Problem 1276: Number of Burgers with No Waste of Ingredients

Problem Information

Difficulty: Medium
Acceptance Rate: 50.69%
Paid Only: No
Tags: Math

Problem Description

Given two integers `tomatoSlices` and `cheeseSlices`. The ingredients of different burgers are as follows:

* **Jumbo Burger:** `4` tomato slices and `1` cheese slice. * **Small Burger:** `2` Tomato slices and `1` cheese slice.

Return `[total_jumbo, total_small]` so that the number of remaining `tomatoSlices` equal to `0` and the number of remaining `cheeseSlices` equal to `0`. If it is not possible to make the remaining `tomatoSlices` and `cheeseSlices` equal to `0` return `[]`.

Example 1:

Input: tomatoSlices = 16, cheeseSlices = 7 **Output:** [1,6] **Explantion:** To make one jumbo burger and 6 small burgers we need 4*1 + 2*6 = 16 tomato and 1 + 6 = 7 cheese. There will be no remaining ingredients.

Example 2:

Input: tomatoSlices = 17, cheeseSlices = 4 **Output:** [] **Explantion:** There will be no way to use all ingredients to make small and jumbo burgers.

Example 3:

Input: tomatoSlices = 4, cheeseSlices = 17 **Output:** [] **Explantion:** Making 1 jumbo burger there will be 16 cheese remaining and making 2 small burgers there will be 15 cheese

remaining.

Constraints:

* `0 <= tomatoSlices, cheeseSlices <= 107`

Code Snippets

C++:

```
class Solution {
public:
vector<int> numOfBurgers(int tomatoSlices, int cheeseSlices) {

}
};
```

Java:

```
class Solution {
public List<Integer> numOfBurgers(int tomatoSlices, int cheeseSlices) {

}
}
```

Python3:

```
class Solution:
def numOfBurgers(self, tomatoSlices: int, cheeseSlices: int) -> List[int]:
```