Just Enough Programming Logic and Design 2nd Edition Farrell Test Bank

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Chapter 1: An Overview of Computers and Logic

TRUE/FALSE

 No matter which programming language a computer programmer uses, the language ha governing its word usage and punctuation. 						
	ANS: T	PTS: 1	REF: 2			
2.	2. A program that is free of syntax errors will produce the correct results.					
	ANS: F	PTS: 1	REF: 3			
3.	External storage is r	needed to run a program	m but it is volatile.			
	ANS: F	PTS: 1	REF: 5			
4.	Computer programm	ners often refer to men	nory addresses using hexadecimal notation.			
	ANS: T	PTS: 1	REF: 5			
5.	5. The programmer's job can be broken down into five development steps.					
	ANS: F	PTS: 1	REF: 6			
6.	6. Variable names may not begin with a digit, although usually they may contain digits.					
	ANS: T	PTS: 1	REF: 17			
7.	A magic number is	a named constant who	se meaning is not immediately apparent.			
	ANS: F	PTS: 1	REF: 18			
8.	8. In arithmetic statements, the rules of precedence can be overridden using parentheses.					
	ANS: T	PTS: 1	REF: 19			
9.	When you declare v	ariables, you have the	option of assigning initial values to them.			
	ANS: T	PTS: 1	REF: 20			
10.	0. It is more common for uninitialized variables to have an a valid default value assigned to them, that is for them to contain an unknown, or garbage value.					
	ANS: F	PTS: 1	REF: 20			
MUL	TIPLE CHOICE					
1.		ajor components of any				
	a. Input and outputb. Monitors and pr		c. Keyboards and miced. Hardware and software			

	ANS: D	PTS:	I	REF:	2	
2.	are instruction a. Tests b. Outputs	sets wri	tten by progran	c.	Programs Inputs	
	ANS: C	PTS:	1	REF:	2	
3.	Word-processing processing to bea. application softw	_·	spreadsheets, p	•	and inventory programs, and even games are low-level programming languages	
	b. system software				high-level programming languages	
	ANS: A	PTS:	1	REF:	2	
4.	comprises the programs you use to manage your computer, including operating systems such as Windows, Linux, or UNIX.					
	a. System softwareb. Hardware	;			Application software Processing software	
	ANS: A	PTS:	1	REF:	2	
5.	The of a langua a. semantics b. structure	age are	the rules that go	c.	ord usage and punctuation. syntax logic	
	ANS: C	PTS:	1	REF:	2	
6.	The language transla	ition sof	ftware that conv	erts a p	programmer's statements to binary form is called a	
	a. processor			_	translator	
	b. compiler				central processing unit	
	ANS: B	PTS:	1	REF:	3	
7.	Each programming language uses a piece of software to translate programming language statements into					
	a. logicb. syntax				object code semantic code	
	ANS: C	PTS:	1	REF:	3	
8.	To use a computer p	rogram,	you must first	load it	into the computer's	
	a. memoryb. monitor			c. d.	disk software	
	ANS: A	PTS:	1	REF:	5	
9.	A(n) is the seq a. algorithm	uence o	f steps necessar	c.	rhythm	
	b. pseudocode list	DTC	1		problem statement	
	ANS: A	PTS:	1	REF:		
10.	is the process of program.	of walki	ng through a pr	ogram'	s logic on paper before you actually write the	

	a. Bench-checkingb. Bench-testing				Desk-checking Desk-testing		
	ANS: C	PTS:	1	REF:	7		
11.	a program is where the results are logical a. Planning b. Coding	_	-	c.	e the program with some sample data to see whether Maintaining Testing		
	ANS: D	PTS:	1	REF:	· ·		
12.	The entire set of action programs is calleda. turnover		organization m		to switch over to using a new program or set of translation		
	b. renovation				conversion		
	ANS: D	PTS:	1	REF:	10		
13.	is the process of a. Design b. Implementation	updatin	ng programs aft	c.	rograms are put into production. Maintenance Desk-checking		
	ANS: C	PTS:	1	REF:	10		
14.	is an English-li a. Algorithm b. Pseudocode	ke repre	esentation of th	c.	ll steps it takes to solve a problem. Code Syntax		
	ANS: B	PTS:	1	REF:	11		
15.	A(n) is a pictor a. flowchart b. algorithm ANS: A	rial repro		c.	eps it takes to solve a problem. source program diagram		
16.	In a flowchart, you u a. diamond b. parallelogram	se a	to represent	c.	ssing symbol. rectangle triangle		
	ANS: C	PTS:	1	REF:	12		
17 are named memory locations, whose contents can vary over time.				s can vary over time.			
	a. Named constantsb. Constants	3			Literals Variables		
	ANS: D	PTS:	1	REF:	15		
18.	In many modern programming languages, the equal sign is the a. sentinel value						
	ANS: B	PTS:	1	REF:			
19.					he same statement are carried out.		

