



Can You Access?

by aa1992

Problem

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You are given a class *Solution* and an inner class *Inner.Private*. The main method of class *Solution* takes an integer *num* as input. The *powerof2* in class *Inner.Private* checks whether a number is a power of 2. You have to call the method *powerof2* of the class *Inner.Private* from the *main* method of the class *Solution*.

Constraints

$$1 \leq num \leq 2^{30}$$

Sample Input

8

Sample Output

8 is power of 2
An instance of class: Solution.Inner.Private has been created

 Submissions: 10362

Max Score: 15

Difficulty: Medium

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☆☆☆☆☆

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Current Buffer (saved locally, editable)

Java 7



```
1 import java.util.*;
2
3
4
5
6
7
8 public class Solution {
9
10     public static void main(String[] args) throws Exception {
11         DoNotTerminate.forbidExit();
12
13         try{
14             BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
15             int num = Integer.parseInt(br.readLine().trim());
16             Object o; // Must be used to hold the reference of the instance of the class Solution.Inner.Private
17
18             System.out.println(num + " is " + ((Inner.Private) (o = new Inner().new Private())) .powerof2(num));
```

```

18     System.out.println("An instance of class: " + o.getClass().getCanonicalName() + " has been created");
19
20 } //end of try
21
22 catch (DoNotTerminate.ExitTrappedException e) {
23     System.out.println("Unsuccessful Termination!!");
24 }
25 } //end of main
26 static class Inner{
27     private class Private{
28         private String powerof2(int num){
29             return ((num&num-1)==0)?"power of 2":"not a power of 2";
30         }
31     }
32 } //end of Inner
33
34 } //end of Solution
35
36 class DoNotTerminate { //This class prevents exit(0)
37
38     public static class ExitTrappedException extends SecurityException {
39
40         private static final long serialVersionUID = 1L;
41     }
42
43     public static void forbidExit() {
44         final SecurityManager securityManager = new SecurityManager() {
45             @Override
46             public void checkPermission(Permission permission) {
47                 if (permission.getName().contains("exitVM")) {
48                     throw new ExitTrappedException();
49                 }
50             }
51         };
52         System.setSecurityManager(securityManager);
53     }
54 }
55
56

```

Line: 17 Col: 100

 [Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code

Congrats, you solved this challenge!

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✓ Test Case #0

✓ Test Case #1

✓ Test Case #2

✓ Test Case #3

✓ Test Case #4

✓ Test Case #5

✓ Test Case #6

✓ Test Case #7

You've earned 15.00 points.

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