECT
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| Enviar | You have used 8 of 30 attempts

✔   Correct (15/15 points)

Problem 2 - PlaintextMessage

Topic: Problem Set 5 / Topic-Level Student-Visible Label

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| **?** | [SPOILER] - change_shift implementation | 1 |
| | Hello, based on the description: > change_shift(self, shift): Think about what other methods you can ... | |

| **?** | Spoiler! Every now an then (but not always!) I get 'PlaintextMessage' had no 'encrypting_dict' attribute | 3 |

✏