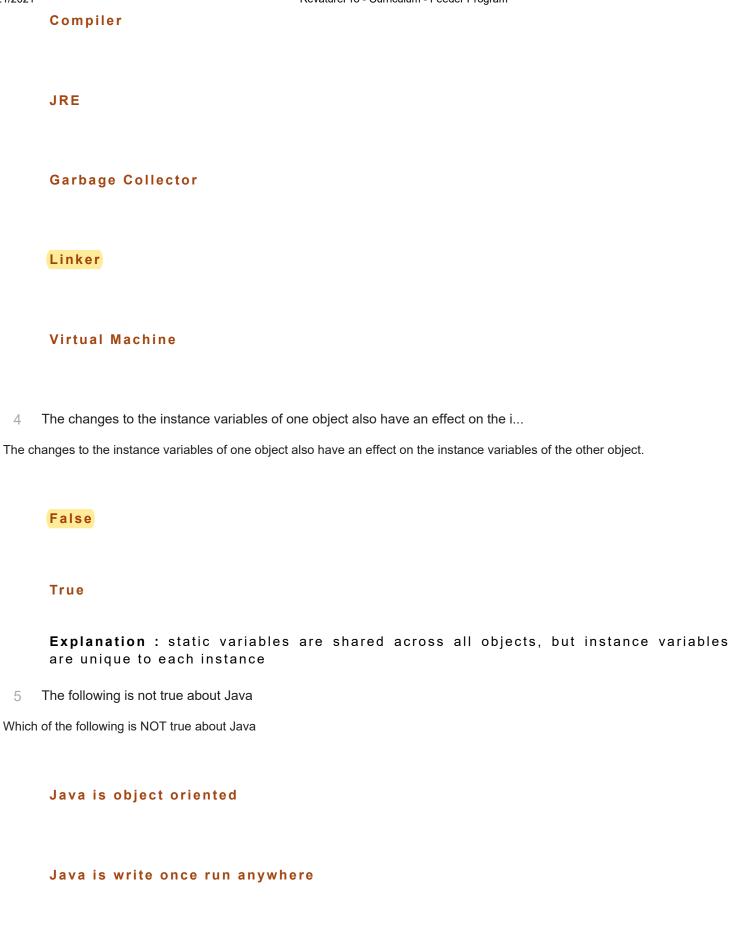
What is the bare minimum required to run a Java application? What is the bare minimum required to run a Java application? JRE **Eclipse JDK** Explanation: we can run Java apps with a JRE, JDK is not required Weblogic Varargs What is the rule for using "varargs"? It must be the only parameter in the method It must be the last parameter in the method It must be the first parameter in the method

Which of these is not included in a JDK

It cannot be the only parameter in the method

Which of these is not included in a JDK



Memory in Java is not allocated automatically

Java programs cannot control thread scheduling.

Java has an API to inspect and manipulate its own code at runtime.

6 How do you get the size of an array?

How do you get the size of an array named myArray?

```
myArray.size
```

```
myArray.length
```

myArray.size()

myArray.length()

7 Java command line syntax

How do you compile Java code contained in the file helloworld.java and then run it on the command line?

```
javac HelloWorld.java, then javac HelloWorld
java HelloWorld.java, then javac HelloWorld
java HelloWorld, then javac HelloWorld.java
```

HelloWorld javac, then HelloWorld java

8 Compiler purpose

What is the purpose of the Java compiler?

To transform Java code into instructions usable by the JVM

To transform Java code into instructions usable by the operating system

To transform Java code into instructions usable by a web browser

9 Compiler output

The output of the Java compiler is Assembly code

False

True

Explanation: The compiler outputs Bytecode, instructions the JVM uses to produce Assembly

10 Primitives vs Reference Vars

What is the difference between a primitive and a reference variable?

