Started on	Tuesday, 27 August 2024, 5:08 PM
State	Finished
Completed on	Tuesday, 27 August 2024, 5:11 PM
Time taken	2 mins 50 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>

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]);
    }

    for (int i = 0; i < N-1; i++) {
        for (int j = 0; j < N-i-1; j++) {
            if (array_One[j] > array_One[j+1]) {
                int temp = array_One[j];
                array_One[j] = array_One[j+1];
                array_One[j+1] = temp;
            }
        }
    }

    for (int i = 0; i < N-1; i++) {
        for (int j = 0; j < N-i-1; j++) {
            if (array_Two[j] < array_Two[j+1]) {
                int temp = array_Two[j];
                array_Two[j] = array_Two[j+1];
                array_Two[j+1] = temp;
            }
        }
    }

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

    printf("%d\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	✔
✔	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 ►