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## ○ BJP4 Exercise 12.2: writeNums ☆

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**Language/Type:** Java [recursion recursive programming](#)  
**Author:** Whitaker Brand (on 2016/09/08)

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Write a method `writeNums` that accepts an integer parameter  $n$  and prints the first  $n$  integers starting with 1 in sequential order, separated by commas. For example, the following calls produce the following output:

Call	Output
<code>writeNums(5);</code>	1, 2, 3, 4, 5
<code>writeNums(12);</code>	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Your method should throw an `IllegalArgumentException` if passed a value less than 1. Note that the output does not advance to the next line.

**Type your solution here:**

```
1 //Name:Jason Xu
2 public int writeNums(int n) {
3
4     if(n<=0){
5         throw new IllegalArgumentException("no");
6     }
7     if(n==1){
8         System.out.print(n);
9         return 0;
10    }
11    writeNums(n-1);
12    System.out.print(", "+n);
13    return n;
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.



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Indent

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**test #1:** writeNums(1);

**console output:** 1

**result:** ✔ pass

**test #2:** writeNums(2);

**console output:** 1, 2

**result:** ✔ pass

**test #3:** writeNums(5);

**console output:** 1, 2, 3, 4, 5

**result:** ✔ pass

**test #4:** writeNums(12);

**console output:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

**result:** ✔ pass

**test #5:** writeNums(0);

**console output:**

**exp. exception:** IllegalArgumentException

**your exception:** IllegalArgumentException: no

**result:** ✔ pass

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