

Appendix A -- Java Quick Reference

class java.lang.Object // all classes inherit and may override these methods

- boolean equals(Object other)
- String toString()

interface java.lang.Comparable

- int compareTo(Object other) // return value < 0 if this is less than other
// return value = 0 if this is equal to other
// return value > 0 if this is greater than other

class java.lang.Integer implements java.lang.Comparable

- Integer(int value) // constructor
- int intValue()

class java.lang.Double implements java.lang.Comparable

- Double(double value) // constructor
- double doubleValue()

class java.lang.String implements java.lang.Comparable

- int length()
- String substring(int from, int to) // returns the substring beginning at from
// and ending at to-1
- String substring(int from) // returns substring(from, length())
- int indexOf(String s) // returns the index of the first occurrence of s;
// returns -1 if not found

class java.lang.Math

- static int abs(int x)
- static double abs(double x)
- static double pow(double base, double exponent)
- static double sqrt(double x)

class java.util.Random

- int nextInt(int n) // returns an integer in the range from 0 to n-1 inclusive
- double nextDouble() // returns a double in the range [0.0, 1.0)

class java.util.ArrayList

- int size()
- boolean add(Object x) // appends x to end of list; returns true
- Object get(int index)
- Object set(int index, Object x) // replaces the element at index with x
// returns the element formerly at the specified position
- void add(int index, Object x) // inserts x at position index, sliding elements
// at position index and higher to the right
// (adds 1 to their indices) and adjusts size
- Object remove(int index) // removes element from position index, sliding elements
// at position index + 1 and higher to the left
// (subtracts 1 from their indices) and adjusts size
// returns the element formerly at the specified position