RAJALAKSHMI ENGINEERING COLLEGE

4 Vedhavyas Pavankalyan G L 2023-IT-A V2

Started on	Sunday, 19 October 2025, 5:45 PM
State	Finished
Completed on	Sunday, 19 October 2025, 5:45 PM
Time taken	19 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 cmpAsc(const void *a, const void *b) {
    return (*(int*)a - *(int*)b);
}

int cmpDesc(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), cmpAsc);
    qsort(B, n, sizeof(int), cmpDesc);

    long long result = 0;
    for (int i = 0; i < n; i++) {
        result += (long long)A[i] * B[i];
    }
    printf("%lld\n", result);
    return 0;
}
```

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

	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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