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- MEDIUM
- Max Score: 40 Points

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Generate Binary Numbers

Given a number N. The task is to generate and print binary representation for all numbers from 1 to N.

Try solving this using a queue.

Input Format

The only line of input contains a single integer N.

Output Format

In one line, print binary representation for all numbers from 1 to N. These representations should be space separated.

Example 1

Input

5

Output

1 10 11 100 101

Explanation

```
For n=1, binary representation is 1. For n=2, binary representation is 10. For n=3, binary representation is 11. For n=4, binary representation is 100. For n=5, binary representation is 101.
```

Example 2

Input

2

Output

1 10

Explanation

```
For n=1, binary representation is 1.
For n=2, binary representation is 10.
```

Constraints

1 <= N <= 50000

Topic Tags

• Bit Manipulation

My code

// n java import java.util.*; import java.lang.*;

```
import java.io.*;
public class Main
     static void print_bin(int i)
         String str="";
           while(i>0)
                {
                      int r=i%2;
                      i/=2;
                      String st=Integer.toString(r);
                     str=st+str;
           System.out.print(str);
     public static void main (String[] args) throws
java.lang.Exception
     {
           //your code here
           Scanner s=new Scanner(System.in);
           int n=s.nextInt();
           for(int i=1;i<=n;i++)
                {
                      print_bin(i);
                     System.out.print(" ");
                }
     }
```