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Started on	Tuesday, 20 August 2024, 2:45 PM
State	Finished
Completed on	Tuesday, 27 August 2024, 2:52 PM
Time taken	7 days
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 ( $i = 0, 1, 2, \dots, N$ ). Write an algorithm based on Greedy technique with a Complexity  $O(n \log n)$ .

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 %)

```
#include<stdio.h>
#include<math.h>
int main(){
    int a;
    scanf("%d",&a);
    int aaa[a];
    int aa;
    for(int i=0;i<a;i++){
        scanf("%d",&aaa[i]);
    }
    for(int i=0;i<a;i++){
        for(int j=i+1;j<a;j++){
            if(aaa[i]>aaa[j]){
                aa=aaa[i];
                aaa[i]=aaa[j];
                aaa[j]=aa;
            }
        }
    }
}
```

	Input	Expected	Got	
✓	5 2 5 3 4 0	40	40	✓
✓	10 2 2 2 4 4 3 3 5 5 5	191	191	✓

	Input	Expected	Got	
✓	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 ▶