5-G-Product of Array elements-Minimum

Started on	Thursday, 28 August 2025, 9:21 AM
State	Finished
Completed on	Thursday, 28 August 2025, 9:31 AM
Time taken	9 mins 56 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	28

3	
4	
5	
6	

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n;
    scanf("%d",&n);
    int a[n],b[n];
    for(int i=0;i<n;i++){
        scanf("%d",&a[i]);
    }

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

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

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

    int sum=0;

    for(int i=0;i<n;i++){
            sum+=(a[i]*b[i]);
    }

    printf("%d",sum);
    return 0;
```

```
41      return 0;
42  }
```

	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! ✔

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

Back to Course