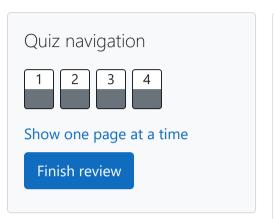
# GE23131-Programming Using C-2024



Status	Finished	
Started	Started Friday, 10 January 2025, 6:28 PM	
Completed	Friday, 10 January 2025, 7:09 PM	
Duration	41 mins 29 secs	

Question 1

Correct

Marked out of 1.00

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:**

# Input:

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

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

# **Output:** For every test case print your answer in new line SAMPLE INPUT 1 5 1 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. **Answer:** (penalty regime: 0 %) 1 #include<stdio.h> int main()

```
while(t--)
 7 🔻
 8
             int n,m,d,min,temp;
             scanf("%d %d",&n,&m);
 9
             d=n-m;
10
             int arr[n];
11
             for(int i=0;i<n;i++)</pre>
12
13 🔻
                  scanf("%d",&arr[i]);
14
15
             for(int j=0;j<n;j++)</pre>
16
17 1
18
                  min=j;
19
                  for(int k=j;k<n;k++)</pre>
20 1
21
                      if(arr[k]<arr[min])</pre>
22 🔻
23
                          min=k;
24
25
                 temp=arr[min];
26
                  arr[min]=arr[j];
27
28
                  arr[j]=temp;
29
30
             int maxsum=0,minsum=0;
             for(int a=0;a<d;a++)</pre>
31
32 •
                 minsum=minsum+arr[a];
33
34
35
             for(int b=n-1;b>m-1;b--)
36 1
                 maxsum=maxsum+arr[b];
37
38
39
             printf("%d\n", maxsum-minsum);
40
41
```



Question **2** 

Correct

Marked out of 1.00

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 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**

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>
    int main()
 2
 3 ▼ {
         int n,min1,min2,temp,flag=1;
         scanf("%d",&n);
         int vac[n],pat[n];
         for(int i=0;i<n;i++)</pre>
 8 ,
             scanf("%d",&pat[n]);
 9
10
11
         for(int j=0;j<n;j++)</pre>
12 🔻
13
             min1=j,min2=j;
14
             for(int k=i:k<n:k++)
```

```
18
                 if(pat[k]<pat[min2])</pre>
19
                 min2=k;
20
21
             temp=vac[min1];
             vac[min1]=vac[j];
22
23
             vac[j]=temp;
24
             temp=pat[min2];
25
             pat[min2]=pat[j];
26
             pat[j]=temp;
27
         for(int i=0;i<n;i++)</pre>
28
29 1
             if(vac[i]<=pat[i])</pre>
30
31 🔻
32
                 flag=0;
33
                 break;
34
35
         if(flag==1)
36
37 🔻
             printf("Yes");
38
39
         else
40
41 1
42
             printf("No");
43
44
```

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

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**

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

$$1 \leq a_i \leq 10^9$$

# **SAMPLE INPUT**

5

13143

### **SAMPLE OUTPUT**

# Explanation

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

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

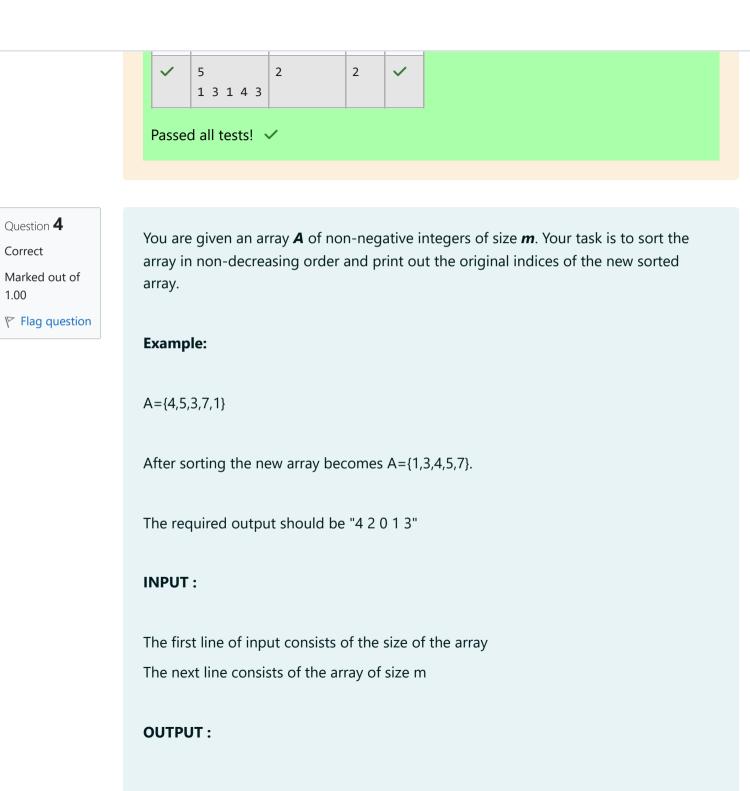
```
#include<stdio.h>
    int main()
 2
 3 🔻
         int n,count=0;
 4
         scanf("%d",&n);
         int arr[n];
 6
         for(int i=0;i<n;i++)</pre>
         scanf("%d",&arr[i]);
 8
 9
         for(int i=0;i<n-1;i++)</pre>
10 •
             for(int j=i+1;j<n;j++)</pre>
11
12 🔻
                 if((arr[i]^arr[j])==0)
13
                 count++;
14
15
16
17
         printf("%d",count);
18
```

Question **4** 

Marked out of

Correct

1.00



### **CONSTRAINTS:**

1<=m<=106

0 < =A[i] < =106

NOTE: The indexing of the array starts with 0.

#### **SAMPLE INPUT**

5 45371

#### **SAMPLE OUTPUT**

42013

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

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

int main()

int n;

scanf("%d",&n);

int(arr[n]);

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

scanf("%d",&arr[i]);

int max=arr[0];

for(int i=1;i<n;i++)

if(arr[i]>max)
```

```
16
         int min=0;
         for(int a=0;a<n;a++)</pre>
17
18 🔻
             for(int b=0;b<n;b++)</pre>
19
20 🔻
21
                  if(arr[b]<arr[min])</pre>
22
                  min=b;
23
24
             printf("%d ",min);
25
             arr[min]=max;
26
27 }
```

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

Passed all tests! ✓

Finish review