Started on	Friday, 23 August 2024, 2:22 PM
State	Finished
Completed on	Friday, 23 August 2024, 2:41 PM
Time taken	18 mins 55 secs
Marks	1.00/1.00
Grade	**10.00** out of 10.00 (**100**%)

Question **1**

Correct

Mark 1.00 out of 1.00

Given two arrays array_One[] and array_Two[] of same size N. We need to first rearrange the arrays such that the sum of the product of pairs(1 element from each) is minimum. That is SUM (A[i] * B[i]) for all i is minimum.

For example:

Input	Result
3	28
1	
2	
3	
4	
5	
6	

Answer: (penalty regime: 0 %)

```c
1   #include<stdio.h>
2   int main()
3   {
4       int n;
5       scanf("%d",&n);
6       int a[n],b[n];
7       for(int i=0;i<n;i++)
8       {
9           scanf("%d",&a[i]);
10      }
11       for(int i=0;i<n;i++)
12      {
13          scanf("%d",&b[i]);
14      }
15      for(int i=0;i<n-1;i++)
16      {
17          for(int  j=i+1;j<n;j++)
18          {
19              int t;
20              if(a[i]<a[j])
21              {
22                  t = a[i];
23                  a[i]=a[j];
24                  a[j]=t;
25              }
26          }
27      }
28      for(int i=0;i<n-1;i++)
29      {
30          for(int  j=i+1;j<n;j++)
31          {
32              int t;
33              if(b[i]>b[j])
34              {
35                  t = b[i];
36                  b[i]=b[j];
37                  b[j]=t;
38              }
39          }
40      }
41
42      int sum=0;
43      for(int i=0;i<n;i++)
44      {
45          sum += a[i]*b[i];
46      }
47      printf("%d",sum);
48  }
```

	Input	Expected	Got	
✔	3 1 2 3 4 5 6	28	28	✔
✔	4 7 5 1 2 1 3 4 1	22	22	✔
✔	5 20 10 30 10 40 8 9 4 3 10	590	590	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

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