Started on	Monday, 7 October 2024, 7:30 PM
State	Finished
Completed on	Monday, 7 October 2024, 8:17 PM
Time taken	46 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 comp1(const void *a, const void *b){
    return (*(int*)a)-(*(int*)b);
}
int comp2(const void *a, const void *b){
    return (*(int*)b)-(*(int*)a);
}

int main(){
    int n,sum=0;
    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),comp1);
    qsort(arr2,n,sizeof(int),comp2);
    for(int i=0; i<n; i++){
        sum += arr1[i]*arr2[i];
    }
    printf("%d", 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-Number of Zeros in a Given Array ►