

# Rajalakshmi Engineering College

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Branch: REC

Department: CSE - Section 9

Batch: 2028

Degree: B.E - CSE

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

### 2028\_REC\_OOPS using Java\_Week 12\_Q1

Attempt : 1

Total Mark : 10

Marks Obtained : 10

### Section 1 : Coding

#### 1. Problem Statement

Sabrina is working on a project that involves analyzing a set of numbers. In her exploration, she encounters scenarios where extracting even numbers and finding their sum is essential.

Create a program that calculates the sum of even numbers from a given array of integers using a lambda expression.

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

The first line of input consists of an integer N, representing the size of the array.

The second line consists of N space-separated integers, representing the elements of the array.

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

The output prints the sum of the even integers from the array.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 3

29 37 45

Output: 0

### **Answer**

```
import java.util.*;
import java.util.function.*;
import java.util.stream.*;
class Solution{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        int n=Integer.parseInt(sc.nextLine());
        int[]arr=Arrays.stream(sc.nextLine().trim().split("
")).mapToInt(Integer::parseInt).toArray();
        IntPredicate isEven=x->x%2==0;
        int sum=Arrays.stream(arr).filter(isEven).sum();
        System.out.print(sum);
    }
}
```

**Status :** Correct

**Marks :** 10/10