	a. rules of executionb. rules of order	n			rules of operation rules of precedence
	ANS: D	PTS:	1	REF:	18
20.				an be po c.	variable can hold, how much memory the value erformed with the data stored there. data type value
	ANS: C	PTS:	1	REF:	19
21.	A variable can a. character b. numeric	have ma	athematical ope	c.	performed on it. pointer string
	ANS: B	PTS:	1	REF:	19
22.	A variable can marks. a. character b. numeric	hold let	ters of the alph		d other special characters such as punctuation string alphabetic
	ANS: C	PTS:	1	REF:	19
23.	You must always a. declare b. reference ANS: A	a var PTS:	·		instantiate announce
24.	A(n) loop is a a. definite b. finite	repeating	g flow of logic	c.	ver ends. circling infinite
	ANS: D	PTS:	1	REF:	21
25.	a. flagb. sentinel			c. d.	ns "Stop the program!" indicator counter
	ANS: B	PTS:	I	REF:	21
26.	You represent a decia. diamond b. parallelogram	sion in a	a flowchart by	c.	g a decision symbol, which is shaped like a rectangle triangle
	ANS: A	PTS:	1	REF:	21
27.	Programming languathat is stored at the ea. diamond b. exit			c.	data in a file automatically, through a(n) code eof end
	ANS: C	PTS:	1	REF:	

28.	An important feature. This is known as		gramming is th	ne ability to build programs from smaller segments.				
	a. monolithic b. structured			independence modularity				
	ANS: D	PTS: 1	REF:	24				
29.	programminga. Functionalb. Procedural	focuses on brea	c.	gramming processes into manageable subtasks. Object-oriented Structured				
	ANS: B	PTS: 1	REF:	24				
30.	programming a. Functional b. Procedural	focuses on object	c.	" and describes their attributes and behaviors. Object-oriented Structured				
	ANS: C	PTS: 1	REF:	24				
	Case-Based Critic	al Thinking Qu	estions					
	Case 1							
	The Billing Department manager, Anna, asked the programmer, Jerry, for a list of customers who owe the ABC Company more than \$500.							
31.	-	information sho is this? the problem	uld be included c.	s Anna questions about what the report should look d on the report. What part of the program Coding the program Interviewing about the problem				
	ANS: A	PTS: 1	REF:	6 TOP: Critical Thinking				
32.	After talking with Anna, Jerry has all the information he needs to move to the next step in the prograted development cycle. What is the next step? a. Understanding the problem b. Planning the logic c. Coding the program d. Installing the program							
	ANS: B	PTS: 1	REF:	7 TOP: Critical Thinking				
33.	When Jerry plans the solution to this programming problem, he will use one of two tools to help him. These tools are:							
	a. algorithms andb. pseudocode and			code and algorithms pseudocode and flowcharts				
	ANS: D	PTS: 1	REF:	7 TOP: Critical Thinking				
34.	After the program ha. translate the cob. test the program	de	c.	s free of syntax errors, Jerry must now put the program into production maintain the program				
	ANS: B	PTS: 1	REF:	9 TOP: Critical Thinking				

- 35. The program is now in production. The Billing Department manager, Anna, asks Jerry to change the report to show only customers who owe more than \$500 and who are more than 30 days overdue on their payments. What part of the program development cycle is this?
 - a. Planning the logic

c. Testing the program

b. Coding the program

d. Maintaining the program

ANS: D

PTS: 1

REF: 10

TOP: Critical Thinking

SHORT ANSWER

1. What are the three major operations that computer hardware and software accomplish? Provide a brief explanation of each operation.

ANS:

Input—Hardware devices that perform input operations include keyboards and mice.

Through these devices, data, or facts, enter the computer system.

Processing—Processing data items may involve organizing them, checking them for accuracy, or performing mathematical operations on them. The hardware component that performs these types of tasks is the central processing unit, or CPU.

Output—After data items have been processed, they become information. Information often is sent to a printer, monitor, or some other output device so people can view, interpret, and use the results. Sometimes, you store output on hardware, such as a disk or flash media that holds information for later retrieval as input for another program.

PTS: 1 REF: 2

2. Do programmers usually create both pseudocode and a flowchart for the same problem? Why or why not?

ANS:

Answers will vary. Programmers seldom create both pseudocode and a flowchart for the same problem. You usually use one or the other. In a large program, you might even prefer to write pseudocode for some parts and draw a flowchart for others. When you instruct a friend how to get to your house, you might write a series of instructions, or you might draw a map. Pseudocode is similar to written, step-by-step instructions, and a flowchart, like a map, is a visual representation of the same thing.

PTS: 1 REF: 13

3. Discuss rules for naming variables.

ANS:

Answers will vary. Variable names must be one word. The name can contain letters, digits, hyphens, underscores, or any other characters you choose, with the exception of spaces. No programming language allows spaces within a variable name. Variable names should have some appropriate meaning. You might think you will remember how you intended to use a cryptic variable name within a program, but several months or years later when a program requires changes, you and your fellow programmers will appreciate clear, descriptive variable names. Some programmers have fun by naming variables after friends or creating puns with the names, but such behavior is unprofessional and marks those programmers as amateurs.

PTS: 1 REF: 16-17

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4. What are the arithmetic operators?

ANS:

Most programming languages use at least the following standard arithmetic operators:

- + (plus sign)—addition
- (minus sign)—subtraction
- * (asterisk)—multiplication
- / (slash)—division

Many modern languages also include a remainder operator, which is represented by % (a percent sign).

PTS: 1 REF: 18

5. What are the rules of precedence?

ANS:

Answers will vary. Every operator follows rules of precedence that dictate the order in which operations in the same statement are carried out. For example, multiplication and division always take precedence over addition and subtraction. So, in an expression such as a + b * c, b and c are multiplied, producing a temporary result before a is added to it. The assignment operator has a very low precedence, meaning that in a statement such as d = e + f + g, the operations on the right of the assignment operator are always performed before the final assignment to the variable on the left. In arithmetic statements, the rules of precedence can be overridden using parentheses.

PTS: 1 REF: 18-19