Quizlet

44 Multiple choice questions

99%

1. A loop consisting of a loop variable initialization, a loop expression, and a loop variable update that typically describes iterating for a specific number of times.

- A. for loop
- B. Pseudocode
- C. Nested Loop
- D. parameter
- **2.** The progress of writing, compiling, and testing a small amount of code, then writing, compiling, and testing a small amount more (an incremental amount), and so on.

https://quizlet.com/248156096/test?answerTermSides=18&promptTermSides=22&questionCount=88&questionTypes=12&showImages=true

- A. structural diagrams
- B. ✓ Incremental development
- C. Modular development
- D. Implementation
- 3. First step in the waterfall approach. Defines a program's goals.

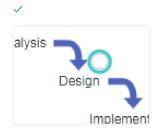
CORRECT



- 4. A function input specified in a function definition.
- A.
 parameter
- B. interpreter
- C. Argument
- D. Iteration
- 5. A number with a fractional part, even if that fraction is 0.
- A. X floating-point number
- B. Algorithm time efficiency
- C. function definition
- **D.** ✓ Floating-point literal

- 6. used to run a program's statements
- A. Not a number
- B. Iteration
- C. ✓ interpreter
- D. class diagram
- 7. The second step in the waterfall approach of SDLC. Defines specifics of a program.

CORRECT



- 8. Text (characters) within double quotes.
- A. Nested Loop
- **B.** ✓ String literal
- C. binary number
- D. Run, execute
- 9. A program performs computations on that data, such as adding two values like x + y.
- A. Program
- B. comment
- C. input
- D. process
- **10.** Modeling language for software design that uses different types of diagrams to visualize the structure and behavior of programs.
 - A. Universal Modeling Language
 - B. behavioral diagrams
 - C. Incremental Development
 - D. Modular development
- 11. A graphical language for creating computer programs.
 - A. Characters
 - **B.** ✓ flowchart
- C. Function
- D. Boolean

- 12. A program can be built by doing small amounts of each SDLC phases in sequence, then repeating.
 - A. sequence diagram
 - **B.** ✓ Agile or spiral approach
 - C. Systems development life cycle (SDLC)
 - D. Loop

13. Implementation

CORRECT



- 14. A function may return one value and does so by assigning a return variable with the return value.
 - A. return statement
 - B. Return variable
 - C. Type conversion
 - D. Nested branches
- 15. Supports decomposing a program into objects.
 - A. behavioral diagrams
 - B. Not a number
 - C. assignment statement
 - D. ✓ object-oriented language
- 16. Each element's location number of an array.
 - A. Iteration
 - B. ✓ Index
 - C. byte
 - **D.** Boolean
- 17. A loop that repeatedly executes the loop body while the loop's expression evaluates to true.
 - A.
 while loop
 - B. Characters
 - C. Arguments
 - **D.** Function

18. Any function input values that appear within (), and are separated by commas if more than one.
A. ✓ Arguments
B. Argument
C. Characters
D. RandomNumber()
19. Engineers have reduced switch sizes by half about every 2 years.
A. function call
B. ✓ Moore's Law
C. Expression
D. Type conversion
20. Can be a number, a variable name (numApples), or a simple calculation like (numApples + 1).
A. ✓ Expression
B. Operator
C. Iteration
D. while loop
21. Dividing a nonzero floating-point number by zero.
A object-oriented language
B. structural diagrams
C. ✓ Infinity or -Infinity
D. function definition
22. American Standard Code for Information Interchange. Code that is the numerical representation of a character. Ex. Z would be stored in a computer as 1011010.
A. If-else
B. sequence diagram
C. Design
D. ✓ ASCII
23. A list of statements, each statement carrying out some action and executing one at a time.
A algorithm
B. ✓ Program
C. Function
D. library

24. Statement that returns the specified value and immediately exits the function.

A. ✓ return statement
B. Precedence rules
C. Use Case Diagram
D. Implementation
25. An invocation of a function's name, causing the function's statements to execute.
A. Function
B. Precedence rules
C. ✓ function call
D. modulo operator
26. Any letter (a-z, A-Z), digit (0-9), or symbol (~, !, @, etc.).
A. Not a number
B. Expression
C. ✓ Characters
D. Argument
27. A single 0 or 1.
A. Operator
B. integer
C. ✓ bit
D. Loop
28. A decision and its two branches. IF the decision's expression is true then the first branch executes, ELSE the second branch executes.
A. Function
B. Use Case
C. ✓ If-else
D. for loop
29. A program construct that repeatedly executes the loop's statements (known as loop body).
A ✓ Loop
B. Array
C. Output
D. comment

