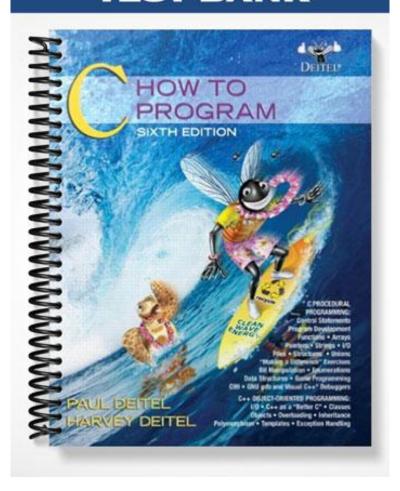
TEST BANK



2.1 Introduction

2.2 A Simple Program: Printing a Line of Text

line (a) (b) (c) (d)	is a comment. /* ** REM	let the computer know that the rest of the
(a) (b) (c) (d)	Which of the following must every C promain #include /* <stdio.h> S: (a)</stdio.h>	ogram have?
(a) (b) (c) (d)	Every statement in C must end with a period (.) semicolon (;) colon (:) backslash (/) S: (b)	
(a) (b) (c) (d)	\\ \~	ape sequence?
a) Cb) Pity.c) Cd) L	Which statement about comments is false comments begin and end with /* and */, rogrammers insert comments to document comments do not cause any machine languengthy comments can cause poor executions: (d)	respectively. t programs and improve program readabilage object code to be generated.

2.6. Lines beginning with a # are processed a) at execution time b) at compile time c) at preprocessor time d) at postprocessor time ANS: (c)
 2.7. Which of the following statements about the inclusion of <stdio.h> is false?</stdio.h> a) It is required. b) This header file contains information and declarations used by the compiler when compiling standard input/output library functions such as printf. c) This header file contains information that helps the compiler determine if calls to library functions have been made correctly. d) This header helps locate bugs in your program at compile time, rather than at execution time (when errors are usually more costly to correct). ANS: (a)
2.8. In the line
<pre>int main()</pre>
the parentheses indicate that main is a program building block called a a) module b) statement c) directive d) function ANS: (d)
2.9. The pair of braces that delineate the body of main and the portion of the program between these braces is called a a) function b) block c) statement d) header ANS: (b)
2.10. Which of the following is not a synonym for a C string? a) message b) character string c) character d) literal ANS: (c)

2.11. The following line is most properly an example of a
<pre>printf("Welcome to C!");</pre>
a) function b) block c) statement d) header ANS: (c)
2.12. In a printf, a backslash is printed by enclosing in quotes a) \ b) \\ c) /\ d) // ANS: (b)
2.13. A linked program is often called a(n) a) chain b) library c) object d) executable ANS: (d)
2.14. The escape sequence for horizontal tab is a) \t ab b) \t c) \horizontaltab d) \T ANS: (b)
2.3 Another Simple Program: Adding Two Integers
2.15 Which of the following is not a valid integer value? (a) -3 (b) 0 (c) 2134859 (d) 1.1 ANS: (d)

2.16 Which of the following is an invalid identifier (variable name)? (a) _Test (b) TEST (c) 5test (d) test1 ANS: (c)
<pre>2.17 Which statement prints "hi" on the screen? (a) printf("hi"); (b) print "hi"; (c) printf "hi"; (d) none of the above ANS: (a)</pre>
2.18 The sign is also known as the operator. (a) +, assignment (b) =, assignment (c) *, stream manipulator (d) &, stream insertion ANS: (b)
2.19. A(n) is a location in the computer's memory where a value can be stored for use by a program. a) unknown b) name c) variable d) declaration ANS: (c)
 2.20. Which statement is false. a) Variables may be defined anywhere in the body of main. b) All variables must be defined. c) All variable definitions must include the name and data type of each variable. d) Several variable of the same data type may be defined in one definition. ANS: (a)
2.21. Which of these is not a valid identifier? a) a_valid_identifier b) a1_valid_identifier c) a_valid_identifier d) 1_valid_identifier ANS: (d)
2.22. Which of the following statements is false?

- a) C is case sensitive. b) Uppercase and lowercase letters are different in C. c) identifier and IdEnTiFiEr are identical identifiers in C. d) Identifiers can be of any length ANS: (c) 2.23. Which of the following multiple word variable names does not conform to the good programming practices in the text? a) multiple word variable name b) multipleWordVariableName c) multiplewordvariablename d) aReallyReallyLongMultipleWordVa ANS: (c) 2.24. A(n) error is caused when the compiler can not recognize a statement. a) logic b) syntax c) linkage d) execution ANS: (b) 2.25. The address operator is a) & & b) % c) @
- d) &

ANS: (d)

- 2.26. Which statement is false?
- a) in the statement

```
sum = integer1 + integer2;
```

both = and + are binary operators.

- b) The statement in part a) is an example of an assignment statement.
- c) The spaces around each of the binary operators in the statement of part a) are required.
- d) In part a), the = operator's two operands are sum and the value of the expression integer1 + integer2.

