Status	Finished
Started	Monday, 7 April 2025, 12:48 PM
Completed	Monday, 7 April 2025, 12:51 PM
Duration	2 mins 28 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 1 2 3 4 5 6	28

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
#include<stdlib.h>
int compareAsc(const void *a, const void *b){
    return (*(int*)a-*(int*)b);
}
int compareDesc(const void *a, const void *b){
    return (*(int*)b -*(int*)a);
}
int main(){
    int n;
    scanf("%d",&n);
    int arr1[n], arr2[n];
    for(int i=0;i<n;i++){
        scanf("%d",&arr1[i]);
    }
    for(int i=0;i<n;i++){
        scanf("%d",&arr2[i]);
    }
    qsort(arr1,n,sizeof(int), compareAsc);
    qsort(arr2,n,sizeof(int), compareDesc);
    long long sum=0;
    for(int i=0;i<n;i++){
        sum+=(long long)arr1[i]*arr2[i];
    }
    printf("%lld\n",sum);
    return 0;
}
```

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

	Input	Expected	Got	
✓	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.

◄ 4-G-Array Sum max problem

Jump to...

1-DP-Playing with Numbers ►