

Quiz2

Due No due date	Points 1.6	Questions 10
Available Oct 2 at 2pm - Oct 2 at 2:30pm	30 minutes	Time Limit None

This quiz was locked Oct 2 at 2:30pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	19 minutes	1.2 out of 1.6

Score for this quiz: **1.2** out of 1.6
Submitted Oct 2 at 2:20pm
This attempt took 19 minutes.

Question 1

0.1 / 0.1 pts

An alternative approach to multi-threading for concurrency is called

event

-driven programming, which uses asynchronous I/O.

Answer 1:

event

Correct!

Correct 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.
	<hr/>
	Answer 1:
Correct!	Finished
	<hr/>
	Answer 2:
Correct!	Ready
	<hr/>
	Answer 3:
Correct!	Running
	<hr/>
	Answer 4:
Correct!	Waiting

	Question 3	0.15 / 0.15 pts
	Which of the following is NOT a step performed by UNIX exec?	
	<hr/>	
	<input type="radio"/> load the program prog into the current address space	
Correct!	<input checked="" type="radio"/> create a child process	
	<hr/>	
	<input type="radio"/> copy arguments into memory in the address space.	
	<hr/>	
	<input type="radio"/> initialize the hardware context to start execution at "start".	

	Question 4	0.1 / 0.1 pts
	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

Question 5

0.15 / 0.15 pts

Which of the following functions is called for the main thread to wait for the termination of a child thread?

☐ thread_wait

Correct!

☒ thread_join

☐ thread_block

☐ thread_exit

Question 6

0 / 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

☐ 1, 3, 2

You Answered

☒ 1, 2, 3

Correct Answer

☐ 3, 1, 2

☐ 2, 3, 1

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?

Incorrect Answer

☐ Single-threaded processes

☐ Using kernel threads

☒ User-level threads without kernel support

☐ User-level threads with kernel support

You Answered

Question 9

0 / 0.1 pts

Unix fork returns only in the main thread.

You Answered

☒ True

Incorrect Answer

☐ False

Question 10**0.4 / 0.4 pts**

Please fill the following blanks in the code:

```
static void go(int n);
```

```
static thread_t threads{10};
```

```
int main() {
```

```
    // create threads
```

```
    for(int i=0;i<10;++i)
```

```
        thread_create
```

```
        (&threads[i],
```

```
        &go
```

```
,
```

```
        i
```

```
    );
```

```
    // wait for thread termination
```

```
    for(int i=0;i<10;++i)
```

```
        thread_join (
```

```
        threads[i]
```

```
    );
```

```
}
```

```
void go(int n) {
```

```
    thread_exit(100+n);
```

```
}
```

```
}
```

Answer 1:

Correct!

thread_create

Answer 2:

Correct!

&go