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

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