Started on	Friday, 20 September 2024, 1:47 PM
State	Finished
Completed on	Friday, 20 September 2024, 1:47 PM
Time taken	32 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
1  #include <stdio.h>
2
3  int main() {
4      int N;
5      scanf("%d", &N);
6
7      int array_One[N];
8      int array_Two[N];
9      int temp;
10     for (int i = 0; i < N; i++) {
11         scanf("%d", &array_One[i]);
12     }
13     for (int i = 0; i < N; i++) {
14         scanf("%d", &array_Two[i]);
15     }
16     for (int i = 0; i < N - 1; i++) {
17         for (int j = i + 1; j < N; j++) {
18             if (array_One[i] > array_One[j]) {
19                 temp = array_One[i];
20                 array_One[i] = array_One[j];
21                 array_One[j] = temp;
22             }
23         }
24     }
25     for (int i = 0; i < N - 1; i++) {
26         for (int j = i + 1; j < N; j++) {
27             if (array_Two[i] > array_Two[j]) {
```

```
27          if (array_Two[i] > array_Two[j]) {
28              temp = array_Two[i];
29              array_Two[i] = array_Two[j];
30              array_Two[j] = temp;
31          }
32      }
33   }
34   for (int i = 0; i < N / 2; i++) {
35      temp = array_Two[i];
36      array_Two[i] = array_Two[N - i - 1];
37      array_Two[N - i - 1] = temp;
38   }
39   int min_sum = 0;
40   for (int i = 0; i < N; i++) {
41      min_sum += array_One[i] * array_Two[i];
42   }
43   printf("%d\n", min_sum);
44
45   return 0;
46 }
47
48
```

	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
►