

Notes from quora:

Notes taken from Quora:

Most tier 1 companies will focus mainly on DS and algorithms and might plunge into databases, OOP, OS and networks as per their working environment and needs .

The most important topics under DS and algorithms based on the frequency of questions asked as per my experience is as follows:-

1. Trees
2. linked list concepts
3. heaps
4. dynamic programming
5. hashing
6. Stacks and queues

Apart from the forementioned topics it is expected that one should be well versed with the standard sorting(quick, merge, insertion, counting, selection and bubble sort should suffice) and searching algorithms.

Though i will personally suggest to go through all major topics of DS and algo but if there are certain time constraints the above topics should help you with the interview process.

Apart from the theoretical and conceptual knowledge it is very important to actually be able to implement them. For this very purpose, one should practise algorithmic questions on spoj, codechef, hackerrank and other programming portals.

Some references for preparation includes:-

1. "Algorithms" and "Data Structures" section of geeksforgeeks.
2. Introduction to Algorithms and Data Structures by Narsimha Karumanchi.
3. CLRS or Introduction to Algorithms by Cormen(bible for DS and Algo).

additional books

<http://www.amazon.com/Data-Structures-Algorithms-Made-Easy/dp/819210754X>

<http://www.amazon.com/Introduction-Algorithms-Edition-Thomas-Cormen/dp/0262033844>

<https://mitpress.mit.edu/books/introduction-algorithms>

and best 100 questions link

(large file takes a few to load)

attached here too.

<https://ashayraut.files.wordpress.com/2014/05/interview-preparation-best-100-ashay-raut.pdf>

and an excellent quora post:

<https://www.quora.com/How-can-I-prepare-for-interviews-in-any-big-software-company-like-Google-Facebook-Amazon-Akamai-Microsoft-DE-Shaw-Salesforce-Flipkart-Expedia-Morgan-Stanley-Goldman-Sachs-Adobe-eBay-Walmart-LinkedIn-etc>

link:

<http://www.geeksforgeeks.org/>