### **Test Bank for C++ for Engineers and Scientists 4th Edition by Bronson**

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Chapter 2: Problem Solving Using C++

## **TRUE/FALSE**

- 1. Modular programs are easier to develop, correct, and modify than programs constructed in some other manner.
  - PTS: 1 ANS: T **REF: 45**
- 2. One important requirement for designing a good function is giving it a name that conveys some idea of what the function does.
  - ANS: T PTS: 1 REF: 47
- 3. Except for strings, double quotes, identifiers, and keywords, C++ ignores all white space.

ANS: T PTS: 1 REF: 56

- 4. C++ is a case-sensitive language.
  - ANS: T PTS: 1 REF: 48
- 5. Programs in C++ can have more than one main () function.
  - ANS: F PTS: 1 **REF: 48**
- 6. Preprocessor commands end with a semicolon.
  - ANS: F REF: 51 PTS: 1
- 7. C++ provides ten built-in integer data types.
  - ANS: F PTS: 1 REF: 61
- 8. You cannot add and subtract character data and mix it with integer data to produce useful results.

ANS: F PTS: 1 **REF: 70** 

- 9. Although declaration statements can be placed anywhere in a function, typically they're grouped together and placed after the function's opening brace.
  - ANS: T PTS: 1 REF: 81
- 10. Omitting the parentheses after main () is a common programming error.

ANS: T PTS: 1 REF: 97

## **MULTIPLE CHOICE**

- 1. Programs with a structure consisting of interrelated segments, called \_\_\_\_\_, are arranged in a logical, easily understandable order to form an integrated and complete unit. a. blocks
  - c. units

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	b. modules			d.	procedures		
	ANS: B	PTS:	1	REF:	45		
2.	manner. a. Modular	asier to	develop, corre	c.	nodify than programs constructed in some other Sequential		
	b. Handwritten				Low-level		
	ANS: A	PTS:	1	REF:	45		
3.	3. A contains both data and functions appropriate for manipulating the data. a. segment c. class						
	<ul><li>a. segment</li><li>b. block</li></ul>				function		
	ANS: C	PTS:	1	REF:	47		
4. $A(n)$ is a word the language sets aside for a special purpose and can be used only in							
	manner. a. codeword b. keyword				identifier classname		
	ANS: B	PTS:	1	REF:	47		
5.	The maximum numb	oer of ch	naracters in a fu	inction	name is		
	a. 128			c.	512		
	b. 256				1024		
	ANS: D	PTS:	1	REF:	47		
6.	A(n) is a word	designe	ed as a memory				
	a. mnemonic b. keyword				reserved word identifier		
	ANS: A	PTS:	1	REF:	48		
7.	The main() function	on is ref	erred to as a(n)	)f	unction because it tells other functions the sequence		
	in which they execut a. logical	te.		с	driver		
	b. auxiliary				class		
	ANS: C	PTS:	1	REF:	48		
8.	Data transmitted to a	a functio	on at runtime is	referre	d to as the of the function.		
	<ul><li>a. return value</li><li>b. arguments</li></ul>				body structure		
	ANS: B	PTS:	1	REF:			
0	<ol> <li>9. The is an output object that sends data it receives to the standard display device.</li> </ol>						
9.	a. out	n objec	t that sends dat		print		
	b. cin			d.	cout		
	ANS: D	PTS:	1	REF:	50		
10.	Preprocessor comma a. #	ands beg	gin with a		//		

	b. !			d.	*/		
	ANS: A	PTS:	1	REF:	51		
11 in C++ are any combination of letters, numbers, and special characters enclosed in quotation marks.							
	<ul><li>a. Arrays</li><li>b. Strings</li></ul>				Enums Objects		
	ANS: B	PTS:	1	REF:	52		
12.	The newline escape s						
	a. \l b. \r				\n \t		
	ANS: C	PTS:	1	REF:	52		
13.	are explanatory a. Comments	remark	as made in a pro	с.	Escape sequences Classes		
	b. Strings ANS: A	PTS:	1				
14.	<ul><li>A begins with t</li><li>a. program comment</li><li>b. function comment</li></ul>	nt	hes $(//)$ and co	c.	s to the end of the line. block comment line comment		
	ANS: D	PTS:	1	REF:	57		
15.	A(n) is an acce a. primitive value b. literal	ptable v	value for a data	с.	built-in value class value		
	ANS: B	PTS:	1	REF:	61		
16.	The three most impo	rtant an	d common inte	ger typ	es used in most applications are int, char, and		
	a. long int b. unsigned ch	ar			bool long		
	ANS: C	PTS:	1	REF:	61		
17. The C++ operator provides the number of bytes used to store values for any data typ the operator's parentheses.							
	<pre>a. size() b. sizeof()</pre>				length() lengthof()		
	ANS: B	PTS:	1	REF:	65		
18.	A(n) number, more commonly known as a real number, can be the number zero or any positive or negative number that contains a decimal point.						
	<ul><li>a. boolean</li><li>b. integer</li></ul>				long int floating-point		
	ANS: D	PTS:	1	REF:	67		

