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[Description](#) | [Editorial](#) | [Solutions](#) | [Submit](#)

[Solved](#)

7. Reverse Integer

[Medium](#) [Topics](#)

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:

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

15.2K 649

244 Online

Code

Python3

```
1 class Solution:
2     def reverse(self, x):
3         INT_MAX = 2**31 - 1
4         INT_MIN = -2**31
5         sign = 1 if x >= 0 else -1
6         num = abs(x)
7         rev = 0
8         while num != 0:
9             rem = num % 10
10            num = num // 10
11            rev = rev * 10 + rem
12            if rev > INT_MAX or rev < INT_MIN:
13                return 0
14        return sign * rev
```

Saved

Testcase | Test Result

Accepted Runtime: 41ms

Case 1 Case 2

Input

```
x = 123
```

<https://leetcode.com/problems/reverse-integer/submissions/1890699838/>

Page 1 of 1