CSCE 330 Fall 2004

QUIZ 6

Assigned Thursday, 04-09-16

1. Match:

   (a) Command (sometimes called Statement)

   (b) Declaration

   (c) Expression

   with

   (a) Is evaluated to yield a value.

   (b) Is executed to change the value of a variable or to change the input or output streams.

   (c) Is elaborated to produce a binding and (usually) to allocate memory.

   Answer: A command is executed to change the value of a variable or to change the input or output streams. An expression is evaluated to yield a value. A declaration is elaborated to produce a binding and (usually) to allocate memory.

2. Consider the following context-free rule.
   `<sentence> -> <subject> <verb> <object> .`

   (a) In this rule, there are four non-terminal symbols. What are they?

   (b) In this rule, there is exactly one terminal symbol. What is it?

   (c) What kind of symbol is the right arrow? Choose from non-terminal, terminal, and metalanguage.

   Answer: The four non-terminal symbols are `<sentence> <subject> <verb> <object>` The terminal symbol is the period. The right arrow is a metalanguage symbol.