

# Appendix A — Java Quick Reference

## Accessible Methods from the Java Library That May Be Included on the Exam

### **class java.lang.Object**

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

### **class java.lang.Integer**

- Integer(int value)
- int intValue()
- Integer.MIN\_VALUE // minimum value represented by an int or Integer
- Integer.MAX\_VALUE // maximum value represented by an int or Integer

### **class java.lang.Double**

- Double(double value)
- double doubleValue()

### **class java.lang.String**

- 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 str) // returns the index of the first occurrence of str;  
// returns -1 if not found
- int compareTo(String other) // returns a value < 0 if this is less than other  
// returns a value = 0 if this is equal to other  
// returns a value > 0 if this is greater than other

### **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)
- static double random() // returns a double in the range [0.0, 1.0)

### **interface java.util.List<E>**

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

### **class java.util.ArrayList<E> implements java.util.List<E>**