Java Week 8: Q3

Due on 2020-11-12, 23:59 IST

Write a program which will ***print a pyramid of "numbers" 's of height "n" and print the sum of all number's in the pyramid***.

For example:

input: 5

output:

```
    1
   1 2 3
  1 2 3 4 5
 1 2 3 4 5 6 7
1 2 3 4 5 6 7 8 9
95
```

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	4	`1 \n 1 2 3 \n 1 2 3 4 5 \n 1 2 3 4 5 6 7 \n 50\n`	`1 \n 1 2 3 \n 1 2 3 4 5 \n 1 2 3 4 5 6 7 \n 50\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 2020-11-06, 00:19 IST

Your last recorded submission was :

```java
import java.util.*;
 public class Pattern3 {
   public static void main(String[] args) {
       Scanner inp = new Scanner(System.in);
      int n = inp.nextInt();
     int sum=0;
     int start=0;
       // Add the necessary code in the below space
     for (int i=1; i<=n; i++)
     {
       for (int j=n-i; j>=1; j--)
       {
         System.out.print("  ");
       }
       for (int k=1; k<=(i*2-1); k++)
       {
         System.out.print(++start+" ");
         sum += start;
       }
       start=0;
       System.out.println("");
     }
     System.out.println(sum);
   }
}

```

Sample solutions (Provided by instructor)

```java
import java.util.*;
public class Pattern3 {
    public static void main(String[] args) {
        Scanner inp = new Scanner(System.in);
       int n = inp.nextInt();
        int k = 1,sum=0;
        for(int i = 1; i <= n; ++i, k = 1) {
            for(int space = 1; space <= n-i; ++space) {
                System.out.print("  ");
            }
            while(k <= 2 * i - 1) {
                System.out.print(k+" ");
                sum=sum+k;
                ++k;
            }
            System.out.println();
        }
         System.out.println(sum);
    }
}

```