https://course.acciojob.com/idle?question=ee237a54-3d05-4ca7-a88 8-d119da5e1d3a

EASY

Max Score: 30 Points

Binary Pattern

You have been given an input integer 'N'. Your task is to print the following binary pattern for it.

Pattern for 'N' = 4

The first line contains n 1s. The next line contains n-1 0s. Then the next line contains n-2 1s and so on.

Input Format

The first line of input contains a single integer n.

You need to complete printPattern function which contains integer input n and prints/returns the required pattern .

Output Format

Print N lines containing the pattern.

Example 1

Input

3

Output

Explanation

First line contains 3 one's, second line contains 2 zero's and third line contains 1 one.

Example 2

Input

5

Output

Explanation

First line contains 5 one's, second line contains 4 zero's, third line contains 3 one's, fourth line contains 2 zero's and last line contain 1 one.

Constraints

1 <= N <= 10³

Topic Tags

- Math
- Loops

My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;
public class Main
{
```