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29. Divide Two Integers

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

The integer division should truncate toward zero, which means losing its fractional part. For example, `8.345` would be truncated to `8`, and `-2.7335` would be truncated to `-2`.

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

Note: Assume we are dealing with an environment that could only store integers within the **32-bit** signed integer range: $[-2^{31}, 2^{31} - 1]$. For this problem, if the quotient is **strictly greater than** $2^{31} - 1$, then return $2^{31} - 1$, and if the quotient is **strictly less than** -2^{31} , then return -2^{31} .

Example 1:

Input: `dividend = 10, divisor = 3`

Output: `3`

Explanation: `10/3 = 3.33333..` which is truncated to `3`.

Example 2:

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

Output: `-2`

Explanation: `7/-3 = -2.33333..` which is truncated to `-2`.

Constraints:

- $-2^{31} \leq \text{dividend}, \text{divisor} \leq 2^{31} - 1$
- `divisor != 0`

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class Solution {

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public int divide(int dividend, int divisor) {

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}

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