Weekly Test 2

ArithmeticException <

4/8/23, 10:18 AM

Points: 54/100 Time: 01:12:40 1 Please Enter Your Full Name: * Yibeltal Ayalneh Ejigu ✓ **Correct** 2/2 Points 2 What will happen if we compile and run the following program? * public class JavaApplication15 { public static void main(String[] int num1 = 20; int num2 = 0;System.out.println(num1/num2); Print 20

Compilation error
Print 0
✓ Correct 2/2 Points
3
Why are access modifiers used? *
To restrict access of a class
To restrict access of class members
To totally deny access to class and its methods
A & B ✓
✓ Correct 2/2 Points
4
is the way in which objects of one class get the variables and methods of objects of another class. This includes the data and the methods. *
Polymorphism.
Encapsulation
■ Inheritance ✓
Abstraction.

X Incorrect 0/2 Points
5
is a key feature of java technology responsible for freeing any memory that can be freed. *
Code Security
☐ Garbage Collection thread ✓
Java Virtual Machine (JVM)
Bytecode
✓ Correct 2/2 Points
6
The way in which a class represents only the essential features of the set of objects which means it does not include background or extra details that are not relevant to the system *
Inheritance
Constructor
■ Abstraction ✓
Polymorphism
Correct 2/2 Points

Given:- *
□ 12.56 ✓
<u> </u>
O 2
✓ Correct 2/2 Points
8
is type of Inheritance having one Parent, one or more intermediate and one child classes. *
Single Inheritance
Multilevel Inheritance ✓
Hierarchical Inheritance
All of the above
✓ Correct 2/2 Points
9
are methods with the same <i>name signature</i> but either a different number of parameters or different types in the parameter list. *
2 2 2 parameters of annexative , poe m and parameter non
Method Overloading ✓

A try block must have at least one catch block to have a finally block

X Incorrect 0/2 Points
12
keyword is used to explicitly raise exceptions? *
catch
○ throw ✓
throws
o raise
X Incorrect 0/2 Points
13
During handling exception what block is always executed, independently of any exception being raised? *
throw
catch
○ Finally ✓
throws
✓ Correct 2/2 Points
1/1

Suppose that the manager wants you to restrict the access level of an instance variable named pin to the customer only. Which access modifier you will use to

restrict pin variable to be accessed and assign only by the customer class. *
Protected
Private ✓
Public
Internal
✓ Correct 2/2 Points
15
A method that returns no value should be declared *
Boolean
○ Void ✓
Undefined
None
✓ Correct 2/2 Points
16
A method that is invoked when an object is created is known as a method *
Static
Instance
○ Constructor ✓

Setter
X Incorrect 0/2 Points
17
Which of the following file Stream used for reading data based on it's data type? *
DataOutputStream
○ DataInputStream ✓
FileInputStream
BufferedInputStream
X Incorrect 0/2 Points
18
What is the name of the abstract base class for streams dealing with <i>character</i> input? *
InputStream
OutputStream
Reader /

✓ **Correct** 2/2 Points

Writer

Which of the following is not the constructor of FileInputStream? *
FileInputStream(String filename)
FileInputStream(File file, Boolean append)
FileInputStream(File file)
All of the above
X Incorrect 0/2 Points
20
Which of the following is true about the given code?
*
If the file.txt already exists the code will append hello world to the file.
If the file.txt already exists the code will override the file and write hello world.
The code uses character-based stream for creating file named file.txt.
○ All
X Incorrect 0/2 Points
21
Which one of the following is not true about header file in C++? *
A program includes different programming elements such as built-in functions, classes, keywords and more which are already defined in the standard C++ library.

Programmers must declare (or define) the predefined programming elements explicitly after it declare or defines header file.
The standard headers files comprise information such as prototype, definition and return type of library functions, the data type of constants and more.
Programmers can use their own custom header files whenever they want.
✓ Correct 2/2 Points
Which one of the following is valid about namespace in C++? *
A namespace permits grouping of various entities like classes, objects, functions, and various C++ tokens, etc. under a single name.
Any user can create separate namespaces of its own and can use them in any other program.
namespaces can make use of similar names of the entities. This will avoid the compile-time error that may be present because of the identical-name conflicts.
namespaces must use of different names of the entities. This will avoid the compile-time error that may be present because of the identical-name conflicts.
✓ Correct 2/2 Points
23
Look these code segments carefully and identify the invalid statements int main(){ } *
The main () is a startup function that starts the execution of a C++ program.
The compiler executes all the instructions written within the opening and closing curly braces' {}' that enclose the body of the main ().

