


○ BJP5 Self-Check 3.18: jamesTKirk


Language/Type:  Java [basics](#) [println](#) [Strings](#) [variables](#)
Author: Marty Stepp (on 2019/09/19)

What output is produced by the following code?

```
String first = "James";  
String last = "Kirk";  
String middle = "T.";  
System.out.println(last);  
System.out.println("My name is " + first);  
System.out.println(first + " " + last);  
System.out.println(last + ", " + first + " " + middle);  
System.out.println(middle + " is for Tiberius");
```

output

Kirk
My name is James
James Kirk
Kirk, James T.
T. is for Tiberius



 Submit

✔ You passed 1 of 1 tests.

[Go to the next problem: stringExpressions](#)

#	question	your answer	result
1	output	Kirk My name is James James Kirk Kirk, James T. T. is for Tiberius	✔ pass

○ BJP5 Self-Check 3.20: stringExpressions2

Language/Type:  Java [basics](#) [Strings](#)
Author: Leslie Ferguson (on 2019/09/19)

Assuming that the following variables have been declared,


```
String str1 = "Q.E.D.";  
String str2 = "Arcturan Megadonkey";  
String str3 = "Sirius Cybernetics Corporation";
```


Evaluate the following expressions. Make sure to give a value of the appropriate type (such as including quotes around a Stri

```
str1.length()  
str2.length()  
str1.toLowerCase()  
str2.toUpperCase()  
str1.substring(2, 4)  
str2.substring(10, 14)  
str1.indexOf("D")  
str1.indexOf(".")  
str2.indexOf("donkey")  
str3.indexOf("X")  
str2 + str3.charAt(17)  
str3.substring(9, str3.indexOf("e"))  
str3.substring(7, 12)  
str2.toLowerCase().substring(9, 13) + str3.substring(18, str3.length() - 7)
```

✔ S

6
19
"q.e.d."
"ARCTURAN MEGADONKEY"
"E."
"egad"
4
1
13
-1
"Arcturan Megadonkeys"
"b"
"Cyber"
"mega Corp"



 Submit

✔ You passed 14 of 14 tests.

[Go to the next problem: fourScore](#)

question #1:
your answer:
result:

str1.length()
6
✔ pass

BJP5 Self-Check 3.22: scannerTokensDouble

Language/Type: Java Scanner
Author: Marty Stepp (on 2019/09/19)

Given the following code fragment, describe what will happen when the user types the value successfully, describe the value that will be stored in the variable money a value of the proper type, such as 12.0 rather than 12 for a double.)

```
Scanner console = new Scanner(System.in);
System.out.print("How much money do you have? ");
double money = console.nextDouble();
```

34.50	34.5
6	6.0
\$25.00	exception
million	exception
100*5	exception
600x000	exception
none	exception
645	645.0

Submit

You passed 8 of 8 tests.

Go to the next problem: promptMultiplyBy2

#	question	your answer	result
1	34.50	34.5	pass
2	6	6.0	pass
3	\$25.00	exception	pass
4	million	exception	pass
5	100*5	exception	pass
6	600x000	exception	pass
7	none	exception	pass
8	645	645.0	pass

BJP5 Self-Check 3.23: promptMultiplyBy2

Language/Type: Java Scanner
Author: Roy McElmurry (on 2019/09/19)

Write code to read an integer from the user, then print that number multiplied by 2. A sample run of the code would produce the following:

```
Type an integer: 4
4 times 2 = 8
```

Type your solution here:

```
1 Scanner scan = new Scanner(System.in);
2 System.out.print("Type an integer: ");
3 int num = scan.nextInt();
4 int num2 = num * 2;
5 System.out.println(num + " times 2 = " + num2);
```

This problem asks for bare code. Submit a fragment of Java code as described. Do not write any class just write the lines of code that will produce the result described.

Submit

You passed 6 of 6 tests.

Go to the next problem: SumNumbers

test #1: test1
console output: Type an integer: 2 2 times 2 = 4
result: pass
test #2: test2
console output: Type an integer: 12 12 times 2 = 24
result: pass
test #3: test3

BJP5 Exercise 3.21: processName

[Show Header](#)

Language/Type: [Java](#) [input](#) [method basics](#) [parameters](#) [Scanner](#)

Author: Roy McElmurry (on 2019/09/19)

Write a method called `processName` that accepts a `Scanner` for the console as a parameter and that prompts the user to enter his or her full name, then prints the name in reverse order (i.e., last name, first name). You may assume that only a first and last name will be given. You should read the entire line of input at once with the `Scanner` and then break it apart as necessary. Here is a sample dialogue with the user:

```
Please enter your full name: Sammy Jankis
Your name in reverse order is Jankis, Sammy
```

Type your solution here:


```
1 public static void processName(Scanner scan)
2 {
3     System.out.print("Please enter your full name: ");
4     String name = scan.nextLine();
5     int spaceIndex = name.indexOf(" ") + 1;
6     String firstName = name.substring(spaceIndex, name.length());
7     String lastName = name.substring(0, spaceIndex);
8     System.out.println("Your name in reverse order is " + firstName + ", " + lastName);
9 }
```

This is a **method problem**. Write a Java method as described. Do not write a complete program or class; just the method(s) above.

