Started on	Tuesday, 27 August 2024, 1:09 PM
State	Finished
Completed on	Tuesday, 27 August 2024, 1:19 PM
Time taken	10 mins 5 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 cmp_asc(const void *a, const void *b) {
    return (*(int*)a - *(int*)b);
}

int cmp_desc(const void *a, const void *b) {
    return (*(int*)b - *(int*)a);
}

int main() {
    int n;

    scanf("%d", &n);

    int array_One[n], array_Two[n];

    for(int i = 0; i < n; i++) {
        scanf("%d", &array_One[i]);
    }

    for(int i = 0; i < n; i++) {
        scanf("%d", &array_Two[i]);
    }

    qsort(array_One, n, sizeof(int), cmp_asc);
    qsort(array_Two, n, sizeof(int), cmp_desc);

    int result = 0;

    for(int i = 0; i < n; i++) {
        result += array_One[i] * array_Two[i];
    }

    printf("%d\n", result);

    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	✔
✔	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 ►