

009 Palindrome Number

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Question:

Determine whether an integer is a palindrome. Do this without extra space.

来自 <<https://leetcode.com/problems/palindrome-number/description/>>

判断一个整数是否是回文数。不能使用辅助空间。

Solution for Python3:

```
1 class Solution:
2     def isPalindrome(self, x):
3         """
4         :type x: int
5         :rtype: bool
6         """
7         if (x < 0) or (x != 0 and x % 10 == 0):
8             return False
9         sum = 0
10        while x > sum:
11            sum = sum * 10 + x % 10
12            x //= 10
13        return (x == sum) or (x == sum // 10)
```

Solution for C++:

```
1 class Solution {
2 public:
3     bool isPalindrome(int x) {
4         if (x < 0 || (x != 0 && x % 10 == 0)) {
5             return false;
6         }
7         int sum = 0;
8         while (x > sum) {
9             sum = sum * 10 + x % 10;
```

```
10             x /= 10;
11         }
12         return (x == sum) || (x == sum / 10);
13     }
14 };
```

Appendix:

Python的与或非表示: and,or,not

Python3普通除法(/)和整除(//)

边界条件: 负数, 0, 一位整数, 10的倍数