19. A(n) \_\_\_\_\_ is an item used to change how the output stream of characters is displayed.

	<ul><li>a. manipulator</li><li>b. escape sequence</li></ul>				string char object	
	ANS: A	PTS:	1	REF:	72	
20.	A(n) is simply a. constant b. variable	a name	the programme	c.	is to refer to computer storage locations. expression identifier	
	ANS: B	PTS:	1	REF:	79	
21.	A(n) data value is considered a complete entity and can't be decomposed into a smaller data type supported by the language.					
	<ul><li>a. composed</li><li>b. atomic</li></ul>				complex real	
	ANS: B	PTS:	1	REF:	82	
22.	When a declaration s a. initialized b. deleted	tatemer	nt is used to sto	c.	ue into a variable, the variable is said to be reserved used	
	ANS: A	PTS:	1	REF:	83	
23.	The value stored in ta a. address b. location	he varia	ble is referred	c.	e variable's data contents	
	ANS: D	PTS:	1	REF:	86	
24.	To determine the add address of."	lress of	a variable, we	can use	C++'s address operator,, which means "the	
	a. * b. =			c. d.		
	ANS: C	PTS:	1	REF:	88	
25.	A common programmi insertion symbol,		ror consists of f	forgettin	g to separate data streams sent to cout with the	
	a. < b. >				>> <<	
	ANS: D	PTS:	1	REF:	97	
СОМ	PLETION					
1.	A program consists of to perform a specific		ograms, called		, that are designed and developed	
	ANS: modules					
	PTS: 1	REF:	46			
2.	In C++, a module car	n be a c	lass or a(n)		·	

ANS: function

PTS: 1 REF: 46

3. In an object-oriented language, such as C++, a(n) \_\_\_\_\_\_ encapsulates both data and sets of operations.

ANS: class

PTS: 1 REF: 47

4. In a function header, the \_\_\_\_\_\_ before the function name defines the type of value the function returns when it has completed operating.

ANS: keyword

PTS: 1 REF: 49

5. Each \_\_\_\_\_\_ inside the function body must end with a semicolon (;).

ANS: statement

PTS: 1 REF: 50

6. The output object that sends data it receives to the standard display device, or console, is called

ANS: cout

PTS: 1 REF: 50

7. The \_\_\_\_\_\_ and ostream classes provide the data declarations and methods used for data input and output, respectively.

ANS: istream

PTS: 1 REF: 51

8. C++ supports two types of comments: line and \_\_\_\_\_.

ANS: block

PTS: 1 REF: 57

9. A(n) \_\_\_\_\_\_ is defined as a set of values and a set of operations that can be applied to these values.

ANS: data type class

PTS: 1 REF: 60

10.	In C++, a(n) character changes the normal interpretation of the character following it and alters its meaning.	
	ANS: escape	
	PTS: 1 REF: 52	
11.	The data type is used to store single characters.	
	ANS: char	
	PTS: 1 REF: 62	
12.	A(n) data type allows negative values to be stored as well as zero and positive values.	
	ANS: signed	
	PTS: 1 REF: 66	
13.	In C++, a(n) is any combination of operators and operands that can be evaluated to yield a value.	
	ANS: expression	
	PTS: 1 REF: 73	
14.	A(n) statement names a variable and specifies the data type that can be store in it.	ed:
	ANS: declaration	
	PTS: 1 REF: 80	
15.	Variables used to hold single-precision values are declared by using the keyword	
	ANS: float	
	PTS: 1 REF: 67	
16.	Every variable has three major items associated with it: its data type, the value stored in it, and its	
	ANS: address	
	PTS: 1 REF: 87	
17.	Forgetting to enclose a string sent to with quotation marks is a common programming error.	
	ANS: cout	

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PTS: 1 REF: 97