

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 (0 ≤ index ≤ size),
// 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>
```