**Qualcomm Interview questions**

**C-Questions**

1. Explain compilation stages
2. Explain Boot-up Process
3. What is volatile variable? and its advantage
4. Explain Process memory Stack in brief
5. What is the difference b/w stack and queue
6. Difference b/w structure and Union
7. What is the bitfields in C and its usage
8. Array vs Linked List
9. Explain Storage classes
10. #define PTR int\*

typedef ptr int\*

PTR\*a,b,c;

Ptr\*x,y,z;

Explain data type of a,b,c and x,y,z

1. Explain Deep copy and Shallow copy
2. Ask to write code snippet to find loop in a given linked list

**Linux System Programming**

1. Explain IPC mechanism
2. Mutex vs Semaphore
3. How to handle deadlock situation, give an real time example till now you came across
4. What is Priority Inversion and Inheritance and its usages
5. What is Race-Condition?
6. What is preemption?
7. What is merge conflict and how to handle it.
8. Few questions on Makefile (source file and different C-flags used in make file)
9. How to debug kernel crash and how to enable the debugging tool
10. Do you have knowledge on Jtag for debugging purpose
11. Explain flow of nay one system call
12. One question on spin lock(polling)

**Device Driver**

1. Explain driver types
2. What are the driver you have worked so far
3. Take any one driver and explain complete from low-level to high-level
4. Usage of Major and Minor numbers
5. Explain Misc device driver
6. Explain in brief about I2C protocol

**C++**

1. Explain Oops concepts (Inhertance,polymorphisam etc..)

**Controller Based**

1. Ask to explain the algorithm of home automation (IOT related)
2. What are the sensor you used so far?