**CS 542: Are these Boolean expressions equivalent?**

This program builds upon the last program; it presumes that you have a function (or some such) that can evaluate an expression like

0 & 1 | (1 & !1)

and determine that its value is 0.

This program will input as many non-blank lines as the user wants to enter, terminating when the user enters a blank line.

Each non-blank line will be a pair of Boolean expressions separated by a comma. The expressions can have all the chars mentioned in the last homework, plus any upper case letters that the user chooses to use as variables.

This program, like the last one, does not have to do any error checking; your program can assume without checking that all the inputs are valid.

For each non-blank line, your program will output whether the two expressions are equivalent — that is, whether they give the same result for every combination of values for the variables.

An example run of your program might go as

A & P | Z, A | P & Z

not equivalent

A & B, !(!A | !B)

equivalent

A ^ Z, A&Z | !A&!Z

equivalent

(blank line above terminates program.)