

Finally, you do the same thing for the third character which is an M that you turned into

Now that you have thought through all of that, you have a list of the 17 things you did

for this particular message, and this particular key. However, there's one more thing

replacing characters in the message. If your message is a string, you cannot do that. As

If you recognize this issue now you can adjust your algorithm to reflect the fact that you

If you do not realize you need to do this now, you would figure it out at a later step. But

Looking at this algorithm you can see that the first few steps are an initial setup, before

If you focus on the steps after the initial set-up, you can see that you are doing almost,

One significant difference is what you decide to do based on whether or not you find

If you look at the steps for one particular character where the letter is in the alphabet,

in the string. And that the letter you used to replace the current character is what you

Now that you have thought this all through, you can write down, a much more general

Notice that the step number two here requires a little thought, and a couple of

What about three? Do you always want to stop counting at three?

When you are looking for patterns, you should examine any constants, such as zero

No. How high you count depends on the length of the message. Here we've written

less than it, not less than or equal to it. In our example, encrypted was four, and you

Now it's time to test out the steps. Pause the video now and try to encrypt the

Did you catch the subtle problem with this algorithm? Even though it computed

You want to be sure to explicitly say this so that you know what to return from your

Now that you have fixed this detail of your algorithm you are ready to turn it into Java

Your answer is the string inside of the string builder you called encrypted.

everything you wanted, we never said what the final answer is.

that you want to count to the length of encrypted. But noted that you want to count to

here, and ask if you always use that constant. Or if you need to look for a more general

you will notice that the character you looked for in the alphabet is the current character

want to work with a string builder. Here we've added a step at the start to create a

And then we updated the algorithm to work on the string builder.

the earlier you can figure it out, everything you need to do, the better.

you begin performing repetitive steps for each letter in the message.

the letter in the alphabet. Replacing the current character if you find it.

but not quite the same thing for each character n the message.

that is good to note here before you proceed. Notice that your algorithm calls for

you recently learned, strings are immutable, meaning you cannot change them.

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◀ Back to Week 1

Cipher

Module Learning

A Brief History of

Cryptography

Introduction

Counting Loops

Character Class

Summary

Cipher

Cipher

Review

Practice Quiz:

Caesar Cipher

2:01

a D.

2:07

2:32

2:44

2:48

2:59

3:09

3:18

3:29

3:32

3:50

3:56

4:04

pattern.

4:15

4:18

4:24

4:42

4:53

5:02

5:09

5:13

code. Thank you.

algorithm.

Or doing nothing if you do not.

found in the same position in the shifted alphabet.

statements. But you've already seen how to do it.

Here you always want to start from zero.

only want to count to three.

message, a space bat with a key of 19.

method when you translate the code.

string builder from the string message.

Strings