

Pework Assignment



Question 1 : First Letter Printer

You are provided with a string.

Your task is to create a string with the first letter of every word in the string.

Sample Test Case

Input:

great learning

Output:

gl

Test case 1

Input:

When nothing goes right, go left.

Output:

Wngrgl

Test case 2

Input:

change the world by being yourself.

Output:

ctwbby

Test case 3

Input:

dream without fear. Love without Limits.

Output:

dwfLwL

Stub code

```
import java.util.Scanner;
```

```
class FirstLetterPrinter {  
    public static void main (String[] args) {  
        Scanner in = new Scanner(System.in);  
        String input = in.nextLine();  
        System.out.println(firstLetterPrinter(input));  
    }  
    static String firstLetterPrinter(String str) {  
        // write your code here  
  
    }  
}
```

Pework Assignment



Question 2: Find Missing Number

You are provided with an array of the size $n-1$. It contains distinct integers in the range of 1 to n . Your task is to find the missing number.

Input format:

Line 1 will take the value of n .

Line 2 will take the array's contents where numbers will be in the 1- n range.

Sample Test case:

5

1 2 3 4

Output:

4

Test case 1

Input:

10

1

2

3

4

5

6

7

8

9

Output:

10

Test case 2

Input:

7

1

3

4

5

6

7

Output:

2

Test case 3

Pework Assignment



Input:

6
1
2
3
5
6

Output:

4

Stub code

```
import java.util.Scanner;

class MissingNumberFinder {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        int size = in.nextInt();
        int[] arr = new int[size-1];
        for(int i=0;i<size-1;i++)
            arr[i] = in.nextInt();
        System.out.println(missingNumberFinder(arr, size));
    }

    static int missingNumberFinder(int array[], int n) {
        // write your code here
    }
}
```

Pework Assignment



Question 3: Pattern Printer

Your task is to print the following pattern for a given n value.

For n=2,

pattern is:

2 2 1 1

2 1

For n=3

pattern is:

3 3 3 2 2 2 1 1 1

3 3 2 2 1 1

3 2 1

Sample Test Case

Input:

2

Output:

2 2 1 1

2 1

Test case 1

Input:

5

Output:

5 5 5 5 4 4 4 4 3 3 3 3 2 2 2 2 1 1 1 1 1

5 5 5 4 4 4 4 3 3 3 2 2 2 1 1 1 1

5 5 4 4 4 3 3 3 2 2 1 1 1

5 5 4 3 3 2 2 1 1

5 4 3 2 1

Test case 2

Input:

0

Output:

Test case 3

Input:

7

Output:

Pework Assignment



```
77777776666665555554444443333332222221111111
77777766666655555444443333322222111111
77777666665555544443333222211111
7777666655554443332221111
77766655544433222111
77665544332211
7654321
```

Stub code

```
import java.util.Scanner;

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

    static void patternPrinter(int n) {
        // write your code here
    }
}
```