

Given a non-negative integer x, return the square root of x rounded down to the nearest integer. The returned integer should be **non-negative** as well.

You **must not use** any built-in exponent function or operator.

• For example, do not use pow(x, 0.5) in c++ or x \*\* 0.5 in python.

## Example 1:

Input: x = 4
Output: 2
Explanation: The square root of 4 is 2, so we return 2.

## Example 2:

Input: x = 8
Output: 2
Explanation: The square root of 8 is 2.82842..., and since we round it down to the

## **Constraints:**

•  $0 <= x <= 2^{31} - 1$ 

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□ Notes