## P7. Math division

In math, division is quite tricky, such that given numerator a is divided by

a denominator b, the division result r is as follows:

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* if both a = 0 and b = 0 then the division is not defined. So, report "Not defined" to a user;
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\* if  $a \neq 0$ , b = 0 then r will be  $\infty$  when a > 0

Or r will be  $-\infty$  when a < 0;

So, report either "Infinity" or "Negative infinity" as fit;

\* otherwise  $r = a \div b$  (for regular division) and report the division result.

Example 1:

a: <b>10</b>
b: <b>2</b>
a/b = 5.0
Example 2:
a: 0
b: <b>2</b>
a/b = 0.0

## Example 3:

a: 2

b: 0

a/b = Infinity

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## Example 4:

a: -2

b: 0

a/b = Negative Infinity

## Example 5:

a: 0 b: 0

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a/b = Not defined