1. Heap: binary heap, heap sort, How to add a number into a heap. How to remove a number form a heap.
2. Quick sort: How to partition a list using the pivot.
3. MST, finding a minimum spanning tree
4. SP: Shortest Path, Finding a shortest path
5. Hashing: linear probing, add numbers to the hash table and remove numbers from a hash table.
6. Recursion: Write a recursive method.
7. Use classic DS to write programs: How to pass arguments from the command-line, how to read words from a text file.
8. BST: Add a method into the BST class. E.g.,

public int getHeight()