

CS23331-DAA-2024-CSE / 5-G-Product of Array elements-Minimum



5-G-Product of Array elements-Minimum

Started on Tuesday, 30 September 2025, 12:09 PM

State Finished

Completed on Tuesday, 30 September 2025, 12:10 PM

Time taken 29 secs

Marks 1.00/1.00

Grade 10.00 out of 10.00 (100%)

Question 1 | Correct Mark 1.00 out of 1.00 [Flag question](#)

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 cmp_asc(const void *a, const void *b) {
5     return (*(int*)a - *(int*)b);
6 }
7
8 int cmp_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
16     int array_One[n], array_Two[n];
17     for (int i = 0; i < n; i++) scanf("%d", &array_One[i]);
18     for (int i = 0; i < n; i++) scanf("%d", &array_Two[i]);
19
20     qsort(array_One, n, sizeof(int), cmp_asc);
21     qsort(array_Two, n, sizeof(int), cmp_desc);
22
23     long long sum = 0;
24     for (int i = 0; i < n; i++) {
25         sum += (long long)array_One[i] * array_Two[i];
26     }
27
28     printf("%lld\n", sum);
29     return 0;
30 }
31
```

	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.

Finish review

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