# 7. Reverse Integer

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  $[-2^{31}, 2^{31} - 1]$ , 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:**

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$$-2^{31} \le x \le 2^{31} - 1$$