



Started on	Wednesday, 3 September 2025, 9:02 AM
State	Finished
Completed on	Wednesday, 3 September 2025, 9:29 AM
Time taken	26 mins 25 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100 %)

Question 1 | Correct Mark 1.00 out of 1.00

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A person needs to eat burgers. Each burger contains a count of calorie. After eating the burger, the person needs to run a
distance to burn out his calories.
   If he has eaten i burgers with c calories each, then he has to run at least 3^i * c kilometers to burn out the calories. For
 example, if he ate 3
  burgers with the count of calorie in the order: [1, 3, 2], the kilometers he needs to run are (3^0 * 1) + (3^1 * 3) + (3^2 * 2) = (3^0 * 1) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 * 3) + (3^1 *
1 + 9 + 18 = 28.
  But this is not the minimum, so need to try out other orders of consumption and choose the minimum value. Determine the
minimum distance
  he needs to run. Note: He can eat burger in any order and use an efficient sorting algorithm. Apply greedy approach to solve
the problem.
Input Format
First Line contains the number of burgers
Second line contains calories of each burger which is n space-separate integers
Output Format
Print: Minimum number of kilometers needed to run to burn out the calories
Sample Input
5 10 7
Sample Output
76
```

For example:

Test	Input	Result	
Test Case 1	3	18	
	1 3 2		

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
    #include<math.h>
    int main(){
 3 🔻
 4
         int n;
         scanf("%d",&n);
 5
 6
         int c[n];
 7
         for(int i=0; i< n; i++){
 8
             scanf("%d",&c[i]);
 9
             for(int i=0;i<n-1;i++){</pre>
10
                  for(int j=0; j<n-i-1; j++){
11 •
12
                      if(c[j]<c[j+1]){</pre>
13
                          int temp=c[j];
                          c[j]=c[j+1];
14
15
                          c[j+1]=temp;
16
                      }
17
18
         int total=0;
19
         for(int i=0; i< n; i++){
20 .
21
             total+=pow(n,i)*c[i];
22
23
         printf("%d",total);
24
```

	Test	Input	Expected	Got	
~	Test Case 1	3 1 3 2	18	18	~
~	Test Case 2	4 7 4 9 6	389	389	~
~	Test Case 3	3 5 10 7	76	76	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Back to Course