

THIVYASRI T 2024-CSE ▾**T2****Started on** Wednesday, 15 October 2025, 9:07 AM**State** Finished**Completed on** Wednesday, 15 October 2025, 9:08 AM**Time taken** 1 min 52 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 %)

```

1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int asc(const void *a, const void *b) {
5     return (*(int*)a - *(int*)b);
6 }
7
8 int desc(const void *a, const void *b) {
9     return (*(int*)b - *(int*)a);
10}
11
12 int main() {
13     int n;
14     scanf("%d", &n);
15     int A[n], B[n];
16
17     for (int i = 0; i < n; i++)
18         scanf("%d", &A[i]);
19     for (int i = 0; i < n; i++)
20         scanf("%d", &B[i]);
21
22     qsort(A, n, sizeof(int), asc);
23     qsort(B, n, sizeof(int), desc);
24
25     long long sum = 0;
26     for (int i = 0; i < n; i++)
27         sum += (long long)A[i] * B[i];
28
29     printf("%lld", sum);
30     return 0;
31 }
32

```

	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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