

Object Oriented Caesar Cipher

Constructors

Constructors: Initializing Objects

```
public class CaesarCipher {  
    private String alphabet;  
    private String shiftedAlphabet;
```

```
    public CaesarCipher(int key) {  
        alphabet = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";  
        shiftedAlphabet = alphabet.substring(key) +  
                           alphabet.substring(0,key);  
    }
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Constructors: Not Normal Methods

- Constructors: not normal methods
 - Do not call directly
 - Called as part of creating an object with `new`
- Do not write any constructors?
 - Compiler provides default:
 - `public CaesarCipher() { }`

Constructors: Not Normal Methods

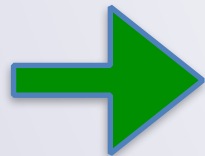
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```

.....
 CaesarCipher cc = new CaesarCipher(22);

Constructors: Initializing Objects

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public class CaesarCipher {
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cc

alphabet

shiftedAlphabet

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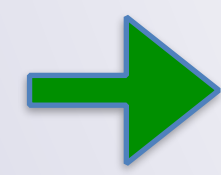
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shiftedAlphabet

A B C ...

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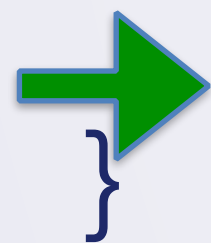
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