Implement int sqrt(int x).

Compute and return the square root of *x*, where *x* is guaranteed to be a non-negative integer.

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

**Example 1:**

**Input:** 4

**Output:** 2

**Example 2:**

**Input:** 8

**Output:** 2

**Explanation:** The square root of 8 is 2.82842..., and since

  the decimal part is truncated, 2 is returned.