

CS150 Exam #1 Review Topics

- 1) What are keywords? Can you give some examples?
- 2) What is the standard output? How do you display something on the standard output?
- 3) What is the standard input?
- 4) What is the difference between the insertion operator `<<` and the extraction operator `>>`? Specifically, when and how is each used?
- 5) How do you specify comments in C++?
- 6) What is `main`?
- 7) What are preprocessor directives? Can you give an example?
- 8) What is the difference between a declaration statement and an executable statement? Can you give an example?
- 9) What are operands?
- 10) What is a string literal? What is a string variable? How do you display each on the screen?
- 11) What is a char literal? What is a char variable? How do you display each on the screen?
- 12) When do we use `CONST` in a variable declaration? How do we use it?
- 13) What is an escape character? How do you use them? Be able to explain what each of the characters `\n`, `\t`, `\\`, and `\"` do (when used appropriately).
- 14) Know the different datatypes from C++ that we have discussed, including `int`, `float`, `double`, `string`, `char`, and `bool`. Can you give examples of when you might use each datatype? How do you declare a variable of a given datatype?
- 15) What is the difference between a variable declaration and variable assignment? Can you give examples?
- 16) What are the rules for variable identifiers? Can you give examples of expressions that will work as variable identifiers and ones that will not?
- 17) Know the five main arithmetic operators and how to use them. Also know the issues that may arise when doing division with integers.
- 18) What does operator precedence mean? Can you give an example? Do you know where various operations fall within the operator precedence hierarchy? Can you evaluate an expression that contains a combination of operators in the operator precedence hierarchy?
- 19) What does operator associativity mean? Can you give an example?
- 20) What is a relational operator? What are they used for? Can you give an example?
- 21) Know how to implement a single-alternative `if` statement.
- 22) Be able to write a basic but complete C++ program.