



KARTHIK J 2024-IT ▾

**K2****Started on** Wednesday, 3 September 2025, 1:37 PM**State** Finished**Completed on** Wednesday, 3 September 2025, 1:41 PM**Time taken** 3 mins 28 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 asc(const void *a, const void *b) {
4      return (*(int *)a - *(int *)b);
5  }
6  int desc(const void *a, const void *b) {
7      return (*(int *)b - *(int *)a);
8  }
9
10 int main() {
11     int n;
12     scanf("%d", &n);
13
14     int array_One[n], array_Two[n];
15
16     for (int i = 0; i < n; i++) {
17         scanf("%d", &array_One[i]);
18     }
19
20     for (int i = 0; i < n; i++) {
21         scanf("%d", &array_Two[i]);
22     }
23     qsort(array_One, n, sizeof(int), asc);
24     qsort(array_Two, n, sizeof(int), desc);
25
26     long long minSum = 0;
27     for (int i = 0; i < n; i++) {
28         minSum += (long long)array_One[i] * array_Two[i];
29     }
30
31     printf("%lld\n", minSum);
32     return 0;
33 }
34

```

	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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