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Python3 Autocomplete

69. Sqrt(x)

Easy 2352 2539 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:

- $0 \leq x \leq 2^{31} - 1$

Accepted 786,820 Submissions 2,194,901

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```
1 class Solution:
2     def mySqrt(self, x: int) -> int:
3
4         l, r = 0, x
5         while l <= r:
6             mid = l + (r-l)//2
7             if mid * mid <= x < (mid+1)*(mid+1):
8                 return mid
9             elif x < mid * mid:
10                r = mid - 1
11            else:
12                l = mid + 1
13
```

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Testcase Run Code Result Debugger

Accepted

Runtime: 38 ms

Your input

4

Output

2

Diff

Expected

2

Console

[Use Example Testcases](#)

Run Code

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