Quizlet

CS 161 - Final Exam Practice - Test 1

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- F T/F: Executable code is computer code that contains no errors
- 2. **T** T/F: Syntax involves rules that must be followed when writing a program.
- 3. **T** T/F: If a new value is stored in a variable, it replaces whatever value was previously there.
- 4. **F** T/F: . Once a value has been stored in a variable it cannot be changed
- T T/F: Assuming goodData is a Boolean variable, the following two tests are logically equivalent.
 if (goodData == false)
 if (!goodData)
- 6. **F** T/F: When a loop is nested inside another loop, the outer loop goes through all its iterations for each iteration of the inner loop.
- 7. F T/F: The following two C++ statements perform the same operation.
 regWages = regPay + overTime;
 regPay + overTime = regWages;
- 8. **T** T/F: C++ is a case-sensitive language.
- 9. F T/F: A variable of the char data type can hold a set of characters like "January".
- 10. **F** T/F: A boolean expression may evaluate to more than 2 values
- II. **F** T/F: All nested if-else statements can be converted into switch statements.
- 12. **F** T/F: Variable names may begin with a number.
- 13. **F** T/F: A break statement in a switch stops your program.
- 14. **T** T/F: A semicolon by itself is a valid C++ statement.
- 15. **F** T/F: The break statement causes all loops to exit.
- 16. **F** T/F: . Every include directive must be followed by using namespace std;
- 17. **F** T/F: pow(2,3) is the same as pow(3,2).
- 18. T T/F: If the sub-expression on the left side of an II operator is true, the expression on the right side will not be checked.
- 19. T T/F: All of the relational operators are binary.
- 20. F T/F: To check if a variable has a particular value, use the = relational operator, as in the statement if (s = 3)

cout << "S has the value 3";

- 21. **c** A variable definition always specifies the name of a variable and tells
 - a) the part of the code where it will be used.
 - b) what its starting value is.
 - c) what type of data it can hold.
 - d) how many times it will be used in the program.
 - e) all of the above.

- 22. **d** #include <iostream> is an example of a(n)
 - a) I/O statement.
 - b) stream directive.
 - c) comment.
 - d) preprocessor directive.
 - e) compiler option.
- 23. **d** A set of well-defined steps for performing a task or solving a problem is known as
 - a) a solution engine.
 - b) software engineering.
 - c) a hierarchy chart.
 - d) an algorithm.
 - e) a flowchart.
- $_{24.}$ **c** In the C++ statement

pay = rate * hours;

the rate variable is an example of

- a) a variable separator.
- b) an operator.
- c) an operand.
- d) syntax.
- e) none of the above.
- 25. a _____ is an example of volatile memory, used for temporary storage while a program is running.
 - a) RAM
 - b) A flash drive
 - c) The CPU
 - d) A hard disk
 - e) The ALU
- 26. a Mistakes that allow a program to run, but cause it to produce erroneous results are called
 - a) logic errors.
 - b) syntax errors.
 - c) linker errors.
 - d) compiler errors.
 - e) none of the above.
- 27. **b** Which control construct repeats a sequence of statements one or more times?
 - a) while statement
 - b) do-while statement
 - c) switch statement
 - d) if-else statement
 - e) none of the above
- 28. **b** Which of the following is not true of the II operator?
 - a) It has two operands.
 - b) It can have one operand.
 - c) It is the logical OR operator.
 - d) It returns true if either operands is true.
 - e) It uses short circuit evaluation.

29. **a** Before a variable in C++ is used, it must be 35. **a** The statements int x = 1; int y; y = (++x)++; a) declared a) Assign y the value 2; b) initialized b) Change the value of x to 2. c) used in some expression c) Assign y the value 0; d) begin with a capital letter d) Assign y the value 1; e) contain only letters, digits and underscores. e) This doesn't work. 30. **b** Which of the following types is not built into the C++ 36. **d** Given the following code fragment, which of the following expressions is always true? language: a) bool int x: b) real cin >> x; c) short a) if (x < 3)d) long b) if(x==1) e) double c) if((x / 3) > 1) d) if (x = 1)31. **b** The value of the expression 20.0 * (9/5) + 32.0 is a) 68.0 37. **e** What is the output of the following code fragment? b) 52.0 int i=3: c) incorrect expression so there is no value switch(i) d) 32.0 e) incorrect expression , the / should be % case 0: i=15;break; case 1: i=25;break; 32. **d** Assume this code fragment is embedded in an otherwise case 2: i=35;break; correct and complete program. What case 3: i=40; should be the output from this code segment? default: i=0; } for(int i = 0; i < 10; i++) cout << i <<endl; a) 15 b) 25 } c) 35 cout << i << endl; d) 40 } e) 0 a) 10 b) 9 38. **a** What is the value of the following expression? c) 0 (true && (4/3 || !(6))) d) The variable i is undefined in this scope, so this should a) true not compile b) false e) none of the above c) 0 d) illegal syntax 33. **e** In distinguishing an expression as true or false, C++ sees which of the following as 39. d . If this code fragment were executed in an otherwise true? correct and complete program, what a) true would the output be? b) The character 'F' int a = 3, b = 2, c = 5; c) 1 if (a > b) d) Any non-zero value a = 4: e) all of the above if (b > c)a = 5; 34. **a** . Which of the following determines the operator that is else processed prior to another operator? a = 6;a) Operator precedence cout << a < endl: b) Whether the operator is an arithmetic operator a) 3 c) None of these determine the order in which operators b) 4 are processed. c) 5 d) none of the above d) 6 e) all of the above e) None of the above, the cout statement belongs to the else and so is skipped.

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40. d	If the following code fragment is executed in an otherwise complete and correct program,
	which expression will be executed?
	x = 0;
	if $(x = 12)$
	yes_statement;
	else
	no_statement;
	a) The no_statement will be executed because x is not 12.
	b) The statement has incorrect syntax so will not compile at all.
	c) x=12 is illegal in the Boolean expression of an if statement.
	d) The yes_statement will be executed.
41. a	EC: What is the final value of x after the following fragment of code executes?
	unsigned int x=0;
	do
	{
	X++;
	} while(x > 0);
	a) 0
	b) 9
	c) 10
	d) 11
	e) infinite loop.
42. d	EC: The operator takes an operand and reverses its truth or falsehood.
	a) !=
	b) II
	c) relational
	d)!
	e) &&
43. d	EC: What will the following expression evaluate to?
	!(6>7 3==4)
	a) 6
	b) 0
	c) -1
	d) true
	e) false
44. F	EC: T/F: If the sub-expression on the left side of an && operator is true, the expression
	on the right side will not be checked.
45. C	EC: Two different variables in the same program may have the same name
	a) if the second one is never declared.
	b) if they always hold different values.
	c) if they have different scope.
	d) if the second one is initialized with a different value than the first one.
	e) never. A program cannot have two variables with the same name.