Name: CAELAN KIMBALL

Date: 12/21/2017

Score: 94 / 95 (98.95%)

# ID: 020022 Class: Computer Science 1, 1st Period, 2017

# 2017 CS1 Mid-Term Exam

### TRUE/FALSE

T

1. A char variable can be used like an small int.

**Points:** 

1/1

Ø T

2. The % is called the modulus operator.

**Points:** 

1/1

**О**Т

3. The modulus operator (%) results in the remainder of integer division.

**Points:** 

1/1

√ F

4. In the Java language, modulus can only be applied to integer types.

**Points:** 

1/1

Ø T

5. The relational or logical expression will result in a boolean value.

**Points:** 

1/1

### **MULTIPLE CHOICE**

<u>O</u> c

6. The \_\_\_\_\_ was the first computing tool, made approximately 5,000 years ago in China.

a. random access memory

c. abacus

b. brain

d. microprocessor

**Points:** 

1/1

A

7. 1 kilobyte =

a. about 1000 bytes

. 1 1...4.

c. read only memory

b. 1 byte

d. about 1,000,000 bytes

**Points:** 

1/1

8. ROM stands for \_\_\_\_\_.

a. 1000 bytes

c. read only memory

b. 1 byte

d. 1,000,000 bytes

**Points:** 

1/1

b. address

1/1

**Points:** 

<u>© c</u>	9.	A computer is built to carry out instructions.	s tha	at are written in a low-level language called
		a. simple language	c.	machine language
		b. complex language	d.	motherboard language
		<b>Points:</b> 1 / 1		
<u>D</u>	10.	A computer can execute programs written i first into machine langua		gh-level programming languages, if they are
		a. changed	c.	listed
		b. shown	d.	compiled
		<b>Points:</b> 1 / 1		
<u>A</u>	11.	When the CPU executes a program, that program (also called the		m is stored in the computer's
		a. main memory, RAM	c.	motherboard, hard drive
		b. hard drive, disk	d.	ROM, main memory
		<b>Points:</b> 1 / 1		
<u>В</u>	12.	The computer's main memory consists of a	seq	uence of memory
		a. values	c.	numbers
		b. locations	d.	programs
<u>В</u>	13.	Points: 1 / 1  Each memory location within the computer a(n)	is a	associated with a unique sequence number called
		a. instruction	c.	name

d. butterfly

		a. fetch-and-execute cycle	c. machine language process
		b. receive-and-show cycle	d. Jessica-Martin-timeline
		<b>Points:</b> 1 / 1	
<u>C</u>	15.	The CPU contains small memory unit language instruction, called internal	its capable of holding a single number or machine
		a. organs	c. registers
		b. speakers	d. documents
		<b>Points:</b> 1 / 1	
<u>B</u>	16.	Machine language instructions are ex	xpressed as
		a. words	c. codes
		b. binary numbers	d. 4s
		<b>Points:</b> 1 / 1	
<u>)</u> <u>a</u>	17.	A binary number is made up of just t	two possible digits,and
		a. 0, 1	c. 0, 16
		b. 2, 4	d. 8, 32

1/1

buttons

b. variables

**Points:** 

turned on or off in the pattern that encodes that particular instruction.

c. switches

d. wired

a. bus

b. car

**Points:** 

1/1

Name: CA	ID. 020022			
<u>B</u>	19.	The CPU spends almost all of its time them.		from memory and executing
		a. thinking	c.	surfing the web
		b. fetching instructions	d.	processing
		<b>Points:</b> 1 / 1		
<u>⊗ B</u>	20.	A computer system may include a device su	ıch	as a for user input.
		a. monitor	c.	hard drive
		b. keyboard	d.	text document
		<b>Points:</b> 1 / 1		
<u>A</u>	21.	A computer system includes devices such a the computer's output.	s a	which can be used to display
		a. monitor	c.	hard drive
		b. keyboard	d.	network interface
		<b>Points:</b> 1 / 1		
<u>D</u>	22.	A computer system may include a with other computers that are connected to		that allows the computer to communicate n a network.
		a. hard drive	c.	keyboard
		b. mouse	d.	network interface
		<b>Points:</b> 1 / 1		
<u>A</u>	23.	A is a set of wires that devices connected to those wires.	car	ry various sorts of information between the

