Stat	Finished Finished
Start	Monday, 23 December 2024, 5:33 PM
Complet	red Friday, 13 December 2024, 9:17 AM
Durati	on 10 days 8 hours
Question 1	Coders have is a simple task far you you have given an array of size M and an integer M
Correct	Coders here is a simple task for you, you have given an array of size N and an integer M .
Marked out of	
1.00	Your task is to calculate the difference between maximum sum and minimum sum of N-M elements of the
▼ Flag question	given array.
	Constraints:
	Constraints.
	1<=t<=10
	1<=n<=1000
	1<=a[i]<=1000
	1 \ -u[i] \ - 1000
	Input:
	First line contains an integer T denoting the number of testcases.
	First line of every testcase contains two integer N and M .

Next line contains N space separated integers denoting the elements of array
Output:
For every test case print your answer in new line
SAMPLE INPUT
1
5 1
12345
SAMPLE OUTPUT
4
Explanation
Mis 1 and N is 5 so you have to calculate maximum and minimum sum using (5.1 =) 4 elements
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()
 2
 3
 4
         int t;
         scanf("%d",&t);
 5
         while(t--)
 6
 7 🔻
 8
             int n,m,d,min,temp;
 9
             scanf("%d%d",&n,&m);
10
11
             d=n-m;
             int arr[n];
12
             for(int i=0;i<n;i++)</pre>
13
             scanf("%d",&arr[i]);
14
15
             for(int j=0;j<n;j++)</pre>
16 🔻
                  min=j;
17
18
                  for(int k=j;k<n;k++)</pre>
19 🔻
                      if(arr[k]<arr[min])</pre>
20
21
                      min=k;
22
23
                  temp=arr[min];
                  arr[min]=arr[j];
24
                  arr[j]=temp;
25
26
27
              int maxsum=0,minsum=0;
```

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

Passed all tests! <

Question ${f 2}$

Correct

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▼ 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.

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**

123 146 454 542 456 100 328 248 689 200

5

SAMPLE OUTPUT

```
100 328 248 689 200
```

SAMPLE OUTPUT

No

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
    int main()
 3
 4
         int n,min1,min2,temp,flag=1;
         scanf("%d",&n);
         int vac[n],pat[n];
         for(int i=0;i<n;i++)</pre>
         scanf("%d",&vac[i]);
 8
         for(int i=0;i<n;i++)</pre>
 9
         scanf("%d",&pat[i]);
10
         for(int j=0;j<n-1;j++)</pre>
11
12 ₹
13
             min1=j,min2=j;
             for(int k=j;k<n;k++)</pre>
14
15 ₹
                  if(vac[k]<vac[min1])</pre>
16
17
                  min1=k;
18
                  if(pat[k]<pat[min2])</pre>
```



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

Question ${\bf 3}$

Marked out of

Correct

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: ${\it n}$ 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

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

$$1 \le a_i \le 10^9$$

13143 **SAMPLE OUTPUT** 2 Explanation The 2 pair of indices are (1, 3) and (2,5). **Answer:** (penalty regime: 0 %) 1 #include<stdio.h> int main() 3 ₹ { int n,count=0;

SAMPLE INPUT

```
int n,count=0;
         scanf("%d",&n);
         int arr[n];
         for(int i=0;i<n;i++)</pre>
         scanf("%d",&arr[i]);
         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
14
                 count++;
15
16
         printf("%d",count);
17
18
19
```

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

Passed all tests! <

Question 4 Correct Marked out of 1.00	You are given an array A of non-negative integers of size m . Your task is to sort the array in non-decreasing order and print out the original indices of the new sorted array.
▼ Flag question	Example:
	A={4,5,3,7,1}
	After sorting the new array becomes $A = \{1,3,4,5,7\}$.
	The required output should be "4 2 0 1 3"
	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[i]<=106
NOTE: The indexing of the array starts with 0.
SAMPLE INPUT
5
45371
SAMPLE OUTPUT
42013
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
      int main()
          int n:
```

```
scanf("%d",&n);
         int arr[n];
         for(int i=0;i<n;i++)</pre>
         scanf("%d",&arr[i]);
         int max=arr[0];
 9
         for(int i=1;i<n;i++)</pre>
10
11 ▼
12
             if(arr[i]>max)
             max=arr[i];
13
14
15
         max++;
         int min=0;
16
         for(int a=0;a<n;a++)</pre>
17
18 ₹
19
             for(int b=0;b<n;b++)</pre>
20 ₹
                  if (arr[b]<arr[min])</pre>
21
22
                  min=b;
23
24
             printf("%d ",min);
             arr[min]=max;
25
26
27
```

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

```
scanf("%d",&n);
         int arr[n];
         for(int i=0;i<n;i++)</pre>
         scanf("%d",&arr[i]);
         int max=arr[0];
 9
         for(int i=1;i<n;i++)</pre>
10
11 ▼
12
             if(arr[i]>max)
             max=arr[i];
13
14
15
         max++;
         int min=0;
16
         for(int a=0;a<n;a++)</pre>
17
18 ₹
19
             for(int b=0;b<n;b++)</pre>
20 ₹
                  if (arr[b]<arr[min])</pre>
21
22
                  min=b;
23
24
             printf("%d ",min);
             arr[min]=max;
25
26
27
```

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