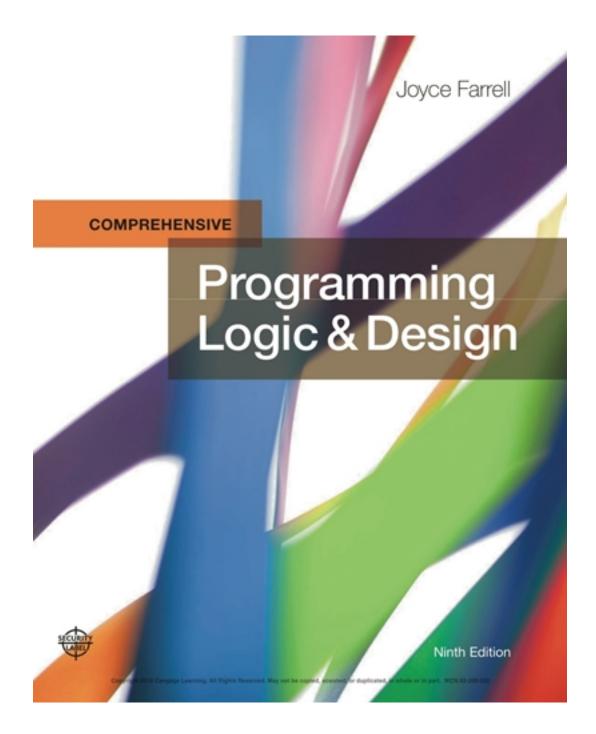
## Test Bank for Programming Logic & Design Comprehensive 9th Edition by Farrell

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# Test Bank

Name:	Class:	Date:
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#### Chapter 02: Elements of High-Quality Programs

1. All programming languages support four broad data types.

a. True

b. False

ANSWER: False

FEEDBACK: Correct Correct. There are two broad data types: numeric and string.

Incorrect Incorrect. There are two broad data types: numeric and string.

POINTS: 1
REFERENCES: 39

**Understanding Data Types** 

*QUESTION TYPE:* True / False

HAS VARIABLES: False

LEARNING OBJECTIVES: PL&D.FARR.18.02.01 - Declare and use variables and constants

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2. Because one memory location can be used repeatedly with different values, you can write program instructions once and then use them for thousands of separate calculations

a. True

b. False

ANSWER: True

FEEDBACK: Correct Correct. Variables are named memory locations whose contents can vary or differ

over time. The ability of variables to change in value is what makes computers and

programming worthwhile.

Incorrect Incorrect. Variables are named memory locations whose contents can vary or differ

over time. The ability of variables to change in value is what makes computers and

programming worthwhile.

POINTS: 1

REFERENCES: 40

Understanding Unnamed, Literal Constants

*QUESTION TYPE:* True / False

HAS VARIABLES: False

LEARNING OBJECTIVES: PL&D.FARR.18.02.01 - Declare and use variables and constants

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3. In many programming languages, if you declare a variable and do not initialize it, the variable contains an unknown value until it is assigned a value.

a. True

b. False

ANSWER: True

FEEDBACK: Correct. A variable's unknown value commonly is called garbage, although some

languages use a default value for some variables.

Incorrect Incorrect. A variable's unknown value commonly is called garbage, although some

languages use a default value for some variables.

Name:	Class:	Date:
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Chapter 02: Elements of High-Quality Programs

POINTS: 1
REFERENCES: 46

Assigning Values to Variables

QUESTION TYPE: True / False

HAS VARIABLES: False

LEARNING OBJECTIVES: PL&D.FARR.18.02.01 - Declare and use variables and constants

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4. Variable names can be more than one word with blanks between the words.

a. True

b. False

ANSWER: False

FEEDBACK: Correct Correct. Variable names are often more than one word, but words are separated

following a variety of naming conventions. Some common naming conventions include camel case, Pascal case, snake case, mixed case with underscores, and

kebob case.

Incorrect Incorrect. Variable names are often more than one word, but words are separated

following a variety of naming conventions. Some common naming conventions include camel case, Pascal case, snake case, mixed case with underscores, and

kebob case.

POINTS: 1

REFERENCES: 43

Understanding a Declaration's Identifier

*QUESTION TYPE:* True / False

HAS VARIABLES: False

LEARNING OBJECTIVES: PL&D.FARR.18.02.01 - Declare and use variables and constants

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5. The assignment operator has left-to-right associativity, which means that the value of the expression to the left of the assignment operator is evaluated first and that the result is assigned to the operand on the right.

a. True

b. False

ANSWER: False

FEEDBACK: Correct Correct. The assignment operator always operates from right to left, which means

that it has right-associativity or right-to-left associativity. This means that the value of the expression on the right of the assignment is evaluated first, and then the

result is assigned to the operand on the left.

