Started on	Tuesday, 1 October 2024, 11:48 AM
State	Finished
Completed on	Tuesday, 1 October 2024, 11:49 AM
Time taken	33 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

2 5 3 4 0

Sample output:

40

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main (){
    int n;
    scanf("%d",&n);
    int arr[n];
    for(int i=0; i<n; i++){
        int x;
        scanf("%d",&x);
        arr[i]=x;

    }
    for (int i=0; i<n; i++) {
        for (int j=i+1; j<n; j++){
            if (arr[i] > arr[j]) {
                int a = arr[i];
                arr[i] = arr[j];
                arr[j] = a;

            }

        }

    }
    int sum=0;
    for(int i=1; i<n; i++){
        sum+=arr[i]*i;
    }
        printf("%d",sum);
}
```

	Input	Expected	Got	
✔	5 2 5 3 4 0	40	40	✔
✔	10 2 2 2 4 4 3 3 5 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 ►