Competitive Coding Complete Guide part - 2

\*) Let’s reiterate from last document.

1. Hash Map (**the secret weapon of all the programmers**).

* You will realize soon how much hash map is important to optimize problem. Before that these are few standard questions you must know.
* <https://www.youtube.com/watch?v=MHocw0bP1rA&t=1s> (if all values are positive then you can solve it by O(1) space find on GFG).
* <https://www.youtube.com/watch?v=ufXxc8Vty9A&t=459s>
* <https://www.youtube.com/watch?v=dRUpbt8vHpo>

So, I hope you learned something about sliding window. Let have deep dive into this topic again.

1. Sliding window

* <https://www.youtube.com/watch?v=EHCGAZBbB88&list=PL_z_8CaSLPWeM8BDJmIYDaoQ5zuwyxnfj>

1. Stacks & Queues

* <https://www.youtube.com/watch?v=P1bAPZg5uaE&list=PL_z_8CaSLPWdeOezg68SKkeLN4-T_jNHd>
* <https://www.youtube.com/watch?v=TUl1AsOfKP4>
* <https://www.youtube.com/watch?v=cHaMZyvRghc>

1. Linked List

* <https://www.youtube.com/watch?v=7aaLHxSLnQA&list=PL4PCksYQGLJM2mKe1n8LnFgcm3FRLhxZ9&index=8>
* <https://www.youtube.com/watch?v=Rs1KPyb9fHY&list=PLeIMaH7i8JDio7glJoO1rQIAo4g1msRRG>

1. Binary Search (**Most Important Topic**)

* <https://www.youtube.com/watch?v=GU7DpgHINWQ&t=2s> (Most variation in 1 video)
* <https://www.youtube.com/watch?v=j7NodO9HIbk&list=PL_z_8CaSLPWeYfhtuKHj-9MpYb6XQJ_f2>
* <https://www.youtube.com/watch?v=cLkcNeiploY&t=3s> (why it is most important topic? Answer is in this video. The other way to see binary search.)

1. Backtracking (Not asked directly but useful while solving tree problems)

* <https://www.youtube.com/watch?v=ht_Rfxgxjrs&t=892s>
* <https://www.youtube.com/watch?v=4BBB0mvvbGA>
* <https://www.youtube.com/watch?v=JMxl5rk7kGo&t=92s>
* <https://www.youtube.com/watch?v=SJ_pXT-L5IE&t=792s>

1. Tree

* <https://www.youtube.com/watch?v=qH6yxkw0u78> (Basic introduction)
* Implement insertion, dfs(pre, post, in) order traversal, bfs(vertical order traverse) learn from geeksforgeeks
* <https://www.youtube.com/watch?v=Dqi9ZypilWY&list=PL4PCksYQGLJM2mKe1n8LnFgcm3FRLhxZ9&index=9>
* <https://www.youtube.com/watch?v=SiyEwLrPpyQ&list=PLeIMaH7i8JDj7DnmO7lll97P1yZjMCpgY> (playlist order is not proper but you can follow any order).

\*) Watch below video at your free time. It will boost your Logical thinking. (you may find below problems too difficult but don’t worry just watch video and think and what you missed to solve that).

-> <https://www.youtube.com/watch?v=u5-ss5kKy7g&list=PLfBJlB6T2eOshO8-LYaMt-Pes1IFojJ_l&index=22>

-> <https://www.youtube.com/watch?v=CCyEXcNamC4&list=PLiQ766zSC5jPjqhrp9VWhvTcR0jwF1-Km&index=4>

-> <https://www.youtube.com/watch?v=Kd1xzR0JKBA&list=PLfBJlB6T2eOvIEiSo43vr4vk7ASI4GkVS&index=4>

-> <https://www.youtube.com/watch?v=OvpKeraoxW0&list=PLiQ766zSC5jMEpcGL0nSkfDM3paBP5FOE&index=3>

-> <https://www.youtube.com/watch?v=S6IfqDXWa10&list=PLiQ766zSC5jMEpcGL0nSkfDM3paBP5FOE&index=5> (most most most important question)

-> <https://www.youtube.com/watch?v=O0By4Zq0OFc&list=PLiQ766zSC5jMEpcGL0nSkfDM3paBP5FOE&index=6>

-> <https://www.youtube.com/watch?v=IG9OtI54zPk&list=PLfBJlB6T2eOvIEiSo43vr4vk7ASI4GkVS&index=6>

Some youtube channels you can refer for learn new things

1. <https://www.youtube.com/channel/UCRPMAqdtSgd0Ipeef7iFsKw>
2. <https://www.youtube.com/channel/UC9fDC_eBh9e_bogw87DbGKQ>
3. <https://www.youtube.com/channel/UC0zvY3yIBQTrSutsV-4yscQ>
4. <https://www.youtube.com/channel/UCJskGeByzRRSvmOyZOz61ig>
5. <https://www.youtube.com/results?search_query=love+babbar>
6. <https://www.youtube.com/channel/UCBr_Fu6q9iHYQCh13jmpbrg>
7. <https://www.youtube.com/c/Errichto2/videos> (watch Leetcoding interview problem Long videos).