



## 5-G-Product of Array elements-Minimum

Started on	Sunday, 31 August 2025, 3:56 PM
State	Finished
Completed on	Sunday, 31 August 2025, 4:00 PM
Time taken	4 mins 27 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 int compareDesc(const void *a, const void *b) {
9     return (*(int*)b - *(int*)a);
10 }
11
12 int main() {
13     int N, i;
14     scanf("%d", &N);
15
16     int array_One[N], array_Two[N];
17
18     for(i = 0; i < N; i++) {
19         scanf("%d", &array_One[i]);
20     }
21
22     for(i = 0; i < N; i++) {
23         scanf("%d", &array_Two[i]);
24     }
25
26     qsort(array_One, N, sizeof(int), compareAsc);
27     qsort(array_Two, N, sizeof(int), compareDesc);
28
29     int sum = 0;
30     for(i = 0; i < N; i++) {
31         sum += array_One[i] * array_Two[i];
32     }
33
34     printf("%d\n", sum);
35
36     return 0;
37 }
38 }
```

	Input	Expected	Got	
✓	3	28	28	✓
	1			
	2			
	3			
	4			
	5			

	6				
✓	4	22	22	✓	
	7				
	5				
	1				
	2				
	1				
	3				
	4				
	1				
✓	5	590	590	✓	
	20				
	10				
	30				
	10				
	40				
	8				
	9				
	4				
	3				
	10				

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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