

# Quiz: Introduction to Concurrency

Total points 29/29

Take the quiz solo, but feel free to consult a partner student, the book, the videos or other resources if needed. Re-take quiz if your score is less than 80% or if you just want some more practice.

The respondent's email (**parth2@pdx.edu**) was recorded on submission of this form.

✓ All parallel programs are concurrent \* 5/5

☒ True



☐ False

✓ A process might be interrupted between any two instructions \* 5/5

☒ True



☐ False

✓ if a critical section is properly protected with lock/unlock of a mutex then 5/5  
only one thread can execute within the critical section at a time. \*

☒ True



☐ False



✓ A modern OS can achieve atomicity by temporarily suspending interrupts \*

5/5

☐ True

☒ False



Match the synchronization primitive with its primary methods. \*

	mutex	condition variable	Score	
lock()	<input checked="" type="radio"/>	<input type="radio"/>	1/1	✓
unlock()	<input checked="" type="radio"/>	<input type="radio"/>	1/1	✓
wait()	<input type="radio"/>	<input checked="" type="radio"/>	1/1	✓
signal()	<input type="radio"/>	<input checked="" type="radio"/>	1/1	✓



✓ In the C language, the \_\_\_\_\_ keyword is a qualifier that is applied to 5/5 a variable when it is declared. It tells the compiler that the value of the variable may change at any time--without any action being taken by the code the compiler finds nearby. \*

- ☐ const
- ☐ void
- ☐ auto
- ☐ unsigned
- ☒ volatile
- ☐ synchronized



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