**Devsinc Interview Questions**

**OOP:**

Q 1: Why OOP?

Q2: Four Pillars of OOP?

Q3: Encapsulation

Q4: Abstraction

Q5: Difference between Encapsulation and Abstraction?

Q6: Polymorphism?

Q7: Types of polymorphism?

Q8: Difference b/w static and dynamic polymorphism?

Q9: Function Overloading and Function Overriding

Q10: Types of inheritance?

Q11: Multiple inheritance?  
Q12: Diamond Problem? How it can be resolved?  
Q13: Difference b/w Abstract Class and interface?

Q14: 2-3 snippets of code (Output)

Q15: Access Specifiers and access modifiers

Q16: Memory Leakage

Q17: Deallocate Memory Concept

Q18: What types of variables pushed on Stack?

Q19: Difference between struct and Class?

Q20: Define Class?

Q21: Operator Overloading?

**DSA:**

1. Palindrome of Linked list in (O(n))?
2. Anagram Check Optimized Solution in terms of space and time? (I used hashmap :) in this question)
3. Merge the two sorted arrays?
4. Delete the nth last node? DeleteNthNode( Linklist, NthlastIndex)
5. Delete the middle node (only the address of middle node is given)
6. Two-way target sum?
7. Return 4th Largest number from an array? (O(n) space and tim

**DBS:**

1. Joins?
2. Identify the relationship between two tables? (You are given with two tables)
3. Draw the schema of your FYP?
4. What is Transaction?
5. Triggers?
6. ACID properties?
7. Write the query to display the name of employee and maximum salary group by dept no?