Incorrect Incorrect. The assignment operator always operates from right to left, which means

that it has right-associativity or right-to-left associativity. This means that the value of the expression on the right of the assignment is evaluated first, and then the

result is assigned to the operand on the left.

POINTS: 1
REFERENCES: 45

Assigning Values to Variables

Name:	Class:	Date:
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Chapter 02: Elements of High-Quality Programs

QUESTION TYPE: True / False

HAS VARIABLES: False

LEARNING OBJECTIVES: PL&D.FARR.18.02.01 - Declare and use variables and constants

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6. A string variable can hold digits such as account numbers and zip codes.

a. Trueb. False

ANSWER: True

FEEDBACK: Correct. A string variable can hold text, such as letters of the alphabet, and other

special characters, such as punctuation marks. Programmers frequently use strings to hold digits when they will never be used in arithmetic statements.

Incorrect Incorrect. A string variable can hold text, such as letters of the alphabet, and other

special characters, such as punctuation marks. Programmers frequently use strings to hold digits when they will never be used in arithmetic statements.

POINTS: 1
REFERENCES: 41

Understanding a Declaration's Data Type

*QUESTION TYPE:* True / False

HAS VARIABLES: False

LEARNING OBJECTIVES: PL&D.FARR.18.02.01 - Declare and use variables and constants

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7. Programmers generally write programs as one long series of steps.

a. Trueb. False

ANSWER: False

FEEDBACK: Correct. Programmers seldom write programs as one long series of steps. Instead,

they break down their programming problems into smaller units and tackle one

cohesive task at a time. These smaller units are modules.

Incorrect Incorrect. Programmers seldom write programs as one long series of steps. Instead,

they break down their programming problems into smaller units and tackle one

cohesive task at a time. These smaller units are *modules*.

POINTS: 1
REFERENCES: 5

Understanding the Advantages of Modularization

*QUESTION TYPE:* True / False

HAS VARIABLES: False

LEARNING OBJECTIVES: PL&D.FARR.18.02.03 - Appreciate the advantages of modularization

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8. Modularization makes it harder for multiple programmers to work on a problem.

C	LICK H	ERE TO ACCESS	THE COMPLETE Test Bank	
Name:			Class:	Date:
Chapter 02: Elements of Hi	gh-Quality	Programs		
a. True				
b. False				
ANSWER:	False			
FEEDBACK:	Correct		ivide any large task into modules, you ous people and can assign each modu	
	Incorrect		divide any large task into modules, yo g various people and can assign eacl	
POINTS:	1			
REFERENCES:	52			
	Understa	nding the Advantages	of Modularization	
QUESTION TYPE:	True / Fa	lse		
HAS VARIABLES:	False			
LEARNING OBJECTIVES:	PL&D.F.	ARR.18.02.03 - Appre	eciate the advantages of modularization	on
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9. Program comments are a a. True b. False	type of in	ternal documentation.		
ANSWER:	True			
FEEDBACK:	Correct	program logic but that	mments are written explanations that at serve as documentation for readers executing statements that help reader ents.	of the program. In other
	Incorrect	program logic but that	comments are written explanations that serve as documentation for readers executing statements that help reader ents.	of the program. In other
POINTS:	1			
REFERENCES:	Using Pro	ogram Comments		
QUESTION TYPE:	True / Fa	lse		
HAS VARIABLES:	False			

LEARNING OBJECTIVES: PL&D.FARR.18.02.06 - Describe the features of good program design

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10. Most modern programming languages require that program statements be placed in specific columns.

a. Trueb. False

ANSWER: False

FEEDBACK: Correct Correct. Some older programming languages require that program statements be

placed in specific columns. Most modern programming languages are free-form, so

you can arrange your lines of code any way you see fit.

Name:	Class: Date:			
Chapter 02: Elements of H	igh-Quality Programs			
			ming languages are free-form, so	
POINTS:	1			
REFERENCES:	71			
	Avoiding Confusing Line Breaks			
QUESTION TYPE:	True / False			
HAS VARIABLES:	False			
LEARNING OBJECTIVES	: PL&D.FARR.18.02.06 - Describe	the features of good progr	am design	
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	ms, you work with data in three differ named values), and unnamed values			
b. variables, named co	nstants, and named memory			
c. variables, literals (c	r unnamed constants), and named co	nstants		
d. variations, RAM (o	r unnamed constants), and named val	ues		
ANSWER:	c			
FEEDBACK:	a. Incorrect. A value is neither	a data type nor a form of	data.	
	<ul> <li>b. Incorrect. Variables are nan differ over time.</li> </ul>	ned memory locations, wh	ose contents can vary or	
	<ul> <li>c. Correct. When you write pro numeric and string—and in variables, and named const</li> </ul>	three different forms: litera		
	d. Incorrect. Variations and RA	AM are not forms of data.		
POINTS:	1			
REFERENCES:	39			
	Declaring and Using Variables and Constants			
QUESTION TYPE:	Multiple Choice			
HAS VARIABLES:	False			
LEARNING OBJECTIVES	: PL&D.FARR.18.02.01 - Declare a	and use variables and const	tants	
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12. Fractional numeric var	iables that contain a decimal point ar	e known as variables	S.	
a. partial b. string				
c. integer d. floati	ng-point			
ANSWER:	d			
FEEDBACK:	a. Incorrect. A partial variable	is not a defined data type.		
	<ul> <li>b. Incorrect. A string describes be used in arithmetic operation</li> </ul>		umeric. String data cannot	
	c. Incorrect. An integer is a wh	nole number.		
	d. Correct. A floating-point nur	nber is also called a real n	number.	
POINTS:	1			

