



`lst1 = ArrayList()`

`-init-`  
`self`

`append()`

`-append-`  
`self`  
`val = 1`

`append(2)`

`-append-`  
`self`  
`val = 2`  
`resize`  
`self`  
`new-size = 2`

`new-array`  
`i = 0`  
~~`i = 0`~~

`append(3)`

`-append-`  
`self`  
`val = 3`

`resize`  
`self`  
`new-size = 4`

`new-array`  
`i = 0, i = 1`

ArrayList instance

capacity	1
data-arr	[ ]
n	0

`append(1)`

`append(2)`

`append(3)`

`[ ]` → `[1, null]` → `[1, 2]` → `[1, 2, null]` → `[1, 2, 3]`

1 → 2 → 3

ArrayList	
data-arr	[1, null]

ArrayList	
data-arr	[1, 2, null]