1. Merger Sort
   - [Counting inversion](#)
   - [Reverse Pair](#)
2. Quick Sort
3. Heap Sort
4. Binary Search
   - [First and Last Occurrence of the target](#)
   - [Koko Eating Banana](#) (Similar Pattern)
   - [Binary Search in 2D Matrix](#)
   - [Binary Search in row and column sorted 2D Matrix](#)
5. DFS
   - Cycle Detection
   - [Number of Provinces](#) (Can solve Using Both DFS and BFS)
   - [Number of Island](#)
   - [Perimeter of Island](#)
   - [Maximum Area of Island](#)
   - [Distinct Number of Island](#)
   - [Count sub Island](#)
   - [Count Island divisible by K](#)
   - [Flood Fill](#)
   - [Pacific Atlantic Waterflow](#)
   - Topology Sort
6. BFS
   - Shortest Path
   - [Rotten Orange](#)
   - [Nearest 0/1](#)
   - [Shortest Path in Binary Matrix](#)
   - [Word ladder](#)
7. Matrix Multiplication
8. Closet Pair