



Started on Wednesday, 3 September 2025, 10:36 AM

State Finished

Completed on Wednesday, 3 September 2025, 10:38 AM

Time taken 2 mins 29 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
4 ▾ int compare_asc(const void *a, const void *b) {
5     return (*(const int *)a - *(const int *)b);
6 }
7
8 ▾ int compare_desc(const void *a, const void *b) {
9     return (*(const int *)b - *(const int *)a);
10 }
11
12 ▾ int main() {
13     int n;
14     scanf("%d", &n);
15     int array_one[n];
16     int array_two[n];
17 ▾ for (int i = 0; i < n; i++) {
```

```

18         scanf("%d", &array_one[i]);
19     }
20     for (int i = 0; i < n; i++) {
21         scanf("%d", &array_two[i]);
22     }
23     qsort(array_one, n, sizeof(int), compare_asc);
24     qsort(array_two, n, sizeof(int), compare_desc);
25     long long min_sum_product = 0;
26     for (int i = 0; i < n; i++) {
27         min_sum_product += (long long)array_one[i] * array_two[i];
28     }
29     printf("%lld\n", min_sum_product);
30     return 0;
31 }

```

	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.

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