Started on	Saturday, 30 August 2025, 8:07 PM
State	Finished
Completed on	Saturday, 30 August 2025, 8:16 PM
Time taken	8 mins 17 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
#include <stdio.h>
#include <stdlib.h>

int asc(const void *a,const void *b)
{
    return (*(int*)a - *(int*)b);
}
int desc(const void*a,const void*b)
{
    return (*(int*)b - *(int*)a);
}

int main()
{
    int n;
    scanf("%d",&n);
    int A[n],B[n];
    for(int i=0;i<n;i++)
    {
        scanf("%d",&A[i]);
    }
    for(int i=0;i<n;i++)
    {
        scanf("%d",&B[i]);
    }
    qsort(A,n,sizeof(int),asc);
    qsort(B,n,sizeof(int),desc);
    long long sum = 0;
    for(int i = 0;i<n;i++)
    {
        sum+=(long long)A[i]*B[i];
    }
    printf("%lld\n",sum);
    return 0;
}
```

	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.