RAJALAKSHMI ENGINEERING COLLEGE

7 SIVA S 2024-CSE S2

Started on	Wednesday, 8 October 2025, 3:56 PM
State	Finished
Completed on	Wednesday, 8 October 2025, 3:58 PM
Time taken	1 min 37 secs
Marks	0.00/1.00
Grade	**0.00** out of 10.00 (**0**%)

Question 1 | Incorrect Mark 0.00 out of 1.00

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 $(3^0 * 1) + (3^1 * 3) + (3^2 * 2) = 1 + 9 + 18 = 28$.

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

```
3
5 10 7
```

Sample Output

```
76
```

For example:

Test	Input	Result
Test Case 1	3 1 3 2	18

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
#include <stdlib.h>
#include <math.h>

// Sort in descending order
int compare(const void *a, const void *b) {
    return (*(int *)b - *(int *)a);
}

int main() {
    int n;
    scanf("%d", &n);
    int calories[n];

    for (int i = 0; i < n; i++) {
        scanf("%d", &calories[i]);
    }

    // Sort calories in descending order
    qsort(calories, n, sizeof(int), compare);

    long long total = 0;
```

	Test	Input	Expected	Got	
✔	Test Case 1	3 1 3 2	18	18	✔
✔	Test Case 3	3 5 10 7	76	76	✔

Your code failed one or more hidden tests.

Your code must pass all tests to earn any marks. Try again.

Incorrect

Marks for this submission: 0.00/1.00.

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