Using and Improving GladLibs

Summary



Creative Story Telling

- Created GladLib.java for creative stories
 - Motivated ArrayList as growable alternative to arrays
 - Motivated HashMap as more efficient structure than two ArrayLists
 - Examined class design concepts for developing extensible programs



ArrayList

- Indexable collection of elements
 - Stores objects, not primitives, so Integer not int
 - Two step process to update Integer values
- Accessible via import java.util.ArrayList
- Methods: add(), size(), get(), set(), indexOf()
- Examine elements with iterable or looping over valid indexes



HashMap

- Collection of (key,value) pairs, with keys mapping to values
 - Both are objects, so Integer rather than int
 - Key best as immutable type, like String or Integer
 - Value can be anything, ArrayList, String, Integer
- Accessible via import java.util.HashMap
- Methods: put(), size(), get(), keySet(),
 containsKey()
- Examine elements with iterable over keyset,
 cannot access via index