c. cable

d. boat

Name: CAELAN KIMBALL ID: 020022				
<u>© c</u>	24.	Events happen "," th	nat is, a	t unpredictable times.
		a. predictably	c.	asynchronously
		b. automatically	d.	mechanically
		<b>Points:</b> 1 / 1		
<u> C</u>	25.	All modern computers use		to perform several tasks at once.
		a. multiprocessors	c.	multitasking
		b. memory	d.	tweeting
<u>A</u>	26.	Points: 1/1 The is the basic, be able to function.	essenti	al software without which a computer would not
		a. operating system	c.	word processor
		b. electrical system	d.	web browser
<u>В</u>	27.	Points: 1 / 1 consists directly by the CPU of a computer.	of very	simple instructions that can be executed
		a. Program language	c.	English
		b. Machine language	d.	Artificial intelligence
<u>A</u>	28.	Points: 1 / 1 Almost all programs are written in		programming languages.
		a. high-level	c.	easy
		b. complex	d.	low-level

### 1/1 **Points:**

(**⊘**) C

29. The designers of Java chose to use a combination of \_\_\_\_\_\_.

computation and interpretation c. compilation and interpretation

d. compilation and indiscretion documentation and reiteration

**Points:** 1/1

a. web browser

b. programmer

1/1

**Points:** 

a

rvanie. C.					110.02002	
<u>A</u>	30.	This so-called "virtual" computer is known as the			_, or	
		a. Java Virtual Machine, JVM	c.	Programming Language, PL		
		b. Virtual Reality System, VRS	d.	Cyberspace System, CS		
		<b>Points:</b> 1 / 1				
<u> C</u>	31.	The machine language for the Java Vi	irtual Ma	chine is called	·	
		a. nibblecode	c.	bytecode		
		b. code	d.	programs		
		<b>Points:</b> 1 / 1				
<u>В</u>	32.	32. A different Java bytecode interpreter is needed for each type of computer has a Java bytecode interpreter, it can run any Java bytecode				
		a. program, process	c.	student, problem		
		b. computer, program	d.	country, marathon		
		<b>Points:</b> 1 / 1				
<u>В</u>	33.	It is the combination of Java and Java, and	•			
		a. good, bad, ugly				
		b. platform-independent, secure, net	work-cor	npatible		
		c. platform-dependent, secure, netwo	ork-incor	npatible		
		d. redundant, insecure, obsolete				
		<b>Points:</b> 1 / 1				
<u>C</u>	34.	Compiled bytecode programs are exec	cuted by	the standard		

6

c. JVM

d. computer

**Points:** 

**Points:** 

39.

В

1/1

1/1

flow structures

b. control structures

Name: CAELAN KIMBALL				1D: 020022		
<u>A</u>	35.	There are also "" computer's disks and "" a. input commands, output commands b. camera, cable	c.	' for sending data in the other dir	ection.	
<u>A</u>	36.	Points: 1/1 There are two basic aspects of programm  a. data, instructions  b. variables, types	c.	and and control structures, subroutines code, more code	·	
<u>© c</u>	37.	Points: 1 / 1  To work with instructions, you need to u  a. data, instructions		and control structures, subroutines	and	
<u>D</u>	38.	<ul> <li>b. variables, types</li> <li>Points: 1/1</li> <li>In Java and in many other programming what sort of data it can hold.</li> <li>a. size</li> </ul>	d. langua	code, more code	_ that indicates	
		b. box	d.	type		

\_\_\_\_\_ are special instructions that can change the flow of control.

c. rules

d. traffic laws

**Points:** 

1/1

1 (0022200 02				
<u>В</u>	40.	A subroutine name can then be used as a _		for the whole set of instructions.
		a. summary	c.	acronym
		b. substitute	d.	abbreviation
		<b>Points:</b> 1 / 1		
<u> </u>	41.	Organizing your program into subroutines your program design effort.	help	s you your thinking and
		a. organize	c.	waste
		b. confuse	d.	destroy
		<b>Points:</b> 1 / 1		
<u>D</u>	42.	The discipline called working, well-written programs.		is concerned with the construction of correct,
		a. coding	c.	mechanical engineering
		b. hacking	d.	software engineering
		<b>Points:</b> 1 / 1		
<u>C</u>	43.	The details of what goes on inside a progra whole, as long as it fulfills its assigned role		•
		a. hide and seeking	c.	information hiding
		b. data processing	d.	fetching
		<b>Points:</b> 1 / 1		
<u>A</u>	44.	Today, most people interact with computer		ing a · GUI.
		a. Graphic User Interface	c.	Graphic User Interpreter
		b. Globally Useful Industry	d.	Gargantuan Undulating Intelligence