Name:	Class:	Date:		
Chapter 02: Elements	of High-Quality Programs			
REFERENCES:	39			
	Understanding Data Types			
QUESTION TYPE:	Multiple Choice			
HAS VARIABLES:	False	False		
LEARNING OBJECTI	VES: PL&D.FARR.18.02.01 - Declare and use variables and co	PL&D.FARR.18.02.01 - Declare and use variables and constants		
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13. A specific numeric	value is often called a(n)			
a. named constant	b. defined constant			
c. arithmetic const	ant d. numeric constant			
ANSWER:	d			
FEEDBACK:	<ul> <li>a. Incorrect. A named constant is similar to a variable value only once. You use a named constant when name for a value that will never be changed during</li> </ul>	you want to assign a useful a program's execution.		
	b. Incorrect. <i>Defined constant</i> is an undefined term in confusion of a named constant or the process of definition.			
	<ul> <li>c. Incorrect. Arithmetic constant is an undefined term constant term used in a calculation.</li> </ul>	in programming. It is a		
	<ul> <li>d. Correct. A numeric constant, or literal numeric constant, or literal numeric constant.</li> </ul>	stant, is a specific numeric		
POINTS:	1			
REFERENCES:	39			
	Understanding Data Types			
QUESTION TYPE:	Multiple Choice			
HAS VARIABLES:	False			
	VES: PL&D.FARR.18.02.01 - Declare and use variables and co	nstants		
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	ng languages, before you can use any variable, you must include	e a for it.		
	b. definition			
	d. proclamation			
ANSWER:	a			
FEEDBACK:	<ul> <li>a. Correct. A declaration is a statement that provides optionally an initial value.</li> </ul>	the data type, an identifier, and		
	b. Incorrect. The term <i>definition</i> describes assigning r	nemory for a variable.		
	<ul> <li>c. Incorrect. A header is the first line in a module (or module identifier and other necessary information.</li> </ul>	method), which includes the		
	d. Incorrect. <i>Proclamation</i> is not a commonly-used prog that defines a variable.	ramming term for the statement		
POINTS:	1			
REFERENCES:	41 Working with Variables			
OUESTION TYPE:	Multiple Choice			

Name:		Class:	Date:
Chapter 02: Elements	of High-Quality Program	ns	
HAS VARIABLES:	False		
LEARNING OBJECT	IVES: PL&D.FARR.18.	02.01 - Declare and use variables and	constants
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15. The process of na a. initializing	ming program variables a b. declaring	and assigning a type to them is called	variables.
c. identifying	d. proclaiming		
ANSWER:	b		
FEEDBACK:	a. Incorrect. I	Initializing a variable gives a variable i	ts initial value.
	b. Correct. De an initial va	eclaring a variable provides the data talue.	ype, an identifier, and optionally
	c. Incorrect. variables.	Identifying is not a defined term for th	e naming and assignment of
	d. Incorrect. variables.	Proclaiming is not a defined term for	the naming and assignment of
POINTS:	1		
REFERENCES:	40		
	Working with Va	riables	
QUESTION TYPE:	Multiple Choice		
HAS VARIABLES:	False		
LEARNING OBJECT	IVES: PL&D.FARR.18.	02.01 - Declare and use variables and	constants
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•	•	known as the variable.	
a. initializing	b. declaring		
c. defining	d. identifying		
ANSWER:	a		
FEEDBACK:		itializing a variable gives a variable its Declaring a variable provides the data	
	S	Defining describes when memory is a	ssigned for a variable
		Identifying is not a defined term for as	_
POINTS:	1		
REFERENCES:	45		
TIET ETIET (CEST	Assigning Values	to Variables	
QUESTION TYPE:	Multiple Choice		
HAS VARIABLES:	False		
LEARNING OBJECT	IVES: PL&D.FARR.18.	02.01 - Declare and use variables and	constants
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		is commonly called	
	. default		
	. garbage		
ANSWER:	d		
FEEDBACK:		a. Incorrect. In most languages, a variable has but not initialized; this value is known as go	
		b. Incorrect. Some programming languages as variable; if they do, then the value is known	
		c. Incorrect. A variable's unknown value when initialized is known as <i>garbage</i> .	n it has been declared but not
		d. Correct. Although some languages use a de variable's unknown value commonly is call	
POINTS:	1	·	
REFERENCES:	46		
	Assi	igning Values to Variables	
QUESTION TYPE:	Mul	tiple Choice	
HAS VARIABLES:	Fals		
LEARNING OBJECT	TIVES: PL8	&D.FARR.18.02.01 - Declare and use variables	s and constants
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18. When the variable ——.  a. Hungarian no		a lowercase letter and any subsequent word be Pascal casing	egins with an uppercase letter, this is called
c. camel casing	d.	Turing notation	
ANSWER:	c		
FEEDBACK:		a. Incorrect. Hungarian notation is a form of catype is part of the identifier.	amel casing in which a variable's data
		b. Incorrect. Pascal casing is a convention in visuppercase. It is sometimes called upper clower camel casing.	
		c. Correct. Camel casing is the convention in lowercase letter and any subsequent word	
		d. Incorrect. Turing notation is not a defined co	onvention for naming variables.
POINTS:	1		
REFERENCES:	42		
	Und	lerstanding a Declaration's Identifier	
QUESTION TYPE:	Mul	tiple Choice	
HAS VARIABLES:	Fals	e	
LEARNING OBJECT	TIVES: PL8	D.FARR.18.02.01 - Declare and use variables	s and constants
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19. When the first le		able name is uppercase, as in HourlyWage, t	the format is known as casing.

