Linear Search:

1. https://www.hackerearth.com/practice/algorithms/searching/linear-search/practice-problems/algorithm/simple-search-4/
2. https://www.hackerearth.com/practice/algorithms/searching/linear-search/practice-problems/algorithm/maximum-sum-4-f8d12458/
3. https://www.hackerearth.com/practice/algorithms/searching/linear-search/practice-problems/algorithm/mannas-first-name-4/
4. https://www.codechef.com/problems/SEGM01
5. https://www.hackerearth.com/practice/algorithms/searching/linear-search/practice-problems/algorithm/rest-in-peace-21-1/

Hashing: (Basic and not String Hashing)

1. https://www.hackerearth.com/practice/data-structures/hash-tables/basics-of-hash-tables/practice-problems/algorithm/maximum-occurrence-9/
2. https://codeforces.com/problemset/problem/4/C
3. https://www.hackerearth.com/practice/data-structures/hash-tables/basics-of-hash-tables/practice-problems/algorithm/perfect-pair-df920e90/description/
4. https://codeforces.com/problemset/problem/486/B

PrefixSum:

1. https://www.spoj.com/problems/CSUMQ/
2. https://www.codechef.com/problems/BLONDIE
3. https://onlinejudge.org/index.php?option=com_onlinejudge&Itemid=8&category=24&page=show_problem&problem=1474
4. https://www.hackerrank.com/contests/ab-yeh-kar-ke-dikhao/challenges/kj-and-street-lights/leaderboard (learn the scanline algo trick, probably from here https://www.youtube.com/watch?v=TSUvGqRFlug (timeStamp: 2:00)
5. https://www.codechef.com/COW42020/problems/COW3E/ (2d prefix sum)
6. https://www.codechef.com/problems/COWA19B
7. https://www.codechef.com/problems/MXPOWER

Sliding Window:

1. https://www.hackerrank.com/challenges/min-max-riddle/problem (uses nge, read in stacks)
2. https://codeforces.com/problemset/problem/363/B
3. https://www.codechef.com/problems/SHIVIGOD (try to do using sliding window)
4. https://www.codechef.com/problems/BDGFT
5. https://www.codechef.com/problems/ECAPR206
6. https://codeforces.com/problemset/problem/1341/B
7. https://www.codechef.com/problems/SUMPOWER (Can be solved using prefix sum, but try to do without that by using O(1) space)

Binary Search:

(make sure you watch STL of BS

➔ https://www.youtube.com/watch?v=edJ19qIL8WQ)

1. https://www.hackerearth.com/practice/algorithms/searching/binary-search/practice-problems/algorithm/bishu-and-soldiers/
2. https://www.spoj.com/problems/AGGRCOW/
3. https://www.interviewbit.com/problems/painters-partition-problem/
4. https://codeforces.com/problemset/problem/975/C
5. https://www.codechef.com/problems/DSTROY
6. https://codeforces.com/problemset/problem/812/C
7. https://codeforces.com/problemset/problem/363/D
8. https://www.codechef.com/problems/FAKEBS

Prime, Sieve, Segmented Sieve, Prime Factorization:

1. https://www.spoj.com/problems/PRIME1/
2. https://www.spoj.com/problems/TDPRIMES/
3. https://www.hackerearth.com/practice/math/number-theory/basic-number-theory-2/practice-problems/algorithm/nearest-prime-a828361b/
4. https://www.hackerearth.com/practice/math/number-theory/basic-number-theory-2/practice-problems/algorithm/ashu-and-prime-factors-4/
5. https://codeforces.com/contest/776/problem/B
6. https://www.hackerearth.com/practice/math/number-theory/basic-number-theory-2/practice-problems/algorithm/b-prime-counting/description/
7. https://www.hackerearth.com/practice/math/number-theory/primality-tests/practice-problems/algorithm/bob-and-gems-f8226fbd/description/
8. https://codeforces.com/contest/546/problem/D
9. https://codeforces.com/problemset/problem/222/C

Search Combinatorics problems and do by self, since it is not an algorithm, rather mathematics, whose pattern can never be understood ;)

Constructive Problems having swapping terms in it:

1. https://codeforces.com/problemset/problem/1353/B
2. https://codeforces.com/problemset/problem/489/A
3. https://codeforces.com/problemset/problem/920/C
4. https://codeforces.com/problemset/problem/1215/C
5. https://www.codechef.com/problems/SWAPPALI

Bit Manipulation/Power Set:

1. https://www.hackerearth.com/practice/basic-programming/bit-manipulation/basics-of-bit-manipulation/practice-problems/algorithm/find-the-numbers-75f24949/

