## Test Bank for Programming Logic and Design Comprehensive 7th Edition by Joyce Farrell

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# **Chapter 2: Elements of High-Quality Programs**

TR	HIF	/FA	T	SE
11/		T. (2)		

1.	A varia	ble can hold n	nore tha	an one value at	any giv	ven moment in time.
	ANS:	F	PTS:	1	REF:	39
2.						dly with different values, you can write program of separate calculations
	ANS:	Т	PTS:	1	REF:	39
3.				ages, if you dec assigned a valu		variable and do not initialize it, the variable contain
	ANS:	Т	PTS:	1	REF:	40
4.	Variabl	e names can b	e more	than one word	with bl	lanks between the words.
	ANS:	F	PTS:	1	REF:	41
5.	express					sociativity, which means that the value of the evaluated first and that the result is assigned to the
	ANS:	F	PTS:	1	REF:	42
6.	A string	g variable can	hold di	gits such as pho	one nur	mbers and zip codes.
	ANS:	Т	PTS:	1	REF:	43
7.	Program	nmers general	ly write	e programs as o	ne long	g series of steps.
	ANS:	F	PTS:	1	REF:	48
8.	Modula	arization make	s it har	der for multiple	progra	ammers to work on a problem.
	ANS:	F	PTS:	1	REF:	50
9.	Progran	n comments a	re a typ	e of internal do	cumen	tation.
	ANS:	Т	PTS:	1	REF:	64
10.	Most m	nodern progran	nming l	languages requi	ire that	program statements be placed in specific columns.
	ANS:	F	PTS:	1	REF:	68
IUL'	TIPLE (	СНОІСЕ				
1	When	ou write prog	rame v	ou work with d	lata in t	hree different forms

## MU

When you write programs, you work with data in three different forms: \_\_\_\_\_.

a. values; variables, or named values; and unnamed values

	<ul><li>b. variables; named constants; and named memory</li><li>c. variables; literals, or unnamed constants; and named constants</li><li>d. variations; transliterals, or unnamed constants; and named values</li></ul>					
	ANS: C	PTS:	1	REF:	38	
2.	A specific numeric v a. named constant b. defined constant		often called a(n	c. d.	arithmetic constant	
	ANS: D	PTS:	1	REF:	38	
3.	Fractional numeric v a. partial b. string	ariables	that contain a		l point are known as variables. integer floating-point	
	ANS: D	PTS:	1	REF:	38	
4.	In most programming a. declaration b. definition	g langua	ages, before yo	c.	se any variable, you must include a for it. header proclamation	
	ANS: A	PTS:	1	REF:	39	
5.	The process of namina. initializing b. declaring	ng progi	am variables a	c.	gning a type to them is called variables. identifying proclaiming	
	ANS: B	PTS:	1	REF:	39	
6.	A variable's unknow a. initial b. default	n value	is commonly c	c.	deterministically random garbage	
	ANS: D	PTS:	1	REF:	40	
7.	Declaring a starting va. initializing b. declaring  ANS: A			c.	defining identifying	
8.	When the variable stalletter, this is called _ a. Hungarian notatib. Pascal casing	·	1 a lowercase le		d any subsequent word begins with an uppercase camel casing Turing notation	
	ANS: C	PTS:	1	REF:	41	
9.	When the first letter casing.	of a var	iable name is u	ppercas	se, as in HourlyWage, the format is known as	
	<ul><li>a. Hungarian notati</li><li>b. Pascal casing</li></ul>	on			camel casing Turing notation	
	ANS: B	PTS:	1	REF:	41	
10.	is where a varia	able's da	ata type or othe	r inforr	nation is stored as part of the name.	

