

Quiz - Condition Variables

Total points **30/30**

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 (**faiyaz@pdx.edu**) was recorded on submission of this form.

✓ When pthread code calls `signal()` on a condition variable, which of the threads waiting on that condition variable will wake up and run as a result of the `signal()` *5/5

☐ only the thread that least recently began to wait on the condition variable

☐ only the thread that most recently began to wait on the condition variable

☒ one or more threads waiting on the condition variable



☐ none of the threads waiting on the condition variable

✓ According to the lecture/slides, how many condition variables are needed for a bug-free implementation of the Producer/Consumer pattern? *5/5

☐ as many as the total number of threads in the system

☐ 1

☐ none

☐ as many as the number of slots in the shared buffer

☒ 2



✓ When you need your threads to take turns then you should use condition variables *5/5

☒ True



☐ False

✓ Use of mutex is optional when using condition variables * 5/5

☐ True

☒ False



✓ When a thread returns from a wait() call it will be holding the associated mutex *5/5

☒ True



☐ False

✓ Always acquire (lock) the mutex before calling signal() or wait() * 5/5

☒ True



☐ False

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