1. **Ethiopian Division**

# Program Name: EthiopianDivision.java Input File: ethiopiandivision.dat

You have decided to once again travel to Ethiopia, because you enjoyed your visit so much last time. During a tour of the Ethiopian wilderness, you lose sight of your tour guide and end up lost in the vast wilderness again. In an attempt to make it back to your tour guide, you are kidnapped by a rival clan of shamans. The only way to escape is to teach them the ways of Ethiopian division.

**Input**

* Each of the following n lines will contain three integers, x < 231 – 1, separated by a single white space
* Each line of input contains x, y, z

**Output**

For each dataset in the input, determine whether (x^y-1)/(x^z-1) is an integer consisting of less than 100 digits. Print the formula and its value, or followed by “isn’t an integer containing 100 digits or less.” if it does not satisfy the condition previously stated.

**Example Input File**

2 9 3

2 3 2

58 9 8

**Example Output to Screen**

(2^9-1)/(2^3-1) 73

(2^3-1)/(2^2-1) isn’t an integer containing 100 digits or less.

(58^9-1)/(58^8-1) isn’t an integer containing 100 digits or less.