Lab Five

Marcus A. Zimmermann

Marcus.Zimmermann1@Marist.edu

March 19, 2018

Crafting a Compiler

Exercise 8.1

The two data structures most commonly used to implement symbol tables in production compilers are binary search trees and hash tables. What are the advantages of using each of these data structures for symbol tables?

Exercise 8.3

Consider a programming language in which the variable is declared as a method's parameter and as one of the method's local variables. A programming language includes parameter hiding if the local variable's declaration can mask the parameter's declaration. Otherwise, the situation described in this exercise results in a multiply defined symbol. With regard to the symbol table interface presented in section 8.1.2, explain the implicit scope-changing actions that must be taken if the language calls for...

A Parameter Hiding

B No Parameter Hiding