



< starString

Main Page → Problems → Solve a Problem

writeSequence >

Show Header

O BJP4 Exercise 12.2: writeNums 🔀

Favorite

Language/Type:

Java recursion recursive programming

Author: Whitaker Brand (on 2016/09/08)

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:

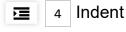
| Call | Output | | | | | | | | | | | |
|----------------|--------|----|----|----|----|----|----|----|----|-----|-----|----|
| writeNums(5); | 1, | 2, | 3, | 4, | 5 | | | | | | | |
| writeNums(12); | 1, | 2, | 3, | 4, | 5, | 6, | 7, | 8, | 9, | 10, | 11, | 12 |

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){
           System.out.print(n);
 8
 9
           return 0;
10
11
       writeNums(n-1);
12
       System.out.print(", "+n);
13
       return n;
14
```

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



☑ Sound F/X

☑ Highlighting

Submit

1 of 3 10/17/2018, 1:01 PM

You passed 5 of 5 tests.

Go to the next problem: writeSequence

```
test #1:
               writeNums(1);
console output:
                pass
        result:
       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
                IllegalArgumentException: no
your exception:
        result:
                pass
```

If you do not understand how to solve a problem or why your solution doesn't work, please contact your TA or instructor.

If something seems wrong with the site (errors, slow performance, incorrect problems/tests, etc.), please contact us.

2 of 3 10/17/2018, 1:01 PM

Is there a problem? Contact a site administrator.

Site name, logo, iconography, site design, web application and problems are original work and copyright © Marty Stepp unless otherwise specified. This site is the independent creation and intellectual property of the author and has no direct affiliation or association with any particular company, university, course, textbook, or any other material or online resource. Any non-educational usage of the content on this site is expressly forbidden without written permission. All rights reserved.

3 of 3