

[Dashboard](#)   [My courses](#)[CS23331-DAA-2024-CSE](#) / 3-G-Burger Problem

## 3-G-Burger Problem

Started on	Sunday, 31 August 2025, 3:53 PM
State	Finished
Completed on	Sunday, 31 August 2025, 3:54 PM
Time taken	1 min 12 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 %)

```
1 #include <stdio.h>  
2 #include <stdlib.h>  
3  
4 int compare(const void *a, const void *b) {  
5     return (*(int *)a - *(int *)b);  
6 }  
7  
8 int main() {  
9     int n;  
10    scanf("%d", &n);  
11    int calories[n];  
12    for (int i = 0; i < n; i++) {  
13        scanf("%d", &calories[i]);  
14    }  
15  
16    qsort(calories, n, sizeof(int), compare);  
17    long long totalDistance = 0;  
18    for (int i = 0; i < n; i++) {  
19        totalDistance += (3 * (i + 1) * calories[i]);  
20    }  
21  
22    printf("%lld\n", totalDistance);  
23    return 0;  
24 }  
25 }
```

	Test	Input	Expected	Got	
✗	Test Case 1	3 1 3 2	18	42	✗

		1 3 2			
✗	Test Case 3	3	76	147	✗

Some hidden test cases failed, too.

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

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

[Finish review](#)

[Back to Course](#)

Data retention summary