**class java.lang.Object**

* 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()
* boolean equals(Object other)
* String toString()
* int compareTo(Object other) // specified by java.lang.Comparable

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

* Double(double value) // constructor
* double doubleValue()
* boolean equals(Object other)
* String toString()
* int compareTo(Object other) // specified by java.lang.Comparable

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

* int compareTo(Object other) // specified by java.lang.Comparable
* boolean equals(Object other)
* 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
* double nextDouble()

**class java.util.ArrayList**

* int size()
* boolean add(Object x)
* Object get(int index)
* Object set(int index, Object x) // replaces the element at index with x
* 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