 4 Indent

 Submit


☒ Sound F/X
☒ Highlighting

 You passed 4 of 4 tests.

[Go to the next problem: TheNameGame](#)


test #1: `processName(new Scanner("Sammy Jankis\nerror"));`

console output: Please enter your full name: Sammy Jankis
Your name in reverse order is Jankis, Sammy

result:  pass

test #2: `processName(new Scanner("Leroy Jenkins\nerror"));`

console output: Please enter your full name: Leroy Jenkins
Your name in reverse order is Jenkins, Leroy

result:  pass

BJP5 Exercise 3.22: TheNameGame

[Show Header](#)

Language/Type: Java [input](#) [Scanner](#) [Strings](#)

Author: Marty Stepp (added by Melissa Galloway on 2019/09/19)

Write a complete program called "TheNameGame", where the user inputs a first and last name and a song in the following format is printed about their first, then last, name. Use a method to avoid redundancy.

What is your name? **Fifty Cent**
Fifty Fifty, bo-Bifty
Banana-fana fo-Fifty
Fee-fi-mo-Mifty
FIFTY!

Cent Cent, bo-Bent
Banana-fana fo-Fent
Fee-fi-mo-Ment
CENT!

Type your solution here:

```
1 public class TheNameGame{
2
3     public static void main(String[] args)
4     {
5         Scanner scan = new Scanner(System.in);
6         System.out.print("What is your name? ");
7         String fullName = scan.nextLine();
8
9         int spaceIndex = fullName.indexOf(" ");
10
11         String firstName = fullName.substring(0, spaceIndex);
12         String fNamePart = fullName.substring(1, firstName.length());
13
14         String lastName = fullName.substring(spaceIndex+1, fullName.length());
15         String lNamePart = lastName.substring(1, lastName.length());
16
17         stanzaOne(fullName, firstName, fNamePart);
18         stanzaTwo(fullName, lastName, lNamePart);
19     }
20
21     public static void stanzaOne(String fullName, String firstName, String fNamePart)
22     {
23         System.out.println(firstName + " " + firstName + ", bo-B" + fNamePart);
24         System.out.println("Banana-fana fo-F" + fNamePart);
25         System.out.println("Fee-fi-mo-M" + fNamePart);
26         System.out.println(firstName.toUpperCase() + "!\n");
27     }
28
29     public static void stanzaTwo(String fullName, String lastName, String lNamePart)
30     {
31         System.out.println(lastName + " " + lastName + ", bo-B" + lNamePart);
32         System.out.println("Banana-fana fo-F" + lNamePart);
33         System.out.println("Fee-fi-mo-M" + lNamePart);
34         System.out.println(lastName.toUpperCase() + "!\n");
35     }
36
37 }
```

This problem asks for a **complete program**. Write a complete Java program as a class with a main method. (You do not need to write any import statements.)

4 Indent

Submit

☒ Sound F/X
☒ Highlighting

You passed 3 of 3 tests.

[Go to the next problem: printIndexed](#)

BJP5 Self-Check 3.17: countQuarters

[Show Header](#)

Language/Type: Java [method basics](#) [mod parameters](#)

Author: Kimberly Todd (on 2019/09/19)

Write a method called `countQuarters` that takes an `int` representing a number of cents as a parameter and returns the number of quarter coins represented by that many cents. Don't count any whole dollars, because those would be dispensed as dollar bills. For example, `countQuarters(64)` would return 2, because 2 quarters make 50 cents, with 14 extra left over. A call of `countQuarters(1278)` would return 3, because after the 12 dollars are taken out, 3 quarters remain in the 78 cents left.

Type your solution here:

```
1 public static int countQuarters(int cents)
2 {
3     int turnToQ = cents % 100;
4     int result = turnToQ / 25;
5     return result;
6 }
```

This is a **method problem**. Write a Java method as described. Do not write a complete program or class; just the method(s) above.

 4 Indent

 Submit

☒ Sound F/X
☒ Highlighting

✔ You passed 8 of 8 tests.

[Go to the next problem: jamesTKirk](#)

test #1: countQuarters(64)
return: 2
result: ✔ pass

test #2: countQuarters(1278)
return: 3
result: ✔ pass