All Contests › Code-It-On › Odd Backbone Pyramid

Odd Backbone Pyramid   🔒 locked

Problem	Submissions	Leaderboard	Discussions

Print a numeric pattern which resembles a pyramid such that the input is the height of the pyramid and all the numbers at the center of it are odd in ascending order starting from top to bottom.

Input:

    4

Output:

```
        1
      2   3   2
    3   4   5   4   3
  4   5   6   7   6   5   4
```

Input Format

A positive number N in the range 2<=N<=29.

Constraints

2<=N<=29

Output Format

A pattern resembling pyramid whose height in equal to N and all the numbers in middle are odd.

Sample Input:

6

Sample output:

```
                1
            2   3   2
          3   4   5   4   3
        4   5   6   7   6   5   4
      5   6   7   8   9   8   7   6   5
    6   7   8   9  10  11  10  9   8   7   6
```

Sample Input 0

4

Sample Output 0

```
            1
        2   3   2
      3   4   5   4   3
    4   5   6   7   6   5   4
```

Submissions: 19
Max Score: 100
Difficulty: Medium

Rate This Challenge:
☆ ☆ ☆ ☆ ☆

More

Current Buffer (saved locally, editable)   Java 8

```java
1  import java.io.*;
2  import java.util.*;
3
4  public class Solution
5  {
6
7      public static void main(String[] args)
8      {
9          /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be
   named Solution. */
10          Scanner sc=new Scanner(System.in);
11          int rows=sc.nextInt();
12          if((rows>=2)&&(rows<=29))
13          {
14
```

```java
15              int  k = 0, count = 0, count1 = 0;
16
17          for(int i = 1; i <= rows; ++i) {
18              for(int space = 1; space <= rows - i; ++space) {
19                  System.out.print("   ");
20                  ++count;
21              }
22
23              while(k != 2 * i - 1) {
24                  if (count <= rows - 1) {
25                      System.out.print((i + k) + "  ");
26                      ++count;
27                  }
28                  else {
29                      ++count1;
30                      System.out.print((i + k - 2 * count1) + "  ");
31                  }
32
33                  ++k;
34              }
35              count1 = count = k = 0;
36
37              System.out.println();
38          }
39
40
41      }
42  }
43  }
```

Line: 1 Col: 1

⬆ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code

Contest Calendar | Interview Prep | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature