

CS23331-Design and Analysis of Algorithms-2023 Batch-CS

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Status	Finished
Started	Friday, 21 March 2025, 8:37 AM
Completed	Friday, 21 March 2025, 9:01 AM
Duration	23 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

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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	28
1	
2	
3	
4	
5	
6	

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,a,sum=0;
5     scanf("%d",&n);
6     int arr1[n];
7     int arr2[n];
8     for(int i=0;i<n;i++)
9     {
10         scanf("%d",&arr1[i]);
11     }
12     for(int j=0;j<n;j++)
13     {
14         scanf("%d",&arr2[j]);
15     }
16     for(int i=0;i<n;i++)
17     {
18         for(int j=i+1;j<n;j++)
19         {
20             if(arr1[i]>arr1[j])
21             {
22                 a=arr1[i];
23                 arr1[i]=arr1[j];
24                 arr1[j]=a;
25             }
26         }
27     }
28     for(int i=0;i<n;i++)
29     {
30         for(int j=i+1;j<n;j++)
31         {
32             if(arr2[i]<arr2[j])
33             {
34                 a=arr2[i];
35                 arr2[i]=arr2[j];
36                 arr2[j]=a;
37             }
38         }
39     }
40     for(int k=0;k<n;k++)
41     {
42         sum+=arr1[k]*arr2[k];
43     }
44     printf("%d",sum);
45     return 0;
46 }
```

	Input	Expected	Got
3	28	28	
1			
2			
3			
4			
5			
6			
4	22	22	
7			
5			
1			
2			
1			
3			
4			
1			
5	590	590	
20			
10			
30			
10			
40			
8			

	Input	Expected	Got
9			
4			
3			
10			

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

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[◀ 4-G-Array Sum max problem](#)

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[1-DP-Playing with Numbers ▶](#)