RAJALAKSHMI ENGINEERING COLLEGE

VARSHINI S 2024-CSE V2

Started on	Wednesday, 3 September 2025, 8:57 AM
State	Finished
Completed on	Wednesday, 3 September 2025, 9:14 AM
Time taken	16 mins 34 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,b=0;
    scanf("%d",&n);
    int arr[n];
    int brr[n];
    for(int i=0;i<n;i++){
        scanf("%d",&arr[i]);
    }
    for(int i=0;i<n;i++){
        scanf("%d",&brr[i]);
    }
    for(int i=0;i<n-1;i++){
        for(int j=0;j<n-i-1;j++){
            if(arr[j]>arr[j+1]){
                int temp=arr[j];
                arr[j]=arr[j+1];
                arr[j+1]=temp;
            }
        }
    }
    for(int i=0;i<n-1;i++){
        for(int j=0;j<n-i-1;j++){
            if(brr[j]<brr[j+1]){
                int temp=brr[j];
                brr[j]=brr[j+1];
                brr[j+1]=temp;
            }
        }
    }
    for(int i=0;i<n;i++){
        b+=arr[i]*brr[i];
    }
    printf("%d",b);
}
```

	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.

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