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c. camel casing	d. Turing notation	
ANSWER:	b	
FEEDBACK:	<ul> <li>a. Incorrect. Hungarian notation is a form of camel type is part of the identifier.</li> </ul>	casing in which a variable's data
	<ul> <li>b. Correct. Pascal casing is a convention in which is uppercase. It is sometimes called upper came lower camel casing.</li> </ul>	
	<ul> <li>c. Incorrect. Camel casing is the convention in while lowercase letter and any subsequent word begin</li> </ul>	
	d. Incorrect. Turing notation is not a defined conve	ention for naming variables.
POINTS:	1	
REFERENCES:	43	
	Understanding a Declaration's Identifier	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
LEARNING OBJECTIVES:	PL&D.FARR.18.02.01 - Declare and use variables and	l constants
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20 is where a variable	's data type or other information is stored as part of the	name.
a. Hungarian notation	b. Pascal case	
c. Turing notation	d. Camel case	
ANSWER:	a	
FEEDBACK:	<ul> <li>a. Correct. Hungarian notation is a form of camel of type is part of the identifier.</li> </ul>	casing in which a variable's data
	<ul> <li>b. Incorrect. Pascal casing is a convention in which is uppercase. It is sometimes called upper came lower camel casing.</li> </ul>	
	c. Incorrect. Turing notation is not a defined conve	ention for naming variables.
	<ul> <li>d. Incorrect. Camel casing is the convention in while lowercase letter and any subsequent word begin</li> </ul>	
POINTS:	1	
REFERENCES:	43	
	Understanding a Declaration's Identifier	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
LEARNING OBJECTIVES:	PL&D.FARR.18.02.01 - Declare and use variables and	l constants
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21. The assignment operator	is the sign.	
a. * b. +		
c. = d. /		
ANSWER:	c	
FEEDBACK:	a. Incorrect. The asterisk is used to multiply nume	rical values.

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	b. Incorrect. The plus sign is used to add numerical values.	
	c. Correct. The equal sign is the assignment operator.	
	d. Incorrect. The forward slash is used to divide numerical values	S.
POINTS:	1	
REFERENCES:	45	
	Assigning Values to Variables	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
LEARNING OBJECTIVES:	PL&D.FARR.18.02.01 - Declare and use variables and constants	
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22. A(n) is similar to a a. unnamed constant	variable, except it can be assigned a value only once. b. literal	
c. named constant	d. constant	
ANSWER:	c	
FEEDBACK:	a. Incorrect. Unnamed constants do not have identifiers like varia	ables do.
	b. Incorrect. A literal is an unnamed constant	
	c. Correct. A named constant can be assigned a value only once constant when you want to assign a useful name for a value the changed during a program's execution.	
	d. Incorrect. Constants may be named or unnamed.	
POINTS:	1	
REFERENCES:	46	
	Declaring Named Constants	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
LEARNING OBJECTIVES:	PL&D.FARR.18.02.01 - Declare and use variables and constants	
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23. The dictate the ord	ler in which operations in the same statement are carried out.	
a. rules of precedence	b. statement rules	
c. operation rules	d. rules of arithmetic	
ANSWER:	a	
FEEDBACK:	a. Correct. The rules of precedence, also called the order of ope expressions within parentheses are valuated first, starting with parentheses if there are multiple sets; then multiplication and right; and then addition and subtraction from left to right. The a has a very low precedence, so the arithmetic operations are p final assignment.	n the innermost division from left to assignment operator
	b. Incorrect. <i>Statement rules</i> is not a defined term. Every operator precedence that dictate which operations in the same statement	

c. Incorrect. Operator rules is not a defined term. Every operator follows rules of

