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<b>Started on</b>	Tuesday, 8 October 2024, 1:40 PM
<b>State</b>	Finished
<b>Completed on</b>	Tuesday, 8 October 2024, 1:40 PM
<b>Time taken</b>	44 secs
<b>Marks</b>	1.00/1.00
<b>Grade</b>	<b>10.00</b> out of 10.00 ( <b>100%</b> )

## 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	28
1	
2	
3	
4	
5	
6	

**Answer:** (penalty regime: 0 %)

```

1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int cmp_asc(const void *a, const void *b) {
5      return (*(int*)a - *(int*)b);
6  }
7
8  int cmp_desc(const void *a, const void *b) {
9      return (*(int*)b - *(int*)a);
10 }
11
12 int main() {
13     int n;
14
15     scanf("%d", &n);
16
17     int array_One[n], array_Two[n];
18
19     for(int i = 0; i < n; i++) {
20         scanf("%d", &array_One[i]);
21     }
22
23     for(int i = 0; i < n; i++) {
24         scanf("%d", &array_Two[i]);
25     }
26
27     qsort(array_One, n, sizeof(int), cmp_asc);
28     qsort(array_Two, n, sizeof(int), cmp_desc);
29
30     int result = 0;
31
32     for(int i = 0; i < n; i++) {
33         result += array_One[i] * array_Two[i];
34     }
35
36     printf("%d\n", result);
37
38     return 0;
39 }
```

	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.

◀ 4-G-Array Sum max problem

Jump to...

1-Number of Zeros in a Given Array ▶