

Problem 2443: Sum of Number and Its Reverse

Problem Information

Difficulty: Medium

Acceptance Rate: 48.94%

Paid Only: No

Tags: Math, Enumeration

Problem Description

Given a **non-negative** integer `num`, return `true` _if_ `num` _can be expressed as the sum of any**non-negative** integer and its reverse, or `false` _otherwise._

Example 1:

Input: num = 443 **Output:** true **Explanation:** $172 + 271 = 443$ so we return true.

Example 2:

Input: num = 63 **Output:** false **Explanation:** 63 cannot be expressed as the sum of a non-negative integer and its reverse so we return false.

Example 3:

Input: num = 181 **Output:** true **Explanation:** $140 + 041 = 181$ so we return true. Note that when a number is reversed, there may be leading zeros.

Constraints:

* `0 <= num <= 105`

Code Snippets

C++:

```
class Solution {  
public:  
bool sumOfNumberAndReverse(int num) {  
  
}  
};
```

Java:

```
class Solution {  
public boolean sumOfNumberAndReverse(int num) {  
  
}  
}
```

Python3:

```
class Solution:  
def sumOfNumberAndReverse(self, num: int) -> bool:
```