Brief Summary of Data Structures

# ***HashMaps***

* HashSet: used to check if something occurs
* HashMap: used to check how many times multiple things occur

# ***Breadth First Search***

* Used for level tree order traversals
* Every time you remove a null, you are at a new level of the tree

# ***Heaps***

* A.K.A PriorityQueues
* Use to find the max or min values in a set (Ex. Array)
* Can be combined with HashMaps to find highest occurrence more efficiently

# ***Stacks***

* Usually used for questions with characters
* Usually used when you need to correct a set of characters (Ex. Sentence)

# ***Linked Lists***

* Pointer to first node (head)
* Usually used when you are given the head of a linked list

# ***Queues***

* Pointer to first and last nodes
* First in first out
* Can be used for level tree order traversals

# ***Trees***

* Pointers to Children
* Usually used when given a tree