

# Rajalakshmi Engineering College

Name: KEVIN INFANT P A  
Email: 241001116@rajalakshmi.edu.in  
Roll no: 241001116  
Phone: 9384967955  
Branch: REC  
Department: IT - Section 2  
Batch: 2028  
Degree: B.E - IT

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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> square = num -> System.out.print(num\*num+ " ");

for (int num : arr) {

square.accept(num);

}

sc.close();

}

}

**Status : Correct**

**Marks : 10/10**