```
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

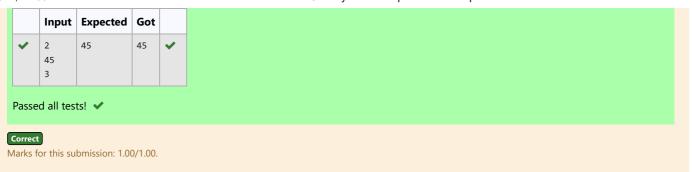
Sample output:

40

**Answer:** (penalty regime: 0 %)

```
#include<stdio.h>
 2 ,
    int main(){
 3
         int n,i,j,sum=0;
         scanf("%d",&n);
 4
         int arr[n];
 5
 6
         for(i=0;i<n;i++)</pre>
 7
         {
 8
             scanf("%d",&arr[i]);
 9
         }
10
         int temp=0;
11
         for(i=0;i<n;i++){</pre>
12
         for(j=i+1;j<n;j++)</pre>
13
         { if(arr[i]>arr[j]){
14
             temp=arr[i];
15
             arr[i]=arr[j];
16
             arr[j]=temp;}
17
         }}
18
         for(i=1;i<n;i++){</pre>
19
             sum+=arr[i]*i;
20
21
         printf("%d",sum);
22
23
   }
```

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



## ◄ 3-G-Burger Problem

Jump to... \$

5-G-Product of Array elements-Minimum ►