Given an integer n, return the smallest integer a, such that a is a square of some integer and is greater than n.

**Example**

For n = 5, the output should be  
nextSquare(n) = 9.

**Input/Output**

* **[time limit] 3000ms (cs)**
* **[input] integer n**

*Guaranteed constraints:*  
1 ≤ n < 231.

* **[output] integer**

The smallest square that is greater than n.

<https://codefights.com/challenge/DCMvQpeqXo3EjPjG3?utm_source=emailNotification&utm_medium=email&utm_campaign=featuredChallenge>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static int nextSquare(int n)

{

n++;

while ( (int)Math.Sqrt(n) \* (int)Math.Sqrt(n) != n)

{

n++;

}

return n;

}

static void Main(string[] args)

{

Console.WriteLine(nextSquare(9802));

Console.ReadLine();

}

}

}