2. https://www.hackerearth.com/practice/basic-programming/bit-manipulation/basics-of-bit-manipulation/practice-problems/algorithm/power-of-2-6/
3. https://codeforces.com/problemset/problem/1095/C
4. https://codeforces.com/problemset/problem/1202/A
5. https://codeforces.com/problemset/problem/1152/B
6. https://codeforces.com/problemset/problem/611/B
7. https://codeforces.com/problemset/problem/1097/B (Power Set use)
8. https://codeforces.com/problemset/problem/276/D

Greedy Algorithms (A topic in which you need to many problems):

1. https://codeforces.com/problemset/problem/1291/A
2. https://codeforces.com/problemset/problem/1375/B
3. https://codeforces.com/problemset/problem/1294/C
4. https://codeforces.com/problemset/problem/1285/B (Kadane's Algo pre-req)
5. https://codeforces.com/problemset/problem/1201/B
6. https://codeforces.com/problemset/problem/274/A
7. https://codeforces.com/problemset/problem/413/C
8. https://codeforces.com/problemset/problem/1368/B
9. https://codeforces.com/problemset/problem/1291/B

Divide and Conquer:

1. https://leetcode.com/problems/reverse-pairs/ (Check my video on YT)
2. https://codeforces.com/problemset/problem/768/B
3. https://cses.fi/problemset/task/1628
4. https://codeforces.com/problemset/problem/1263/C (try to solve using MIM)
5. https://codeforces.com/problemset/problem/1249/C2
6. https://codeforces.com/problemset/problem/1373/D

Stack/Queues/PriorityQueues:

1. https://www.hackerrank.com/challenges/balanced-brackets/problem
2. https://www.codechef.com/status/THESA
3. https://www.spoj.com/problems/ANARC09A/
4. https://www.hackerearth.com/practice/data-structures/queues/basics-of-queues/practice-problems/algorithm/monk-and-power-of-time-3a648bf0/
5. https://www.hackerearth.com/challenges/competitive/code-monk-heaps-and-priority-queues-1/algorithm/little-monk-and-williamson/
6. https://codeforces.com/contest/5/problem/C
7. https://www.hackerearth.com/practice/data-structures/stacks/basics-of-stacks/practice-problems/algorithm/little-shino-and-pairs/
8. https://www.hackerearth.com/practice/data-structures/trees/heapspriority-queues/practice-problems/algorithm/seating-arrangement-6b8562ad/

String Algorithms (Hashing, Rabin Karp, KMP, Z-Function, Manacher's Algo):

1. http://codeforces.com/problemset/problem/271/D
2. https://www.spoj.com/problems/NHAY/
3. https://www.spoj.com/problems/NAJPF/

4. https://onlinejudge.org/index.php?option=onlinejudge&page=show_problem&problem=396
5. http://codeforces.com/problemset/problem/126/B
6. http://codeforces.com/problemset/problem/271/D
7. https://www.codechef.com/problems/RUNNING
8. https://www.codechef.com/problems/INSQ15_A
9. https://codeforces.com/problemset/problem/346/B
10. https://codeforces.com/problemset/problem/432/D (Trees must be known)
11. https://leetcode.com/problems/longest-palindromic-substring/ (Manacher's)
12. https://leetcode.com/problems/longest-palindromic-substring/
13. https://codeforces.com/contest/1080/problem/E (Super tough)

Tree's (DFS, LCA, Subtree size):

1. https://cses.fi/problemset/task/1674
2. https://cses.fi/problemset/task/1130
3. https://www.spoj.com/problems/ABCPATH/
4. https://cses.fi/problemset/task/1131
5. https://codeforces.com/problemset/problem/1336/A
6. https://codeforces.com/contest/734/problem/E (Bit tougher DFS)
7. https://cses.fi/problemset/task/1688 (LCA)
8. https://www.spoj.com/problems/DISQUERY/
9. https://cses.fi/problemset/task/1131 (LCA)
10. https://cses.fi/problemset/task/1135 (LCA)
11. https://codeforces.com/contest/208/problem/E
12. https://codeforces.com/contest/1328/problem/E
13. https://codeforces.com/contest/519/problem/E
14. Still want more for LCA, find here -> https://codeforces.com/blog/entry/43917

Graph Algorithms (DFS, BFS, Dijsktra, Floyd Washall, Bellman Ford, Bridges, 0-1 BFS, Bipartite, Topo-sort ...):

