

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

Started on	Sunday, 31 August 2025, 3:58 PM
State	Finished
Completed on	Sunday, 31 August 2025, 4:15 PM
Time taken	17 mins 17 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 1 2 3 4 5 6	28

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 #include<stdlib.h>
3
4 int compare(void const *a,void const*b){
5     return(*(int*)a-*(int*)b);
6 }
7 int compare1(const void *a, const void *b){
8     return(*(int*)b-*(int*)a);
9 }
10
11 int main(){
12     int n;
13     scanf("%d",&n);
14     int a[n];
15     for(int i=0;i<n;i++){
16         scanf("%d",&a[i]);
17     }
18     qsort(a,n,sizeof(int),compare);
19     int a1[n];
20     for(int i=0;i<n;i++){
21         scanf("%d",&a1[i]);
22     }
23     qsort(a1,n,sizeof(int),compare1);
24
25     int pro=0;
26     for(int i=0;i<n;i++){
27         pro+=a[i]*a1[i];
28     }
29     printf("%d",pro);
30 }
```

	Input	Expected	Got	
✓	3 1 2 3 4 5 6	28	28	✓
✓	4 7 5 1 2 1 3 4 1	22	22	✓
✓	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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