1 The language

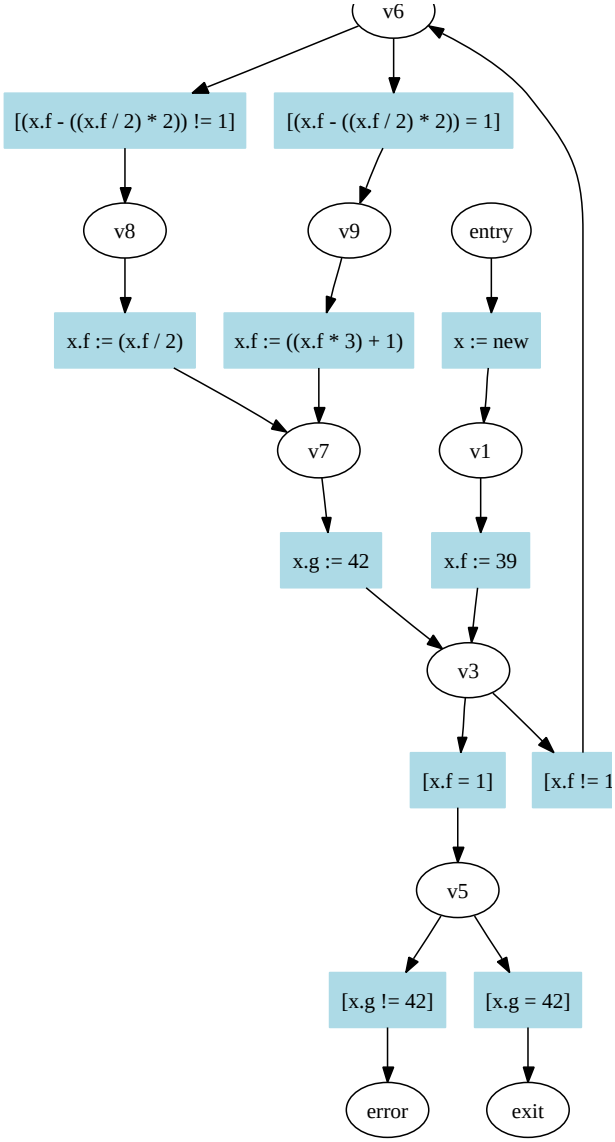
We work on a CFG, the following program statements can occur:

$$
\begin{array}{rcl}
\text{statement} & ::= & x.f := \text{expression} \mid x := y \mid x := new \\
\text{formula} & ::= & \text{expression} = \text{expression} \mid \text{expression} \neq \text{expression} \mid \\
 & & \text{expression} \leq \text{expression} \mid \text{expression} \geq \text{expression} \mid \\
 & & \text{expression} < \text{expression} \mid \text{expression} > \text{expression} \\
\text{expression} & ::= & \text{atomic} \mid \text{expression} + \text{expression} \mid \text{expression} - \text{expression} \mid \\
 & & \text{expression} * \text{expression} \mid \text{expression}/\text{expression} \\
\text{atomic} & ::= & x.f \mid \mathbf{c}
\end{array}
$$

x, y variables, f, g fields. $\mathbf{c}$ constant

1.1 Assertions

Assertions are implemented as conditional jumps to an error state.



What about labels?