

Telling a Random Story

Summary

ArrayList

- Indexable collection, like array, but growable!
 - Access via integer index, start with zero
 - `import java.util.ArrayList` or `java.util.*`;



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 - `import java.util.ArrayList` or `java.util.*`;
 - Create with generic: **`ArrayList<Integer>`**
- Common methods for ArrayList
 - `.add(elt)` — added to end of ArrayList
 - `.size()` — returns number of elements in ArrayList
 - `.get(index)` — returns elements at index
 - `.set(index,elt)` — assign elt to index location

ArrayList with Indexing Loops

- Access elements via indexing
 - Start with zero, loop to less than `.size()`
 - Access via `.get(index)`
 - Do not call `.remove()` during iteration

```
ArrayList<String> a = new ArrayList<String>();  
// add elements  
  
for(int k=0; k < a.size(); k++) {  
    String s = a.get(k);  
    // process s  
}
```

ArrayList via Indexing Loops

- Access elements via iterable loop
 - process elements, in order
 - don't need index of element
 - do not call **.remove()** during iteration

```
ArrayList<String> a = new ArrayList<String>();  
// add elements  
  
for (String s : a) {  
    // process s  
}
```