

EXAM 2

HOMEWORK 5

Q1: Counter-controlled repetition requires

All of the above.

Q2: The control variable of a counter-controlled loop should be declared as _____ to prevent errors.

int

Q3: Which formatting flag indicates that the floating-point values should be output with a thousands separator?

Comma (,).

Q4: To exit out of a loop completely, and resume the flow of control at the next statement after the loop, use a _____.

break statement.

Q5: Boolean values can be displayed as the words true and false with the _____ format specifier.

%b

Q6: Which of the following is not a type of repetition statement in Java?

loop statement

Q7: Which of the following statements about a do...while repetition statement is true?

The body of a do...while loop is always executed at least once.

Q8: Which of the following will not help prevent infinite loops?

Include braces around the statements in a do...while statement.

Q9: Which of the following statements about the switch statement is false?

You can use a comma-separated list of Strings in a switch statement's case label.

Q10: Which of the following statements about the continue statement is true?

A continue statement proceeds with the next iteration of the immediately enclosing while, for, do...while statement.

HOMEWORK 6

Q1: Information is passed to a method in _____.

the arguments to the method

Q2: A well-designed method _____.

Performs a single, well-defined task

Q3: To declare a method as static, place the keyword static before _____ in the method's declaration.

the return type

Q4: Which is a correct static method call of Math class method sqrt?

Math.sqrt(900);

Q5: Which of the following methods is not in the Math class?

parseInt

Q6: Which of the following can be an argument to a method?

All of the above.

Q7: Any field declared with keyword _____ is constant.

Final

Q8: Declaring main as static allows the JVM to invoke main _____.

without creating an instance of the class in which main is declared.

Q9: Variables should be declared as fields only if _____.

they are required for use in more than one method or their values must be saved between calls to the class's methods

Q10: A static method can _____.

All of the above.

HOMEWORK 7

Q1: Arrays are _____.

fixed-length entities

Q2: A programmer must do the following before using an array:

declare then create the array.

Q3: Which of the following statements about creating arrays and initializing their elements is false?

The elements of an array of integers have a value of null before they are initialized.

Q4: Which of the following initializer lists would correctly set the elements of array n?

int[] n = {1, 2, 3, 4, 5};

Q5: Constant variables also are called _____.

named constants

Q6: Which of the following will not produce a compiler error?

Changing the value at a given index of an array after it is created.

Q7: Which flag in a format specifier indicates that values with fewer digits than the field width should begin with a leading 0?

0.

Q8:

Invalid possibilities for array indices include _____.

Negative integers.

Q9: Which expression adds 1 to the element of array arrayName at index i?

++arrayName[i].

Q10: A(n) _____ indicates a problem that occurs while a program executes.

Exception

HOMEWORK 8

Q1:

The _____ of a class are also called the public services or the public interface that the class provides to its clients.

Public methods.

Q2: The static method _____ of class String returns a formatted String.

Format

Q3: Which of the following class members should usually be private?

Variables

Q4: When must a program explicitly use the this reference?

Accessing an instance variable that is shadowed by a local variable.

Q5: Having a this reference allows:

All of the above.

Q6: A constructor cannot:

Specify return types or return values.

Q7 Constructors:

Both (a) and (c).

Q8: A programmer-defined constructor that has no arguments is called a(n) _____.

No-argument constructor

Q9: When implementing a method, use the class's set and get methods to access the class's _____ data.

Private

Q10: Composition is sometimes referred to as a(n) _____.

has-a relationship