

ARRAYLIST

PART OF THE COLLECTIONS
FRAMEWORK

ONLY HOLDS OBJECTS

PRIMITIVES USE WRAPPER CLASSES

RESIZEABLE!

NEEDS A $\langle \text{TYPE} \rangle$

ARRAYLIST CONSTRUCTOR

CREATES THE LIST WITH

NOTHING

IN IT!

THERE IS NO WAY TO
INIT A # OF SPOTS!

ARRAYLIST METHODS

`.add(item)`

PUTS THE SUPPLIED ITEM AT THE END OF THE LIST

`.add(index, item)`

PUTS THE ITEM AT THE INDEX IN THE LIST. THE INDEX MUST BE LESS THAN OR EQUAL TO THE SIZE OF THE LIST

ARRAYLIST METHODS CONT'

.GET(INDEX)

RETRIEVES THE ITEM STORED
AT THE INDEX. DOES NOT CHANGE
THE LIST!


INDEX MUST BE BETWEEN ZERO AND ONE LESS
THAN THE SIZE OF THE LIST

POSSIBLY THE MOST USED METHOD

MORE METHODS

.set(index, item)

REPLACES THE ITEM AT THE SPECIFIED INDEX. RETURNS WHAT WAS STORED AT THAT INDEX ORIGINALLY

CANNOT BE USED TO ADD 

MORE IN ARRAYLIST

.remove(index)

REMOVES THE OBJECT AT THE SPECIFIED INDEX. THIS MAKES THE LIST SMALLER (◡◡) THE OBJECT THAT WAS IN THE LIST AT THAT INDEX IS RETURNED

.size()

RETURNS THE NUMBER OF ITEMS IN THE LIST. COUNTED PEOPLE STYLE

ARRAYLIST EXTRA

.CONTAINS(OBJECT)

ITERATES THROUGH THE LIST &
RETURNS WHETHER OR NOT THE
SPECIFIED OBJECT IS INSIDE THE
LIST

.CLEAR()

WIRES OUT EVERYTHING IN THE
LIST

ARRAY LIST TIPS

INDEX STARTS AT \emptyset

GOES TO $\text{.SIZE()}-1$

.SIZE() GIVES HUMAN NUMBER

REMEMBER THE $< >$

INDICES LESS THAN \emptyset

ALWAYS THROW EXCEPTIONS

MANIPULATION TIP

WHEN SEARCHING + REMOVING
FROM A LIST GOING FROM
BACK TO FRONT IS BEST