

Main.java

Run

Output

Clear

```
1 import java.util.Scanner;
2 public class PascalTriangle {
3     public static void main(String[] args) {
4         Scanner scanner = new Scanner(System.in);
5         System.out.print("Enter the number of rows: ");
6         int n = scanner.nextInt();
7         if (n <= 0) {
8             System.out.println("Please enter a positive integer
9             .");
10        } else {
11            printPascalTriangle(n);
12        }
13        scanner.close();
14    }
15    public static void printPascalTriangle(int n) {
16        for (int i = 0; i < n; i++) {
17            for (int j = 0; j < n - i - 1; j++) {
18                System.out.print(" ");
19            }
20            for (int j = 0; j <= i; j++) {
21                System.out.print(formatPascalValue
```

```
java -cp /tmp/p1e8uK44Ze PascalTriangle
Enter the number of rows: 5
1
  1  1
1  2  1
1  3  3  1
1  4  6  4  1
```



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```
18         System.out.print(" ");
19     }
20     for (int j = 0; j <= i; j++) {
21         System.out.print(formatPascalValue
22             (getPascalValue(i, j)) + " ");
23     }
24     System.out.println();
25 }
26 public static int getPascalValue(int row, int col) {
27     if (col == 0 || col == row) {
28         return 1;
29     } else {
30         return getPascalValue(row - 1, col - 1) +
31             getPascalValue(row - 1, col);
32     }
33 }
34 public static String formatPascalValue(int value) {
35     return String.format("%-2d", value);
36 }
37 }
```

java -cp /tmp/p1e8uK44Ze PascalTriangle

Enter the number of rows: 5

```
1
 1 1
1 2 1
1 3 3 1
1 4 6 4 1
```