



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

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Quiz navigation



Finish review

```
Started on Tuesday, 3 September 2024, 1:45 PM

State Finished

Completed on Tuesday, 3 September 2024, 1:58 PM

Time taken 12 mins 38 secs

Marks 1.00/1.00

Grade 10.00 out of 10.00 (100%)
```

Question 1
Correct
Mark 1.00 out of 1.00

F Flag question

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 %)

```
#include<stdio.h>
     int main(){
          int n,result=0,temp=0;
scanf("%d",&n);
int a[n];
          for(int i=0;i<n;i++){</pre>
               scanf("%d",&a[i]);
8
          int b[n];
for(int i=0;i<n;i++){</pre>
10
               scanf("%d",&b[i]);
11
13
           for(int i=0;i<n;i++){</pre>
                for(int j=i+1;j<n;j++){
   if(a[i]>a[j]){
14
15
                     temp=a[i];
a[i]=a[j];
16
17
                     a[j]=temp;}
18
19
20
21
           for(int i=0;i<n;i++){</pre>
                for(int j=i+1;j<n;j++){
   if(b[i]<b[j]){</pre>
22
23
                     temp=b[j];
b[j]=b[i];
24
25
26
                     b[i]=temp;}
27
28
29
          for(int i=0;i<n;i++){</pre>
30
31
                result=result+(a[i]*b[i]);
32
33
          printf("%d",result);
34 }
```

	Input	Expected	Got	
~	3	28	28	~
	2			
	3			
	4			
	5			
	6			
~	4	22	22	~
	7			
	5			
	2			
	2			
	1			

