

I'm almost there... just 2 more! How much harder can it get?

[One feels a strange presence very near to the left ear. "quite a bit harder!" says a childish voice the white rabbit jumps from near the shoulder and proceeds to another wall of text]







New in Level 7:

Complex expressions





In this level, values used in statements can now be obtained by either arithmetic expressions or boolean expressions, or combination of both if the context allows it.





An arithmetic Expression can be one of the following:

- an integer
- a **variable** that contains an integer
- a function call that returns an integer
- (arithmeticExpression)
- arithmeticExpression + arithmeticExpression
- arithmeticExpression * arithmeticExpression

The value of any arithmetic expression will never exceed 10 to the power of 18

If the expression **operands** for **+** or ***** cannot be resolved to integers, an error will be produced.





A boolean Expression can be one of the following:

- true
- false
- a **variable** contains an boolean
- a function call that returns a boolean
- (booleanExpression)
- booleanExpression and booleanExpression
- booleanExpression or booleanExpression
- arithmeticExpression < arithmeticExpression
- value == other value





For == the values can be arithmeticExpression, booleanExpression or string.

It returns **true** if both sides have the same **type** and are **equal**, otherwise it returns **false**.

If the expression operands for **and** or **or** cannot be resolved to **booleans** or the operands for **<** cannot be resolved to **integers**, an **error** will be produced and dealt with, as was described in the previous level.

Expressions are always evaluated from **right** to **left**, with respect to the precedence order, **parentheses**, **function calls**, *, +, <, ==, and, or.

Which also implies that the **expression** of the **right operand** always gets **resolved** but the type **check** will be done once both operands are resolved.

Considering these changes execute all the functions like in the previous levels.





The input format is identical to last level



	Input	Output
	34 start print 1 + 2	33756trueerrorcatched
	<pre>print call (1 + 2) print call call call 5 + 2 print call (call call 5 + 0) print 2 * (1 + 2) print true or call (call 2 * 4)</pre>	truefalsetruetruefalsefalse
	try print true and call 2 + 0 end catch	
	print errorcatched end	
	end start return 1	
Example	end	
	start	
	return 3 end	
	start	
	return false	
	end	
	start	
	return 5	
	end	
	start print 1 < 2	
	print 1 < 2 print 2 < 1	
	print 1 + 2 < 1 + 3	
	print 1 + 2 < 1 + 3 == true	
	print 1 + 2 < 1 + 3 == string	
	print 1 + 2 < 1 + 3 == 4	
	end	CLOUDFLIG



