

# **EasyGoing**

### **ProblemStatement:**

Codershereisasimpletaskforyou,youhavegivenanarrayofsizeNandanintegerM. 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

### InputFormat:

FirstlinecontainsanintegerTdenotingthenumberoftestcases. First

line of every testcase contains two integerN and M.

Nextlinecontains Nspace separated integers denoting the elements of array

### Output:

Foreverytestcaseprintyouranswerinnewline

SampleInput

1

51

12345

# Sample Output

4

### 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.

#### **Program:** #include<stdio.h> 2 int main() 3 { int t; 4 scanf("%d",&t); 5 while(t--) 6 7 int n,m,d,min,temp; 8 scanf("%d %d",&n,&m); 9 d=n-m;10 int arr[n]; 11 for(int i=0;i<n;i++) scanf("%d",&arr[i]); 12 13 for(int j=0;j<n;j++)</pre> 14 , { 15 min=j; for(int k=j;k<n;k++) 16 17 18 if(arr[k]<arr[min]) 19 min=k; 20 21 22 temp=arr[min]; 23 arr[min]=arr[j]; 24 arr[j]=temp; 25 26 int maxsum=0, minsum=0; 27 for(int a=0;a<d ;a ++) 28 minsum+=arr[a]; 29 for(int b=n-1;b>m-1;b--) maxsum+=arr[b]; printf("%d\n",maxsum-minsum); 30 31 32 }} 33 34 35 36 37 38 39 **Expected** Got Input 4 1 5 1 1 2 3 4 5 Passed all tests! ~

### Sortitout!

### **ProblemStatement:**

Youaregivenanarray Aofnon-negative integers of sizem. Your task is to sort the array innondecreasing order and printout the original indices of the newsorted array.

Example:

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

AftersortingthenewarraybecomesA={1,3,4,5,7}.

The required outputshould be "42013"

InputFormat:

Thefirst lineofinput consists of the size of the array The next line consists of the array of size m

OutputFormat:

Outputconsistsofasinglelineofintegers

Constraints:

1<=m<=106

0 <= A[i] <= 106

NOTE: The indexing of the array starts with 0.

SampleInput

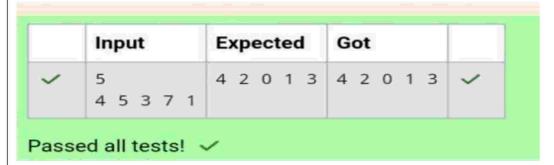
5

45371

Sample Output

42013

```
Program:
       #include<stdio.h>
    1
    2
       int main()
    3 v
       {
    4
            int n;
    5
            scanf("%d",&n);
            int arr[n];
    6
    7
            for(int i=0;i<n;i++)
            scanf("%d",&arr[i]);
    8
    9
            int max=arr[0];
   10
            for(int i=1;i<n;i++)
   11 v
            {
   12
                 if(arr[i]>max)
                 max=arr[i];
   13
   14
   15
            max++;
   16
            int min=0;
            for(int a=0;a<n;a++)
   17
   18 *
            {
                 for (int b=0;b<n;b++)
   19
   20 v
                 {
   21
                     if(arr[b] < arr[min])</pre>
   22
                     min=b;
   23
   24
   25
                 printf("%d ",min);
   26
            arr [min]=max;
   27
            }
   28
       1}
```



### **SavePatients**

### **ProblemStatement:**

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.

### InputFormat

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.

### OutputFormat

Printasinglelinecontaining'Yes'or'No'.

## InputConstraint

1 < N < 10

Strengthofvaccinesandmidichlorianscountofpatientsfitininteger.

SampleInput

5

123146454542456

100328248689200

Sample Output

No

```
Program:
       #include<stdio.h>
       int main()
    2
    3 .
       {
    4
            int n,min1,min2,temp,flag=1;
    5
            scanf("%d",&n);
    6
            int vac[n],pat[n];
            for(int i=0;i<n;i++)
    7
    8
    9
                scanf("%d", &vac[n]);
   10
   11
            for(int i=0;i<n;i++)
            scanf("%d",&pat[n]);
   12
   13
            for(int j=0; j< n-1; j++)
   14
   15 +
   16
                min1=j,min2=j;
   17
                for (int k=j;k< n;k++)
   18 +
                {
   19
                    if(vac[k]<vac[min1])</pre>
   20
                min1=k;
   21
                if(pat[k]<pat[min2])
   22
                min2=k;
   23
   24
                temp=vac[min1];
   25
                vac[min1]=vac[j];
   26
                vac[j]=temp;
   27
                temp=pat[min2];
   28
                pat[min2]=pat[j];
   29
                pat[j]=temp;
   30
   31
            for(int i=0;i<n;i++)
   32
   33
   34
                if(vac[i] <= pat[i])
   35
                {
   36
                     flag=0;
   37
                    break;
   38
   39
                }
   40
   41
   42
            if(flag==1)
            printf("Yes");
   43
   44
            else
            printf("No");
   45
   46
   47
      }
       Input
                            Expected
                                      Got
                            No
                                      No
       123 146 454 542 456
       100 328 248 689 200
 Passed all tests! <
```

# ShubhamandXor

### **ProblemStatement:**

Youaregivenanarrayofnintegernumbersa1,a2,...,an.Calculatethenumberofpair ofindices(i,j)suchthat $1 \le i < j \le n$ andaixoraj=0.

# Inputformat

- Firstline:ndenotingthenumberofarrayelements
- Secondline:nspaceseparatedintegersa1,a2,...,an.

### Outputformat

Outputtherequired number of pairs.

Constraints

1≤n≤106

1≤ai≤109

SampleInput

5

13143

Sample Output

2

Explanation

The2pairofindicesare(1,3)and(2,5).

```
Program:
        #include<stdio.h>
     2
        int main()
        {
     4
             int n,count=0;
             scanf("%d",&n);
     5
     6
             int arr[n];
     7
             for(int i=0;i<n;i++)
             scanf("%d",&arr[i]);
     8
             for(int i=0;i<n-1;i++)
     9
    10 +
                  for(int j=i+1;j<n;j++)</pre>
    11
    12 *
                      if((arr[i]^arr[j])==0)
    13
    14
                      count++;
    15
    16
                  }
    17
    18
             printf("%d",count);
    19
    20
```

	Input	Expected	Got	
~	5 1 3 1 4 3	2	2	~
asse	d all tests! 、	/		