

# Rajalakshmi Engineering College

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Branch: REC

Department: CSE - Section 1

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**

// You are using Java

import java.util.\*;

import java.util.function.Consumer;

class Main{

public static void main(String[]args){

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int[]arr=new int[n];

for(int i=0;i<n;i++){

arr[i]=sc.nextInt();

}

Consumer<Integer>printSquare=x->System.out.print((x\*x)+" ");

for(int x:arr){

printSquare.accept(x);

}

}

}

**Status : Correct**

**Marks : 10/10**