Binary Search:

Resources:
1. https://codeforces.com/edu/course/2/lesson/6
2. https://www.topcoder.com/thrive/articles/Binary%20Search

Problems:
1. https://atcoder.jp/contests/abc174/tasks/abc174_e
2. https://codeforces.com/problemset/problem/1492/C
3. https://codeforces.com/problemset/problem/1263/C
4. https://codeforces.com/contest/760/problem/B
5. https://codeforces.com/contest/1487/problem/D
6. https://codeforces.com/contest/1169/problem/C
7. https://codeforces.com/problemset/problem/1486/C2
8. https://cses.fi/problemset/task/2431
9. https://cses.fi/problemset/task/2422

Two Pointers:

Resources:
1. https://codeforces.com/edu/course/2/lesson/9
2. https://afteracademy.com/blog/what-is-the-two-pointer-technique

Problems:
1. Merge part of merge sort (basic example)
2. Largest segment with <=K distinct elements
3. https://www.codechef.com/problems/MCO16105
4. https://codeforces.com/problemset/problem/1166/C
5. Largest area of container (N points with heights given)
6. https://codeforces.com/contest/1225/problem/B2
7. https://cses.fi/problemset/task/2428

Bitmasks/Bit manipulation:

1. https://codeforces.com/problemset/problem/1494/B
2. https://codeforces.com/contest/1466/problem/E
3. https://codeforces.com/problemset/problem/961/C
4. https://codeforces.com/problemset/problem/114/B
5. https://codeforces.com/problemset/problem/1491/D
6. https://cses.fi/problemset/task/1146
7. https://cses.fi/problemset/task/1654
8. https://www.codechef.com/problems/BESTBATS
9. https://www.codechef.com/problems/MARCHA1
10. https://codeforces.com/problemset/problem/888/E

Divide and Conquer:

Problems:
1. https://codeforces.com/problemset/problem/1461/D
2. https://codeforces.com/problemset/problem/1416/C
3. https://codeforces.com/problemset/problem/1385/D
4. https://codeforces.com/problemset/problem/873/D
5. https://codeforces.com/problemset/problem/559/B

Randomisation:

Resources:
1. https://youtu.be/0r2D32esF3Y

Problems:
1. https://codeforces.com/problemset/problem/1514/D
2. https://codingcompetitions.withgoogle.com/codejam/round/0000000000051705/0000000000088231#problem
3. https://codeforces.com/contest/862/problem/C