

# Rajalakshmi Engineering College

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Batch: 2028

Degree: B.E - CSE

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 12\_Q2

Attempt : 1

Total Mark : 10

Marks Obtained : 10

#### **Section 1 : Coding**

##### **1. Problem Statement**

Alex is learning about Java's functional interfaces and lambda expressions.

He wants to write a simple program that prints the square of each number in an array using a predefined functional interface.

Help Alex complete this task using the Consumer functional interface.

##### ***Input Format***

- The first line contains an integer N, the number of elements in the array.
- The second line contains N space-separated integers.

##### ***Output Format***

- Print the squares of all elements in the array, separated by a space.

Refer to the sample output for formatting specifications.

**Sample Test Case**

Input: 4

1 2 3 4

Output: 1 4 9 16

**Answer**

```
import java.util.*;
public class Main{
    public static void main(String []args){
        Scanner in =new Scanner(System.in);
        int n=in.nextInt();
        int arr[]=new int[n];
        for(int i=0;i<n;i++) arr[i]=in.nextInt();
        arr=Arrays.stream(arr).map(num->num*num).toArray();
        for(int no : arr) System.out.print(no+" ");
    }
}
```

**Status :** Correct

**Marks :** 10/10