



Started on	Sunday, 31 August 2025, 9:18 AM
State	Finished
Completed on	Sunday, 31 August 2025, 9:19 AM
Time taken	1 min 23 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 compareAsc(const void *a, const void *b) {
5      return (*(int *)a - *(int *)b);
6  }
7
8
9  int compareDesc(const void *a, const void *b) {
10     return (*(int *)b - *(int *)a);
11 }
12
13 int main() {
14     int n;
15     scanf("%d", &n);
16
17     int array_One[n], array_Two[n];
18
19
20     for (int i = 0; i < n; i++) {
21         scanf("%d", &array_One[i]);
22     }
23
24
25     for (int i = 0; i < n; i++) {
26         scanf("%d", &array_Two[i]);
27     }
28
29
30     qsort(array_One, n, sizeof(int), compareAsc);
31
32
33     qsort(array_Two, n, sizeof(int), compareDesc);
34
35
36     int result = 0;
37     for (int i = 0; i < n; i++) {
38         result += array_One[i] * array_Two[i];
39     }
40
41     printf("%d\n", result);
42
43     return 0;
44 }
```

	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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