**Algorithm Key Points**

* Two main types of sorting algorithm
  + Brute force – 99% of times, it’s O(n^2)
    - Bubble
    - Selection
  + More efficient – complexity varies
* In algorithm, “n” in general, stands for the total number of elements in the array
* “Complexity” in algorithm, means what’s your algorithm’s performance
  + There’s two factors in ***performance***
    - Speed (time complexity)
      * O(n) reads O of n…
      * If single loop, mostly it would be O(n)… ***(Liner time)***
      * If loop within the loop, mostly it would be O(n^2)… ***(Exponential time)***
    - Space
      * Literally means, the volume of disk space this takes
* Linear Time
  + Functions like find(), in the worst case, it takes numbers of indexes to find the value
* Exponential Time
  + Functions like bubble sort, read above
* Constant Time
  + Functions like toGet() from a specific index, it takes the same amount of time no matter the size…