4/8/23, 10:18 AM Weekly Test 2

int main () in C++ returns an int value to the operating system. Thus, main () must end with the return 0 statement.
void main () in C++ returns an int value to the operating system. Thus, main () must end with the return 0 statement.
X Incorrect 0/2 Points
24
Which one of the following is true about C++ programming? *
C++ is an object-oriented programming language
C++ is a procedural programming language
C++ supports both procedural and object-oriented programming language ✓
C++ is a functional programming language
✓ Correct 2/2 Points
25
Which one is true about the entry-controlled condition in looping statements *
In entry controlled the condition appears at the end of the statement
$lue{lue}$ In entry controlled the condition appears at the beginning of the statement $\ \checkmark$
Do while loop is an example of an entry-controlled statement.
For loop is an example of exit controlled statements.

X Incorrect 0/2 Points
26
Which one is odd statements about valid identifiers in C++? *
An identifier is needed to name a variable (or any other entity in function or a class).
An identifier must begin with a number or letter or underscore.
An identifier can be a reserved keyword or a reserved literal (e.g.,int, if, else, for).
Identifiers are case-insensitive eg. a swe is Swe, and also is a SWE.
✓ Correct 2/2 Points
27
The data expression used in a switch statement must have an *
int
float
Char
A and B
A and C ✓

X Incorrect 0/2 Points

Which one of the following not valid about the "Rule of Thumb "under usage of datatype? *
Use int for integer and double for floating point numbers.
Use byte, short, long and float only if you have a good reason to choose that specific precision.
Use signed int for counting and indexing. This is because signed integer type is precise and more efficient in operations.
Use a floating-point type only if the number contains a fractional part.
✓ Correct 2/2 Points
29
Look the following code segments and identify correct statements about it *
Variable b in the first set of curly brackets is not the same as the b in the second set, and both of these "hide" the b outside.
These variables "live" in their own bit of code and do not interfere with each other. They are local or have bounded scope.
Restricting the scope of variables as far as possible in this way is very good practice and will help reduce the likelihood of bugs. It is recommended and all good programmers will do this as far as possible.
The program cannot be executed due to error redeclaring the variable is not allowed.
✓ Correct 2/2 Points

A looping statement that is	used when	the program	requires that the	loop be
executed at least once ever	conditions	evaluated as	false. *	

	for
	while
	do while 🗸
	if
~	✓ Correct 2/2 Points
	31
V	which one of the following is not correct about function overloading? *
	If two or more different functions can have the same name and the prototype of their arguments are different.
	You cannot give the same name to more than one function, since it becomes an error redeclaring function again and again.
	Function overloading applied if they have the same data type but a different number of arguments.
	Function overloading applied if they have the same number argument but different data types.

✓ Correct 2/2 Points

32

Variables inside the parenthesis of function declarations have _____ level access.

■ Local ✓
Global
Module
Universal
✓ Correct 2/2 Points
33
What does the following statement mean? int (*fp) (char*); *
opointer to a pointer
pointer to an array of chars
pointer to function taking a char* argument and returns an int
function taking a char* argument and returning a pointer to int
X Incorrect 0/2 Points
34
What are the mandatory parts of a function declaration? *
return type, function name

return type, function name, parameters

both a and b
one of the mentioned
X Incorrect 0/2 Points
35
What is the purpose of the "new" keyword in C++? *
To create a new object
○ To allocate memory dynamically ✓
To call a constructor
To delete an object
✓ Correct 2/2 Points
36
A process of exciting in C++ programs typically contain references to functions and data defined elsewhere, such as in the standard libraries. The object code produced by the C++ compiler typically contains "holes" due to these missing parts. *
Editing
Preprocess
Linking ✓
Loading

