**Sum of elements between k1'th and k2'th smallest elements**

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Given an array of integers and two numbers k1 and k2. Find sum of all elements between given two k1’th and k2’th smallest elements of array. It may be assumed that (1 <= k1 < k2 <= n) and all elements of array are distinct.

**Input:**  
The first line of input contains an integer T denoting the no of test cases. Then T test cases follow. Each test case contains an integer N, denoting the length of the array. Next line contains N space seperated integers of the array. Third line contains two space seperated integers denoting k1'th and k2'th smallest elements.

**Output:**  
For each test case in a new line output the sum of all the elements between k1'th and k2'th smallest elements.  
  
**Constraints:**  
1<= T <= 100  
1<= k1< K2 <= N <=50

**Example:**

**Input**

2  
7  
20 8 22 4 12 10 14  
3 6  
6  
10 2 50 12 48 13  
2 6

**Output**

26  
73

**Explanation:**

Test Case 1 -  
3rd smallest element is 10  
6th smallest element is 20  
Sum of all element between k1 & k2 is 12 + 14 = 26

\*\*For More Examples Use Expected Output\*\*

<http://practice.geeksforgeeks.org/problems/sum-of-elements-between-k1th-and-k2th-smallest-elements/0>

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package javaapplication249;

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

import java.util.ArrayList;

import java.util.Arrays;

import java.util.Collections;

import java.util.HashSet;

/\*\*

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\* @author Administrador

\*/

public class JavaApplication249 {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) throws IOException {

// TODO code application logic here

//int arr[] = {2, 4, 5};

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

int t = Integer.parseInt(br.readLine());

while(t-- > 0) {

int n = Integer.parseInt(br.readLine());

String[] input = br.readLine().trim().split(" ");

int[] arr = new int[n];

for(int i =0; i<n; i++){

arr[i] = Integer.parseInt(input[i]);

}

String[] kk = br.readLine().trim().split(" ");

int k1 = Integer.parseInt(kk[0]);

int k2 = Integer.parseInt(kk[1]);

Arrays.sort(arr);

int sum =0;

for(int i =k1; i<k2-1; i++) {

sum += arr[i];

}

System.out.println(sum);

}

/\*

int[] arr = { 898, 259, 517, 134, 9 ,450, 14 ,88 ,915, 533, 151 ,154 ,669 ,810, 685, 430, 49 ,948, 314 ,571, 63 ,194 ,837 ,503, 334 ,851, 596, 597, 216 ,475, 92 ,861, 357, 356 ,101, 618, 364, 365, 366, 627, 245, 119, 782 ,84 ,893, 789};

Arrays.sort(arr);

for(int elem : arr) {

System.out.print(elem + " ");

}\*/

}

}