

Warm-Up: What's an AST?

Prepared by Mark on January 23, 2025.
Based on a true story.

Say you have a valid string of simple arithmetic that contains no unary operators (like $3!$ or -4) and no parenthesis:

$$3 + 9 \times 8 \div 5 \wedge 6$$

You may assume that all numbers and operators in this string consist of exactly one character. Devise an algorithm that turns this string into a tree (as shown below), respecting the order of operations $[\wedge, \times, \div, +, -]$.

