Started on	Thursday, 19 September 2024, 10:21 AM
State	Finished
Completed on	Thursday, 19 September 2024, 10:42 AM
Time taken	20 mins 59 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 %)

```
#include<stdio.h>
void sort(int arr[],int N){
    int temp;
    for(int i=0;i<N-1;i++){
        for(int j=0;j<N-i-1;j++){
            if(arr[j]>arr[j+1]){
                temp=arr[j];
                arr[j]=arr[j+1];
                arr[j+1]=temp;
            }
        }
    }
}
void reversesort(int arr[],int N){
    int temp;
    for(int i=0;i<N-1;i++){
        for(int j=0;j<N-i-1;j++){
            if(arr[j]<arr[j+1]){
                temp=arr[j];
                arr[j]=arr[j+1];
                arr[j+1]=temp;
            }
        }
    }
}
int main(){
    int A[100],B[100],N,sum=0;
    scanf("%d",&N);
    for(int i=0;i<N;i++)
        scanf("%d",&A[i]);
    for(int i=0;i<N;i++)
        scanf("%d",&B[i]);
    reversesort(A,N);
    sort(B,N);

    for(int i=0;i<N;i++)
        sum+=A[i]*B[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	✔
✔	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 ►