



SRIRAM S (12/08/2006) 2024-IT ▾

S2

Started on Sunday, 7 September 2025, 9:20 AM

State Finished

Completed on Sunday, 7 September 2025, 9:22 AM

Time taken 1 min 21 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
5  int compare_asc(const void *a, const void *b) {
6      return (*(int *)a - *(int *)b);
7  }
8
9
10 int compare_desc(const void *a, const void *b) {
11     return (*(int *)b - *(int *)a);
12 }
13
14 int main() {
15     int n;
16     scanf("%d", &n);
17
18     int array_One[n], array_Two[n];
19
20     for (int i = 0; i < n; i++) {
21         scanf("%d", &array_One[i]);
22     }
23
24     for (int i = 0; i < n; i++) {
25         scanf("%d", &array_Two[i]);
26     }
27
28
29     qsort(array_One, n, sizeof(int), compare_asc);
30     qsort(array_Two, n, sizeof(int), compare_desc);
31
32
33     int min_sum = 0;
34     for (int i = 0; i < n; i++) {
35         min_sum += array_One[i] * array_Two[i];
36     }
37
38     printf("%d\n", min_sum);
39
40     return 0;
41 }
42

```

	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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