ANS: (c)

- 2.27. Which of the following is false?
- a) Each variable being input in a scanf statement is generally preceded by an &.
- b) Each variable being output in a printf statement is generally not preceded by an &.
- c) In a printf statement, the comma that separates the format control string from the
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expressions to be printed is placed inside the format control string. d) Calculations can be performed inside printf statements. ANS: (c)
2.4 Memory Concepts
2.28 Variable names actually correspond to (a) locations in the computer's memory (b) operators (c) integers (d) data types ANS: (a)
2.28 When a number gets assigned to a variable that already has a value
 (a) the new number overwrites the previous value at that memory location (b) the new number gets assigned to a neighboring memory location (c) the computer issues an error (d) the new value is destroyed and the old value remains ANS: (a)
2.30. Every variable has all the attributes below, except a) name b) value c) alias d) type ANS: (c)
 2.31. Which of the following is false? a) Reading a value into a memory location destroys the previous value. b) Reading a value out of a memory location destroys that value. c) sum = integer1 + integer2; involves destructive read-in. d) The statement in part c) also involves nondestructive read-out. ANS: (b)
2.5 Arithmetic in C

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2.32 Which operation will find the remainder when 15 is divided by 6?

(a) 15 / 6 (b) 15 % 6 (c) 15 ^ 6

- (d) 15 * 6 ANS: (b)
- 2.33 Evaluate the expression

```
3 * 4 % 6 + 4 *5
```

- (a) 20
- (b) 26
- (c) 12
- (d) 32

ANS: (a)

- 2.34. Which statement is false?
- a) In algebra, we write ab to multiply a times b.
- b) In C, we write ab to multiply a times b.
- c) In C, the remainder operator is %.
- d) In C, integer division yields an integer result.

ANS: (b)

- 2.35. Which statement about C arithmetic is false?
- a) 6 / 3 yields 2
- b) 5 / 2 yields 2.5
- c) 7 % 3 yields 1
- d) 6 % 3 yields 0

ANS: (b)

- 2.36. a * (b + c) may also be written in C as
- a) ab + ac
- b) (a * b) + c
- c) a * b + c
- d) a * b + a * c

ANS: (d)

- 2.37. Which statement about precedence is false?
- a) Parentheses may be used to force the order of evaluation to occur in any sequence desired by the programmer.
- b) Nested, or embedded parentheses are evaluated last.
- c) Multiplication has a higher precedence than addition.
- d) Subtraction has a lower precedence than division.

ANS: (b)

- 2.38. Which expression is true?
- a) The expression a * (b + c) + c * (d + e) contains nested parentheses.
- b) The expression y = a * x * x + b * x + c is a second degree polynomial.
- c) The C standard library provides function power to perform exponentiation.
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d) When we say evaluation of an expression proceeds from left to right we are referring to the additivity of the operators.

ANS: (b)

2.6 Decision Making: Equality and Relational Operators

2.39 C's if statement executes the statement inside its body if a specified
is
(a) condition, true
(b) condition, false
(c) equality operator, true
(d) relational operator, true
ANS: (a)
2.40 Which of the following is an equality operator?
(a) ==
(b) =
(c) >
(d) >=
ANS: (a)

- 2.41. Which statement is false?
- a) Executable C statements either perform actions or make decisions.
- b) If the condition in an if statement is met, the statement in the body of the if statement is executed.
- c) All the relational operators have the same level of precedence.
- d) The equality operators have a higher level of precedence than the relational operators. ANS: (d)
- 2.42. Which statement is false?
- a) The relational operators associate left to right.
- b) An execution time error will occur if the two symbols in any of the operators ==, !=, >= and <= are separated by spaces.
- c) Confusing the == operator with = operator is typically an error.
- d) The equality operators associate left to right.

ANS: (b)

- 2.43. Which statement is false?
- a) Whitespace characters such as tabs, newlines and spaces are generally ignored by the C compiler.
- b) The statements in an if statement must be indented.
- c) Placing a blank line before and after every control structure can improve program

readability. d) There can be (but should not be) more than one statement per line. ANS: (b)
 2.44. Which statement is false? a) It is not correct to split an identifier with a space, a tab or a newline. b) Statements and comments may be split over several lines. c) The equals sign (=) is not an operator. d) A good programming practice is to break a line after a comma in a lengthy comma-separated list. ANS: (c)
2.45. Which of the following is not a keyword? a) int b) return c) if d) main ANS: (d)
 2.46. Which statement is false? a) The assignment operator associates from left to right. b) The arithmetic operators associate from left to right. c) The equality operators associate from left to right. d) The relational operators associate from left to right. ANS: (a)
2.47. The order in which statements are is called flow of control. a) entered in a source file b) preprocessed c) compiled d) executed ANS: (d)
2.48. Which is not a keyword? a) register b) volatile c) external d) struct ANS: (c)