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Question text 1

Coders here is a simple task for you, you have given an array of size N and an integer M.

Your task is to calculate the *difference between maximum sum and minimum sum of N-M* elements of the given array.

Constraints:

1<=t<=10

1 <= n <= 1000

1<=a[i]<=1000

Input:

First line contains an integer *T* denoting the number of testcases.

First line of every testcase contains two integer *N* and *M*.

Next line contains N space separated integers denoting the elements of array

Output:

For every test case print your answer in new line

SAMPLE INPUT

1

5 1

12345

SAMPLE OUTPUT

764

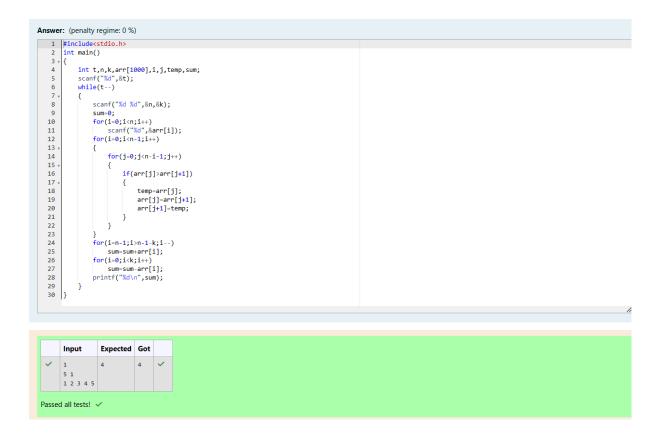
Explanation

M is 1 and N is 5 so you have to calculate maximum and minimum sum using (5-1 =) 4 elements.

Maximum sum using the 4 elements would be (2+3+4+5=)14.

Minimum sum using the 4 elements would be (1+2+3+4=)10.

Difference will be 14-10=4



Question text 2

A new deadly virus has infected large population of a planet. A brilliant scientist has discovered a new strain of virus which can cure this disease. Vaccine produced from this virus has various strength depending on midichlorians count. A person is cured only if midichlorians count in vaccine batch is more than midichlorians count of person. A doctor receives a new set of report which contains midichlorians count of each infected patient, Practo stores all vaccine doctor has and their midichlorians count. You need to determine if doctor can save all patients with the vaccines he has.

The number of vaccines and patients are equal.

Input Format

First line contains the number of vaccines - N. Second line contains N integers, which are strength of vaccines. Third line contains N integers, which are midichlorians count of patients.

Output Format

Print a single line containing 'Yes' or 'No'.

Input Constraint

1 < N < 10

Strength of vaccines and midichlorians count of patients fit in integer.

SAMPLE INPUT

5

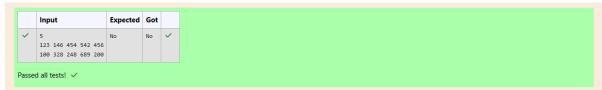
123 146 454 542 456

100 328 248 689 200

SAMPLE OUTPUT

No

```
1 |#include<stdio.h>
             int n,i;
int canCure=1;
scanf("%d",&n);
int vaccines[n],patients[n];
for(int i=0;icn;i++)
    scanf("%d",&vaccines[i]);
for(i=0;i<n;i++)
    scanf("%d",&patients[i]);
for(i=0;i<n-1;i++)</pre>
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31
                     for(int j=0;j<n-i-1;j++)</pre>
                            if(vaccines[j]>vaccines[j+1])
                                    vaccines[j]=vaccines[j+1];
vaccines[j+1]=temp;
                              if(patients[j]>patients[j+1])
                                    int temp=patients[j];
                                     patients[j]=patients[j+1];
                                     patients[j+1]=temp;
                for(i=0;i<n;i++)
                      if(vaccines[i]<=patients[i])</pre>
33
34
35
36
37
38
39
40
                             canCure=0;
                            break;
              if (canCure){
   printf("Yes\n");
41
42
43
                      printf("No\n");
```



Question text 3

You are given an array of n integer numbers $a1, a2, \ldots, an$. Calculate the number of pair of indices (i, j) such that $1 \le$

 $i < j \le n$ and $ai \times aj = 0$.

Input format

- First line: n denoting the number of array elements
- Second line: n space separated integers a1, a2, ..., an.

Output format

Output the required number of pairs.

Constraints

 $1 \le n \le 106$

 $1 \le ai \le 109$

SAMPLE INPUT

5

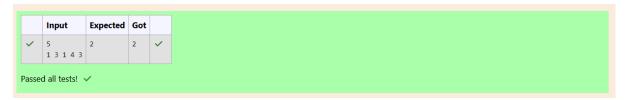
13143

SAMPLE OUTPUT

2

Explanation

The 2 pair of indices are (1, 3) and (2,5)



Question text 4

You are given an array A of non-negative integers of size m. Your task is to sort the array in non-decreasing order and print out the original indices of the new sorted array.

Example:

$$A = \{4,5,3,7,1\}$$

After sorting the new array becomes $A=\{1,3,4,5,7\}$.

The required output should be "4 2 0 1 3"

INPUT:

The first line of input consists of the size of the array The next line consists of the array of size m

OUTPUT:

Output consists of a single line of integers

CONSTRAINTS:

1 <= m <= 106

0<=*A[i]*<=*106*

NOTE: The indexing of the array starts with 0.

SAMPLE INPUT

5

45371

SAMPLE OUTPUT

42013

```
#include<stdio.h>
int main()

{
    int m,a[100000],b[100000],i,j,temp;
    scanf("%d",%m);
    for(ii =0;i<m;i++)
    {
        scanf("%d",%a[i]);
        b[i]=i;
    }

    for(i=0;i<m-1;i++)
    {
        if(a[j]>a[j+1])
        {
            temp=a[j];
            a[j]=a[j+1];
            a[j]=a[j+1];
            a[j]=b[j+1];
            b[j]=b[j+1];
            b[j+1]=temp;
            carefully a printf("%d",b[i]);
            carefully a printf("%d",b[i]);
```

	Input	Expected	Got	
~	5 4 5 3 7 1	4 2 0 1 3	4 2 0 1 3	~
Passed all tests! ✓				