69. Sqrt(x)

Easy 2057 2408 Add to List Share

Given a non-negative integer `x`, compute and return *the square root of* `x`.

Since the return type is an integer, the decimal digits are **truncated**, and only **the integer part** of the result is returned.

Note: You are not allowed to use any built-in exponent function or operator, such as `pow(x, 0.5)` or `x ** 0.5`.

Example 1:

```
Input: x = 4
Output: 2
```

Example 2:

```
Input: x = 8
Output: 2
Explanation: The square root of 8 is 2.82842..., and since the decimal part is truncated, 2 is returned.
```

Constraints:

- `0 <= x <= 2^31 - 1`

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Try exploring all integers. (Credits: @annujoshi)

Hide Hint 2

Use the sorted property of integers to reduced the search space. (Credits: @annujoshi)