Interview Key Concept

1. linked list:
    1. revers
    2. find mid
    3. merge
2. tree like structure
    1. travers, in order, pre-order, post-order
    2. level order
    3. ReturnType // carry more than one information to caller
3. permutation / combination
    1. for , curr, pos, backtracking
    2. permutation-ii, combination-ii
4. array, numbers
    1. two pointers
        1. fast slow
        2. meet in middle
    2. presum array
    3. partition subroutine for quick_sort
    4. merge_sort
5. binary search
    1. start + 1 < end, check both arr[start], arr[end]
6. graph
    1. bfs, dfs
    2. topology sort
    3. dx, dy helper array
7. data structure
    1. unionfind
    2. heap, hashheap

3.   queue,
            1.   bfs
            2.   emulate stack
4.   stack
            1.   dfs
            2.   emulate queue

8.   dynamic programming
    1.   sequence
    2.   two strings
    3.   memorized search

9.   Other
    1.   KNN to point(0, 0)