





Each primitive type has a corresponding wrapper class. When you want to treat a primitive value of that type as an object, then just wrap the primitive value in an object of the wrapper class! Primitive type Wrapper class Each wrapper class has: int Integer • Instance methods, e.g. equals, long Long float Float constructors, toString, Double double · Useful static constants and Character char Boolean methods. Integer k = new Integer(63); int j= k.intValue(); You don't have to memorize the methods of the wrapper classes. But be aware of them and look them up when necessary. Use Gries/ Gries, Section 5.1, and ProgramLive, 5-1 and 5-2, as references.

Class Vector

An instance of class Vector maintains an expandable/ shrinkable list of objects. Use it whenever you need to maintain a list of things.

Values of primitive types cannot be placed directly into the list of a Vector. That's why we have the wrapper classes. In the interactions pane, we will do a few things, like these:

import java.util.*;
Vector v= new Vector();
v

v v.add(new Integer(2)); v.add(3); v.add('c');

In newer versions of Java, v.add(1) is allowed; the 1 is wrapped in an Integer object and the name of that object is added to v. Doesn't work in older versions.

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Example of a program that deals with Strings Creating a web page giving liberal studies courses http://www.cs.cornell.edu/gries/ccgb/index.html

Java program reads the online Courses of Study webpages and extracts the courses that are liberal studies courses in A&S and CALS.

It builds tables of A&S, CALS, CA, HA, KCM, LA, and SBA courses and produces the liberal studies course website



Example of a program that deals with Strings Creating a web page giving liberal studies courses http://www.cs.cornell.edu/gries/ccgb/index.html Java program: read online Courses of Study webpages and extract liberal studies Build tables of A&S, CALS, Liberal Studies Courses CA, HA, KCM, LA, and SBA courses. Produce liberal-studies website CA: cultural analysis String manipulation is key concern HA: historical analysis of this lecture. But OO structure of the program will also be discussed