

Top 25 Interview Questions

Here is the collection of TOP 25 frequently asked questions based on experience (mine and friends) of interviews in multiple companies.

- 1) Lowest common Ancestor (<http://www.geeksforgeeks.org/lowest-common-ancestor-binary-tree-set-1/>)
- 2) A unsorted array of integers is given; you need to find the max product formed by multiplying three numbers. (You cannot sort the array, watch out when there are negative numbers)
- 3) Left View of a tree (<http://www.geeksforgeeks.org/print-left-view-binary-tree/>)
- 4) Reversing of Arrays (<http://www.geeksforgeeks.org/write-a-program-to-reverse-an-array/>)
- 5) Cache Line, Cache internal concept, RR scheduling
- 6) Print the middle of a given linked list (<http://www.geeksforgeeks.org/write-a-c-function-to-print-the-middle-of-the-linked-list/>)
- 7) Pair wise swap of elements in linked list (<http://www.geeksforgeeks.org/pairwise-swap-elements-of-a-given-linked-list/>)
- 8) HashMap internals (<http://javarevisited.blogspot.in/2011/02/how-hashmap-works-in-java.html>)
- 9) Double checking Singleton (<http://javarevisited.blogspot.in/2014/05/double-checked-locking-on-singleton-in-java.html>)
- 10) Factory Pattern (<http://javarevisited.blogspot.in/2011/12/factory-design-pattern-java-example.html>)
- 11) Print a given matrix in spiral form (<http://www.geeksforgeeks.org/print-a-given-matrix-in-spiral-form/>)
- 12) DFS on Graph and its representation (<http://www.geeksforgeeks.org/graph-and-its-representations/>, <http://ideone.com/TA4ldc>)

13) Object Oriented concept, Polymorphism , Method overloading, method overriding, Difference between abstraction and encapsulation, Aggregation and Composition

14) Print nth last node in linked list

15) Delete a given node in Linked List under given constraints (<http://www.geeksforgeeks.org/delete-a-given-node-in-linked-list-under-given-constraints/>)

16) Implement Stack using Queues(<http://www.geeksforgeeks.org/implement-stack-using-queue/>)

17) Find if two rectangles overlap (<http://www.geeksforgeeks.org/find-two-rectangles-overlap/>)

18) Multithreading concepts

19) Given an array of integers, update the index with multiplication of previous and next integers,

e.g. Input: 2 , 3, 4, 5, 6
Output: 2*3, 2*4, 3*5, 4*6, 5*6

20) Difference of creating threads in Java using Thread and Runnable

21) How hashset is implemented in Java internally.

22) **DeadLock** example code (**Producer & Consumer Code**)

23) Find the number which is not repeated in Array of integers, others are present for two times.

e.g. Input : 23, 34,56,21,21,56,78,23, 34
Output: 23
Hint: USE XOR

24) **Serialization** and related concepts.

25) Comparators in TreeSet

Thanks to geeks4geeks team for providing a nice platform. You guys are the best.

This article is contributed by **Rishi Verma**. Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above.

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