## Object Oriented Caesar Cipher

Practice Quiz, 4 questions

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1.	
Which <b>Caesa</b>	of the following options is the best choice for adding an additional private field to the <b>rCipher</b> class to make it easier to call the <b>decrypt</b> method on a string that was encrypted an object of this class?
	The character variable that reads one character at a time from the input String parameter in the <b>encrypt</b> method.
	The String <b>input</b> which is a parameter to the <b>encrypt</b> method.
	The integer <b>key</b> which is a parameter to the constructor.
	The for loop variable in the for loop in the <b>encrypt</b> method.
String Assum	one of the following best describes the approach for the <b>decrypt</b> method that has one parameter <b>encrypted</b> ?  The <b>decrypt</b> can also access the <b>key</b> parameter that was used in the constructor, and that is stored in an instance variable named <b>mainKey</b> in the constructor.
	Two lines are needed:
	<pre>1  CaesarCipher cc = new CaesarCipher(mainKey); 2  return cc.encrypt(encrypted);</pre>
	Two lines are needed:
	<pre>1 CaesarCipher cc = new CaesarCipher(26); 2 return encrypt(cc.encrypted);</pre>
	Two lines are needed:
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1	<pre>CaesarCipher cc = new CaesarCipher(mainKey);</pre>
2	return encrypt(cc.encrypted);

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lines	are needed:
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	<pre>1  CaesarCipher cc = new CaesarCipher(26-mainKey); 2  return cc.encrypt(encrypted);</pre>	
$\bigcirc$	Two lines are needed:	
	<pre>1 CaesarCipher cc = new CaesarCipher(26-mainKey); 2 return encrypt(cc.encrypted);</pre>	
1 point	t	
3.		
Which	one of the following is the best idea for the method breakCaesarCipher?	
	Calculate the frequency of all the letters using <b>countLetters</b> and compute the index of the largest frequency using <b>maxIndex</b> . Use those values to determine the key, then create a <b>CaesarCipher</b> with that key and call <b>decrypt</b> on the encrypted string.	
	Create a <b>CaesarCipher</b> . Then calculate the frequency of all the letters in the encrypted string, using <b>countLetters</b> and compute the index of the largest frequency using <b>maxIndex</b> . Then call <b>decrypt</b> on the encrypted string.	
	Compute a <b>CaesarCipher</b> object for every possible key. Then for each one, decrypt and then calculate the frequency of all the letters using <b>countLetters</b> . Compute the index of the largest frequency over all of them. Return the decrypted string that goes with <b>maxIndex</b> .	
	Compute a <b>CaesarCipher</b> object, and then call <b>encrypt</b> .	
1 point		
4.		
In the o	class <b>TestCaesarCipher</b> , should the method <b>countLetters</b> be public or private?	
	public	
$\bigcirc$	private	
	Submit Quiz	