# Rajalakshmi Engineering College

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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*

```java
import java.util.Scanner;
import java.util.stream.IntStream;

class Solution {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        int N = scanner.nextInt();

        int[] arr = new int[N];
        for (int i = 0; i < N; i++) {
            arr[i] = scanner.nextInt();
        }

        long sumOfEvens = IntStream.of(arr)
            .filter(x -> x % 2 == 0)
            .mapToLong(x -> x)
            .sum();

        System.out.println(sumOfEvens);

        scanner.close();
    }
}
```

*Status :* Correct                                              *Marks : 10/10*