

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

<b>Started on</b>	Tuesday, 26 August 2025, 12:11 PM
<b>State</b>	Finished
<b>Completed on</b>	Tuesday, 26 August 2025, 12:32 PM
<b>Time taken</b>	20 mins 38 secs
<b>Marks</b>	1.00/1.00
<b>Grade</b>	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 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 int main(){
3     int a;
4     scanf("%d",&a);
5     int b[a];
6     int c[a];
7     for(int i=0;i<a;i++){
8         scanf("%d",&b[i]);
9     }
10    for(int i=0;i<a;i++){
11        scanf("%d",&c[i]);
12    }
13    for(int i=0;i<a-1;i++){
14        for(int j=0;j<a-i-1;j++){
15            if(b[j]>b[j+1]){
16                int temp=b[j];
17                b[j]=b[j+1];
18                b[j+1]=temp;
19            }
20        }
21    }
22    for(int i=0;i<a-1;i++){
23        for(int j=0;j<a-i-1;j++){
24            if(c[j]<c[j+1]){
25                int temp=c[j];
26                c[j]=c[j+1];
27                c[j+1]=temp;
28            }
29        }
30    }
31    int sum=0;
32    for(int i=0;i<a;i++){
33        sum+=(b[i]*c[i]);
34    }
35    printf("%d",sum);
36 }
```

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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