

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

Dashboard / My courses / CS23331-DAA-2023-CSE / Greedy Algorithms / 5-G-Product of Array elements-Minimum



```
Started on Friday, 4 October 2024, 7:21 PM
              State Finished
     Completed on Friday, 4 October 2024, 7:22 PM
        Time taken 1 min 43 secs
            Marks 1.00/1.00
             Grade 10.00 out of 10.00 (100%)
                    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] *
Correct
                   B[i]) for all i is minimum.
```

Mark 1.00 out of 1.00 P Flag question

Input	Result
3	28
1	
2	
3	
4	
5	
6	

Answer: (penalty regime: 0 %)

```
include <stdio.h

int i, j, temp;

for (i = 0; i < n - 1; i++) {
    for (j = i + 1; j < n; j++) {
        if (arr[i] > arr[j]) {
            temp = arr[i];
            arr[j] = 
                             food sort_descending(int arr[], int n) {
   int i, j, temp;
   for (i = 0; i < n - 1; i++) {
      for (j = i + 1; j < n; j++) {
        if (arr[i] < arr[i]) {
            temp = arr[i];
            arr[i] = arr[j];
            arr[i] = temp;
        }
}</pre>
int main() {
   int n;
   scanf("%d", &n);
   scanf("Mo", &n);
   int array_One[n], array_Two[n];
   for (int i = 0; i < n; i++) {
      scanf("%d", &array_One[i]);
}
                                                                          }
sort_ascending(array_One, n);
sort_descending(array_Iwo, n);
int min_sum = 0;
for (int i = 0; i < n; i++) {
    min_sum += array_One[i] * array_Two[i];
}
```

```
Input Expected Got
                            22
                            590 🗸
 Passed all tests! 🗸
Correct
Marks for this submission: 1.00/1.00.
```