#1 Thread of Execution

```
int f(int a, int v1,int v2, ...10 more) {
   int b=a+1;
   if(b>99) return 3;
    return b;
}
```

How does return 'work'? i.e. How does the CPU know what to do next?

#2 Introduction to threads and pthreads

`pthread_create`

`pthread_join`

`pthread_exit`

```
#include <pthread.h>

int pthread_create(pthread_t *thread,
   pthread_attr_t *attr,
   void *(*start_routine) (void *),
   void *arg);

int pthread_join(pthread_t thread, void **retval);

void pthread_exit(void *retval);
```

Compile and link with `-pthread`

#3 My program calls `pthread_create` twice. How many stacks does my process have?

#4 What is the difference between a process and a thread?

#5 What does `pthread_cancel` do?
and are there alternatives?

#6 Differences between `exit()` and `pthread_exit()`?

...so why would you call `pthread_exit` in your main method?

#7 Give four ways that a thread can be terminated

#8 Hello World with pthreads?

#9 What happens if I call pthread_create 100 or 10000 times?