

1. What is the keyword you use in Java to indicate that a class is a subclass of another class?

Subclasses are denoted by the "extends" keyword.

2. How do you specify in Jasmin that a class is a subclass of another class? Name the assembler directive that you use.

Using .super will signify the hierarchical order of classes

3. Do all classes in Java have parents?

Yes, all have a superclass parent. Objects do not.

4. How many parents can a class have?

It can implement any number of interfaces. Has one parent.

5. The inheritance hierarchy is what kind of structure that you studied in discrete mathematics?

Rooted trees.

6. How do you create an object in Jasmin?

Using the instruction "new" followed immediately by the name of the object.

7. How do you initialize an object in Jasmin?

Using the invokespecial instruction

8. What name is given to the initializers in Jasmin?

<init>()V

9. What does the code of an initializer do?

Initializes the data in the object.

10. Are the instance variables of the parent class of an object named A part of the state of the object named A?

Yes, they inherit methods/variables from the parent class.

11. How do you initialize the instance variables defined in the parent class of the object?

If you want to call a parent method, use super. to reference that method instead of the class method.