Problem 7: Reverse Integer

Problem Information

Difficulty: Medium
Acceptance Rate: 31.07%
Paid Only: No
Tags: Math

Problem Description

Given a signed 32-bit integer `x`, return `x` _with its digits reversed_. If reversing `x` causes the value to go outside the signed 32-bit integer range `[-231, 231 - 1]`, then return `0`.

Assume the environment does not allow you to store 64-bit integers (signed or unsigned).

Example 1:

Input: x = 123 **Output:** 321

Example 2:

Input: x = -123 **Output:** -321

Example 3:

Input: x = 120 **Output:** 21

Constraints:

* `-231 <= x <= 231 - 1`

Code Snippets

C++:

```
class Solution {
public:
int reverse(int x) {

}
};
```

Java:

```
class Solution {
public int reverse(int x) {

}
}
```

Python3:

```
class Solution:
def reverse(self, x: int) -> int:
```