<u>Dashboard</u> / <u>My courses</u> / <u>CS23331-DAA-2023-CSE</u> / <u>Greedy Algorithms</u> / <u>5-G-Product of Array elements-Minimum</u>

Started on	Tuesday, 27 August 2024, 2:09 PM
State	Finished
Completed on	Tuesday, 27 August 2024, 2:26 PM
Time taken	17 mins 11 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 SUM (A[i] * B[i]) for all i is minimum.

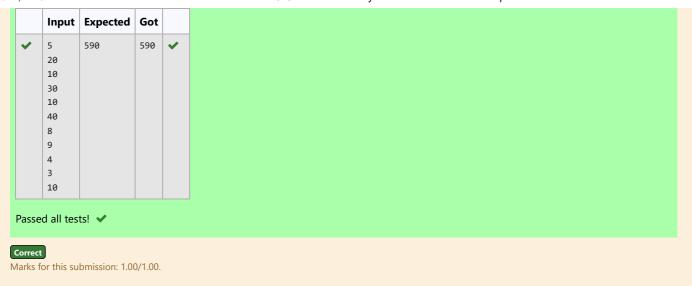
For example:

Input	Result		
3	28		
1			
2			
3			
4			
5			
6			

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 void sort(int a,int arr[]){
3 1
        for(int i=0;i<a-1;i++){</pre>
            for(int j=i;j<a;j++){
4 1
5
                 if(arr[i]>arr[j]){
6
                     int temp=arr[i];
7
                     arr[i]=arr[j];
8
                     arr[j]=temp;}}}}
9
10 v int main(){
        int a;scanf("%d",&a);int arr[a],brr[a];
11
        for(int i=0;i<a;i++)scanf("%d",&arr[i]);</pre>
12
13
        sort(a,arr);
14
        for(int i=0;i<a;i++)scanf("%d",&brr[i]);</pre>
15
        sort(a,brr);int sum=0;
        for(int i=0;i<a;i++)sum+=arr[i]*brr[a-1-i];</pre>
16
        printf("%d",sum);
17
18
   }
```

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



◄ 4-G-Array Sum max problem

1-Number of Zeros in a Given Array ►