GE23131-Programming Using C-2024





Question **1**Correct
Marked out of 1.00

F Flag question

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

4

```
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.
Answer: (penalty regime: 0 %)
   1 #include <stdio.h>
      int main(){
           int t;
   4
           scanf("%d",&t);
           while(t--){
   5
   6
                int n,m,d,min,temp;
   7
                scanf("%d%d",&n,&m);
   8
                d=n-m;
   9
                int arr[n];
  10
                for(int i=0;i<n;i++){</pre>
                    scanf("%d",&arr[i]);
  11
  12
  13
                for(int j=0;j<n;j++){</pre>
  14
                    min=j;
  15
                    for(int k=j;k<n;k++){</pre>
  16
                        if(arr[k]<arr[min])</pre>
  17
                        min=k;
  18
  19
                    temp=arr[min];
  20
                    arr[min]=arr[j];
  21
                    arr[j]=temp;
  22
  23
                int maxsum=0,minsum=0;
  24
                for(int a=0;a<d;a++)</pre>
  25
                minsum+=arr[a];
  26
                for(int b=n-1;b>m-1;b--)
  27
                maxsum+=arr[b];
  28
                printf("%d\n", maxsum-minsum);
  29
  30 }
```

Passed all tests!

Question 2

REC-CIS

▼ Flag question

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

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
 2 int main(){
3
        int n,min1,min2,temp,flag=1;
        scanf("%d",&n);
 5
        int vac[n],pat[n];
        for(int i=0;i<n;i++)</pre>
 6
7
        scanf("%d",&vac[i]);
        for(int i=0;i<n;i++)</pre>
 8
 9
        scanf("%d",&pat[i]);
        for(int j=0;j<n-1;j++){</pre>
10
11
             min1=j;
```

REC-CIS

```
min1=k;
15
16
                 if(pat[k]<pat[min2])</pre>
17
                 min2=k;
18
19
             temp=vac[min1];
20
             vac[min1]=vac[j];
21
             vac[j]=temp;
22
             temp=pat[min2];
23
             pat[min2]=pat[j];
24
             pat[j]=temp;
25
26
         for(int i=0;i<n;i++){</pre>
27
             if(vac[i]<=pat[i]){</pre>
28
                  flag=<mark>0</mark>;
29
                 break;
30
31
         if(flag==1)
32
33
         printf("Yes");
34
         else
35
         printf("No");
36 }
```

	Input	Expected	Got	
	5 123 146 454 542 456 100 328 248 689 200	No	No	
Passed all tests!				

Question **3**Correct
Marked out of 1.00

Flag question

You are given an array of n integer numbers a_1, a_2, \ldots, a_n . Calculate the number of pair of indices (i, j) such that $1 \le i < j \le n$ and a_i xor $a_j = 0$.

Input format

- First line: *n* denoting the number of array elements
- Second line: n space separated integers a_1, a_2, \ldots, a_n .

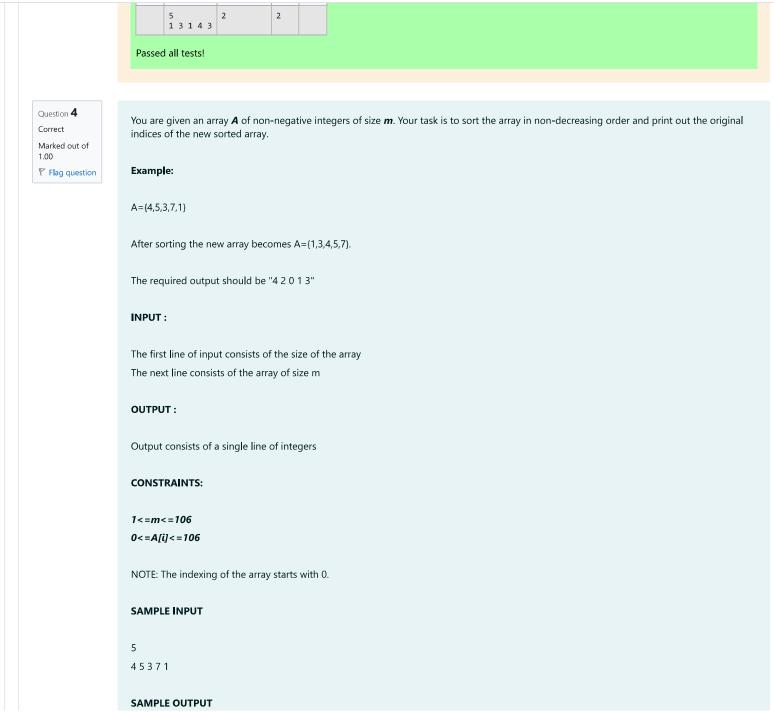
Output format

Output the required number of pairs.

Constraints

```
1 \le a_i \le 10^9
SAMPLE INPUT
5
13143
SAMPLE OUTPUT
2
Explanation
The 2 pair of indices are (1, 3) and (2,5).
Answer: (penalty regime: 0 %)
   1 #include <stdio.h>
   2 int main(){
           int n,count=0;
           scanf("%d",&n);
           int arr[n];
           for(int i=0;i<n;i++)</pre>
           scanf("%d",&arr[i]);
           for(int i=0;i<n-1;i++){
   8
               for(int j=i+1;j<n;j++){</pre>
   9
                   if((arr[i]^arr[j])==0)
   10
   11
                   count++;
   12
   13
   14
           printf("%d",count);
   15 }
```

REC-CIS



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

Finish review