



CHALLENGE INFORMATION

✔ You have already solved this challenge ! Though you can run the code with different logic !



Course	JAVA	Session	Datatypes and Operators	Question Information	Level 2 Challenge 17
Problem	<p>Question description</p> <p>Friends are going to play console. They have two joysticks and only one charger for them. Initially first joystick is charged at a_1 percent and second one is charged at a_2 percent. You can connect charger to a joystick only at the beginning of each minute. In one minute joystick either discharges by 2 percent (if not connected to a charger) or charges by 1 percent (if connected to a charger).</p> <p>Game continues while both joysticks have a positive charge. Hence, if at the beginning of minute some joystick is charged by 1 percent, it has to be connected to a charger, otherwise the game stops. If some joystick completely discharges (its charge turns to 0), the game also stops.</p> <p>Determine the maximum number of minutes that game can last. It is prohibited to pause the game, i. e. at each moment both joysticks should be enabled. It is allowed for joystick to be charged by more than 100 percent.</p> <p>Constraints:</p> $1 \leq a_1, a_2 \leq 100$ <p>Input Format:</p> <p>The first line of the input contains two positive integers a_1 and a_2 , the initial charge level of first and second joystick respectively.</p> <p>Output Format:</p>				

Output the only integer, the maximum number of minutes that the game can last. Game continues until some joystick is discharged.

Test Cases

✓ Logical Test Cases

Test Case 1

INPUT (STDIN)

3 5

EXPECTED OUTPUT

6

Test Case 2

INPUT (STDIN)

24 15

EXPECTED OUTPUT

36

✓ Mandatory Test Cases

Test Case 1

KEYWORD

`int m,n,x=0;`

Test Case 2

KEYWORD

`n=sc.nextInt();`

Test Case 3

KEYWORD

`>=`

Test Case 4

KEYWORD

`x++;`

✓ Complexity Test Cases

Test Case 1

CYCLOMATIC COMPLEXITY

5

Test Case 2

TOKEN COUNT

140

Test Case 3

NLOC

26

Code Editor

✓ You have already solved this challenge ! Though you can run the code with different logic !

Code Editor

JAVA SE 1.8

Light Theme

```

1  import java.util.Scanner;
2  public class Class332241010280 {
3      public static void main(String[] args) {
4          Scanner sc = new Scanner(System.in);
5          int m,n,x=0;
6          m = sc.nextInt();
7          n=sc.nextInt();
8          int maxMinutes = Math.min(m / 2, n / 2);
9          while (m > 0 && n > 0) {
10             if (m >= n) {
11                 m -= 2;
12                 n++;
13             } else {
14                 n -= 2;
15                 m++;
16             }
17             x++;
18         }
19         System.out.println(x);
20     }
21 }
```

Custom Input (stdin)

T1

T2

Type Here

Output

MATCH T1

MATCH T2



Empty

Complexity Analysis

Test Case Status