

# Rajalakshmi Engineering College

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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.*;
import java.util.function.Consumer;
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();
        }
        Consumer<Integer> printsquare=x->System.out.print((x*x)+ " ");
        for(int i=0;i<n;i++)
            printsquare.accept(arr[i]);
    }
}
```

**Status : Correct**

**Marks : 10/10**