

<https://course.acciojob.com/idle?question=8bb018e7-417d-43e8-9db6-88f35d4ee044>

● EASY

● Max Score: 30 Points

Diamond of Numbers

Students at Ninja School were bored with their daily routine and wanted to try something new. So, they thought about observing patterns. While observing the patterns, they found a very interesting pattern which they wished to explore. Your task is to help the students to visualize the pattern for any given N .

Given an integer N you need to return the corresponding pattern for it.

Note: When printing elements of a row which has more than 9 elements, after every 9 start printing with 1 if you have more elements in the current row to be printed.

Input Format

First line and only line contains the integer N

Output Format

Print the pattern according to the given examples

Example 1

Input

3

Output

```
1
123
1
```

Example 2

Input

11

Output

```
1
123
12345
1234567
123456789
12345678912
123456789
1234567
12345
123
1
```

Constraints

$1 \leq N \leq 499$, N is always odd

Topic Tags

- Math
- Conditionals

My code

// in java

```
import java.util.*;
import java.lang.*;
import java.io.*;
```

```

public class Main
{
    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++)
        {
            if(i<=(n+1)/2){
                for(int k=n/2;k>=i;k--)
                    System.out.print(" ");
                for(int j=1;j<=(2*i-1);j++)
                    System.out.print((j-1)%9+1);
                System.out.print("\n");
            }
            else
            {
                for(int j=n/2+1;j<=i;j++)
                    System.out.print(" ");
                for(int k=1;k<=(2*n)-(2*i-1);k++)
                    System.out.print((k-1)%9+1);
                System.out.print("\n");
            }
        }
    }
}

```