**Points:** 

a. boxes

b. packets

**Points:** 

1/1

1/1

and

Name: CA	ALL	AN KIMBALL		ID: 02002.
<u>© c</u>	45.	Another set of GUI components included s	since	e Java version 1.2, is known as
		a. dance	c.	swing
		b. stuff	d.	Super Windowing Toolkit
		<b>Points:</b> 1 / 1		
<u> A</u>	46.	When a user interacts with the GUI compo	nen	ts, an "" is generated.
		a. event	c.	attack
		b. applet	d.	elephant
		<b>Points:</b> 1 / 1		
Ø D	47.	Today, millions of computers throughout t called the	he w	vorld are connected to a single huge network
		a. Cable	c.	Network
		b. Table	d.	Internet
		<b>Points:</b> 1 / 1		
<u>A</u>	48.	The two most important basic Internet proprovide a foundation for communication.	toco	ls are referred to collectively as
		a. TCP/IP	c.	DoD
		b. TCBY	d.	TTBIP

49. All communication over the Internet is sent in the form of \_\_\_\_\_\_.

c. envelopes

d. cell phones



В

50. Behind the scenes, the web browser uses a protocol called HTTP (\_\_\_\_\_\_ \_\_) to send each page request and to receive the response from the web server.

- Human Telephone and Telegraph Protocol
- Hyper Text Transfer Protocol b.
- Hyper Space Transport Protocol
- The Web Protocol d.



**Points:** 1/1

51. \_\_\_\_\_\_ is a system for large scale data processing, written in Java, used by Yahoo and

- a. Don't Know, Bookface
- c. Hadoop, Facebook

b. Google, CNN

d. Hadoop, LVISD

**Points:** 1/1

- 52. Java is the primary development language for \_\_\_\_\_ phones such as the Verizon Droid.
  - Blueberries and Robot-based
- c. Strawberries and Cyborg-based
- Blackberries and Android-based
- d. Snozberries and Wonka-based



**Points:** 1/1

- 53. Mobile devices such as Smart-phones use a version of Java called Java ME ("\_\_\_\_\_\_ ").
  - Mobile Edition

Millennium Edition

Mega-Electronic

d. Modern Edition

**Points:** 1/1



54. The use of other languages with the JVM has become important enough that several new features were added to the JVM in Java Version \_\_\_\_\_ specifically to add better support for some of those languages.

a. 4

c. 9

b. 1.2

d. 7

**Points:** 1 / 1



55. The statement x = x + 14; could also be written as:

a. x \* 14 = x;

b. x += 14;

c. x \*= 14;

d. x \* x = 14;

**Points:** 1 / 1



56. What is the type of the literal 1922.555F?

a. char

b. int

c. float

d. double

**Points:** 1 / 1



57. The boolean (bool) type gets its name from a mathemetician named,

a. Rick Perry.

b. Stewart White.

c. George Boole.

d. Booley Boolenov.

**Points:** 1 / 1



58. The general form for initializing a variable is:

a. x = x + 1;

b. var < 5;

c. type var = value;

d. cout << "initializing a variable";

**Points:** 1 / 1



59. Which of the following are examples of reserved words?

a. public, void and static

c. System, public and void

b. System, out and println

d. print, println and args

<u> D</u>

60. Java allocates \_\_\_\_\_ bytes of memory for its largest real number data type.

a. two

d. eight

b. four

e. twelve

c. six

**Points:** 1 / 1

<u>A</u>

61. The statement num += 10 is the same as the statement

a. num = num + 10;

c. num + 10 = num;

b. num = 10

d. A and C

**Points:** 1 / 1

⊗ в

62. Which of the following are the binary operator shortcuts?

a. =+ =- =\* =/ =%

c. + - \* / %

b. += -= \*= /= %=

d. + - \* /

**Points:** 1 / 1

63. What is the output of the program segment below?

**int var1 = 100**;

**String var2 = "100"**;

System.out.println(var1 + var1);

System.out.println(var2 + var2);

a. 200

200

c. 200

100100

b. 100100

d. Error message

100100

**Points:** 1 / 1



64. Assume the variables **a**, **b**, and **q** are defined as **int**.

Which Java statement below represents the mathematical expression q = 6(a - b)?

