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9. Efficient Janitor

The janitor of a high school 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, 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.

Example
 $n = 5$
 $weight = [1.01, 1.99, 2.5, 1.5, 1.01]$

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

Function Description
Complete the function *efficientJanitor* in the editor below.

efficientJanitor has the following parameter(s):
float weight[n]: weights of the bags

Returns
int: the minimum number of trips required

Constraints

- $1 \leq n \leq 1000$
- $1.01 \leq weight[i] \leq 3.0$

► Input Format For Custom Testing

▼ Sample Case 0

Sample Input For Custom Testing

STDIN	Function
5	→ weight[] size n = 5
1.01	→ weight = [1.01, 1.01, 1.01, 1.4, 2.4]

◀ ▶

Sample Output

3

Explanation

The janitor can carry all plastic bags out in 3 trips:
The first 2 plastic bags together, the 3rd and 4th together and the last one alone

► Sample Case 1

PHPAutocomplete not supported

```
1 > <?php ...
4
5 /*
6  * Complete the 'efficientJanitor' function below.
7  *
8  * The function is expected to return an INTEGER.
9  * The function accepts FLOAT_ARRAY weight as parameter.
10 * /
11
12 function efficientJanitor($weight) {
13     // Write your code here
14 }
15
16
17 > $fptr = fopen(getenv("OUTPUT_PATH"), "w"); ...
```

Line: 4 Col: 1

Test ResultsCustom Input

RunSubmit Code