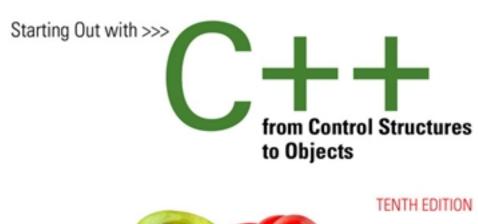
# Test Bank for Starting Out with C++ from Control Structures to Objects 10th Edition by Gaddis

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# Test Bank

# Starting Out with C++ from Control Structures to Objects, 10e (Gaddis) **Chapter 1 Introduction to Computers and Programming**

## TR

RUE/FALSE				
1.	Software engineering is a field that encompasses designing, writing, testing, debugging, documenting, modifying, and maintaining computer programs.			
	ANS: T			
2.	Pseudocode is a form of a program statement that will always evaluate to "false."			
	ANS: F			
3.	In programming, the terms "line" and "statement" always mean the same thing.			
	ANS: F			
4.	In C++, key words are written in all lowercase letters.			
	ANS: T			
5.	The preprocessor executes after the compiler.			
	ANS: F			
6.	Machine language is an example of a high-level language.			
	ANS: F			
7.	A CPU only understands machine language instructions.			
	ANS: T			
8.	Programs are often referred to as hardware.			
	ANS: F			
9.	The CPU is the most important component in a computer because without it, the computer could not run software.			
	ANS: T			
10.	The term "bit" stands for binary digit.			
	ANS: T			

# MULTIPLE CHOICE

1.	What does the term <i>hardware</i> refer to?					
	<ul> <li>a. The relative difficulty of writing computer programs</li> <li>b. The physical components that make up a computer</li> <li>c. The way a computer's storage space is organized</li> <li>d. The logical flow of instructions</li> <li>e. None of these</li> </ul>					
	ANS: B					
2.	A(n) is a set of instructions that the computer follows to solve a problem.  a. compiler b. linker c. program d. operator e. None of these  ANS: C					
3.	Computer programs are also known as					
	<ul> <li>a. hardware</li> <li>b. firmware</li> <li>c. software</li> <li>d. Any of these</li> <li>e. None of these</li> </ul>					
	ANS: C					
4.	At the heart of a computer is its central processing unit. The CPU's job is:					
	<ul> <li>a. To fetch instructions</li> <li>b. To carry out the operations commanded by the instructions</li> <li>c. To produce some outcome or resultant information</li> <li>d. All of these</li> <li>e. None of these</li> </ul>					
	ANS: D					
5.	A computer stores a program while it is running					
	<ul> <li>a. in main memory</li> <li>b. on a hard disk</li> <li>c. on the computer monitor</li> <li>d. in the CPU</li> <li>e. None of these</li> </ul>					
	ANS: A					
6.	The decodes an instruction and generates an electronic signal.					
	<ul> <li>a. Arithmetic and Logic Unit</li> <li>b. Main memory</li> <li>c. BIOS</li> <li>d. Control Unit</li> <li>e. None of these</li> </ul>					

	ANS: D				
7.	The CPU's control unit retrieves the next instruction in a sequence of program instructions from main memory in the stage.				
	<ul><li>a. fetch</li><li>b. decode</li><li>c. execute</li><li>d. portability</li></ul>				
	ANS: A				
8.	During which stage does the central processing unit analyze the instruction and encode it in the form of a number, and then generate an electronic signal?				
	<ul><li>a. fetch</li><li>b. decode</li><li>c. execute</li><li>d. portability</li></ul>				
	ANS: B				
9.	The two parts of the CPU are				
	<ul> <li>a. the output device and the input device</li> <li>b. the software and the hardware</li> <li>c. the Control Unit and the Arithmetic and Logic Unit</li> <li>d. the single-task device and the multi-task device</li> <li>e. None of these</li> </ul>				
	ANS: C				
10.	A volatile type of memory that is used for temporary storage is				
	<ul> <li>a. an address</li> <li>b. the ALU</li> <li>c. RAM</li> <li>d. a disk drive</li> <li>e. None of these</li> </ul>				
	ANS: C				
11.	The purpose of a memory address is:				
	<ul> <li>a. to identify the location of a byte in memory</li> <li>b. to prevent multitasking</li> <li>c. to obtain an algorithm</li> <li>d. to improve the speed of processing</li> <li>e. None of these</li> </ul>				
ANS: A					
12.	Programs are normally stored in and loaded into main memory as needed.				
	<ul><li>a. the input device</li><li>b. the output device</li><li>c. secondary storage</li><li>d. the CPU</li></ul>				

e.	None	of	these
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ANS: C

- 13. A computer monitor is a type of
  - a. input device
  - b. output device
  - c. storage device
  - d. software
  - e. None of these

ANS: A

- 14. Which of the following is *not* a common input device?
  - a. keyboard
  - b. mouse
  - c. digital camera
  - d. printer
  - e. All are common input devices

ANS: D

- 15. Which of the following is *not* one of the major components of a computer system?
  - a. the preprocessor
  - b. the CPU
  - c. main memory
  - d. input/output devices
  - e. secondary storage

