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O BJP5 Exercise 7.1: lastIndexOf

Write a method named lastIndexOf that accepts an array of integers and an integer value as its parameters and returns the last index at which the value occurs in the array. The method should return -1 if the value is not found. For example, in the list containing {74, 85, 102, 99, 101, 85, 56}, the last index of the value 85 is 5.

```
Type your solution here:
```

```
public int lastIndexOf(int array[], int x){
   int place = -1;

for (int count = 0; count < array.length; count++){
   if (array[count] == x){
      place = count;
   }
}
return place;
}</pre>
```

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



Go to the next problem: range

```
test #1: lastIndexOf({74, 85, 102, 99, 101, 85, 56}, 85)
return: 5
result: ② pass

test #2: lastIndexOf({74, 85, 102, 99, 101, 85, 56}, 58)
return: -1
result: ② pass
```

O BJP5 Exercise 7.2: range

Language/Type:

Java arrays

Write a static method named range that takes an array of integers as a parameter and returns the range of values contained in the array. The range of an array is defined to be one more than the difference between its largest and smallest element. For example, if the largest element in the array is 15 and the smallest is 4, the range is 12. If the largest and smallest values are the same, the range is 1.

The following table shows some calls to your method and their results (the largest and smallest values are underlined):

Call	Value Returned
int[] a1 = {8, 3, 5, 7, 2, 4};	range(a1) returns 7
int[] a2 = {15, 22, 8, 19, 31};	range(a2) returns 24
int[] a3 = {3, 10000000, 5, -29, 4};	range(a3) returns 10000030
int[] a4 = {100, 5};	range(a4) returns 96
int[] a5 = {32};	range(a5) returns 1

You may assume that the array contains at least one element (that its length is at least 1). You should not make any assumptions about the values of the particular elements in the array; they could be extremely large, very small, etc. You should not modify the contents of the array.

```
Type your solution here:
 1 public static int range(int array[]){
        int smallest = array[0];
int largest = array[0];
        for (int count = 0; count < array.length; count++){</pre>
             if (array[count] < smallest)</pre>
                 smallest = array[count];
 8
             if (array[count] > largest)
10
                  largest = array[count];
11
12
13
        return (largest - smallest) + 1;
14
15 }
```

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

Submit

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You passed 5 of 5 tests.

Go to the next problem: countinRange

```
test #1: range({8, 3, 5, 7, 2, 4})
result: @ pass
```

O BJP4 Self-Check 7.4: oddsArray

Language/Type: & Java arrays

Marty Stepp (on 2016/09/08) Author:

Write code that creates an array named odds and stores all odd numbers between -6 and 38 into it using a for loop. Make the array's size exactly large enough to store the numbers.

```
Type your solution here:
 1 int[] odds = new int[22];
 3 for (int i = 0; i < odds.length; i++){</pre>
              odds[i] = i * 2 - 5;
 5 }
This problem asks for bare code. Submit a fragment of Java code as described. Do not write any class or method heading around your code:

    4 Indent
```

just write the lines of code that will produce the result described

Submit

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You passed 1 of 1 tests.

Go to the next problem: numbersArray

```
test #1: test1
console output: odds = [-5, -3, -1, 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 3
       result: @ pass
```