	<ul><li>a. Hungarian notation</li><li>b. Pascal case</li></ul>		c. d.	Turing notation Camel case
	ANS: A PTS	: 1	REF:	41
11.	The assignment operator is a. * b. +	s the sign.	c. d.	
	ANS: C PTS	: 1	REF:	42
12.	A(n) is similar to a va. unnamed constant b. literal	ariable, except it	c.	assigned a value only once. named constant constant
	ANS: C PTS	: 1	REF:	44
13.	The dictate the order a. rules of precedence b. statement rules	in which operation	c.	he same statement are carried out. operation rules rules of arithmetic
	ANS: A PTS	: 1	REF:	46
14.		es, or methods	c.	ed, modules are also known as  tasks, functions, or methods procedures, functions, or hierarchy
	ANS: A PTS	: 1	REF:	48
15.	The process of breaking do a. decomposition b. modularization	own a large progr	c.	modules is called unification orientation
	ANS: B PTS	: 1	REF:	49
16.	<ul><li>is the process of pay.</li><li>a. Abstraction</li><li>b. Modularization</li></ul>	ing attention to in	c.	t properties while ignoring nonessential details.  Abbreviation  Decomposition
	ANS: A PTS	: 1	REF:	49
17.	Programmers say the state a. embedded b. decomposed	ments that are co	c.	in a module have been encapsulated modularized
	ANS: C PTS	: 1	REF:	55
18.	Programmers say that vari module.	ables and constan	its decla	ared within a module are only within that
	<ul><li>a. abstracted</li><li>b. out of scope</li></ul>			in scope in reference
	ANS: C PTS	: 1	REF:	57
19.	variables and constant a. Local b. Transient	nts are known to t	c.	re program. Heap Global

	ANS: D	PTS:	1	REF:	57	
20.	). The mainline logic of almost every procedural computer program consists of these three distinct parts:					
	<ul> <li>a. housekeeping tasks, processing tasks, and end-of-job tasks</li> <li>b. clearing tasks, detail loop tasks, and end-of-job tasks</li> <li>c. housekeeping tasks, detail loop tasks, and end-of-job tasks</li> <li>d. housekeeping tasks, detail loop tasks, and math tasks</li> </ul>					
	ANS: C	PTS:	1	REF:	57-58	
21.		arly to a		al chart c.	modules, programmers often use a program, to show the overall picture of how modules are flow chart data diagram	
	ANS: A	PTS:	1	REF:	61	
22.	As programs become design	e larger	and more comp	olicated	, the need for good planning and	
	a. decreases b. is inefficient				is not necessary increases	
	ANS: D	PTS:	1	REF:	63	
<ul> <li>23. An is most often represented by a three-sided box that is connect dashed line.</li> <li>a. abstraction symbol</li> <li>b. annotation symbol</li> <li>c. abbreviation symbol</li> <li>d. enumeration symbol</li> </ul>				abbreviation symbol		
	ANS: B	PTS:	1	REF:	64	
24.	Programmers refer to a. undocumented b. procedurally doc ANS: D		d	c.	formally documented self-documenting	
25					instead is just a working variable that you use	
23.	during a program's ea. programming b. throw away		n.	c.	temporary calculating	
G03.5	<b>D. DE</b>					
COM	PLETION					
1.		bles are	known as		variables.	
	ANS: integer					
	PTS: 1	REF:	38			
2.	Declaring a starting	value is	known as		the variable.	

	ANS: initializing
	PTS: 1 REF: 40
3.	Each programming language has a few reserved that are not allowed as variable names because they are part of the language's syntax.
	ANS: keywords key words
	PTS: 1 REF: 41
4.	tasks include any steps you must perform at the beginning of a program to get ready for the rest of the program.
	ANS: Housekeeping House-keeping House keeping nousekeeping nousekeeping nouse-keeping nouse keeping
	PTS: 1 REF: 57
5.	Program are written explanations that are not part of the program logic but that serve as documentation for readers of the program.
	ANS: comments
	PTS: 1 REF: 64

## **MATCHING**

Match each term with a statement below.

a. Reliability
b. Declaration
c. Echoing input
d. String variable
e. Identifier
f. Prompt
g. Variables
h. Data dictionary
i. Numeric variable
j. Type-safety

- 1. Named memory locations whose contents can vary or differ over time
- 2. A statement that provides a data type and an identifier for a variable
- 3. A program component's name
- 4. Can hold digits and have mathematical operations performed on it
- 5. Can hold text, such as letters of the alphabet, and other special characters, such as punctuation marks
- 6. The feature of programming languages that prevents assigning values of an incorrect data type
- 7. The feature of programs that assures you a module has been tested and proven to function correctly
- 8. A list of every variable name used in a program, along with its type, size, and description
- 9. A message that is displayed on a monitor to ask the user for a response and perhaps explain how that response should be formatted

