

Java → Basic syntax and simple programs → Methods → [Defining methods](#)

Defining methods → Vowel or not

Medium 7 minutes

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Implement a method that checks whether a given English letter is a vowel or not. The input may be in any case.

In our case, the letter 'y' is *not* considered a vowel.

Examples:

- 1. `isVowel('a')` should be `true`
- 2. `isVowel('A')` should be `true`
- 3. `isVowel('b')` should be `false`

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255

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static boolean isVowel(char ch) {
6         char chlower = Character.toLowerCase(ch);
7         return chlower == 'a' || chlower == 'e' || chlower == 'i' || chlower == 'o' || chlower == 'u';
8     }
9
10    /* Do not change code below */
11    public static void main(String[] args) {
12        Scanner scanner = new Scanner(System.in);
13        char letter = scanner.nextLine().charAt(0);
14        System.out.println(isVowel(letter) ? "YES" : "NO");
15    }
16 }
17
```

Code quality: About your code quality score ↓

✓ Correct

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Editor's choice

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JB

John Backus

JetBrains Academy Team

4 months ago

Report

Code Editor

Java

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static boolean isVowel(char ch) {
6         char[] vowel = {'a', 'e', 'i', 'o', 'u'};
7         ch = Character.toLowerCase(ch);
8
9         for (int i = 0; i < vowel.length; i++) {
10             if (ch == vowel[i]) {
11                 return true;
12             }
13         }
14
15         return false;
16     }
17
18     public static void main(String[] args) {
19         Scanner scanner = new Scanner(System.in);
20         char letter = scanner.nextLine().charAt(0);
21         System.out.println(isVowel(letter) ? "YES" : "NO");
22     }
23 }
24
25
```

✓ Correct, but can be improved



♡ 4 [Reply](#)

Francis Castagna about 2 months ago [Report](#)

You did not cover the topic of data structure (arrays) how is that a fair solution hmmm?

♡ 31 [Reply](#)

M

Mihajlo Sljukic about 2 months ago [Report](#)

Using arrays as a example for solutions for first project that never even had Arrays is horrible, there are many new people getting into programming and you're just making it way more confusing to them.

♡ 13 [Reply](#)

Vladilima about 2 months ago [Report](#)

this is the stupidest thing

♡ 15 [Reply](#)

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paul.hos about 9 hours ago [Report](#)

Code Editor

Java

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static boolean isVowel(char ch) {
6         return "AaEeIiOoUu".contains("" + ch);
7     }
8
9     public static void main(String[] args) {
10         Scanner scanner = new Scanner(System.in);
11         char letter = scanner.nextLine().charAt(0);

```

i

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```
12         System.out.println(isVowel(letter) ? "YES" : "NO");
13     }
14 }
15
```

Code quality:

✓ Correct



♡ 0 [Reply](#)



zenalc [about 17 hours ago](#) [Report](#)

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Java

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static boolean isVowel(char ch) {
6         char lower = Character.toLowerCase(ch);
7         return lower == 'a' || lower == 'e' || lower == 'i' || lower == 'o' || lower == 'u';
8     }
9
10    /* Do not change code below */
11    public static void main(String[] args) {
12        Scanner scanner = new Scanner(System.in);
13        char letter = scanner.nextLine().charAt(0);
14        System.out.println(isVowel(letter) ? "YES" : "NO");
15    }
16 }
17
```

Code quality:

✓ Correct



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Rafael [1 day ago](#) [Report](#)

[Code Editor](#)

Java

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static boolean isVowel(char ch) {
6         return String.valueOf(ch).matches("[aeuioAEUIO]");
7     }
8
9     /* Do not change code below */
10    public static void main(String[] args) {
11        Scanner scanner = new Scanner(System.in);
12        char letter = scanner.nextLine().charAt(0);
13        System.out.println(isVowel(letter) ? "YES" : "NO");
14    }
15 }
```

Code quality:

✓ Correct

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Md Owais 1 day ago [Report](#)

[Code Editor](#)

