RAJALAKSHMI ENGINEERING COLLEGE

DEVISHREE J 2024-CSE D2

Started on	Sunday, 7 September 2025, 9:33 AM
State	Finished
Completed on	Sunday, 7 September 2025, 9:36 AM
Time taken	2 mins 43 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, i, j, temp;
    int A[100], B[100];

    scanf("%d", &n);

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


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


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

    printf("%d\n", 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.

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