Objective-C and iOS Programming A Simplified Approach To Developing Apps for the Apple iPhone and iPad 1st Edition Full Download: http://testbanklive.com/download/objective-c-and-ios-programming-a-simplified-approach-to-developing-apps-for

Chapter 2: Data Types and Arithmetic Expressions

TRUE/FALSE

1. Data can take many forms, including numbers, individual alphabetic characters, strings of alphabetic characters, and numbers with specific decimal precision.

ANS: T PTS: 1 REF: 16

2. NSLog provides an extended set of functionality for outputting information such as the option to format data.

ANS: T PTS: 1 REF: 16

3. NSLog takes at least two string parameters.

ANS: F PTS: 1 REF: 16

- 4. The \n in the NSLog statement: NSLog(@"Please enter a number\n"); is a number specifier.
 - ANS: F PTS: 1 REF: 17
- 5. In the Objective-C statement: scanf("%d", &num); &num is the name of a variable in which a number will be stored.

ANS: T PTS: 1 REF: 17

6. The Objective-C int data type is used to store a whole number that does not have a decimal point.

ANS: T PTS: 1 REF: 18

7. The Objective-C char data type is used to store strings of characters.

ANS: F PTS: 1 REF: 19

8. The Objective-C float data type is used to store real numbers.

ANS: T PTS: 1 REF: 20

10. The Objective-C id data type is typically used to point to an object of an unknown data type.

REF: 21

ANS: T PTS: 1 REF: 23

PTS: 1

ANS: T

Full download all chapters instantly please go to Solutions Manual, Test Bank site: testbanklive.com

11. The struct functionality in Objective-C allows a programmer to define a new data type with enumerations.

ANS: F PTS: 1 REF: 24

12. In Objective-C, the values assigned to enumerations are of integer type.

ANS: T PTS: 1 REF: 25

13. In the Objective-C statement: typedef enum {Jan, Feb, March, April, May} Month; the value of April is 4.

ANS: F PTS: 1 REF: 25

14. The #define statement in Objective-C is an example of a preprocessor.

ANS: T PTS: 1 REF: 26

15. An advantage of using constants in a program is that, if the value of the constant needs to be changed, the programmer only needs to change it in one location rather than searching the entire program and modifying every instance.

ANS: T PTS: 1 REF: 26

16. Expressions that contain operands and operators are called arithmetic expressions.

ANS: T PTS: 1 REF: 26

17. If the Objective-C operator div is used with integers and there is a nonzero remainder, it will round up or down to the nearest integer.

ANS: F PTS: 1 REF: 27

18. You can use either pre or post increment notation for increment operations since the results are always the same.

ANS: F PTS: 1 REF: 30

19. The Objective-C pre increment operator will first evaluate the expression and then perform the increment after the expression is evaluated.

ANS: F PTS: 1 REF: 30

20. The Objective-C subtract and assign operator, -=, first subtracts a value from a variable and then assigns this new value to the variable.

ANS: T PTS: 1 REF: 32

MULTIPLE CHOICE

1. To store data, a program requires placeholders. A _____ placeholder holds data that changes as the program runs.

	a. constantb. variable		с. d.	string concatenated
	ANS: B	PTS: 1	REF:	16
2.	Data types help the a. compiler b. interpreter	Objective-C languag	с.	ocate memory for storage. memory manager programmer
	ANS: A	PTS: 1	REF:	16
3.	In Objective-C, con- a. addresses b. numbers	catenation is the proc	с.	abining multiple into a single element. variables strings
	ANS: D	PTS: 1	REF:	16
4.	 is identified bya. Scanfb. NSError	y Apple as an error lo	с.	ism used to output data to the console. NSLog NSOutput
	ANS: C	PTS: 1	REF:	16
5.	The NSLog function character that specif a. data-type b. format	-	с.	e tokens that start with the symbol %, followed by a foundation parameter
	ANS: B	PTS: 1	REF:	16
6.		r more parameters in ts with the sym		
	ANS: B	PTS: 1	REF:	16
7.	<pre> reads input typ a. Read b. Readline ANS: D</pre>	ped by the user. PTS: 1	c. d. REF:	
8.	In the Objective-C s scanf ("%f, the variable num ha a. decimal b. real	#);	c. d.	integer float
	ANS: D	PTS: 1	REF:	
c				
9.	-	anf method in code use the format specif	-	es the user to enter data that will be stored as a %f %lf

ANS: D PTS: 1 REF: 18

10.	The data type is a. char b. int	s used to	o store a whole	numbe c. d.	
	ANS: B	PTS:	1	REF:	18
11.	The data type is a. int	s used to	o store a single		ter. character
	b. char			d.	string
	ANS: B	PTS:	1	REF:	19
12.	The storage space uti	lized by	y an Objective-	C floa	
	a. 8 b. 32			c. d	64 128
	ANS: B	PTS:	1	REF:	
12	The stars as areas at	line d he	n an Obiantina	Calanal	- 1 - in Like
13.	The storage space uti a. 8	inzed by	y an Objective-	C dour c.	
	b. 32				128
	ANS: C	PTS:	1	REF:	20
14.	4. Various combinations of basic data types can be used to create more complex data types. What ar these data types called?				sed to create more complex data types. What are
	a. complexb. combined			с. d.	derived double
	ANS: C	PTS:	1	REF:	21
15.	The type holds	a memo	ory location wh	ere data	a is stored.
	a. pointer			с.	
	b. id ANS: A	PTS:	1	d. REF:	struct
16.		a varia	ble of type		ated by using the * symbol. pointer
	a. charb. struct				id
	ANS: C	PTS:	1	REF:	21
17.	a pointer means	s extrac	ting the value th	he poin	ter is pointing to.
	a. Dereferencing			-	Releasing
	b. Extracting			d.	Deriving
	ANS: A	PTS:	1	REF:	21
18.	The Objective-C NSI	Log for	mat specifier fo	or a poi	nter variable is
	a. %d				% n
	b. %v			d.	%p
	ANS: D	PTS:	1	REF:	22

