You now know that you can create an instance of class java.util.ArrayList and save it using an assignment like

ArrayList b= new ArrayList();

The elements of this list have the apparent class Object. When an element is added to the list, it is automatically promoted to Object.

Beginning in Java 1.5, you can constrain the objects of a list by placing a class name, in angular brackets (the less-than and greater-than symbols) after the class name ArrayList.

b= new ArrayList<Integer>();

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Now, only objects of class Integer can be added to b. An attempt to add an object of a class that is not Integer or a subclass of Integer will be flagged as illegal, and the program won't compile.

You can put any class in place of Integer.

The ability to constrain ArrayLists in this fashion simplifies some coding and provides more type safety. By using a constrained ArrayList, you can reduce the chance of making an error by adding something to an ArrayList that does not belong there. Constrain you ArrayLists where possible.