Object-Oriented Programming

Practice Week4

Vowels and consonants

There are 5 vowels

a e i o u

There are 21 consonants.

**b c d f g h j
k l m n p q r
s t v w x y z**

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```java
// Firstly, change letter.charAt(0) toLowercase
// ex) letter = Apple; -> let = a;
char let = // write your code here
```
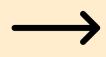
Apple

```
// Firstly, change letter.charAt(0) toLowercase
// ex) letter = Apple; -> let = a;
char let = // write your code here
```

Apple ⟶ A

```
// Firstly, change letter.charAt(0) toLowercase
// ex) letter = Apple; -> let = a;
char let = // write your code here
```

charAt(0)

Apple ⟶ A

```
// Firstly, change letter.charAt(0) toLowercase
// ex) letter = Apple; -> let = a;
char let = // write your code here
```

charAt(0)

Apple $\longrightarrow$ A $\longrightarrow$ a

```
// Firstly, change letter.charAt(0) toLowercase
// ex) letter = Apple; -> let = a;
char let = // write your code here
```

charAt(0)   toLowercase

Apple ⟶   A   ⟶   a

```
// Firstly, change letter.charAt(0) toLowercase
// ex) letter = Apple; -> let = a;
char let = Character.toLowerCase(letter.charAt(0));
```

charAt(0)

toLowercase

Apple ⟶ A ⟶ a

```java
// if 'let' is not Letter:
// use Character.isLetter(), !
if (/*Fill the blank*/)
    System.out.println(letter + " is invalid input.");
```

```java
// if 'let' is not Letter:
// use Character.isLetter(), !
if (!Character.isLetter(let))
    System.out.println(letter + " is invalid input.");
```

```java
else
{
    switch(/*Fill the blank*/)
    {
        case 'a': case 'e': case 'i': case 'o': case 'u':
        System.out.println(letter + " is a vowel");
        break;
        default:
            System.out.println(letter + " is not a vowel");
    }
}
```

```
else
{
    switch(let)
    {
        case 'a': case 'e': case 'i': case 'o': case 'u':
        System.out.println(letter + " is a vowel");
        break;
        default:
            System.out.println(letter + " is not a vowel");
    }
}
```
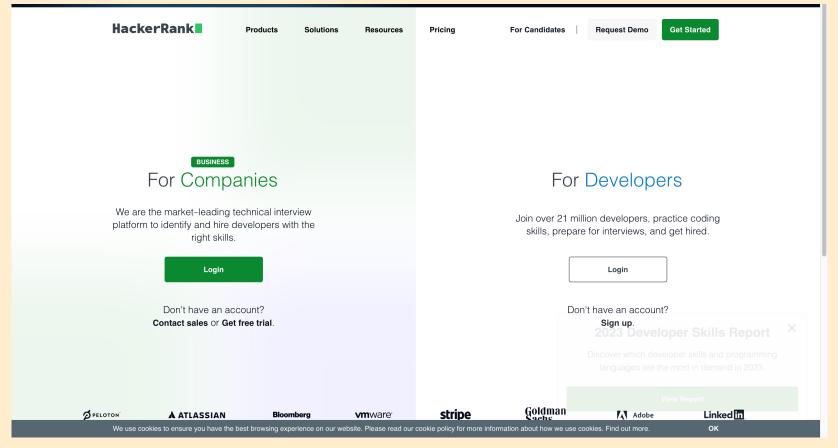
```
switch (/*Fill the blank*/)
{
    case 'A': case 'B': case 'C': digit = 2; break;
    // Write your code here
```
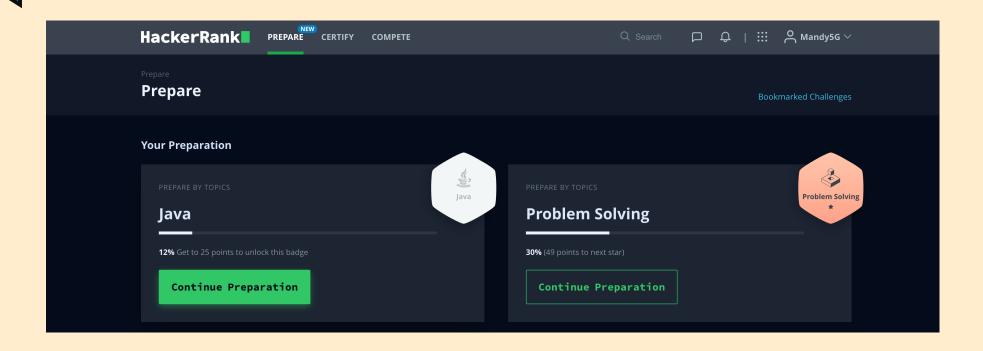
```
switch (str.toUpperCase().charAt(i))
{
    case 'A': case 'B': case 'C': digit = 2; break;
    case 'D': case 'E': case 'F': digit = 3; break;
    case 'G': case 'H': case 'I': digit = 4; break;
    case 'J': case 'K': case 'L': digit = 5; break;
    case 'M': case 'N': case 'O': digit = 6; break;
    case 'P': case 'Q': case 'R': case 'S': digit = 7; break;
    case 'T': case 'U': case 'V': digit = 8; break;
    case 'W': case 'X': case 'Y': case 'Z': digit = 9; break;
```

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