Started on	Thursday, 29 August 2024, 11:03 AM
State	Finished
Completed on	Thursday, 29 August 2024, 11:50 AM
Time taken	46 mins 58 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>
void swap(int*a,int*b) {
    int temp =*a;
    *a=*b;
    *b=temp;
}
void bsa(int arr[], int size) {
    for (int i=0;i<size-1;i++) {
        for (int j=0;j<size-i-1;j++) {
            if (arr[j]>arr[j+1]) {
                swap(&arr[j],&arr[j+1]);
            }
        }
    }
}
void bsd(int arr[], int size) {
    for (int i=0;i<size-1;i++) {
        for (int j=0;j<size-i-1;j++) {
            if (arr[j]<arr[j+1]) {
                swap(&arr[j],&arr[j+1]);
            }
        }
    }
}
int main() {
    int size;
    scanf("%d", &size);
    int a1[size];
    int a2[size];
    //a1
    for (int i=0;i<size;i++) {
        scanf("%d", &a1[i]);
    }
    //a2
    for (int i=0;i<size;i++) {
        scanf("%d", &a2[i]);
    }
    bsa(a1, size);
    bsd(a2, size);
    int misum=0;
    for (int i=0;i<size;i++) {
        misum+=a1[i]*a2[i];
    }
    printf("%d\n",misum);
    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 ►