



Congratulations! You passed!

TO PASS 80% or higher

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100%

Practice Quiz: When Slowness Problems Get Complex

TOTAL POINTS 5

1. Which of the following can cache database queries in memory for faster processing of automated tasks?

1 / 1 point

- ☐ Threading
- ☐ Varnish
- ☒ Memcached
- ☐ SQLite



Correct

You nailed it! Memcached is a caching service that keeps most commonly accessed database queries in RAM.

2. What module specifies parts of a code to run in separate asynchronous events?

1 / 1 point

- ☐ Threading
- ☐ Futures
- ☒ Asyncio
- ☐ Concurrent



Correct

Awesome! Asyncio is a module that lets you specify parts of the code to run as separate asynchronous events.

3. Which of the following allows our program to run multiple instructions in parallel?

1 / 1 point

- ☒ Threading
- ☐ Swap space
- ☐ Memory addressing
- ☐ Dual SSD



Correct

Woohoo! Threading allows a process to split itself into parallel tasks.

4. What is the name of the field of study in computer science that concerns itself with writing programs and operations that run in parallel efficiently?

1 / 1 point

- ☐ Memory management
- ☒ Concurrency
- ☐ Threading
- ☐ Performance analysis



Correct

Right on! Concurrency in computer science is the ability of different sections or units of a program, algorithm, or problem to be executed out of order or in partial order, without impacting the final result.

5. What would we call a program that often leaves our CPU with little to do as it waits on data from a local disk and the Internet?

1 / 1 point

- ☐ Memory-bound
- ☐ CPU-bound
- ☐ User-bound
- ☒ I/O bound



Correct

Right on! If our program mainly finds itself waiting on local disks or the network, it is I/O bound.

