

367. Valid Perfect Square

Given a positive integer num, return true if num is a perfect square or false otherwise.

A perfect square is an integer that is the square of an integer. In other words, it is the product of some integer with itself.

You must not use any built-in library function, such as sqrt.

Example 1:

- **Input:** num = 16
- **Output:** true
- **Explanation:** We return true because $4 * 4 = 16$ and 4 is an integer.

Example 2:

- **Input:** num = 14
- **Output:** false
- **Explanation:** We return false because $3.742 * 3.742 = 14$ and 3.742 is not an integer.

Constraints:

- $1 \leq \text{num} \leq 2^{31} - 1$