007 Reverse Integer

2018年3月25日 17:26

Question:

Given a 32-bit signed integer, reverse digits of an integer. 给出一个32位的有符号整数,反转该整数的数字部分。

Example:
Input: 123
Output: 321
Input: -123
Output: -321
Input: 120

Note:

Output: 21

Assume we are dealing with an environment which could only hold integers within the 32-bit signed integer range. For the purpose of this problem, assume that your function returns 0 when the reversed integer overflows.

来自 < https://leetcode.com/problems/reverse-integer/description/>

Solution for Python3:

```
class Solution:
1
2
       def reverse(self, x):
3
4
            :type x: int
5
            :rtype: int
6
7
           C = (X > 0) - (X < 0)
           t = int(str(c*x)[::-1])
8
            return c * t * (t < 2**31)
9
```

Solution for C++:

```
class Solution {
public:
    int reverse(int x) {
       long t = 0;
    while ( x != 0) {
       t = t * 10 + x % 10;
      x /= 10;
}
```

```
8      }
9      return (int(t) == t) * t;
10     }
11 };
```

Appendix:

一个数x>0,=0,<0分别用1,0,-1表示1) t = (x > 0) - (x < 0)