Write a Java program to read and simulate the execution of a program written in a highly simplified programming language. Each line in the input contains one statement. There are no declaration statements; all values are of type double. Statements in the language are in the following forms:

Simple Statements	Meaning
variable = expression	The <i>expression</i> consists of variables, constants,
	and the simple arithmetic operators (+, -, *, /)
	with blanks as delimiters. It is evaluated left to
	right and the result is placed in the <i>variable</i> .
	Note that there is no hierarchy among the
	operators and parentheses are not allowed.
PRINT variable	The value of the <i>variable</i> should be displayed
	with two digits to the right of the decimal
	point.
GOTO n	Execution moves to the n^{th} line of the program.
	The first line in the program is line 1.
Conditional Statement	Meaning
IF variable IS value THEN simpleStatement	If the <i>variable</i> is equal to <i>value</i> (a variable or a
	constant), the <i>simpleStatement</i> is performed.
End of Program Marker	Meaning
END	This is the last statement in a program. There
	are no statements following this. When
	execution reaches this statement, the program
	is terminated.

The GUI will include a "Next Program" button which allows the user to select a file containing a program to be executed. The program in the selected file is then executed and the output (result of the PRINT statements) should be displayed in a scrollable text area.

NOTE

Use of an array is NOT acceptable in this assignment.

As in Lab 1, you will be given code for the GUI.

Also, error checking is required.