

Lab 6 (Partial for Project Three)

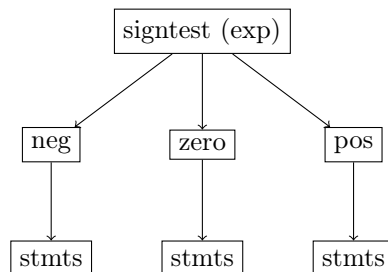
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April 20, 2019

1 CRAFTING A COMPILER, CHAPTER 9, EXERCISE 9.2

The integer expression *exp* is evaluated. If it is negative, the statements following *neg* are executed. If it is zero, the statements following *zero* are executed. If it is positive, the statements following *pos* are executed. Show the AST you would use for this construct. Revise the semantic analysis, reachability, and throws visitors for if statements (Section 9.1.2) to handle the sign test.



For Semantic Analysis:

- If `signtest(exp)` returns *neg*, but the statements for *neg* are not satisfied by *exp*, then we have an error.
- If `signtest(exp)` returns *zero*, but the statements for *zero* are not satisfied by *exp*, then we have an error.
- If `signtest(exp)` returns *pos*, but the statements for *pos* are not satisfied by *exp*, then we have an error.