19. Given the following code segment:

int num = 5; int * ptrValue; ptrValue = #

where the memory address holding num is 0x7fff6506989c, the output from the statement NSLog(@"%d", *ptrValue) is _____. a. 5 c. num b. 0x7fff6506989c d. 50x7ff6506989c ANS: A **PTS**: 1 REF: 22 20. The _____ type is a generic data type that stores data of any type. a. id c. pointer b. struct d. gen ANS: A PTS: 1 REF: 23 21. The _____ type is a combination of several data types that creates a new custom data type. It is a remnant of the original C language, before object oriented programming was introduced. c. pointer a. id b. struct d. gen ANS: B PTS: 1 **REF: 23** 22. Given the following Objective-C code segment: struct ball { int num; float size; char color; }; struct ball b; which of the following statements would set the value of the property num of the newly created variable to 5? a. ball.num = 5;c. struct.ball = 5; **b.** b.num = 5;d. struct.b = 5;REF: 23 ANS: B PTS: 1 23. ____ notation is used to populate and retrieve the values of variables in a structure. a. Char c. Dot b. Struct d. #

ANS: C PTS: 1 REF: 24

24. In Objective-C, the term _____ means a defined range of values for a variable.

a. itemizationb. enumeration			list inventory
ANS: B	PTS: 1	REF:	24

25. In the following section of code, the programmer did not specify the value that should be associated with each month.

	<pre>typedef enum { Jan, Feb, March, April, May, } Month;</pre>				
	By default, the first i	month,	Jan, will be ass	signed t	he value
	a. 0 b. 1				%undefined %error
	ANS: A	PTS:	1	REF:	25
26.	The in Objectiv a. debugger b. compiler ANS: D		a special tool th	c. d.	s you create custom statements. importer preprocessor 26
27.		stater		define c.	constants and associate them with unique names.
	ANS: C	PTS:	1	REF:	26
28.	Objective-C arithme a. compound b. complex	tic oper	ators can be div	c.	to basic and assignment operators. modulus enumerated
	ANS: A	PTS:	1	REF:	26
29.	The character % repr a. percent b. modulus ANS: B	resents t PTS:	-		
30.	Given that the integer expression: div = num1 is a. 0 b625			с.	num2 = 15, the value of the variable div in the 1 1.6
	ANS: C	PTS:	1	REF:	
31.	The modulus operato a. divisor			r divisio c.	on. remainder
	b. dividend				quotient
	ANS: C	PTS:	1	REF:	28

32. The Objective-C modulus operator only works on _____.

a. real numbersb. floats			doubles integers	
ANS: D	PTS: 1	REF:	29	

33. To produce the output, 7 % 2, in Objective-C, you could use the statement: $NSLog(@"7 _ 2")$.

	NSLog(@"7	2").		
	a. %		с.	" ⁰ / ₀ "
	b. '%'		d.	%%
	ANS: D	PTS: 1	REF:	29
34.	U I	rator means incre		•
	a. +=			+/
	b. ++		d.	=+
	ANS: B	PTS: 1	REF:	30
35.	If $x = 5$, the expression of	on $++x*2$ evaluates to)	
	a. 5			11
	b. 10		d.	12
	ANS: D	PTS: 1	REF:	30
36.	If $x = 5$, the expression	on x++*2 evaluates to).	
	a. 5			11
	b. 10			12
	ANS: C	PTS: 1	REF:	30
37	The operator $+=$ is ca	alled a operator		
57.	a. conjunctive		C	complex
	b. compound			pre increment
	-	DTC. 1		-
	ANS: B	PTS: 1	KEF:	32
38.			m1 afte	er evaluating the expression
	num1 += num2	2		
	will be		0	5
	a. 2 b. 3			5 7
	0. 5		u.	/
	ANS: C	PTS: 1	REF:	32
39.	A shorthand method	for writing the express	ion nu	m1 = num1 * num2 is
	a. num1 *= num2			num1 ++* num2
	b. num1 *++ nur	m2	d.	num1 == num2
	ANS: A	PTS: 1	REF:	33
40.	If $n_{11}m_1 = 6$ and $n_{11}m_2$	n2 = 4, after evaluating	the ex	pression
	num1 %= num		,	P
	the value of num1 is	·		
	a. 2		с.	
	b. 4		d.	10

Objective-C and iOS Programming A Simplified Approach To Developing Apps for the Apple iPhone and iPad 1st Edition Full Download: http://testbanklive.com/download/objective-c-and-ios-programming-a-simplified-approach-to-developing-apps-for

ANS: A PTS: 1 REF: 34