

IntArrayList asymptotic analysis

`add(int item)`: $O(1)$, $O(n)$ if need to increase size

`add(int pos, int item)`: $O(n)$ worst case, if inserted at the beginning of the list

`add(addAfter)`: $O(n)$ because needs to shift elements

`addAll()`: $O(m)$ where m is the list to be added, or $O(n+m)$ if resize is required.

`checkCapacity()`: $O(1)$, or $O(n)$ if needs to resize