Given an integer num, repeatedly add all its digits until the result has only one digit, and return it.

**Example 1:**

**Input:** num = 38

**Output:** 2

**Explanation:** The process is

38 --> 3 + 8 --> 11

11 --> 1 + 1 --> 2

Since 2 has only one digit, return it.

**Example 2:**

**Input:** num = 0

**Output:** 0

**Constraints:**

* 0 <= num <= 231 - 1

Solution :

public class Solution {

    public int AddDigits(int num) {

        // Break down the Number

        int sum = 0;

        while(num >= 10){

            sum = 0;

            while(num >= 10){

                int rem = num%10;

                sum = sum + rem;

                num = num/10;

            }

            sum += num;

            num = sum;

        }

        return num;

    }

}