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Chapter 02: Elements of Hi	gh-Quality Progra	ms	
	-	ee that dictate which operations in the	
		Rules of arithmetic is not a defined tence that dictate which operations in	* *
POINTS:	1		
REFERENCES:	48 Parforming Arith	amatia Oparations	
OHECTION TYPE.	_	nmetic Operations	
QUESTION TYPE:	Multiple Choice		
HAS VARIABLES:	False		
		.02.02 - Perform arithmetic operation	ns
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24. Depending on the progr	ramming language	being used, modules are also known	as
a. subroutines, procedu	ires, or methods	b. subroutines, receptacles, or meth	nods
c. tasks, functions, or r	nethods	d. procedures, functions, or contain	ners
ANSWER:	a		
FEEDBACK:		Programmers often refer to modules a or <i>methods</i> ; the name usually reflect	•
		Subroutine and method are defined trm used to refer to a module.	erms, but receptacle is not a
		Function and method are defined ter fer to a module.	rms, but <i>task</i> is not a defined term
		Procedure and function are defined rm used to refer to a module.	terms, but <i>container</i> is not a
POINTS:	1		
REFERENCES:	51 Understanding th	ne Advantages of Modularization	
QUESTION TYPE:	Multiple Choice	Ç	
HAS VARIABLES:	False		
		.02.03 - Appreciate the advantages o	f modularization
DATE CREATED:	9/12/2016 12:40	• • • • • • • • • • • • • • • • • • • •	i moduluization
DATE MODIFIED:	11/15/2019 4:11		
25 The process of breaking	o down a large proc	gram into modules is called	
_	modularization	5	
1 0	caching		
ANSWER:	b		
FEEDBACK:		The process of breeking down a large	to program into modulos is called
I ELDBACK.		The process of breaking down a largeration, although computer scientists a cition.	
		The process of breaking down a large	program into modules is called

c. Incorrect. Fragmentation is not a defined term regarding breaking down a large

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Chapter 02: Elements	of High-Quality	Programs	
	pro	ogram into modules.	
		correct. <i>Caching</i> is not a defined term regate modules. It is likely a confusion of storic	
POINTS:	1		
REFERENCES:	52		
	Understa	nding the Advantages of Modularization	
QUESTION TYPE:	Multiple	Choice	
HAS VARIABLES:	False		
LEARNING OBJECTI	VES: PL&D.FA	ARR.18.02.03 - Appreciate the advantages	s of modularization
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26 is the process	of paying atten	ation to important properties while ignoring	g nonessential details.
a. Abstraction	b. Modulariza	ution	
c. Abbreviation	d. Decomposi	ition	
ANSWER:	a		
FEEDBACK:		orrect. Abstraction is the process of paying nile ignoring nonessential details.	g attention to important properties
		correct. The process of breaking down a land dularization.	arge program into modules is called
	c. Inc	correct. Abbreviation is not a defined term	regarding modularization.
	mo	correct. The process of breaking down a land adularization, although computer scientists composition.	
POINTS:	1	-	
REFERENCES:	52		
		zation Provides Abstraction	
QUESTION TYPE:	Multiple	Choice	
HAS VARIABLES:	False		
LEARNING OBJECTI	VES: PL&D.FA	ARR.18.02.03 - Appreciate the advantages	s of modularization
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27. Programmers say t a. embedded	he statements the	nat are contained in a module have been	<u> </u>
c. encapsulated	d. modularize	d	
ANSWER:	c		
FEEDBACK:	a. Ind	correct. Embedded is not a defined term re	garding modularization.
	b. Inc	correct. <i>Decomposed</i> is not a defined term confusion of the term <i>functional decompos</i>	regarding modularization. It is likely
	c. Co	orrect. Encapsulation is the act of containing	ng instructions in a module.
		correct. <i>Modularized</i> describes a program odules.	that has been broken down into

