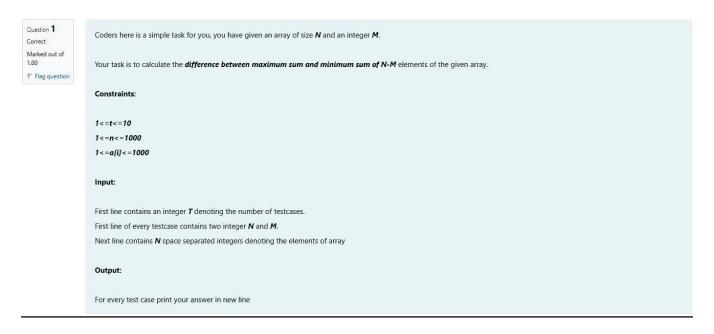
Week-08-Sorting Algorithms-Bubble and Selection

Week-08-01-Practice Session-Coding



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

Result

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

Question 2
Correct
Marked out of 1.00
F 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

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

Activate Windows
Go to Settings to activate Windows

```
#include<stdio.h>
 2
 3 +
    int main(){
 4
        int n;
        scanf("%d",&n);
 5
        int vaccine[n], mc[n];
 6
 7
        for(int i=0;i<n;i++){
 8 +
            scanf("%d",&vaccine[i]);
9
10
        for(int i=0;i<n;i++){
11 +
            scanf("%d",&mc[i]);
12
        }
13
14
15
        int count=0;
        for(int i=0;i<n;i++){</pre>
16 +
            if(vaccine[i]>mc[i]){
17 +
18
                 count++;
19
20
21 +
        if(count==n){
            printf("Yes");
22
23
        else{
24 +
25
            printf("No");
26
27
        return 0;
28
```

Result

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

Passed all tests! ✓

```
Question 3
Correct
Marked out of 1.00

Friag question
```

```
You are given an array of n integer numbers a_1, a_2, \ldots, a_n. Calculate the number of pair of indices (l, j) such that 1 \le l < j \le n and a_l 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 \le a_l \le 10^9

SAMPLE INPUT

5

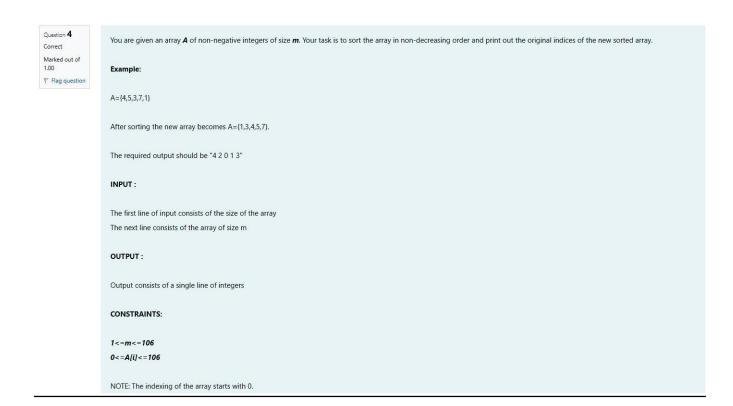
13 1 4 3

SAMPLE OUTPUT
```

```
#include<stdio.h>
 1
 2
3 v int main(){
 4
        int n;
        scanf("%d",&n);
 5
 6
        int arr[n];
 7
        for(int i=0;i<n;i++){
 8 +
            scanf("%d",&arr[i]);
 9
10
11
12
        int c=0;
        for(int i=0;i<n-1;i++){
13 +
14 v
            for(int j=0;j<n+1;j++){
15 *
                if((arr[i]^arr[j])==1){
16
                    C++;
                }
17
18
19
        printf("%d",c);
20
        return 0;
21
22
```

Result





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

Result

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

Passed all tests! <