ANS: A

- 16. A set of well-defined steps for performing a task or solving a problem is known as a(n):
  - a. hierarchy chart
  - b. algorithm
  - c. instruction set
  - d. statement
  - e. None of these

ANS: B

- 17. When a programmer saves to a file the statements he or she writes to create a program, these statements are
  - a. high level
  - b. source code
  - c. a preprocessor file
  - d. object code
  - e. None of these

ANS: B

- 18. The programmer usually enters source code into a computer with
  - a. a hierarchy chart
  - b. a text editor

- c. a compiler
- d. pseudocode
- e. None of these

ANS: B

- 19. In the process of translating a source file into an executable file, which of the following is the correct sequence?
  - a. Source code, preprocessor, modified source code, linker, object code, compiler, executable code
  - b. Preprocessor, source code, compiler, executable code, linker, modified source code, object code
  - c. Source code, compiler, modified source code, preprocessor, object code, linker, executable code.
  - d. Source code, preprocessor, modified source code, compiler, object code, linker, executable code.
  - e. Source code, linker, object code, compiler, modified source code, preprocessor, executable code.

ANS: D

- 20. An Integrated Development Environment (IDE) typically consists of
  - a. a text editor
  - b. a compiler
  - c. a debugger
  - d. All of the above
  - e. None of these

ANS: D

- 21. \_\_\_\_\_ are used to translate each source code instruction into the appropriate machine language instruction.
  - a. modules
  - b. runtime libraries
  - c. compilers
  - d. preprocessor directives
  - e. None of these

ANS: C

- 22. This is a set of rules that must be followed when constructing a program:
  - a. syntax
  - b. punctuation
  - c. key words
  - d. operators
  - e. identifiers

ANS: A

- 23. Words that have a special meaning and may be used only for their intended purpose are known as
  - a. operators
  - b. programmer defined words
  - c. key words

- d. syntax
- e. None of these

ANS: C

- 24. Which of the following best describes an operator?
  - a. An operator is a rule that must be followed when constructing a program.
  - b. An operator allows you to perform operations on one or more pieces of data.
  - c. An operator marks the beginning or ending of a statement, or is used to separate items in a list.
  - d. An operator is a word that has a special meaning.
  - e. An operator is a symbolic name that refers to a variable.

ANS: B

- 25. This is used in a program to mark the beginning or ending of a statement, or separate items in a list:
  - a. separators
  - b. punctuation
  - c. operators
  - d. key words
  - e. None of these

ANS: B

- 26. Characters or symbols that perform operations on one or more operands are:
  - a. separators
  - b. op codes
  - c. operators
  - d. key words
  - e. None of these

ANS: C

- 27. This is a complete instruction that causes the computer to perform some action:
  - a. line
  - b. statement
  - c. variable
  - d. key word
  - e. None of these

ANS: B

- 28. A named storage location in the computer's memory that holds a piece of information is a(n):
  - a. variable
  - b. operator
  - c. key word
  - d. statement
  - e. None of these

ANS: A

- 29. A variable definition defines the name of a variable that will be used in a program, as well as:
  - a. the type of data it will be used to hold

- b. the operators that will be used on it
- c. the number of times it will be used in the program
- d. the value it will hold
- e. None of these

ANS: A

- 30. Three primary activities of a program are:
  - a. variable definitions, operators, lists of key words
  - b. lines, statements, punctuation
  - c. input, processing, output
  - d. integer, floating-point, character definitions
  - e. None of these

ANS: C

- 31. Which step uncovers any syntax errors in your program?
  - a. editing
  - b. compiling
  - c. linking
  - d. executing
  - e. None of these

ANS: B

- 32. Mistakes that cause a running program to produce incorrect results are called:
  - a. syntax errors
  - b. logic errors
  - c. compiler errors
  - d. linker errors
  - e. None of these

ANS: B

- 33. The programming process consists of several steps, which include:
  - a. key words, operator definitions, punctuation
  - b. design, creation, testing, debugging
  - c. input, processing, output
  - d. syntax, logic, error handling
  - e. None of these

ANS: B

- 34. The first step in writing a program is to
  - a. type the code
  - b. visualize the program running on a computer
  - c. visualize logical errors
  - d. clearly define what the program is to do
  - e. None of these

ANS: D

- 35. A model often used when creating a program that begins with the overall task and refines it into smaller subtasks is a(n)
  - a. flowchart
  - b. UML diagram
  - c. blueprint
  - d. hierarchy chart
  - e. None of these

ANS: D

- 36. The term that refers to the programmer reading the program from the beginning and stepping through each statement is
  - a. pseudocoding
  - b. software engineering
  - c. desk checking
  - d. spot checking
  - e. None of these

ANS: C

- 37. The two methods used by C++ to write computer programs are:
  - a. top-down programming and procedural programming
  - b. procedural programming and object-oriented programming
  - c. pseudocoding and object-oriented programming
  - d. flowcharting and procedural programming
  - e. None of these

ANS: B