

```
def reverse_integer(x):
    # Define the limits for 32-bit signed integer
    INT_MIN = -2**31
    INT_MAX = 2**31 - 1

    # Convert the integer to a string and reverse it
    sign = -1 if x < 0 else 1
    reversed_str = str(abs(x))[::-1]

    # Convert back to integer and apply the original sign
    reversed_int = sign * int(reversed_str)

    # Check if the reversed integer is within the 32-bit signed integer range
    if reversed_int < INT_MIN or reversed_int > INT_MAX:
        return 0

    return reversed_int

# Example inputs
print(reverse_integer(123)) # Output: 321
print(reverse_integer(-123)) # Output: -321
print(reverse_integer(120)) # Output: 21
```