CyndaQuil Grammar Sheet

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$$[\text{Program}] \to [\text{Statement}]^* \tag{1}$$

$$[\text{Statement}] \to \begin{cases} run\ [\text{Expression}] \sim \\ catch\ [\text{Expression}]\ as\ \text{identifier} \sim \\ \{[\text{Statement}]^*\} \end{cases} \tag{2}$$

$$[\text{expression}] \to \begin{cases} [\text{Term}] \\ [\text{Binary Expression}] \end{cases} \tag{3}$$

$$[\text{Binary Expression}] \to \begin{cases} [\text{Expression}] * [\text{Expression}] & \text{precedence} = 1 \\ [\text{Expression}] \div [\text{Expression}] & \text{precedence} = 1 \\ [\text{Expression}] + [\text{Expression}] & \text{precedence} = 0 \\ [\text{Expression}] - [\text{Expression}] & \text{precedence} = 0 \end{cases} \tag{4}$$

$$[\text{Term}] \to \begin{cases} \text{integer\_literal} \\ \text{identifier} \\ ([\text{Expression}]) \end{cases} \tag{5}$$