**Interview Questions – I**

These are some of the common interview questions and also a few previous year questions and concepts which were asked/expected by the companies who took part in the placement drive.

1. Fibonacci algorithm
2. Flowchart to test for a prime number.
3. Reverse print a number (C code)
4. Basic OOP concepts.
5. How do you achieve multiple inheritance in JAVA
6. How to add two numbers (80-85 microprocessor)
7. Linked lists in java
8. Code to reverse a number
9. Circular linked list
10. C pointers
11. Transpose of matrix, reverse a string
12. Cop- Intel 8085 how do u divide a number
13. Difference  between normalization and denormalization
14. Char = 65, printed using %d, what is the output?
15. What is pointer to a pointer to a pointer
16. Why use a cyclic linked list
17. What is function overloading
18. Difference between int i and void i declaration
19. What will happen if you print the value of a pointer
20. What is typecasting
21. Java - Encapsulation and Polymorphism
22. Linked list – creation
23. Method overloading, Auto variable in java

**A few important concepts to be thorough in.**

* Hash Tables
* Frog – 1,2,3 jumps how many to N recursion
* River and stones – jump 1 or 2
* 4th smallest element in a given tree(BST)
* Two trains: A going east at 15 km/hr and B going west at 30 km/hr, find the distance between them when they are 5 minutes away
* Order of all sorting algorithms, searching algorithms – sort them from fastest to slowest
* Order merge sort
* Number of swaps for a given test case in bubble sort
* Given a level order traversal adding two elements in min heap and predict level order traversal
* Sticks of length 1 to 10 are given. On adding any two sticks of lengths x and y it costs (x+y).  Find the min possible cost to add all of them
* Given a pointer to a node add a node after that. Find the complexity of doing so in a linked list