

CS 3723: Programming Languages

Mar 26, 2012

You Name:

1. Categorize each of the following parameter passing mechanisms as pass-by-name, pass-by-value, or pass-by-reference respectively
 - (a) All the occurrences of formal parameters in the function body are replaced with the corresponding actual parameter expressions;
 - (b) All the occurrences of formal parameters in the function body are replaced with values of the corresponding actual parameter expressions;
 - (c) All the occurrences of formal parameters in the function body are replaced with references to storages of the actual parameter values.
2. When static scoping is used to find global variables, it means
 - (a) Global variables are located by looking in the mostly recently entered blocks prior to entering the current one.
 - (b) Global variables are located by looking in the closest enclosing blocks based on the program source code.
 - (c) Compiler knows where each global variable is declared.
 - (d) Compiler does not know where each global variable is declared.
3. When dynamic scoping is used to find global variables, it means
 - (a) Global variables are located by looking in the mostly recently entered blocks prior to entering the current one.
 - (b) Global variables are located by looking in the closest enclosing blocks based on the program source code.
 - (c) Compiler knows where each global variable is declared.
 - (d) Compiler does not know where each global variable is declared.