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Started on Friday, 20 September 2024, 1:46 PM

State Finished

Completed on Friday, 20 September 2024, 1:46 PM

Time taken 13 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 an array of N integer, we have to maximize the sum of arr[i] * i, where i is the index of the element (i = 0, 1, 2, ..., N). Write an algorithm based on Greedy technique with a Complexity O(nlogn).

Input Format:

First line specifies the number of elements-n

The next n lines contain the array elements.

Output Format:

Maximum Array Sum to be printed.

Sample Input:

5

25340

Sample output:

40

Answer: (penalty regime: 0 %)

```
include<stdio.h>
 2
     int main(){
 3
         int n;
scanf("%d", &n);
 4
 5
         int a[n];
         for(int i=0; i< n; i++){
 6
              scanf("%d",&a[i]);
 8
 9
          for(int i=0;i<n;i++){
              for(int j=i+1;j<n;j++){
   int t;</pre>
10
11
12
                   if(a[i]>a[j]){
13
                        t-a[j];
14
                       a[j]=a[i];
15
                       a[i]=t;
16
17
              }
18
         }
19
         int sum=0;
         for(int i=0; i< n; i++){
20
21
              sum+=a[i]*i;
22
```

23 | printf("%d",sum); 24 |}

	Input	Expected	Got	
~	5 2 5 3 4 0	40	40	~
~	10 2 2 2 4 4 3 3 5 5	191	191	~
~	2 45 3	45	45	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

◀ 3-G-Burger Problem

Jump to...

5-G-Product of Array elements-Minimum ►