Fibonacci sequence  
Recurrence relations  
Big-oh notation (and omega, theta) comparisons

Sorting:  
- insertion

- selection sort  
- selection  
- merge sort  
- counting  
- radix  
- quicksort  
- sorting lower bound

Divide and conquer  
Maximum subarray problem  
Master theorem  
Matrix multiplication  
- naive  
- Strassen's method

Multiplying n-bit numbers  
Towers of Hanoi  
Recursion trees  
Kadane's algorithm  
Substitution method  
Median finding

Graphs:  
- DFS, BFS  
- Dijkstra's algorithm  
- Bellman-Ford algorithm  
- Minimum spanning trees  
- Kruskal & Prim

Greedy algorithms:  
- Huffman encoding  
- Horn clauses, satisfiability  
- Set cover

* + A negative weight cycle is a cycle with weights that **sum to a negative number**. The Bellman-Ford algorithm propagates correct distance estimates to all nodes in a graph in V-1 steps, unless there is a negative weight cycle. If there is a negative weight cycle, you can go on relaxing its nodes *indefinitely*
    - DAG’s can’t have them