

Java developers were very Confused that The Fixed array is a big problem for them.

Then They Solved that using Array list structure and it's built on Array of objects and it's like a stack in it's behaviour. we can called it

Dynamic Array

The Arraylist has some properties from the side of Complexity &

Size: Dynamic Memory: Must h

Memory: Must be consecutive

Access: O(1) to more to tropped

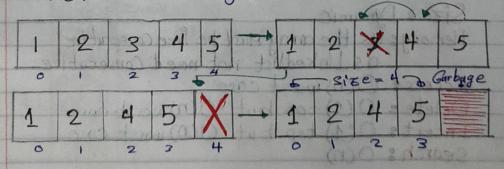
Delete & O(n) worst case O(1) best case

Insert: O(n) worst case O(1) best case

Search & O(n)

notes

you don't have to delete from Above as the Stack, I f you deleted an element all his next neighbors are back shifted and size of The last Dereases by 1



The same thing happen when we add an element but in inverse approache. The size will be increase by 1 and the next element to it will be shifted forward notes and the element will be assigned. Put 3 Put 3 SIECH; A[2]=3;