a. q = 6 \* (a - b)

c. q = 6a - 6b;

b. q = 6 \* (a - b);

d. None of the above

**Points:** 

0/1



65. What is the output of the program segment below?

int num1 = 500; int num2 = 200; int num3 = 300; double average = (num1 + num2 + num3) / 3; System.out.println(average);

a. 800.0

c. 333.33333333333335

b. 333.0

d. Error message

**Points:** 



66. Which real number data type is the least prescise?

1/1

a. double

c. long

b. float

d. real

**Points:** 1 / 1



67. The action subroutines in a Java class are called

a. methods.

c. functions.

b. procedures.

d. subroutines.

**Points:** 1 / 1



68. Which of the following is a **Math** class feature that does not use any parameters or arguments?

a. PI

c. final

b. **E** 

d. Both A and B

**Points:** 1 / 1



69. What is the value of **result** in the following statement?

### int result = (int) Math.pow(5,2);

a. 2

d. 25

b. 5

e. 52

c. 10



70. What is the value of **result** in the following statement?

## **int result = Math.round(9.000001);**

a. 10

c. 9

b. 9.000001

d. Error message

**Points:** 

1/1



71. What is the value of **result** in the following statement?

## int result = (int) Math.sqrt(256);

a. 16

d. 1

b. 4

e. Error message

c. 2

**Points:** 1 / 1

<u> В</u>

- 72. What is the index of the "L" in the String "President Abraham Lincoln"?
  - a. 12

d. 0

b. 18

e. None of these

c. 17

**Points:** 

1/1



73. What is output by the following code?

String s = "Beaver Cleaver"; System.out.println(s.toUpperCase());

a. beaver cleaver

d. eEAVER cLEAVER

b. BEAVER CLEAVER

e. None of these

c. b

**Points:** 1 / 1



- 74. Is comparing **String** values different from comparing simple data type values?
  - a. No, it is the same. In both cases you can use the == operator.
  - b. No, it is the same. In both cases you can use the == operator or the **equals** method.
  - c. Yes, it is different. Simple types use the == operator and strings use the **equals** method.
  - d. Yes, it is different. Simple types use the **equals** method and strings use the **equals** operator.

<u> В</u>

75. What is the operator used to indicate Boolean **AND**?

- a. ||
- b. &&
- c. &
- d. &l
- e. ^

**Points:** 1 / 1

### **MATCHING**



ComputerHope.com

- a. monitor
- b. printer
- c. keyboard
- d. CD-ROM drive

- e. floppy drive
- f. mouse
- g. speaker
- h. CPU

<u>A</u>

76. Identify number 1 on the computer hardware diagram.

**Points:** 1 / 1

<u>⊘ c</u>

77. Identify number 4 on the computer hardware diagram.



78. Identify number 7 on the computer hardware diagram.

**Points:** 1 / 1



ComputerHope.com

- a. input
- b. output

- c. both input and output
- d. process



79. What does item 1 do for the computer and user.

**Points:** 1 / 1

<u>⊗ a</u>

80. What does item 5 do for the computer and user.

**Points:** 1 / 1

<u>⊗ c</u>

81. What does item 7 do for the computer and user.

Is this one of the eight basic (primitive) Java data types?

- a. yes, it is a basic data type
- b. no, it is not a basic data type

1/1

82. float

**Points:** 

A 83. double

**Points:** 1 / 1

**Points:** 1 / 1

⊗ B 85. void

**Points:** 1 / 1

**Points:** 1 / 1

What kind of operator is this?

- a. Boolean Operator
- b. Relational Operator
- c. Arithmetic Operator
- d. Assignment Operator
- e. Conditional Operator

Ø D 87. =

**Points:** 1 / 1

**Points:** 1 / 1

**Points:** 1 / 1

 $\bigcirc$ 

) в

91. ==

Points:

<u>В</u>

92. !=

**Points:** 1 / 1

1/1

Match the escape sequence code with the correct meaning.

a. \b

b. \f

c. \n

d. \r

<u> A</u>

93. Backspace

**Points:** 1 / 1

Match the escape sequence code with the correct meaning.

a. \xN

b. \'

c. \u

d. \\

⊗ в

94. Single quote character

**Points:** 1 / 1

95. Unicode character code