

APPENDIX B

Exam Appendix – 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 ($0 \leq \text{index} \leq \text{size}$),
// 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>