RAJALAKSHMI ENGINEERING COLLEGE

Started on	Sunday, 31 August 2025, 7:46 AM
State	Finished
Completed on	Sunday, 31 August 2025, 7:56 AM
Time taken	10 mins 16 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>
# include <stdlib.h>

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

int ase(const void *a, const void *b){
    return (*(int *)a - *(int *)b);
}
int main(){
    int n;
    scanf("%d", &n);
    int arr1[n]; int arr2[n];
    for(int i=0; i<n; i++) scanf("%d", &arr1[i]);
    for(int i=0; i<n; i++) scanf("%d", &arr2[i]);
    qsort(arr1, n, sizeof(int), ase);
    qsort(arr2, n, sizeof(int), desc);
    int sum = 0;
    for(int i=0; i<n; i++)
        sum += arr1[i]*arr2[i];
    printf("%d", sum);
}
```

	Input	Expected	Got	
✔	3 1 2 3 4 5 6	28	28	✔

	Input	Expected	Got	
✔	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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