10.	The act of repe	ating input back to	user either in a subseq	uent prompt or in output			
1.	ANS: G	PTS: 1	REF: 39				
	ANS: B	PTS: 1	REF: 39				
3.	ANS: E	PTS: 1	REF: 39				
4.	ANS: I	PTS: 1	REF: 43				
	ANS: D	PTS: 1	REF: 43				
	ANS: J	PTS: 1	REF: 44				
	ANS: A	PTS: 1	REF: 50-51				
	ANS: H ANS: F	PTS: 1 PTS: 1	REF: 67 REF: 69				
	ANS: C	PTS: 1	REF: 70				
	RT ANSWER						
1.	What does a da	ata item's data type o	escribe?				
	ANS: A data item's data type is a classification that describes the following:  1) What values can be held by the item  2) How the item is stored in computer memory  3) What operations can be performed on the data item						
	PTS: 1	REF: 39	TOP: Critica	l Thinking			
2.	List three reaso	ons for modularizing	a large program.				
	<ul><li>ANS:</li><li>1) Modularization provides abstraction.</li><li>2) Modularization allows multiple programmers to work on a problem.</li><li>3) Modularization allows you to reuse your work more easily.</li></ul>						
	PTS: 1	REF: 49	TOP: Critica	l Thinking			
3.	What items sho	ould you include wh	n you create a module	?			
	ANS: When you create a module, you include the following:  1) A header—A module's header includes the module identifier and possibly other necessary identifying information.  2) A body—A module's body contains all the statements in the module.  3) A return statement—A module's return statement marks the end of the module and identifies the point at which control returns to the program or module that called the module.						
	PTS: 1	REF: 51	TOP: Critica	l Thinking			
4.	Explain the pur	rpose of detail loop	asks.				
	ANS:						

Detail loop tasks do the core work of the program. When a program processes many records, detail loop tasks execute repeatedly for each set of input data until there are no more. For example, in a payroll program, the same set of calculations is executed repeatedly until a check has been produced for each employee.

PTS: 1 REF: 58 TOP: Critical Thinking

5. What are end-of-job tasks?

#### ANS:

End-of-job tasks are the steps you take at the end of the program to finish the application. You can call these finish-up or clean-up tasks. They might include displaying totals or other final messages and closing any open files.

PTS: 1 REF: 58 TOP: Critical Thinking

6. List three design features that you can use while creating programs to make them easier to write and maintain.

#### ANS:

Students should list three of the following:

- 1) You should use program comments where appropriate.
- 2) Your identifiers should be well chosen.
- 3) You should strive to design clear statements within your programs and modules.
- 4) You should write clear prompts and echo input.
- 5) You should continue to maintain good programming habits as you develop your programming skills.

PTS: 1 REF: 63-64 TOP: Critical Thinking

7. Explain the purpose of annotation symbols.

#### ANS:

In a flowchart, you can use an annotation symbol to hold information that expands on what is stored within another flowchart symbol. An annotation symbol is most often represented by a three-sided box that is connected to the step it references by a dashed line. Annotation symbols are used to hold comments, or sometimes statements that are too long to fit neatly into a flowchart symbol.

PTS: 1 REF: 64 TOP: Critical Thinking

8. Discuss why it is important to use meaningful names for identifiers.

#### ANS:

Creating a data item named someData or a module named firstModule() makes a program cryptic. Not only will others find it hard to read your programs, but you will forget the purpose of these identifiers even within your own programs. All programmers occasionally use short, non-descriptive names such as x or temp in a quick program; however, in most cases, data and module names should be meaningful. Programmers refer to programs that contain meaningful names as self-documenting. This means that even without further documentation, the program code explains itself to readers.

PTS: 1 REF: 66 TOP: Critical Thinking

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9. Explain the purpose of temporary variables.

## ANS:

When you need several mathematical operations to determine a result, consider using a series of temporary variables to hold intermediate results. A temporary variable (or a work variable) is not used for input or output, but instead is just a working variable that you use during a program's execution.

PTS: 1 REF: 68 TOP: Critical Thinking

10. Discuss why it is important to maintain good programming habits.

#### ANS:

When you learn a programming language and begin to write lines of program code, it is easy to forget the principles you have learned in this text. Having some programming knowledge and a keyboard at your fingertips can lure you into typing lines of code before you think things through. But every program you write will be better if you plan before you code. If you maintain the habit of first drawing flowcharts or writing pseudocode, as you have learned here, your future programming projects will go more smoothly. If you desk-check your program logic on paper before starting to type statements in a programming language, your programs will run correctly sooner. If you think carefully about the variable and module names you use, and design your program statements to be easy to read and use, your programs will be easier to develop and maintain.

PTS: 1 REF: 71 TOP: Critical Thinking