Started on	Thursday, 29 August 2024, 10:53 AM
State	Finished
Completed on	Thursday, 29 August 2024, 11:03 AM
Time taken	10 mins 8 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   #include <stdlib.h>
3   void swap(int*a,int*b) {
4       int temp =*a;
5       *a=*b;
6       *b=temp;
7   }
8   void bsa(int arr[], int size) {
9       for (int i=0;i<size-1;i++) {
10          for (int j=0;j<size-i-1;j++) {
11              if (arr[j]>arr[j+1]) {
12                  swap(&arr[j],&arr[j+1]);
13              }
14          }
15      }
16  }
17  void bsd(int arr[], int size) {
18      for (int i=0;i<size-1;i++) {
19          for (int j=0;j<size-i-1;j++) {
20              if (arr[j]<arr[j+1]) {
21                  swap(&arr[j],&arr[j+1]);
22              }
23          }
24      }
25  }
26  int main() {
27      int size;
28      scanf("%d", &size);
29      int a1[size];
30      int a2[size];
31      //a1
32      for (int i=0;i<size;i++) {
33          scanf("%d", &a1[i]);
34      }
35      //a2
36      for (int i=0;i<size;i++) {
37          scanf("%d", &a2[i]);
38      }
39      bsa(a1, size);
40      bsd(a2, size);
41      int misum=0;
42      for (int i=0;i<size;i++) {
43          misum+=a1[i]*a2[i];
44      }
45      printf("%d\n",misum);
46      return 0;
47  }
```

	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 ►