Tinker Academy

AP Computer Science Prep (Java Programming)
Lecture 7 - Java Fundamentals 2
(References)

Winter 2015

References

Reference Variables

value stored is the location of an object*



^{*} or array

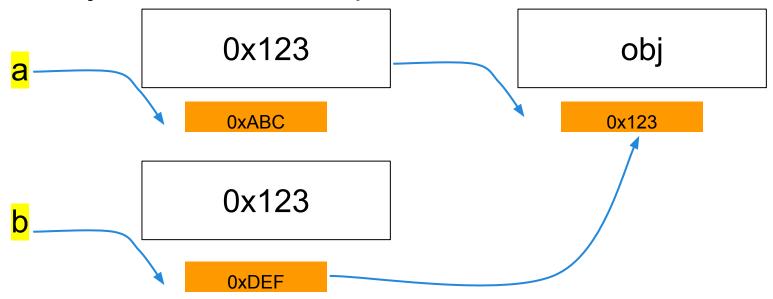
References

- are variables of reference datatype
- value is a reference to a valid object/array OR
- value is the special value null

^{*} to understand this you would need to understand class hierarchies and interfaces

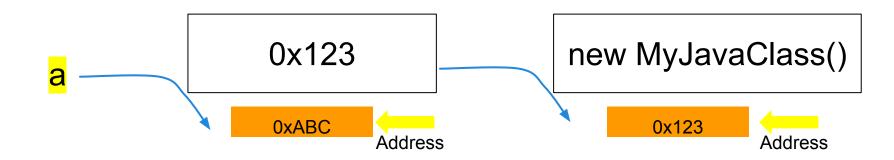
Reference Variables

an object can have multiple references to it



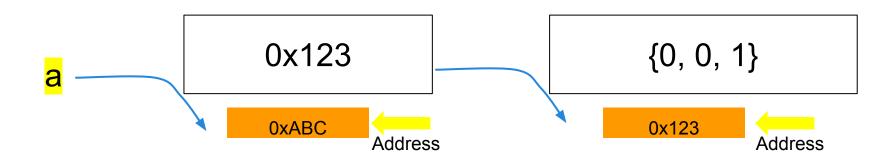
References

MyJavaClass a = new MyJavaClass();



References

int[] $a = \{0, 0, 1\};$

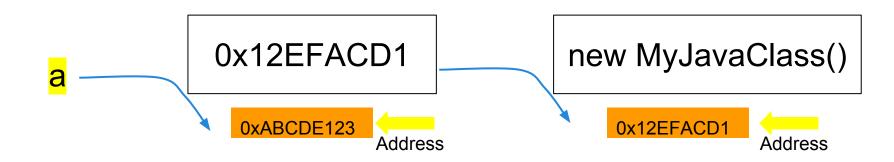


References

- references to objects are created using the new operator
- references to arrays are created using the array creation expression

References

Object a = new MyJavaClass();



* a is a named location in memory value at location is the address of the object in memory

References

value datatype pointed to is not be the same as the reference datatype*

Object a = new MyJavaClass();



Datatype is the Object class



Datatype is the MyJavaClass class

This code is valid. Why?

^{*} to understand this you would need to understand class hierarchies and interfaces

Class Activity