https://course.acciojob.com/idle?question=51efaeab-1411-48fc-ae36 -d2d70cad0edd

EASY

Max Score: 30 Points

Range Sum Query

Given an integer array nums, handle multiple queries of the following type:

Calculate the sum of the elements of nums between indices left and right inclusive where left <= right.

Input Format

Input consists of 4 lines.

First line contains an integer n.

Next line contains n spaced integers that denote the array

Next line contains integer m which is the number of queries for to calculate range sum.

Next m lines contains 2 integers each which denotes left and right.

Example 1

```
Input
```

```
6

-2 0 3 -5 2 -1

3

0 2

2 5

0 5
```

Output

```
1 -1 -3
```

Explanation

```
NumArray numArray = new NumArray([-2, 0, 3, -5, 2, -1]);

numArray.sumRange(0, 2); // return (-2) + 0 + 3 = 1

numArray.sumRange(2, 5); // return 3 + (-5) + 2 + (-1) = -1

numArray.sumRange(0, 5); // return (-2) + 0 + 3 + (-5) + 2 + (-1) = -3
```

Constraints

```
1 <= nums.length <= 104
-105 <= nums[i] <= 105
0 <= left <= right < nums.length</pre>
```

At most 104 calls will be made to sumRange.

Topic Tags

Arrays

My code

```
// in java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
    public static void main (String[] args) throws java.lang.Exception
```

```
{
           //your code here
            Scanner s=new Scanner(System.in);
            int n=s.nextInt();
            int arr[]=new int[n];//it contain prefix sum
            int sum=0;
            for(int i=0;i< n;i++)
                  {
                       sum+=s.nextInt();
                       arr[i]=sum;
            int k=s.nextInt();
            for(int I=0;I< k;I++)
                  {
                       int a=s.nextInt();
                       int b=s.nextInt();
                       if(a==0)
                             System.out.print(arr[b]+" ");
                       else
                             System.out.print(arr[b]-arr[a-1]+" ");
                  }
     }
}
```