

Next

3:24

Java would not know that you wanna wrap around and stay only within the alphabet. So you would have to include some more mathematical operations or a conditional statement to wrap around and get X.

3:37

Another way you could do this, which makes the wrap around case a bit cleaner, is to pre-shift the entire alphabet. 3:44

That is compute the shifts of each letter at the start, before you try to encrypt anything in the message. For example, you could take the alphabet and for a shift of three to the left, computer string like this one. We will see the details of how to do this in a future video. However, once you have computed these strings, You can use them to look up the encryption of each letter. For the f at the start of the message you want to find f in the original alphabet. Think for a moment about what you have learned about strings in the past.

4:17

What method might you use to find F?

4:21 Once you have found F, you look at the letter in the same position in the shifted

alphabet which is C. Then you write down that letter in your encrypted message.

For A which wraps around to X, you do not have any special case. Again, you just find A

in the original alphabet, look at the letter in the same position in the shifted alphabet, in this case that letter X. So you write down X in your encrypted message.

4:48 Great, now you know the basic ideas behind a Caesar Cipher. However, before your implement this algorithm, you will need to learn a few new Java concepts. You're going to learn some new ways to manipulate strings. As well as for loops which count over a

range of numbers.

loops a lot. Thank you.

5:06 For loops which count over ranges of numbers are particularly important as you will use the numbers you count to index into data, manipulating particular locations in the sequence. You are familiar with strings, which are sequences of characters. But we'll

learn about the new types of sequences in the rest of this course. So you will use for