

BNF for the Gryph Programming Language

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1 General structure

2 Expressions

$$\begin{aligned}\langle \text{expr} \rangle & \models \langle \text{term} \rangle \mid \langle \text{term} \rangle \langle \text{expr-aux} \rangle \\ \langle \text{expr-aux} \rangle & \models \langle \text{bin-op-p0} \rangle \langle \text{term} \rangle \mid \langle \text{bin-op-p0} \rangle \langle \text{term} \rangle \langle \text{expr-aux} \rangle \\ \langle \text{term} \rangle & \models \langle \text{un-op} \rangle \langle \text{term} \rangle \mid \langle \text{un-op} \rangle \langle \text{term} \rangle \langle \text{term-aux} \rangle \mid \langle \text{factor} \rangle \mid \langle \text{factor} \rangle \langle \text{term-aux} \rangle \\ \langle \text{term-aux} \rangle & \models \langle \text{bin-op-p1} \rangle \langle \text{factor} \rangle \mid \langle \text{bin-op-p1} \rangle \langle \text{factor} \rangle \langle \text{term-aux} \rangle \\ \langle \text{un-op} \rangle & \models + \mid - \\ \langle \text{bin-op-p0} \rangle & \models + \mid - \\ \langle \text{bin-op-p1} \rangle & \models * \mid / \mid \% \mid ^ \\ \langle \text{factor} \rangle & \models (\langle \text{expr} \rangle) \mid \langle \text{ident} \rangle \mid \langle \text{int-lit} \rangle \mid \langle \text{float-lit} \rangle\end{aligned}$$