The Efficient Janitor

locked

Problem Submissions Leaderboard

The janitor of a high school, Mr. Mayank Chaturvedi, is extremely efficient. By the end of each day, all of the school's waste is in plastic bags, weighing between 1.01 pounds and 3.00 pounds. All plastic bags are then taken to the trash bins outside. One trip is described as selecting a number of bags which together do not weigh more than 3.00 pounds (Mr. Mayank Chaturvedi is not much muscular), dumping them in the outside trash can and returning to the school. Given the number of plastic bags N, and the weights of each bag, determine the minimum number of trips the janitor has to make.

Input Format

- The first line contains a single positive number N, which denotes the total number of plastic bags
- The second line contains N space separated real numbers $W_1, W_2, \ldots, W_N$, which denote the weights of these N bags.

Constraints

- $1 \leq N \leq 1000000$
- $1.01 \leq W_i \leq 3.00$

Output Format

Output a single integer - the minimum number of trips the janitor has to make.

Sample Input 0

```
5
1.01 1.99 2.5 1.5 1.01
```

Sample Output 0

```
3
```

Explanation 0

The janitor can carry all plastic bags out in 3 trips: [1.01+1.99, 2.5, 1.5+1.01]

Submissions: 324
Max Score: 100
Difficulty: Easy

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Current Buffer (saved locally, editable) C

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

int main() {

    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}
```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code