Java Week 12: Q5

Due on 2020-12-10, 23:59 IST

Write a recursive function to print the sum of first n odd integer numbers. The recursive function should have the prototype
" int sum_odd_n(int n) ".

For example :

input : 5
output: 25

input : 6
output : 36

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	6	36	36\n	Passed

The due date for submitting this assignment has passed.
1 out of 1 tests passed.
You scored 100.0/100.

Assignment submitted on 2020-12-09, 12:51 IST

Your last recorded submission was :

```
1  import java.util.*;
2  public class Question5 {
3      static int sum_odd_n(int n){
4            if(n==1)
5               return 1;
6             if (n <= 0)
7                  return 0;
8
9  //Call the method recursively.
10 return 2*n-1 + sum_odd_n(n-1);
11       }
12    public static void main(String[] args) {
13       Scanner in=new Scanner(System.in);
14       int count=in.nextInt();
15       int r=sum_odd_n(count);
16       System.out.println(r);
17    }
18 }
19
```

Sample solutions (Provided by instructor)

```
1  import java.util.*;
2  public class Question5 {
3      static int sum_odd_n(int n){
4            if(n==1)
5               return 1;
6             if (n <= 0)
7                  return 0;
8
9  return 2*n-1 + sum_odd_n(n-1);
10       }
11    public static void main(String[] args) {
12       Scanner in=new Scanner(System.in);
13       int count=in.nextInt();
14       int r=sum_odd_n(count);
15       System.out.println(r);
16    }
17 }
18
```