X Incorrect 0/2 Points
37
A step-by-step procedure written by human languages to defines a set of instructions that must be carried out in a specific order to produce the desired result. *
○ Algorithm ✓
Pseudocode
Flowchart
Block diagram
X Incorrect 0/2 Points
38
Which one of the following is incorrect about algorithms? *
Algorithms are generally developed independently of underlying languages, which means that an algorithm can be implemented in more than one programming language.
An algorithm is a set of commands that must be followed for a computer to perform calculations or other problem-solving operations.
An algorithm is a finite set of instructions carried out in a specific order to perform a particular task.
Algorithm is the entire program or code: it is detail explanations solutions to a problem

✓ **Correct** 2/2 Points

represented as an informal description in the form of a flowchart or pseudocode

The algorithm s	hould have a li	mited numbe	r of instruction	ons, i.e.,	the instruction	าร
should be count	table *					

- Effectiveness Finiteness < Unambiguity
 - ✓ **Correct** 2/2 Points

Language independent

40

Finding all possible solutions to a problem and then selecting the best one, will terminate if the best solution is known. *

- Optimizing <
- Sacrificing
- Robustness
- Maintainability
 - X Incorrect 0/2 Points

41

What are the outputs of following code segments?

ABCE

ABCDE
○ ABC ✓
ABE
X Incorrect 0/2 Points
42
What is the output of the following source code
*
<u>20</u>
compile time error
one of the mentioned
X Incorrect 0/2 Points
43
What is the output of the following source code? What is the value returned by the function call fun (2) *
<u>4</u>
8

Runtime Error

✓ Correct 2/2 Points
44
What is the difference between delete and delete[] in C++? *
delete is used to delete normal objects whereas delete[] is used to pointer objects
delete is a keyword whereas delete [] is an identifier
delete is used to delete single object whereas delete[] is used to multiple (array/pointer of) objects
delete is syntactically correct but delete[] is wrong and hence will give an error if used in any case.
X Incorrect 0/2 Points
45
Which of the following best describes the useful criterion for comparing the efficiency of algorithms? *
Time
Memory
Both of the above ✓
None of the above

× Incorrect	0/2 Points
46	
Which of the f	following gives the memory address of the first element in array? *
array[0];	
array[1];	
array(2);	
array; 🗸	
× Incorrect	0/2 Points
47	
Look the follo	wing code segments and identify correct statements about the ax?
*	
startcommand	instruction is carried out once. ✓
startcommand	instruction is carried out every time loop condition evaluated as true.
any variables d	eclared in the startcommand is global to the program.
The block state	ments can be executed at least once even condition becomes false.
✓ Correct 2/	⁷ 2 Points

Suppose you	are given	the following	function	declaration	and	choose	the	best
answer:								

int divide (int a, int b = 7){}

- Variable b is of integer type and will always have the value 7
- Variables a and b are integer type and the initial value of both variables is 7
- Variable b is the global scope and will have a value 7
- Variable b will have a value of 7 if not specified when calling the function.

X Incorrect 0/2 Points

49

Look the following code segments and identify incorrect statements about the following syntax?

- We have a structure type called product with two members: weight and price, each of a different fundamental datatype though the members datatype must not exceed two.
- We used name of the structure type (product) to declare three variables of that type: apple, banana and lemon as we would have done with any fundamental data type.
- We can instantiate many variables, like mango, apple, banana and lemon from a single structure type (product).
- Once we declared our three variables of a determined structure type, we can operate directly with their members via a dot (.) eg. apple.weight,apple.price;

X Incorrect 0/2 Points

What is the output of the following code snippet?

- 01 ~

X Incorrect 0/2 Points

51

The following statements are true about array initialization except? *

- A) It is possible to initialize the elements of the array during defining arrays int nums $[3] = \{5, 10, 15\};$
- B) When initializing arrays, it is mandatory to write the array size in the square brackets. int nums $[3] = \{5, 10, 15\};$
- C) When the number of values in the initializer is less than the number of elements, the remaining elements are initialized to zero int nums[5] ={5, 10, 15};
- D) When a complete initializer is used, the array dimension becomes redundant, because the number of elements is implicit in the initializer. int nums $[5] = \{5, 10, 15\};$

This content is created by the owner of the form. The data you submit will be sent to the form owner. Microsoft is not responsible for the privacy or security practices of its customers, including those of this form owner. Never give out your password.

4/8/23, 10:18 AM Weekly Test 2

Powered by Microsoft Forms |

The owner of this form has not provided a privacy statement as to how they will use your response data. Do not provide personal or sensitive information.

| Terms of use