30. interaction between software components and order of events
A. return statement
B. activity diagram
C. ✓ sequence diagram
D. ASCII
31. Type that has just two values: true or false.
A. ✓ Boolean
B. Output
C. Nested Loop
D. comment
32 . Used by programs to refer to data. It is a named item, used to hold a value.
A. Epsilon
B. Argument
C. comment
D. 🗸 variable
33. A conversion of one data type to another, such as an integer to a float.
A. Implementation
B. ✓ Type conversion
C. function definition
D. Precedence rules
34. Checks whether two operands' values are the same (==) or different(!=).
A. return statement
B. Implementation
C. logical operator
D. ✓ Equality operator
35. A program written in a compiled language is first converted by a tool (compiler) into machine code, which can run on a particular machine. Ex. C, C++, and Java.
A. Incremental development
B. ✓ compiled language
C. Use Case Diagram
D. Sentinel value

36. A program gets data, perhaps from a file, keyboard, touchscreen, network, etc.

A. ✓ input
B. Operator
C. Branch
D. process
37. Treats operands as being true or false, and evaluates to true or false.
A. Use Case Diagram
B. ✓ logical operator
C. Divide-by-zero error
D. activity diagram
38. A symbol that performs a built-in calculation, like the + which performs addition.
A. modulo operator
B. Characters
C. ✓ Operator
D. Use Case
39. A word that is part of the language, like integer, Get or Put. These words cannot be used as an identifier.
A. Universal Modeling Language
B. floating-point number
C. ✓ Reserved word (or keyword)
D. Interpreted Language
40. Loop that first executes the loop body's statements, then checks the loop condition.
A. ✓ do-while loop
B. Use Case Diagram
C. Expression
D. while loop
41. Refers to the decimal point being able to appear anywhere ("float") in the number. Ex. 98.6, 0.0006.
A. Equality operator
B. Sentinel value
C. ✓ floating-point number
D. relational operator

/24/2019	Test: C173 Version 3 Language Agnostic Quizlet
42. Carrying out the SDLC phases in sequence	ce.
A. function definition	
B. Lower camel case	
C. ✓ Waterfall Approach	
D. structural diagrams	
43. Consists of the new function's name and b	plock of statements.
A. ✓ function definition	
B. floating-point number	
C. structural diagrams	
D. Divide-by-zero error	
44. A sequence of statements only executed	under a certain condition.
A. algorithm	
B. Argument	
C. variable	
D. ✓ Branch	
44 True/False questions	
1. Special value indicating the end of a list, s	such as a list of positive integers ending with 0. $ ightarrow$ function call
CORRECT	
✓ False	
It should be \rightarrow Sentinel value	
2. UML diagrams used to design dynamic el	ements of a program \rightarrow activity diagram
CORRECT	
✓ False	
It should be \rightarrow behavioral diagrams	
3. A value provided to a function's parameter	er during a function call. → Characters

CORRECT

✓ False

It should be \rightarrow Argument

4. Behavioral diagram used to visually model how a user interacts with a software program. \rightarrow Type conversion

CORRECT

✓ False

It should be \rightarrow Use Case Diagram

5. UML diagrams used to design static elements of a program \rightarrow function definition

CORRECT

✓ False

It should be \rightarrow structural diagrams

6. A named list of statement \rightarrow function

CORRECT



7. Sequence of steps that solves a program, generating correct output for any valid input values. → library

CORRECT

✓ False

It should be \rightarrow algorithm

8. A named value item that holds a value that cannot change. \rightarrow Characters

CORRECT

✓ False

It should be \rightarrow constant

9. A name created by a programmer for an item like a variable or function. Must be a sequence of letters, underscores, and digits or start with a letter or underscore. They are case sensitive. → Identifier

CORRECT

✓ True

10. A process in which a programmer writes and tests a few statements, then writes and tests a small amount more. → compiled language

CORRECT

✓ False

It should be → Incremental Development

11. declares a new variable, specifying the variable's name and type. \rightarrow variable declaration

CORRECT

✓ True

12. Capitalize each word except the first, as in numApples. \rightarrow Lower camel case

CORRECT

✓ True

13. a flowchart of an activity (loop, function, etc.) within the program → activity diagram

