

## 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 %)

```

1
2 #include <stdio.h>
3 int main() {
4     int n;
5     scanf("%d", &n);
6     int a[n], b[n];
7     for (int i = 0; i < n; i++) {
8         scanf("%d", &a[i]);
9     }
10    for (int i = 0; i < n; i++) {
11        scanf("%d", &b[i]);
12    }
13    for (int i = 1; i < n; i++) {
14        int key = a[i];
15        int j = i - 1;
16        while (j >= 0 && a[j] > key) {
17            a[j + 1] = a[j];
18            j--;
19        }
20        a[j + 1] = key;
21    }
22    for (int i = 1; i < n; i++) {
23        int key = b[i];
24        int j = i - 1;
25        while (j >= 0 && b[j] < key) {
26            b[j + 1] = b[j];
27            j--;
28        }
29        b[j + 1] = key;
30    }
31    int sum = 0;
32    for (int i = 0; i < n; i++) {
33        sum += a[i] * b[i];
34    }
35    printf("%d\n", sum);
36    return 0;
37 }
38

```

	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.

◀ 4-G-Array Sum max problem

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1-Number of Zeros in a Given Array ▶