

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

Test Case 1

Input

Expected Output

Actual Output

Status

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 :

```
1 import java.util.*;
2 public class Pattern3 {
3     public static void main(String[] args) {
4         Scanner inr = new Scanner(System.in);
5         int n = inr.nextInt();
6         int sum=0;
7         int start=0;
8         // Add the necessary code in the below space
9         for (int i=1; i<=n; i++)
10         {
11             for (int j=n-i; j>=1; j--)
12             {
13                 System.out.print(" ");
14             }
15             for (int k=1; k<=(i*2-1); k++)
16             {
17                 System.out.print(++start+" ");
18                 sum += start;
19             }
20             start=0;
21             System.out.println("");
22         }
23         System.out.println(sum);
24     }
25 }
26
27
```

Sample solutions (Provided by instructor)

```
1 import java.util.*;
2 public class Pattern3 {
3     public static void main(String[] args) {
4         Scanner inr = new Scanner(System.in);
5         int n = inr.nextInt();
6         int k = 1, sum=0;
7         for(int i = 1; i <= n; ++i, k = 1) {
8             for(int space = 1; space <= n-i; ++space) {
9                 System.out.print(" ");
10             }
11             while(k <= 2 * i - 1) {
12                 System.out.print(k+" ");
13                 sum=sum+k;
14                 ++k;
15             }
16             System.out.println();
17         }
18         System.out.println(sum);
19     }
20 }
21
```

Course outline

How does an NPTEL online course work?

Week 0 : Assignment 0

Week 1 :

Week 2 :

Week 3 :

Week 4 :

Week 5 :

Week 6 :

Week 7 :

Week 8 :

- Lecture 36 : Applet Programming-III
- Lecture 37 : Demonstration-XIII
- Lecture 38 : Demonstration-XIV
- Lecture 39 : AWT Programming-I
- Lecture 40 : AWT Programming-II
- Quiz: Assignment 8
- Java Week 8: Q1
- Java Week 8: Q2
- Java Week 8: Q3
- Java Week 8: Q4
- Java Week 8: Q5
- Feedback For Week 8

Week 9 :

Week 10 :

Week 11 :

Week 12 :

Solution

DOWNLOAD VIDEOS

Text Transcripts

Programming Test - (April 11 - 10AM - 12 PM)

Programming Test - (April 11 - 8PM - 10 PM)