Java

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static boolean isVowel(char ch) {
6         char c = Character.toUpperCase(ch);
7         return c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U';
8         // write your code here
9     }
10
11     /* Do not change code below */
12     public static void main(String[] args) {
13         Scanner scanner = new Scanner(System.in);
14         char letter = scanner.nextLine().charAt(0);
15         System.out.println(isVowel(letter) ? "YES" : "NO");
16     }
17 }
18
```

Code quality:

✓ **Correct**



♡ 0 [Reply](#)



Nicholas Davis 2 days ago [Report](#)

[Code Editor](#)

Java

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static boolean isVowel(char ch) {
6
7         char letter = Character.toLowerCase(ch);
8         return letter == 'a' || letter == 'e' || letter == 'i' || letter == 'o' || letter == 'u';
9     }
10
11     /* Do not change code below */
12     public static void main(String[] args) {
13         Scanner scanner = new Scanner(System.in);
14         char letter = scanner.nextLine().charAt(0);
15         System.out.println(isVowel(letter) ? "YES" : "NO");
16     }
17 }
18
```

Code quality:

✓ **Correct**



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Nicholas Davis 2 days ago [Report](#)

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I believe that due to the simplicity of the program this is the most ideal code. However, User : Manuel Sanchez, has a solution that is more ideal for real world problems that will have more than 5 elements to process given that we haven't learned about arrays yet.

♡ 0 [Reply](#)



Daniel Willins 2 days ago [Report](#)

[Code Editor](#)

Java

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static boolean isVowel(char ch) {
6         char[] array = {'a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U'};
7         for (char element : array) {
8             if (ch == element) {
9                 return true;
10            }
11        }
12        return false;
13    }
14
15    /* Do not change code below */
16    public static void main(String[] args) {
17        Scanner scanner = new Scanner(System.in);
18        char letter = scanner.nextLine().charAt(0);
19        System.out.println(isVowel(letter) ? "YES" : "NO");
20    }
21 }
22
```

Code quality: 🚀🚀🚀🚀

✓ **Correct**



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Manuel Sánchez 3 days ago [Report](#)

[Code Editor](#)

Java

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static boolean isVowel(char ch) {
6
7         String vowels = "AEIOUaeiou";
8         boolean isVowel = false;
9
10        for (int f = 0; f < vowels.length(); f++) {
11
12            isVowel = ch == vowels.charAt(f);
13
14            if (isVowel) {
15                break;
16            }
17        }
18        return isVowel;
19    }
20
21    /* Do not change code below */
22    public static void main(String[] args) {
23        Scanner scanner = new Scanner(System.in);
24        char letter = scanner.nextLine().charAt(0);
25        System.out.println(isVowel(letter) ? "YES" : "NO");
26    }
27 }
28
```

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Code quality: 

✓ Correct



♡ 1 [Reply](#)

M **Manuel Guzman** 3 days ago [Report](#)

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Java

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static boolean isVowel(char ch) {
6         return "AEIOUaeiou".indexOf(ch) != -1;
7         // write your code here
8     }
9
10    /* Do not change code below */
11    public static void main(String[] args) {
12        Scanner scanner = new Scanner(System.in);
13        char letter = scanner.nextLine().charAt(0);
14        System.out.println(isVowel(letter) ? "YES" : "NO");
15    }
16 }
17
```

Code quality: 

✓ Correct



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MP **Michael Pollente** 4 days ago [Report](#)


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Java

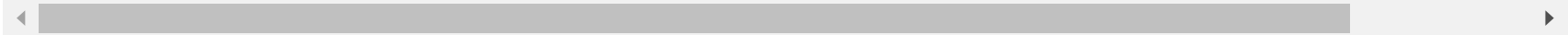
```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static boolean isVowel(char ch) {
6         ch = Character.toLowerCase(ch);
7         return ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u';
8     }
9
10    /* Do not change code below */
11    public static void main(String[] args) {
12        Scanner scanner = new Scanner(System.in);
13        char letter = scanner.nextLine().charAt(0);
14        System.out.println(isVowel(letter) ? "YES" : "NO");
15    }
16 }
17
```

Code quality: 


✓ Correct, but can be improved

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