Awesome Resources:

1. Hello 2015:
   - http://codeforces.com/blog/entry/15473
   - http://codeforces.com/gym/100571
   - http://codeforces.com/gym/100570
   - Editorial: http://codeforces.com/blog/entry/15722
2. Segment Trees:
   - http://codeforces.com/blog/entry/15890
   - http://codeforces.com/blog/entry/3327
   - http://codeforces.com/blog/entry/12285
   - http://codeforces.com/blog/entry/13703
   - http://codeforces.com/blog/entry/13554
   - https://www.quora.com/How-to-count-inversions-using-Segment-Tree-of-a-given-array
3. Graph Algorithms: http://codeforces.com/blog/entry/16221
4. DS:
   - http://codeforces.com/blog/entry/15729
   - http://codeforces.com/blog/entry/13959
   - http://codeforces.com/blog/entry/3767
5. List of algos: http://codeforces.com/blog/entry/13529
6. Policy Based DS: http://codeforces.com/blog/entry/11080
7. Policy Based DS 2: http://codeforces.com/blog/entry/13279
8. Ordered Set:
   - http://codeforces.com/blog/entry/11275
   - http://codeforces.com/blog/entry/3781
9. Fenwick Tree:
   - http://e-maxx.ru/algo/fenwick_tree
   - http://codeforces.com/blog/entry/619
   - http://petr-mitrichev.blogspot.com/2013/05/fenwick-tree-range-updates.html
   - http://apps.topcoder.com/forums/?module=Thread&threadID=715842&start=0&mc=8#1407869
   - http://apps.topcoder.com/forums/?module=Thread&threadID=756271&start=0&mc=2#1579597
   - http://codeforces.com/blog/entry/13501
10. Counting Inversions:
http://pavelsimo.blogspot.co.uk/2012/09/counting-inversions-in-array-using-BIT.html
11. Tries: https://discuss.codechef.com/questions/15797/understanding-trie-and-its-applications
12. C++ implementations: https://codesea.wordpress.com/code-library/
13. EMAXX: http://e-maxx.ru/algo/
14. Game of Nim http://codeforces.com/blog/entry/3657

15. HLD:
    - http://blog.anudeep2011.com/heavy-light-decomposition/
    - http://codeforces.com/blog/entry/12239
    - http://wcipeg.com/wiki/Heavy-light_decomposition
16. Binary Search: http://codeforces.com/blog/entry/9901
17. DP:
    - Bitmask DP: http://codeforces.com/blog/entry/337
    - Bitmask DP: http://www.ugrad.cs.ubc.ca/~cs490/sec202/notes/dp/DP%202.pdf
    - DP on Trees: https://threads-iiith.quora.com/Dynamic-Programming-on-Trees-Tutorial
    - Optimization: http://codeforces.com/blog/entry/8219
    - Types: http://codeforces.com/blog/entry/325
18. Sparse Table: https://mayanknatani.wordpress.com/2013/07/15/range-minimum-query/
19. Link/Cut Tree: http://www.cs.cmu.edu/~avrim/451f12/lectures/lect1009-linkcut.txt
20. Coordinate Compression: https://www.quora.com/What-is-coordinate-compression
21. Fractional Cascading:
    - http://blog.ezyang.com/2012/03/you-could-have-invented-fractional-cascading/
    - http://e-maxx.ru/algo/segment_tree#18
    - https://en.wikipedia.org/wiki/Fractional_cascading
    - http://cs.brown.edu/courses/cs252/misc/resources/lectures/pdf/notes08.pdf
    - A bit high level: http://www.umiacs.umd.edu/~joseph/ffc-and-apps-tr.pdf
    - http://www.hpl.hp.com/techreports/Compaq-DEC/SRC-RR-12.pdf
22. K-Dimensional Tree:
    - http://www.geeksforgeeks.org/k-dimensional-tree/
    - http://www.geeksforgeeks.org/k-dimensional-tree-set-2-find-minimum/
    - http://www.geeksforgeeks.org/k-dimensional-tree-set-3-delete/
    - https://www.cise.ufl.edu/class/cot5520fa09/CG_RangeKDtrees.pdf
23. Range Trees (Prerequisite-KD Tree) :
    - http://blog.ezyang.com/2012/02/visualizing-range-trees/
    - http://www.cse.wustl.edu/~taoju/cse546/lectures/Lecture21_rangequery_2d.pdf
    - http://www.cs.uu.nl/docs/vakken/ga/slides5b.pdf
24. 2-SAT: http://codeforces.com/blog/entry/16205
25. Meet-in-the-middle:
https://www.quora.com/What-is-meet-in-the-middle-algorithm-w-r-t-competitive-programming
26. Good Website: http://www.infoarena.ro/arhiva-educationala
27. Treaps:
    - http://habrahabr.ru/post/101818/
    - http://codeforces.com/blog/entry/3767
28. Another Good Resource:
http://halexv.blogspot.mx/2015/10/competitive-programming-resources.html
29. Suffix Automaton: https://drive.google.com/file/d/0B0BBPCmtPbIcbVFsSG9qeTl1TjA/view