### Weak 08

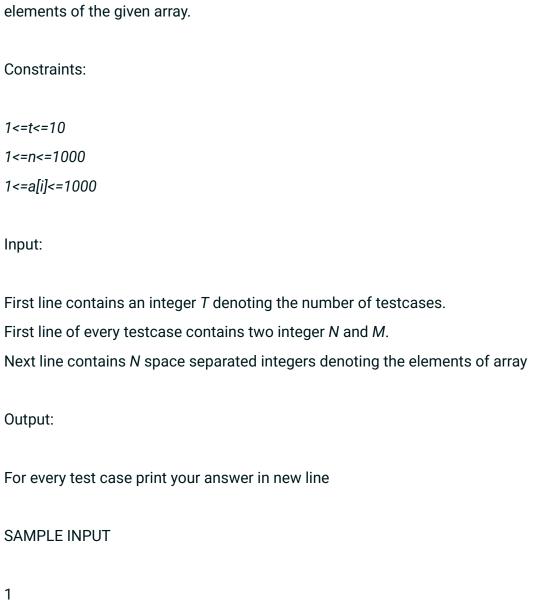
$\sim$	1:	$\sim 4$	
	IDETION	117	٠.
ωı	uestion	vi	٠.

51

12345

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.



#### 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:



in Coding: Attempt review | REC-CIS - Google Chrome

**⚠** Not secure

rajalakshmicolleges.org/moodle/mod/quiz/review.php?

```
#include<stdio.h>
 1
    int main()
 2
    {
 3 ₹
 4
         int t;
         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++)</pre>
12
             scanf("%d",&arr[i]);
13
             for(int j=0;j<n;j++)</pre>
14
              {
15 v
16
                  min=j;
                  for(int k=j;k<n;k++)</pre>
17
18 •
                       if(arr[k]<arr[min])</pre>
19
                       min=k;
20
21
                  temp=arr[min];
22
                  arr[min]=arr[j];
23
                  arr[j]=temp;
24
25
             int maxsum=0,minsum=0;
26
```

```
for(int a=0;a<d;a++)
minsum+=arr[a];
for(int b=n-1;b>m-1;b--)
maxsum+=arr[b];
printf("%d\n",maxsum-minsum);
}

}
```

#### Output:

		Input	Expected	Got	
~		1 5 1 1 2 3 4 5	4	4	<b>~</b>
Pas	ssec	d all tests! 💉	/		

#### Question 02:

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
Program:



in Coding: Attempt review | REC-CIS - Google Chrome

**⚠** Not secure

rajalakshmicolleges.org/moodle/mod/quiz/review.php?

```
#include<stdio.h>
 1
    int main()
 2
    {
 3 ₹
         int n,min1,min2,temp,flag=1;
 4
         scanf("%d",&n);
 5
         int vac[n],pat[n];
 6
         for(int i=0;i<n;i++)</pre>
 7
         scanf("%d",&vac[i]);
 8
         for(int i=0;i<n;i++)</pre>
 9
         scanf("%d",&pat[i]);
10
11
         for(int j=0;j<n-1;j++)</pre>
12
13 •
              min1=j,min2=j;
14
              for(int k=j;k<n;k++)</pre>
15
16 1
                  if(vac[k]<vac[min1])</pre>
17
                  min1=k;
18
                  if(pat[k]<pat[min2])</pre>
19
                  min2=k;
20
21
              }
22
              temp=vac[min1];
23
              vac[min1]=vac[j];
24
              vac[i]-tomn.
```

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

#### Output:

✓ 5 123 146 454 542 456
100 328 248 689 200

#### Question 03:

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

<ul> <li>- First line: n denoting the number of array elements</li> <li>- Second line: n space separated integers a1, a2, , an.</li> </ul>
Output format
Output the required number of pairs.
Constraints
1 ≤ n ≤ 106
1 ≤ ai ≤ 109
SAMPLE INPUT
5
13143
SAMPLE OUTPUT
2
Explanation
The 2 pair of indices are (1, 3) and (2,5).  Program:

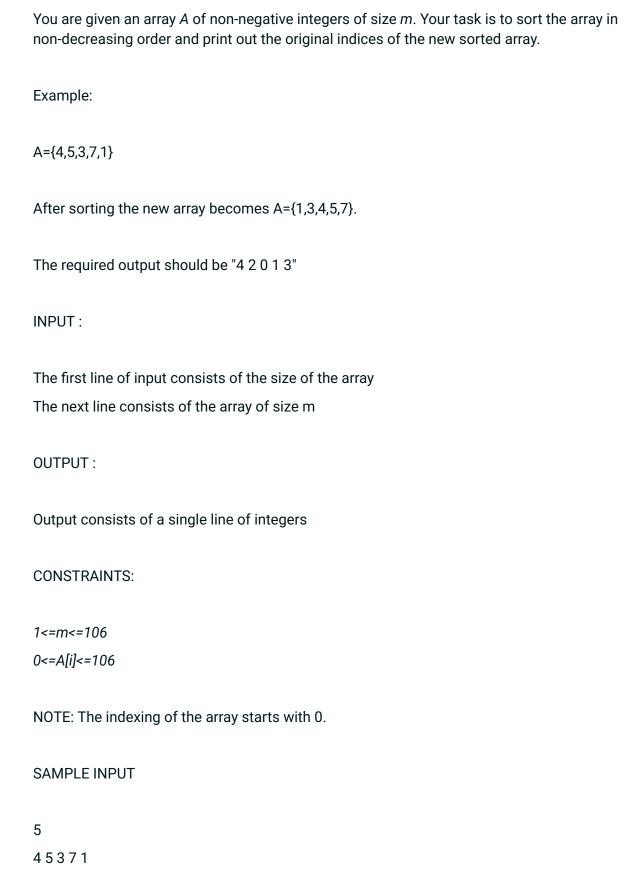
# MONISHKUMAR V 2024-CSE ■ Coding: Attempt review | REC-CIS - Google Chrome ■ Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php

```
#1nclude<stalo.n>
 2
    int main()
 3 🔻
         int n,count=0;
 4
         scanf("%d",&n);
 5
         int arr[n];
 6
         for(int i=0;i<n;i++)</pre>
 7
         scanf("%d",&arr[i]);
 8
         for(int i=0;i<n;i++)</pre>
 9
10 1
              for(int j=i+1; j<n; j++)</pre>
11
12 v
                   if((arr[i]^arr[j])==0)
13
                  count++;
14
15
16
         printf("%d",count);
17
18
```

#### Output:

	Input	Expected	Got	
~	5 1 3 1 4 3	2	2	~
Passe	d all tests! >	/		

Question 04:



#### SAMPLE OUTPUT

42013

Program:

## ▲1 MONISHKUMAR V 2024-CSE

Attempt review | REC-CIS - Google Chrome

ure

rajalakshmicolleges.org/moodle/mod/quiz/review.php

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

#### Output:

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

Passed all tests! 🗸