569. Add Digits

* [Description](http://www.lintcode.com/en/problem/add-digits/" \l "description)
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* [Judge](http://www.lintcode.com/en/problem/add-digits/#judge)

Given a non-negative integer num, repeatedly add all its digits until the result has only one digit.

Have you met this question in a real interview?

Yes

**Example**

Given num = 38.  
The process is like: 3 + 8 = 11, 1 + 1 = 2. Since 2 has only one digit, return 2.

<http://www.lintcode.com/en/problem/add-digits/>

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package javaapplication13;

/\*\*

\*

\* @author Usuario

\*/

public class JavaApplication13 {

/\*\*

\* @param args the command line arguments

\*/

public static int Sum(int num) {

int sum = 0;

while(num > 0) {

sum += (num % 10);

num/=10;

}

return sum;

}

public static int addDigits(int num) {

// write your code here

int sum = Sum(num);

while(String.valueOf(sum).length() > 1) {

sum = Sum(sum);

}

return sum;

}

public static void main(String[] args) {

// TODO code application logic here

int num = 38;

System.out.println( addDigits(num));

}

}