Name:	Class:	Date:
Chapter 02: Elements of Hi	gh-Quality Programs	
POINTS:	1	
REFERENCES:	58	
	Modularizing a Program	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
LEARNING OBJECTIVES:	PL&D.FARR.18.02.04 - Modularize a program	
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*	ariables and constants declared within a module are only	y within that module.
	of scope	
1	eference	
ANSWER:	c	
FEEDBACK:	a. Incorrect. Abstracted is not a defined term.	
	<ul> <li>b. Incorrect. A variable that is out of scope describes a module.</li> </ul>	variable existing in a different
	<ul> <li>c. Correct. Programmers say data is visible or in scope which they are declared.</li> </ul>	only within the module in
	d. Incorrect. In reference is not a defined term.	
POINTS:	1	
REFERENCES:	59	
	Declaring Variables and Constants within Modules	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
LEARNING OBJECTIVES:	PL&D.FARR.18.02.04 - Modularize a program	
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	tants are known to the entire program.	
a. Local b. Transier	nt	
c. Heap d. Global		
ANSWER:	d	
FEEDBACK:	<ul> <li>a. Incorrect. Local variable may only be accessed within declared.</li> </ul>	n the module they are
	b. Incorrect. <i>Transient</i> is not a defined term regarding v	variables.
	c. Incorrect. Heap is not a defined term regarding varia	bles.
	d. Correct. Global variables and constants are known to	o the entire program.
POINTS:	1	
REFERENCES:	60	
	Declaring Variables and Constants within Modules	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
LEARNING OBJECTIVES:	PL&D.FARR.18.02.04 - Modularize a program	
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<ul><li>a. housekeeping tasks</li><li>b. clearing tasks, deta</li></ul>	almost every procedural computer program consists of main tasks, and end-of-job tasks il loop tasks, and end-of-job tasks detail loop tasks, and end-of-job tasks	of these three distinct parts:
1 0	, detail loop tasks, and math tasks	
ANSWER:	c	
FEEDBACK:	<ul> <li>a. Incorrect. Main tasks are not defined as a p procedural program.</li> </ul>	part of the mainline logic of a
	<ul> <li>b. Incorrect. Clearing tasks are not defined as procedural program.</li> </ul>	a part of the mainline logic of a
	<ul> <li>Correct. The mainline logic of a procedural tasks, goes to detail loop tasks, and finishe</li> </ul>	
	<ul> <li>d. Incorrect Math tasks are not defined as a paper program.</li> </ul>	art of the mainline logic of a procedural
POINTS:	1	
REFERENCES:	60-61 Understanding the Most Common Configuration f	or Mainline Logic
OHESTION TVDE.		or wannine Logic
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
	S: PL&D.FARR.18.02.04 - Modularize a program	
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	everal modules calling other modules, programmers on all chart, to show the overall picture of how modules b. tree chart d. data diagram	
ANSWER:	a	
FEEDBACK:	<ul> <li>a. Correct. A hierarchy chart tells which modu modules call others.</li> </ul>	les exist within a program and which
	<ul> <li>b. Incorrect. A tree chart is not a specific type charts.</li> </ul>	of chart but describes the structure of
	<ul> <li>c. Incorrect. A flow chart tells what tasks are t the modules are called, how a module executed</li> </ul>	•
	d. Incorrect. <i>Data diagram</i> is not a defined tendingram that shows a data structure.	rm and is likely a confusion of a
POINTS:	1	
REFERENCES:	64	
	Creating Hierarchy Charts	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	

DATE CREATED:

LEARNING OBJECTIVES: PL&D.FARR.18.02.05 - Create hierarchy charts

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<ul><li>a. decreases</li><li>c. is not necessary</li></ul>	arger and more complicated, the b. is inefficient d. increases	e need for good planning a	and design
ANSWER:	d		
FEEDBACK:	simple programs. b. Incorrect. <i>Efficiency</i> is process. c. Incorrect. Large and c	s a subjective term surrour	more planning and design than adding the planning and design more planning and design than
	simple programs. d. Correct. Large and co simple programs.	mplex programs require n	nore planning and design than
POINTS:	1		
REFERENCES:	66 Features of Good Program D	esign	
QUESTION TYPE:	Multiple Choice		
HAS VARIABLES:	False		
LEARNING OBJECTIVES	: PL&D.FARR.18.02.06 - Des	cribe the features of good	program design
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33. In a flowchart, an dashed line.	is most often represented by a	three-sided box that is con	nnected to the step it references by a
a. abstraction symbol	b. annotation symbol		
c. abbreviation symbo	d. enumeration symbol		
ANSWER:	b		
FEEDBACK:	a. Incorrect. There is no	defined flowchart symbol	used to show an abstraction.
	connected by a dashe	d line to the step it referer	resented by a three-sided box nces. Annotation symbols are o fit neatly into a flowchart
	c. Incorrect. There is no	defined flowchart symbol	used in abbreviation.
	d. Incorrect. There is no	defined flowchart symbol	used in enumeration.
POINTS:	1		
REFERENCES:	67 Using Program Comments		
QUESTION TYPE:	Multiple Choice		
HAS VARIABLES:	False		
LEARNING OBJECTIVES	: PL&D.FARR.18.02.06 - Des	cribe the features of good	program design
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34. Programmers refer to p	rograms that contain meaningf	ul names as	

