WEEK 8

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.

```
#include<stdio.h>
 1
 2 v int main(){
 3 int t;
 4 scanf("%d",&t);
 5 ▼ while(t--){
 6 int n,m,temp,min,d;
7 scanf("%d %d",&n,&m);
8 d=n-m;
9 int arr[n];
10 * for(int i=0;i<n;i++){</pre>
11 scanf("%d",&arr[i]);
12 }
13
14 v for(int j=0;j<n;j++){
15 min=j;
16 v for(int k=j;k<n;k++){</pre>
17 v if(arr[k]<arr[min]){
18 min=k;
19
   }
20
    }
21
    temp=arr[min];
    arr[min]=arr[j];
22
    arr[j]=temp;
23
24
25
26
        int minsum=0,maxsum=0;
27
        for(int i=0;i<d;i++)</pre>
28
            minsum+=arr[i];
29
        for(int j=n-1;j>m-1;j--)
30
31
            maxsum+=arr[j];
32
33
        printf("%d\n",maxsum-minsum);
34
35
```

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

Passed all tests! <

Question **2**Correct
Marked out of 1.00

Frag 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.

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
    int main(){
 2 ₹
 3
         int n;
         int valid=0;
 4
         scanf("%d",&n);
 5
 6
         int a[n];
 7
         int b[n];
         for(int i=0;i<n;i++){</pre>
 8
 9
             scanf("%d",&a[i]);
10
11 1
         for(int i=0;i<n;i++){</pre>
             scanf("%d",&b[i]);
12
13
14
         for(int i=0;i<n;i++){</pre>
15 v
             for(int j=0;j<n;j++){</pre>
16 1
                  if(a[i]>b[j]){
17
                      valid=1;
18
                      break;
19
             }
20
21
22
         if(valid==1){
         printf("No");
23
         }else{
24 1
25
             printf("Yes");
26
         }
27
         return 0;
    }
28
```

Question **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 xor $a_j = 0$.

Input format

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

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

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

Passed all tests! <