Java Week 8: Q3

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

Note: Spaces must be exactly same as in the example for correct evaluation.

Sample Test Cases

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case 1</td>
<td>4</td>
<td>1 2 3 4 5 6 7</td>
</tr>
</tbody>
</table>
The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```java
import java.util.*;
public class Pattern3 {
    public static void main(String[] args) {
        Scanner inr = new Scanner(System.in);
        int n = inr.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);
    }
}
```