



AMRUTHA VALLI M 2024-CSE ▾

**A2****Started on** Sunday, 24 August 2025, 11:32 AM**State** Finished**Completed on** Sunday, 24 August 2025, 11:40 AM**Time taken** 7 mins 11 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	28
1	
2	
3	
4	
5	
6	

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

```

1  #include<stdio.h>
2  #include<stdlib.h>
3  int cmpasc(const void*a,const void*b){
4      return (*(int*)a)-*(int*)b);
5  }
6  int cmpdesc(const void*a,const void*b){
7      return (*(int*)b)-*(int*)a);
8  }
9  int main()
10 {
11     int n;
12     scanf("%d",&n);
13     int arr1[n],arr2[n];
14     for(int i=0;i<n;i++)
15     {
16         scanf("%d",&arr1[i]);
17     }
18     for(int i=0;i<n;i++)
19     {
20         scanf("%d",&arr2[i]);
21     }
22     qsort(arr1,n,sizeof(int),cmpasc);
23     qsort(arr2,n,sizeof(int),cmpdesc);
24     long long sum=0;
25     for(int i=0;i<n;i++){
26         sum+=(long long)arr1[i]*arr2[i];
27     }
28     printf("%lld\n",sum);
29 }
```

	Input	Expected	Got	
✓	3	28	28	✓
	1			
	2			
	3			
	4			
	5			
	6			

	Input	Expected	Got	
✓	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.

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