

Reverse Signed Number

Given a 32-bit signed integer n , reverse its digits and return the result. If reversing n causes the value to exceed the 32-bit signed integer range $[-2^{31}, 2^{31} - 1]$, return 0.

Assume the environment only supports 32-bit signed integers.

Examples:

Example 1:

Input: $n = 123$

Output: 321

Example 2:

Input: $n = -123$

Output: -321

Example 3:

Input: $n=120$

Output: 21

Constraints:

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