CORRECT

✓ True

14. describes a singular goal of one user and briefly outlines how they will accomplish the goal \rightarrow Pseudocode

CORRECT

✓ False

It should be \rightarrow Use Case

15.	Text that resembles a program in a real programming language but is simplified to aid human understanding. \rightarrow while loop
	CORRECT
	✓ False
	It should be \rightarrow Pseudocode
16.	Variable type that can hold whole numbers. → integer
	CORRECT
	✓ True
17.	Each item in an array. → Index
	CORRECT
	✓ False
	It should be → Element
18.	Occurs at runtime if a divisor is 0, causing a program to terminate. \rightarrow function definition
	CORRECT
	✓ False
	It should be \rightarrow Divide-by-zero error
19.	evaluates to the remainder of the division of two integer operands. Ex: 23 % 10 is 3. \rightarrow modulo operator
	CORRECT
	✓ True
20.	Checks how one operand's value relates to another. For example, >=. \rightarrow floating-point number
	CORRECT
	✓ False
	It should be \rightarrow relational operator
21.	A special variable having one name, but storing a list of data items, with each item being directly accessible. \rightarrow Array
	CORRECT
	✓ True
22.	The difference threshold indicating that floating-point numbers are equal. \rightarrow Expression
	CORRECT
	✓ False
	It should be → Epsilon
23.	A program puts that data somewhere, such as to a file, screen, network, etc. \rightarrow input
	CORRECT
	✓ False
	It should be → Output
24.	A list of statements executed by invoking the function's name, with such invoking know as a function call. \rightarrow Program
	CORRECT
	✓ False
	It should be \rightarrow Function

25. Text a programmer adds to a program, to be read by humans (other programmers), but ignored by the program when executing. → comment

CORRECT

✓ True

26. An expression is evaluated using the order of standard mathematics. \rightarrow Precedence rules

CORRECT

✓ True

27. A language that is run one statement at a time by another program called an interpreter. Ex. Python, Javascript, C#. → compiled language

CORRECT

✓ False

It should be → Interpreted Language

28. A set of style guidelines defined by a company, team, teacher, etc., for naming variables. → floating-point number

CORRECT

✓ False

It should be → Naming conventions

29. The process of dividing a program into separate modules that can be developed and tested separately and then integrated into a single program. → Incremental development

CORRECT

✓ False

It should be → Modular development

30. Analysis Phase, Design Phase, Implementation phase, testing phase \rightarrow Systems development life cycle (SDLC)

CORRECT

✓ True

31. Loop that appears in the body of another loop. \rightarrow Pseudocode

CORRECT

✓ False

It should be → Nested Loop

32. The nested branches can take on various forms, and the if-else branches may even use different variables. \rightarrow Nested branches

CORRECT

✓ True

33. A set of pre-written functions that carry out common tasks, that a programmer can use to improve productivity. \rightarrow library

CORRECT

✓ True

34. Special two-character sequence \n whose appearance in an output string literal causes the cursor to move to the next output line. → newline

CORRECT

✓ True

CORRECT ✓ False

It should be \rightarrow byte

Test: C173 Version 3 Language Agnostic | Quizlet 9/24/2019 **35.** The number of calculations required to solve a problem. → Floating-point literal CORRECT ✓ False It should be → Algorithm time efficiency **36.** Words for carrying out a program's statements. \rightarrow Run, execute CORRECT ✓ True **37.** models the objects of a program \rightarrow class diagram CORRECT ✓ True **38.** The fourth step of the waterfall approach. Checks that the programs correctly meets the goals. → Epsilon CORRECT ✓ False It should be \rightarrow Testing **39.** Indicates an unrepresentable or undefined value. \rightarrow binary number CORRECT ✓ False It should be \rightarrow Not a number 40. A function is a built-in zyFlowchart function that takes two arguments, lowValue and highValue, and returns a random integer in the range lowValue to highValue. Ex: RandomNumber(1, 10) returns a random integer in the range 1 to 10. \rightarrow Return variable CORRECT ✓ False It should be \rightarrow RandomNumber() **41.** Assigns a variable with a value, such as X=5. \rightarrow assignment statement CORRECT ✓ True **42.** Each time through a loop's statement. → interpreter CORRECT ✓ False It should be → Iteration **43.** using base two numbers, 0 and 1 \rightarrow function call CORRECT ✓ False It should be \rightarrow binary number **44.** Eight bits. Ex. 11000101 → interpreter