A primitive variable stores a value, a reference variable stores the memory address of an object

A primitive variable stores a value, a reference variable stores an object

A primitive variable stores the memory address of a value, a reference variable stores the memory address of an object

There is no difference

11 Decimal default data type

What is the default type of variable used for decimals?

double

float

int

real

12 2D Array

What is the value of num in the following code?

```
int[][] twoDimensionalArray = { {0, 1, 2}, {2, 4, 6}, {2, 1, 0} };
int num = twoDimensionalArray[1][2];
```

6

2

4

1

13 Loops

The difference between a while and do-while loop is that a while loop is guaranteed to execute at least once

False

True

Explanation: a while loop evaluates the loop condition before iterating, so if the condition is immediately false the loop will never iterate

14 Increment - post and pre

The following code:

```
int x = 1;
System.out.print(x++);
System.out.print(++x);
```

will print 2 3

False

True

Explanation: ++x increments and then references the variable, x++ references and then increments, so it will print 1 3

15 Java features

Which of the following is NOT a feature of the Java language?

Strongly typed

Garbage collection

Low-level language
Object-oriented
Platform-independent (write once, run anywhere)
16 Java is 100% OOP
Java is 100% OOP
False
True
17 Can you assign a variable of a larger capacity to a smaller variable without casting? You can assign a variable of a larger capacity to a smaller variable without casting.
False
True
18 Main method arguments
The main() method can be written to accept more arguments than a single String[]
False
True

Explanation: if the main() method is not written exactly to spec, the JVM will not recognize it.

19 What is a benefit of using Java?

choose the best answer.

All the options are benefits of using Java.

Java's Virtual Machine allows for high portability which is highly useful for many web-based applications.

Java does not let you control memory allocation.

Java is a C based programming language.

20 Which of the following are features of Java?

Every class inherits directly or indirectly from Object.

Every class belongs to a package.

A package must have multiple classes.

Every class must have a main method so it can be tested from the command line.

You are writing a class named AccountManager. This class is the starting point of your application and is to be executed from the command line. What should be the name of the file containing this class's source code?

accountmanager.java

Explanation: Incorrect.

AccountManager.java

Explanation: Correct!

Main.java

Explanation: Incorrect.

The name of the file doesn't matter because after compilation, the class file will be named AccountManager.class anyway.

Explanation: Incorrect. Name of the source file is important. If the source code of the public class is not defined in file by same name, the source file will not compile. Therefore, the name of the file must be AccountManager.java.

22 What will the following code print?

Compilation error.

Explanation: Incorrect.

1

Explanation: Incorrect. At the beginning, flag is true. In the first if condition, we have flag = false. Notice that it is not flag == false. There is a single =, which assigns false to flag. Thus, flag becomes false and the condition becomes false, therefore, 1 is not printed.

2

Explanation: Incorrect. In the first else if, again, since flag is false, 2 is not printed.

3

Explanation: Correct! In second else if, !flag resolves to !false, which means true, therefore, 3 is printed.

23 What will be the result of compiling and running the following program?

The program will compile and run without error and will print '0' ten times.

Explanation: Correct! The default value for an Integer Array is 0.

The program will compile and run without error, and will print nothing.

Explanation: Incorrect.

The program will compile and run without error and will print null ten times.

Explanation: Incorrect. The default value for an Integer Array is 0. Null is the default value for a String.

The code will fail to compile, because the int[] array declaration is incorrect.

Explanation: Incorrect. The declaration is valid.

Given the code snippet, which TWO code fragments can independently be inserted at Line 1 to enable the

24 program to print "Stand"?

```
// Line 1
switch (card) {
  case 4: case 5: case 6:
  case 7: case 8:
    System.out.println("Hit");
    break;
  case 9: case 10: case 11:
    System.out.println("Double");
    break;
  case 15: case 16:
    System.out.println("Surrender");
    break;
  default:
    System.out.println("Stand");
}
```

```
int card = 6;
int card = 10;
int card = 14;
int card = 18;
```

25 Since Java gets compiled to bytecode, it doesn't need to be compiled or interpreted into machine language

False

True

26 What should be the output of this code?

```
class Test {
```

```
public
    static void main(String[] args)
    {
        boolean b = true;
        if (b = false) {
            System.out.println("HELLO");
        } else {
            System.out.println("BYE");
        }
    }
}
```

HELLO

BYE

Compile time error: re-initialization

No output