

<https://course.acciojob.com/idle?question=1e6684b7-794b-464b-8155-db6297fec48c>

- MEDIUM

- Max Score: 40 Points

Print Pattern

Print a sequence of numbers starting with N where $A[0] = N$, *without using loop*, in which $A[i+1] = A[i] - 5$, until $A[i] > 0$. After that $A[i+1] = A[i] + 5$. Repeat it until $A[i] = N$.

You have to complete `printPattern` function which consists of single integer input n and you need to print the required pattern in the same function only

Input Format

The first line of the input contains the integer N .

Output Format

Print the corresponding pattern.

Example 1

Input:

16

Output:

16 11 6 1 -4 1 6 11 16

Explanation:

The value decreases until it is greater than 0. After that, it increases and stops when it becomes 16 again.

Example 2

Input:

10

Output:

10 5 0 5 10

Explanation:

It follows the same logic as per the above example.

Constraints

$1 \leq N \leq 10^4$

Topic Tags

- **Recursion**

My code

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

public class Main
{
    static void fun(int n)
```

```
{
    System.out.print(n+" ");
    if(n>0)
        fun(n-5);
    if(n>0)
        System.out.print(n+" ");
}
```

```
        public static void main (String[] args) throws
java.lang.Exception
```

```
    {
        //your code here
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        fun(n);

    }
}
```