Status	Finished	
Started	Monday, 13 January 2025, 3:38 PM	
	Monday, 13 January 2025, 4:01 PM	
Duration	22 mins 32 secs	
Correct	Coders here is a simple task for you, you have given an array of size <b>N</b> and an integer <b>M</b> .	
Marked out of 1.00 ▼ Flag question	Your task is to calculate the difference between maximum sum and minimum sum of N-M elements of the given array.	
	Constraints:	
	1<=t<=10	
	<=n<=1000	
	<=a[i]<=1000	
	Input:	
	First line contains an integer <b>7</b> denoting the number of testcases.	
	First line of every testcase contains two integer <b>N</b> and <b>M</b> .	
	Next line contains <b>N</b> space separated integers denoting the elements of array	
	and the property of the second of ₹ and the No. (100 and 100	
	Output:	
	For every test case print your answer in new line	
	SAMPLE INPUT	
	1	
	51	
	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>
2 int main()
3 . (
4
       int t:
       scanf("%d", &t);
6
       while(t--)
7.
8
           int n, m, d, min, temp;
9
           scanf("%d %d", &n, &m);
10
           d=n-m;
11
           int arr[n];
12
           for(int i=0;i<n;i++)
13
           scanf("%d", &arr[i]);
14
           for(int j=0;j<n;j++)
15
16
               min=j;
               for(int k=i;k<n;k++){
17
18
                   if(arr[k]<arr[min])
19
                   min=k;
20
21
               temp=arr[min];
               arr[min]=arr[j];
22
23
               arr[j]=temp;
24
25
           int maxsum=0,minsum=0;
26
           for(int a=0;a<d;a++)
27
           minsum+=arr[a];
           for(int b=n-1;b>m-1;b--)
28
29
           maxsum+=arr[b];
           printf("%d\n", maxsum-minsum);
30
31
32 }
```

	Input	Expected	Got	
~	1	4	4	~
	5 1			
	12345			

Question 2 Correct Marked out of 1.00 P 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 No

```
Answer: (penalty regime: 0 %)
   1 #include <stdio.h>
   2 - int main(){
   3
          int n, min1, min2, temp, flag = 1;
   4
           scanf("%d", &n);
          int vac[n], pat[n];
          for(int i=0;i<n;i++)
          scanf("%d", &vac[i]);
          for(int i=0;i<n;i++)
   9
           scanf("%d", &pat[i]);
           for(int j=0;j<n-1;j++){
  10
  11
               min1 = j;min2=j;
  12 +
               for(int k=j;k<n;k++){
                   if(vac[k]<vac[min1])</pre>
  13
  14
                   min1-k:
  15
                   if(pat[k]<pat[min2])</pre>
                   min2-k;
  16
  17
  18
               temp=vac[min1];
  19
               vac[min1]=vac[j];
  20
               vac[j] = temp;
  21
               temp=pat[min2];
  22
  23
               pat[min2]=vac[j];
  24
               pat[j]=temp;
  25
  26 .
           for(int i=0;i<n;i++){
  27 .
               if(vac[i]<=pat[i]){
  28
                   flag=0;
  29
                   break;
  30
  31
  32
           if(flag==1)
  33
           printf("Yes");
  34
           else
  35
           printf("No");
  36 }
```

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

Question <b>3</b> Correct	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 $a_i \times a_j = 0$ .
Marked out of 1.00  Flag question	Input format
	<ul> <li>First line: n denoting the number of array elements</li> <li>Second line: n space separated integers a<sub>1</sub>, a<sub>2</sub>,, a<sub>n</sub>.</li> </ul>
	Output format
	Output the required number of pairs.
	Constraints
	$1 \le n \le 10^6$ $1 \le a_i \le 10^9$
	SAMPLE INPUT
	5 13143
	SAMPLE OUTPUT
	2
	Explanation
	The 2 pair of indices are (1, 3) and (2,5).

```
Answer: (penalty regime: 0 %)
   1 |#include <stdio.h>
   2 - int main(){
           int n, count=0;
           scanf("%d", &n);
           int arr[n];
           for(int i=0;i<n;i++)
           scanf("%d", &arr[i]);
           for(int i=0;i<n-1;i++){
               for(int j=i+1;j<n;j++){</pre>
  10
                   if((arr[i]^arr[j])==0)
  11
                   count++;
  12
  13
  14
           printf("%d", count);
  15 }
```

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

Passed all tests! <

Question 4 Correct Marked out of 1.00	You are given an array <b>A</b> of non-negative integers of size <b>m</b> . 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.

```
5
45371
SAMPLE OUTPUT
42013
Answer: (penalty regime: 0 %)
   1 #include <stdio.h>
   2 . int main(){
          int n;
          scanf("%d", &n);
          int arr[n];
   6
          for(int i=0;i<n;i++)
          scanf("%d", &arr[i]);
   8
          int max=arr[0];
   9 .
          for(int i=1;i<n;i++){
  10
              if(arr[i]>max)
  11
              max=arr[i];
  12
  13
          max++;
          int min=0;
  14
  15 +
          for(int a=0;a<n;a++){
              for(int b=0;b<n;b++){
  16 .
                  if(arr[b]<arr[min])</pre>
  17
  18
                  min=b;
  19
              printf("%d ", min);
  20
  21
              arr[min]=max;
  22
  23 }
      Input
                Expected Got
```

SAMPLE INPUT

42013 42013 🗸

4 5 3 7 1
Passed all tests! ✓