



Started on	Friday, 19 September 2025, 2:03 PM
State	Finished
Completed on	Friday, 19 September 2025, 2:04 PM
Time taken	54 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 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     for (int i = 0; i < n; i++) {
17         scanf("%d", &a[i]);
18     }
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     long long sum = 0;
25     for (int i = 0; i < n; i++) {
26         sum += (long long)a[i] * b[i];
27     }
28     printf("%lld\n", sum);
29     return 0;
30 }
```

	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.

[Back to Course](#)