5-G-Product of Array elements-Minimum

Started on	Sunday, 31 August 2025, 4:15 PM
State	Finished
Completed on	Sunday, 31 August 2025, 4:32 PM
Time taken	17 mins 36 secs
Marks	1.00/1.00
Grade	**10.00** out of 10.00 (**100**%)

Question 1 Correct Mark 1.00 out of 1.00 Flag question

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 %)

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```c
#include <stdio.h>


int main(){
    int n;
    scanf("%d", &n);

    int a[n], b[n],i,j;

    for(i=0;i<n;i++){
        scanf("%d", &a[i]);
    }

    for(i=0;i<n;i++){
        scanf("%d", &b[i]);
    }

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

    for(i=0;i<n;i++) {
        for(j=i+1;j<n;j++) {
            if(b[i] < b[j]) {
                int temp = b[i];
                b[i] =b[j];
                b[j] = temp;
            }
        }
    }

    int sum = 0;
    for(i=0;i<n;i++){
        sum += a[i]*b[i];
    }
    printf("%d", sum);
    return 0;


}
```

	Input	Expected	Got	
✔	3 1	28	28	✔

	2 3 4 5 6			
✔	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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