

Started on Saturday, 30 August 2025, 6:28 PM

State Finished

Completed on Saturday, 30 August 2025, 6:37 PM

Time taken 8 mins 17 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 $\text{SUM}(A[i] * B[i])$ for all `i` is minimum.

For example:

Input	Result
3	28
1	
2	
3	
4	
5	
6	

Answer: (penalty regime: 0 %)

```

1  #include<stdio.h>
2  #include<stdlib.h>
3  int compare(const void*a,const void *b){
4      return (*(int*)a)-*(int*)b);
5  }
6  int compared(const void *a,const void *b){
7      return (*(int*)b)-*(int*)a);
8  }
9  int main(){
10     int n;
11     scanf("%d",&n);
12     int one[n],two[n];
13     for(int i=0;i<n;i++){
14         scanf("%d",&one[i]);
15     }
16     for(int i=0;i<n;i++){
17         scanf("%d",&two[i]);
18     }
19     qsort(one,n,sizeof(int),compare);
20     qsort(two,n,sizeof(int),compared);
21     long long sum=0;
22     for(int i=0;i<n;i++){
23         sum+=(long long)one[i]*two[i];
24     }
25     printf("%lld\n",sum);
26     return 0;
27 }
```

	Input	Expected	Got	
✓	3	28	28	✓
	1			
	2			
	3			
	4			
	5			
	6			

	Input	Expected	Got	
✓	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.