Topic/Title:

Data Structure - Array Basics

Keywords/Questions:

Notes:

Arrays are very simple and contain some easy operations:

lookup - $O(1)$, push - $O(1)$
insert - $O(n)$, delete - $O(n)$

There are also two types of arrays:
1) Static - Require specific instruction
2) Dynamic - Can use more memory when needed.

* Treat String characters as arrays in interviews

Summary:

Arrays

Pros

Fast Lookups
Fast push/pop
Ordered

Cons

Slow Inserts
Slow Deletes
Fixed Sizes*

Due to Array Shifting

* If using static arrays