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a. undocumented	b. procedural	lly documented	
c. formally docume	•	•	
ANSWER:	d		
FEEDBACK:	a. Incorrect.	Undocumented refers to a program c	ontaining no documentation.
		Procedurally documented is not a de	_
		Formally documented is not a define	
		elf-documenting code explains itself	
		al program names.	
POINTS:	1		
REFERENCES:	69		
	Choosing Identif	iers	
QUESTION TYPE:	Multiple Choice		
HAS VARIABLES:	False		
LEARNING OBJECTIV	ES: PL&D.FARR.18	.02.06 - Describe the features of good	d program design
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35. A variable is a execution.	not used for input or ou	atput, but instead is just a working va	riable that you use during a program's
a. programming	b. throw away		
c. temporary	d. calculating		
ANSWER:	c		
FEEDBACK:		Programming variable is not a defined in a program.	ed term. It likely describes a
	b. Incorrect.	Throw away variable is not a defined	d term.
	c. Correct. A	temporary or work variable is used	during a program's execution.
		Calculating variable is not a defined ry variable used to perform calculation	
POINTS:	1		
REFERENCES:	71		
	Designing Clear	Statements	
QUESTION TYPE:	Multiple Choice		
HAS VARIABLES:	False		
LEARNING OBJECTIV	ES: PL&D.FARR.18	.02.06 - Describe the features of good	d program design
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36. Whole number vari	ables are known as	variables.	
ANSWER:	integer		
POINTS:	1		
REFERENCES:	39	<b></b>	
	Understanding D	Pata Types	
QUESTION TYPE:	Completion		

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HAS VARIABLES:	False		
STUDENT ENTRY MODE:			
	PL&D.FARR.18.02.01 - De	clare and use variabl	es and constants
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	11/15/2019 4:11 PM		
DITTE MODITIED.	11/13/2017 4.111111		
37. Declaring a starting valu	ie is known as	the varial	ole.
ANSWER:	initializing		
POINTS:	1		
REFERENCES:	41		
	Working with Variables		
QUESTION TYPE:	Completion		
HAS VARIABLES:	False		
STUDENT ENTRY MODE:	Basic		
LEARNING OBJECTIVES:	PL&D.FARR.18.02.01 - De	clare and use variable	es and constants
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			that are not allowed as variable names
because they are part of the			
ANSWER:	keywords		
POINTS:	key words		
REFERENCES:	42 Understanding a Declaration	a's Identifier	
QUESTION TYPE:	Completion		
HAS VARIABLES:	False		
STUDENT ENTRY MODE:	Basic		
LEARNING OBJECTIVES:	PL&D.FARR.18.02.01 - De	clare and use variable	es and constants
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	tasks include any steps you n	nust perform at the b	eginning of a program to get ready for the
rest of the program.	II		
ANSWER:	Housekeeping House-keeping		
	House keeping		
	housekeeping		
	house-keeping		
	house keeping		
POINTS:	1		
REFERENCES:	60	G 21 .	
0.XXXXXXXXX	Understanding the Most Cor	mmon Configuration	for Mainline Logic
QUESTION TYPE:	Completion		
HAS VARIABLES:	False		

Name: Class: Date: Chapter 02: Elements of High-Quality Programs STUDENT ENTRY MODE: Basic LEARNING OBJECTIVES: PL&D.FARR.18.02.04 - Modularize a program DATE CREATED: 9/12/2016 12:40 PM 11/15/2019 4:11 PM DATE MODIFIED: 40. Program \_\_\_\_\_ are written explanations that are not part of the program logic but that serve as documentation for readers of the program. ANSWER: comments **POINTS:** 1 REFERENCES: 67 **Using Program Comments** Completion *QUESTION TYPE:* False HAS VARIABLES: STUDENT ENTRY MODE: Basic LEARNING OBJECTIVES: PL&D.FARR.18.02.06 - Describe the features of good program design DATE CREATED: 9/12/2016 12:40 PM DATE MODIFIED: 11/15/2019 4:11 PM 41. What does a data item's data type describe? ANSWER: 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 1 **POINTS:** REFERENCES: 39 **Understanding Data Types** *QUESTION TYPE:* Subjective Short Answer False HAS VARIABLES: STUDENT ENTRY MODE: Basic LEARNING OBJECTIVES: PL&D.FARR.18.02.01 - Declare and use variables and constants TOPICS: Critical Thinking 9/12/2016 12:40 PM DATE CREATED: DATE MODIFIED: 11/15/2019 4:11 PM 42. List three reasons for modularizing a large program. ANSWER: 1) Modularization provides abstraction. 2) Modularization allows multiple programmers to work on a problem. 3) Modularization allows you to reuse your work more easily. 1 **POINTS:** REFERENCES: 52 Understanding the Advantages of Modularization Subjective Short Answer **QUESTION TYPE:** 

STUDENT ENTRY MODE: Basic

False

HAS VARIABLES:

Name: Cl	lass:	Date:
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Chapter 02: Elements of High-Quality Programs

LEARNING OBJECTIVES: PL&D.FARR.18.02.03 - Appreciate the advantages of modularization

 TOPICS:
 Critical Thinking

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43. What items should you include when you create a module?

ANSWER: 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.