1. https://cses.fi/problemset/task/1192 (bfs)
2. https://cses.fi/problemset/task/1193
3. https://codeforces.com/problemset/problem/242/C
4. https://cses.fi/problemset/task/1193 (Connected Components)
5. https://cses.fi/problemset/task/1667
6. https://cses.fi/problemset/task/1669
7. https://cses.fi/problemset/task/1671 (Dijsktra)
8. https://codeforces.com/problemset/problem/20/C
9. https://cses.fi/problemset/task/1672 (Floyd Warshall)
10. https://cses.fi/problemset/task/1673
11. https://cses.fi/problemset/task/1197 (Bellman Ford)
12. https://cses.fi/problemset/task/1679 (topo sort)
13. https://codeforces.com/problemset/problem/510/C
14. https://codeforces.com/problemset/problem/59/E (tough Dijsktra)
15. https://onlinejudge.org/index.php?option=com_onlinejudge&Itemid=8&page=show_problem&problem=737
16. https://www.spoj.com/problems/SUBMERGE/

17. https://www.codechef.com/problems/REVERSE (0-1 BFS)
18. https://codeforces.com/contest/1296/problem/E1 (Bipartite)

Once you have done this, if you feel like doing more, search and do as much as you can on the algo names above.

Dynamic Programming:

1. https://atcoder.jp/contests/dp/tasks/dp_a
2. https://atcoder.jp/contests/dp/tasks/dp_b
3. https://atcoder.jp/contests/dp/tasks/dp_c
4. https://atcoder.jp/contests/dp/tasks/dp_d
5. https://atcoder.jp/contests/dp/tasks/dp_e
6. https://atcoder.jp/contests/dp/tasks/dp_f
7. https://atcoder.jp/contests/dp/tasks/dp_h
8. https://atcoder.jp/contests/dp/tasks/dp_i
9. https://cses.fi/problemset/task/1635
10. https://cses.fi/problemset/task/1636
11. https://codeforces.com/problemset/problem/1015/E1
12. https://codeforces.com/problemset/problem/977/F
13. https://codeforces.com/problemset/problem/1155/D
14. https://codeforces.com/problemset/problem/1341/D (I also have a video on this, do check out)
15. https://vjudge.net/problem/LightOJ-1068
16. https://vjudge.net/problem/LightOJ-1205
17. https://www.codechef.com/problems/DGTCNT
18. https://www.spoj.com/problems/CPCRC1C/
19. https://www.spoj.com/problems/PR003004/
20. https://codeforces.com/contest/628/problem/D

Disjoint Set:

1. https://www.hackerearth.com/practice/data-structures/disjoint-data-strutures/basics-of-disjoint-data-structures/practice-problems/algorithm/owl-fight/
2. https://www.hackerearth.com/practice/data-structures/disjoint-data-strutures/basics-of-disjoint-data-structures/practice-problems/algorithm/still-maximum/
3. https://codeforces.com/contest/25/problem/D
4. https://www.spoj.com/problems/CLFLARR/ (offline)
5. https://codeforces.com/contest/151/problem/D
6. https://codeforces.com/problemset/problem/547/B

Sqrt Decomposition:

1. https://www.hackerearth.com/problem/algorithm/gcd-problem-1/
2. https://www.hackerearth.com/problem/algorithm/final-question/
3. https://codeforces.com/contest/220/problem/B

4. https://codeforces.com/contest/86/problem/D (Mo's Algo)
5. https://codeforces.com/contest/242/problem/E

Fenwick Tree:

1. https://www.spoj.com/problems/INVCNT/
2. https://codeforces.com/gym/100741/problem/A
3. https://www.spoj.com/problems/MATSUM/
4. https://codeforces.com/gym/100741/problem/A
5. https://www.spoj.com/problems/DQUERY/
6. https://codeforces.com/problemset/problem/61/E

Segment Tree (lazy also included):

1. https://cses.fi/problemset/task/1646
2. https://cses.fi/problemset/task/1647
3. https://codeforces.com/problemset/problem/61/E
4. https://codeforces.com/contest/356/problem/A
5. https://codeforces.com/contest/459/problem/D
6. https://codeforces.com/contest/61/problem/E
7. https://codeforces.com/contest/380/problem/C
8. https://www.hackerearth.com/practice/data-structures/advanced-data-structures/fenwick-binary-indexed-trees/practice-problems/algorithm/help-ashu-1/
9. https://codeforces.com/contest/52/problem/C
10. https://codeforces.com/contest/52/problem/C
11. https://codeforces.com/contest/558/problem/E
12. https://codeforces.com/contest/558/problem/E
13. https://codeforces.com/contest/558/problem/E