```
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>
     #include<stdlib.h>
 3
 4 v int comp(const void *a, const void* b){
         int A = *((int*)a);
int B = *((int*)b);
 5
 6
 7
         return A-B;
    }
 8
 9
10 v int main(){
11
         int n;
         scanf("%d",&n);
12
          int *arr = malloc(sizeof(int)*n);
13
         for(int i=0;i<n;i++){
    scanf("%d",&arr[i]);</pre>
14 ▼
15
16
         qsort(arr,n,sizeof(int),comp);
17
         int sum = 0;
18
19
         for(int i=0;i<n;i++)</pre>
         sum+= (i*arr[i]);
printf("%d",sum);
20
21
22
         return 0;
23
24 }
```

	Input	Expected	Got	
~	5	40	40	~
	2			
	5			
	3			
	4			
	0			
<b>~</b>	10	191	191	~
	2			
	2			
	2			
	4			
	4			
	3			
	3			
	5			
	5			
	5			

2 of 3 11/12/24, 09:48

	Input	Expected	Got	
~	2	45	45	~
	45			
	3			

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 ▶

3 of 3 11/12/24, 09:48