Status	Finished
Started	Thursday, 26 December 2024, 8:17 PM
Completed	Thursday, 26 December 2024, 8:50 PM
Durativn	32 mins 55 secs

Questivn 1

Correct

Marked out of 1.00

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question

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

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 vf every testcase cvntains twv integer N and M. Next line cvntains N space separated integers denvting the elements vf array

## Output:

For every test case print your answer in new line

SAMPLE INPUT

1

51

12345

SAMPLE OUTPUT

4

# Explanativn

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 %)

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

	Input	Expected	Got	
~	1	4	4	/
	5 1			
	1 2 3 4 5			

Passed all tests! <

Questivn **2**Currect

Marked vut vf 1.00

P Flag question 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 dvctvr receives a new set of report which contains widichlorians 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

### Answer: (penalty regime: 0 %)

```
|#include<stdio.h>
2
   int main()
3 + {
4
       int n,min1,min2,temp,flag=1;
5
       scanf("%d",&n);
6
       int vac[n],pat[n];
7
       for(int i=0;i<n;i++)
8
       scanf("%d",&vac[i]);
9
       for(int i=0;i<n;i++)
```

```
The minimum , mana, comp, rade i,
 5
         scanf("%d",&n);
 6
         int vac[n],pat[n];
 7
         for(int i=0;i<n;i++)
 8
         scanf("%d",&vac[i]);
 9
         for(int i=0;i<n;i++)</pre>
10
         scanf("%d",&pat[i]);
         for(int j=0;j<n-1;j++)
11
12 *
13
              min1=j,min2=j;
              for(int k=j;k<n;k++)</pre>
14
15 •
16
                  if(vac[k]<vac[min1])</pre>
17
                  min1=k;
18
                  if(pat[k]<pat[min2])</pre>
19
                  min2=k;
20
              }
              temp=vac[min1];
21
22
              vac[min1]=vac[j];
23
              vac[j]=temp;
24
              temp=pat[min2];
25
              pat[min2]=pat[j];
26
             pat[j]=temp;
27
28
         for(int i=0;i<n;i++)</pre>
29 *
30
              if(vac[i]<=pat[i])</pre>
31
              {
                  flag=0;
32
33
                  break;
34
              }
35
         if(flag==1)
36
         printf("Yes");
37
38
39
         printf("No");
40 }
```

	Input	Expected	Gvt	
~	5	No	No	~
	123 146 454 542 456			
	100 328 248 689 200			

Questivn 3
Correct
Marked out of 1.00
P 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  $a_i \times a_j = 0$ .

#### Input format

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

#### Output format

# Output format

Output the required number of pairs.

### Constraints

 $1 \le n \le 10^6$  $1 \le a_1 \le 10^9$ 

### 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()
 3 ₹ {
         int n,count=0;
 4
 5
         scanf("%d",&n);
 6
         int arr[n];
 7
         for(int i=0;i<n;i++)</pre>
         scanf("%d",&arr[i]);
 8
 9
         for(int i=0;i<n-1;i++)</pre>
10 *
11
             for(int j=i+1;j<n;j++)</pre>
12 *
             {
13
                 if((arr[i]^arr[j])==0)
14
                 count++;
15
             }
16
17
        printf("%d",count);
18 }
```

	Input	Expected	Gvt	
~	5 1 3 1 4 3	2	2	~

Questivn 4

Correct

Marked out of 1.00

P Flag

question

You are given an array  $\mathbf{A}$  of non-negative integers of size  $\mathbf{m}$ . 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 syrting the new array becomes  $A = \{1,3,4,5,7\}$ .

The required output should be "42013"

### 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[t]<=106

NOTE: The indexing of the array starts with 0.

#### SAMPLE INPUT

5

45371

D--4[1]--100

NOTE: The indexing of the array starts with 0.

### SAMPLE INPUT

5 45371

### SAMPLE OUTPUT

42013

# Answer: (penalty regime: 0 %)

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

	Input	Expected	Gvt	
~	5 4 5 3 7 1	4 2 0 1 3	4 2 0 1 3	~

Passed all tests! ✓