

Dashboard My courses

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## 4-G-Array Sum max problem

Started on	Thursday, 28 August 2025, 9:16 AM
State	Finished
Completed on	Thursday, 28 August 2025, 9:21 AM
Time taken	5 mins 31 secs
Marks	1.00/1.00
Grade	<b>10.00</b> out of 10.00 ( <b>100</b> %)

## Question 1 | Correct Mark 1.00 out of 1.00 | Flag question

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 %)

```
1 #include<stdio.h>
 2 v int main(){
        int n;
 3
        scanf("%d",&n);
        int a[n];
 5
        for(int i=0;i<n;i++){</pre>
 6 ,
            scanf("%d",&a[i]);
 7
 8
9
10 •
        for(int i=0;i<n;i++){</pre>
            for(int j=i+1;j<n;j++){</pre>
11 •
12 •
                if(a[i]>a[j]){
                     int t=a[i];
13
14
                     a[i]=a[j];
15
                     a[j]=t;
16
17
18
19
20
        int sum=0;
21
22 •
        for(int i=0;i<n;i++){</pre>
23
            sum+=(a[i]*i);
24
25
        printf("%d",sum);
26
27
        return 0;
28 }
```

	Input	Expected	Got	
~	5	40	40	~

	2 5 3 4			
*	10 2 2 2 4 4 3 3 5	191	191	•
•	2 45 3	45	45	*

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

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