storage class ?

compilation process ?

pointer types?

structure padding or packing?

diff b/w union and structure?

where use union or structure?(real time example)

diff b/w for loop vs while loop;

big endian vs little endian

how will you identify your machine is little or big? code

memory leak?

diff b/n calloc vs malloc?

static vs shared lib?

memory corruption ?

diff b/w function vs macro?

volatile ?

function pointer? with code

What is a Callback Function? with code

Static function?

Linear Data Structures   vs Non Linear Data Structure

reverse string? normal and recursion

What happens during compilation if I use a static function?

write your own size of using macro?

find the number is odd or even inside the thread function.

string user defined function codes all

bitwise (set , clear toggel)

second highest digit

link list add ,delete, reverse, print Nth node , replace Nth node, find detect loop in link list insert middle , delete middle

socket programming(tcp/ip   vs udp)

diff b/w process vs thread?

Context switching->

types of ipc technique?

What is a system call ?

 diff b/w binary semaphore vs counting semaphore?

diff b/w semaphore vs mutex?

diff b/w udp vs tcp?

Diff bw fork() vs vfork()

diff b/w mutex vs spin lock.

what is virtual memory?

what is function declaration , function definition? eg:- printf,scanf

Memory layout in C

where is initialized data and uninitialized data is stored in segments? For ex int a=10,b=20 is stored in memory ?

What is static?

What is signed and unsigned int?

What is stack overflow ?

What is the segmentation fault?

give example for segmentation fault

difference between malloc and calloc ?

If calloc does not get contiguous memory allocation will it allocate memory or not?

What is a static variable ?

What is a void pointer?

What is memory leak?

After the dynamic allocation memory is memory freed ? will be there or free ? if it is free who does it?

What is process and thread ?

diff between process and thread ?

what is proc

what is dev

what is difference between arm vs x86

How can we find the OS of the system?

If a binary file is given, how can we find whether it is 64 bit or 32 bit?

What is multithreading and why is it used ?

What is the condition called to stop recursive function ?Base condition

what is dangling pointer

Typecasting vs type conversion

typedef

inline vs macro

GPIO

Interrupt , interrupt vector table, Interrupt service routine

Can interrupt exist without ISR

Nested Interrupt

What are handshake signals in UART

What are different errors in CAN communication

What is interrupt latency? How to measure it?

Explain interrupts ? ISR?Interrupt vector table?

What if there are 2 interrupt waiting and 1 interrupt is in execution , then how the other 2 will be executed?

What is device driver?

What is RTOS?

Which controller have you worked on?

What is stack and heap?

What is stack overflow?

What is a NULL pointer? Where is it used?

What is GPIO ? How to initialize GPIO ?

What is Debouncing in the controller?

What is DMA?

Which one is asynchronous communication between I2C and SPI?

Explain CAN frame ?

UART and CAN are synchronous or asynchronous communi.? What is set for communication ?(Baud rate)

What is present in the startup file?

What are different architectures available in Embedded systems?

What is a timer ? How to initialize a timer?

What is the use of makefile ?

What is a deadlock ?

Bootloader?

How the syncronisation between thread is done?

Write a code find total num of "to" in "Welcome to gdb Welcome to gdb Welcome to gdb".

Write a code showing the pthread prototype

Write a code to count total number of set bit.

Write a function to print reverse in linked list

Interrupt handling and execution

Write a function pointer and print its output

Consider a array having pointer *p and value it has 2 3 4 5 what does *p++ and ++*p will give as output.

What is socket programming?

1)write 2 func add, sub 2)invoke add from main using call back mechanism also pass address of sub to add 3)invoke sub from add

Write a C code to print string reverse