

<https://course.acciojob.com/idle?question=451412ca-42fa-4915-b195-13ae3090c5d3>

- EASY
- Max Score: 20 Points

Print Number Pattern 3

You are given n the number of row of the pattern you have to print.

Input Format

The first line of input contains n the number of rows in the pattern.

Output Format

For each n , print the following pattern.

Example 1

Input

5

Output

```
0
1 1
2 3 5
8 13 21 34
55 89 144 233 377
```

Explanation

In the example input you are given 5 rows, and this is the desired pattern.

Example 2

Input

7

Output

```
0
1 1
2 3 5
8 13 21 34
55 89 144 233 377
610 987 1597 2584 4181 6765
10946 17711 28657 46368 75025 121393 196418
```

Explanation

The 7 row pattern is given in the output.

Constraints

$1 \leq n \leq 50$

Topic Tags

- Math
- DP

My code

// in java

```
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;
```

```

public class Main {

    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        int n = s.nextInt();
        solve(n);
    }

    public static void solve(int n)
    {
        int c=0,a=0,b=1;
        // your code here
        for(int i=0;i<n;i++)
        {
            for(int j=0;j<=i;j++)
            {
                if(c<2)
                { System.out.print(c+" "); c++;}
                else
                {
                    int t=a+b;
                    System.out.print(t+" ");
                    a=b;
                    b=t;
                }
            }
            System.out.print("\n");
        }
    }
}

```