Winston Wang

Mr. Kuszmaul

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AP Computer Science

Vocab Week 2

Words:

Dynamic scope

Stack

Function scope

Block scope

Lexical scope

Global Variable

Namespace

1. In Perl, which uses dynamic scope, the compiler must look up the symbol table stack to find the correct variable to use
2. Because the programmer forgot he was working in a dynamic scope language, he made a lot of bugs because he thought his variables were function scoped.
3. Because the programmer forgot he was working in a dynamic scope language, he made a lot of bugs because he thought his variables were block scoped.
4. Lexical scope is the opposite of dynamic scope.
5. In a dynamic scope environment, it is possible to change a function scoped variable to a global variable
6. In Perl, you can use a dynamic scope variable in a different namespace by using the package name.
7. This variable is function scoped in the compiler stack.
8. This variable is block scoped in the compiler stack.
9. Java uses both compiler stacks and lexical scope.
10. The global variables are not put on the stack; instead they are put on the heap (in C++)
11. The variables defined in the namespace were put on the stack.
12. A variable with function scope only exists in the function it was defined in; on the other hand, a variable with block scope only exists in the block it was defined in (e.g. if statements)
13. Java uses lexical scope, so when a function scoped variable is declared will never change scope
14. In a dynamic scope environment, it is possible to change a function scoped variable to a global variable
15. The variable declared in the namespace of method getMoney() had function scope.
16. You cannot access a block scoped variable outside the block it was declared in because Java uses lexical scope.
17. The global variable is by definition not block scoped.
18. The block scoped variable cannot be accessed by a method outside its namespace.
19. In Java, which uses lexical scope, you use the keyword static to define a global variable.
20. You need to be aware of namespace when programming in lexical scope environments.
21. There cannot be two global variables with the same name in the same namespace.