Quiz2

Due No due datePoints 2Questions 13Available May 11 at 9:25am - May 11 at 9:50am 25 minutesTime Limit 25 Minutes

This quiz was locked May 11 at 9:50am.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	12 minutes	1.05 out of 2

Score for this quiz: 1.05 out of 2

Submitted Mar 9 at 1:28pm

This attempt took 12 minutes.

	Question 1	0 / 0.1 pts
	An alternative appro	pach to multi-threading for concurrency is called -driven programming, which uses asynchronous I/O.
	Answer 1:	
ou Answered	thread	
orrect Answer	event	
orrect Answer	events	

Question 2 0.2 / 0.2 pts

	After being put in the ready list, a thread may be in four states that		
	include, in alphabetic order, finished , ready ,		
	running , waiting . Please use alphabet order for		
	the first letter on all answers.		
	Answer 1:		
Correct!	Finished		
	Answer 2:		
Correct!	Ready		
	Answer 3:		
Correct!	Running		
	Answer 4:		
Correct!	Waiting		
	Question 3 0 / 0.15 pts		
	Which of the following is NOT a step performed by UNIX exec?		
ou Answered	initialize the hardware context to start execution at "start".		
orrect Answer	create a child process		
	O load the program prog into the current address space		
	copy arguments into memory in the address space.		

0.1 / 0.1 pts **Question 4** Almost all widely used operating systems take a similar approach to the architecture of the kernel where most of the OS functionalities run inside the kernel. **Correct!** True False 0.15 / 0.15 pts **Question 5** Which of the following functions is called for the main thread to wait for the termination of a child thread? thread exit thread_block thread wait

Correct!

Question 6

thread_join

0.15 / 0.15 pts

Involuntary kernel thread context switch follows three steps of what order?

- 1. Run the kernel's handler
- 2. Restore the state
- 3. Save the state

2, 3, 1

○ 1, 2, 3 ○ 1, 3, 2 ○ 3, 1, 2

Question 7

0.1 / 0.1 pts

The earliest implementations of Java Virtual Machine (JVM) implements a green thread, which is a pure user-level implementation.

Correct!

- True
- False

Question 8

0 / 0.15 pts

Which of the following is not a possible option for Multi-thread Process Implementation?

orrect Answer

- Single-threaded processes
- User-level threads without kernel support
- Using kernel threads

ou Answered

User-level threads with kernel support

Question 9

0.1 / 0.1 pts

Correct!

	nix fork returns only in the main thread.	
	O True	
	False	

```
0 / 0.4 pts
Question 10
Please fill the following blanks in the code (note that { is used for
substitution of [ due to the confusion with Canvas problem setting):
static void go(int n);
static thread_t threads{10};
int main() {
    // create threads
    for(int i=0;i<10;++i)
           NTHREADS
                              (&threads{i},
                                              char argc
 int arg
                     );
    // wait for thread termination
    for(int i=0;i<10;++i)
         thread_join ( int arg
                                            );
}
void go(int n) {
    thread_exit(100+n);
}
```

	}		
	Answer 1:		
ou Answered	NTHREADS		
orrect Answer	thread_create		
	Answer 2:		
ou Answered	char argc		
orrect Answer	&go		
	Answer 3:		
ou Answered	int arg		
orrect Answer	i		
	Answer 4:		
ou Answered	int arg		
orrect Answer	threads[i]		
	Question 11 0 / 0.15 pts		
	Which of the following is correct for condition variable "wait" function?		
	○ wait(lock)		
orrect Answer	○ wait(&lock)		
ou Answered	wait()		

○ wait(*lock)

-	Question 12	0.15 / 0.15 pts
	Which statement is correct for Hoare's Semantics on coimplementation?	ndition variable
orrect!	if(condition) then wait	
	while(!condition) then wait	
	if(!condition) then wait	
	while(condition) then wait	

	Question 13	0.1 / 0.1 pts
	Code based on semaphores is not uncommon, especially in systems.	operating
Correct!	True	
	○ False	

Quiz Score: 1.05 out of 2