69. Sqrt(x)

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.

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.

```
def mySqrt(self, x: int) -> int:
    lo = 1
    hi = x

while lo<=hi:
    mid = (lo+hi)//2
    if mid*mid==x:
        return mid
    elif mid*mid>x:
        hi = mid-1
    elif mid*mid<x:
        lo = mid+1

return hi</pre>
```