POINTS: 1
REFERENCES: 54

Modularizing a Program

QUESTION TYPE: Subjective Short Answer

*HAS VARIABLES:* False *STUDENT ENTRY MODE:* Basic

LEARNING OBJECTIVES: PL&D.FARR.18.02.04 - Modularize a program

TOPICS: Critical Thinking

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44. Explain the purpose of detail loop tasks.

ANSWER: 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.

POINTS: 1
REFERENCES: 6

Understanding the Most Common Configuration for Mainline Logic

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY MODE: Basic

LEARNING OBJECTIVES: PL&D.FARR.18.02.04 - Modularize a program

TOPICS: Critical Thinking

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45. What are end-of-job tasks?

ANSWER: 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.

POINTS: 1
REFERENCES: 61

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Chapter 02: Elements of High-Quality Programs

Understanding the Most Common Configuration for Mainline Logic

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY MODE: Basic

LEARNING OBJECTIVES: PL&D.FARR.18.02.04 - Modularize a program

TOPICS: Critical Thinking

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

ANSWER: 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.

POINTS: 1
REFERENCES: 67

Features of Good Program Design

*QUESTION TYPE:* Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY MODE: Basic

LEARNING OBJECTIVES: PL&D.FARR.18.02.06 - Describe the features of good program design

TOPICS: Critical Thinking

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47. Explain the purpose of annotation symbols.

ANSWER: 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.

POINTS: 1
REFERENCES: 67

**Using Program Comments** 

*QUESTION TYPE:* Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY MODE: Basic

LEARNING OBJECTIVES: PL&D.FARR.18.02.06 - Describe the features of good program design

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#### Chapter 02: Elements of High-Quality Programs

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

ANSWER: 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.

POINTS: 1
REFERENCES: 69

**Choosing Identifiers** 

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY MODE: Basic

LEARNING OBJECTIVES: PL&D.FARR.18.02.06 - Describe the features of good program design

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49. Explain the purpose of temporary variables.

ANSWER: 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.

POINTS: 1
REFERENCES: 71

Using Temporary Variables to Clarify Long Statements

*QUESTION TYPE:* Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY MODE: Basic

LEARNING OBJECTIVES: PL&D.FARR.18.02.06 - Describe the features of good program design

TOPICS: Critical Thinking

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

ANSWER: 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.

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Chapter 02: Elements of Hig	gh-Quality Programs	
POINTS:	1	
REFERENCES:	74 Maintaining Good Programming Habits	
QUESTION TYPE:	Subjective Short Answer	
HAS VARIABLES:	False	
STUDENT ENTRY MODE:	Basic	
LEARNING OBJECTIVES:	PL&D.FARR.18.02.06 - Describe the features of good program design	
TOPICS:	Critical Thinking	
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Match each term with a stat a. Reliability	ement below.	
b. Declaration		
c. Echoing input		
d. String variable		
e. Identifier		
f. Prompt		
g. Variables		
h. Data dictionary		
i. Numeric variable		
j. Type-safety		
REFERENCES:	<ul> <li>40, Working with Variables</li> <li>41, Working with Variables, Understanding a Declaration's Data Type</li> <li>42, Understanding a Declaration's Identifier</li> <li>54, Modularization Allows You to Reuse Work</li> <li>70, Choosing Identifiers</li> <li>72, Writing Clear Prompts and Echoing Input</li> <li>73, Writing Clear Prompts and Echoing Input</li> </ul>	
QUESTION TYPE:	Matching	
HAS VARIABLES:	False	
LEARNING OBJECTIVES:	PL&D.FARR.18.02.01 - Declare and use variables and constants PL&D.FARR.18.02.03 - Appreciate the advantages of modularization PL&D.FARR.18.02.06 - Describe the features of good program design	
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51. Named memory location <i>ANSWER</i> : g <i>POINTS</i> : 1	ns whose contents can vary or differ over time	

52. A statement that provides a data type and an identifier for a variable

ANSWER: b
POINTS: 1

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53. A program component's name <i>ANSWER:</i> e		
POINTS: 1		
54. Can hold digits and have mathematica ANSWER: i	al operations performed on it	
POINTS: 1		
55. Can hold text, such as letters of the algaes ANSWER: d	phabet, and other special characters, suc	h as punctuation marks
POINTS: 1		
56. The feature of programming language <i>ANSWER</i> : j	es that prevents assigning values of an in	correct data type
POINTS: 1		
57. The feature of programs that assures y <i>ANSWER</i> : a	you a module has been tested and prover	n to function correctly
POINTS: 1		
58. A list of every variable name used in a <i>ANSWER:</i> h	a program, along with its type, size, and	description
POINTS: 1		
59. A message that is displayed on a mon be formatted	itor to ask the user for a response and pe	erhaps explain how that response should
ANSWER: f		
POINTS: 1		
60. The act of repeating input back to a us	ser either in a subsequent prompt or in o	utput
POINTS: 1		