

@LeetCode

Given two integers `dividend` and `divisor`, divide two integers without using multiplication, division and mod operator.

Return the quotient after dividing `dividend` by `divisor`.

The integer division should truncate toward zero.

**Example 1:**

**Input:** `dividend = 10, divisor = 3`

**Output:** `3`

**Example 2:**

**Input:** `dividend = 7, divisor = -3`

**Output:** `-2`

**Note:**

- Both dividend and divisor will be 32-bit signed integers.
- The divisor will never be 0.
- Assume we are dealing with an environment which could only store integers within the 32-bit signed integer range:  $[-2^{31}, 2^{31} - 1]$ . For the purpose of this problem, assume that your function returns  $2^{31} - 1$  when the division result overflows.