69. Sqrt(x)

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.

**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 nearest integer, 2 is returned.

**Constraints:**

* 0 <= x <= 231 - 1

Solution

public class Solution {

    public int MySqrt(int x) {

        double ans =  Math.Sqrt(x);

        int res = Convert.ToInt32(Math.Floor(ans));

        return res;

    }

}