

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 $\text{SUM}(A[i] * B[i])$ for all `i` is minimum.

For example:

Input	Result
3 1 2 3 4 5 6	28

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 #include<stdlib.h>
3
4 int comp(const void* a, const void* b) {
5     int A = *((int*)a);
6     int B = *((int*)b);
7     return A - B;
8 }
9
10 int main() {
11     int n;
12     scanf("%d", &n);
13     int arr1[n];
14     for (int i = 0; i < n; i++)
15         scanf("%d", &arr1[i]);
16
17     int arr2[n];
18     for (int j = 0; j < n; j++)
19         scanf("%d", &arr2[j]);
20
21     qsort(arr1, n, sizeof(int), comp);
22     qsort(arr2, n, sizeof(int), comp);
23
24     int i = 0, j = n - 1;
25     int sum = 0;
26     while (i < n && j >= 0) {
27         sum += arr1[i] * arr2[j];
28         i++;
29         j--;
30     }
31
32     printf("%d", sum);
33     return 0;
34 }
35
36
```

	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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