

GO Practice Test Questions and Answers

1. What is a goroutine leak?

- A) A goroutine that uses too much memory
- B) A goroutine that never terminates and is never garbage collected
- C) A goroutine that panics silently
- D) A goroutine blocked on I/O

2. What does `go mod tidy` do?

- A) Formats go.mod file
- B) Removes unused dependencies and adds missing ones in go.mod
- C) Updates all dependencies to latest
- D) Deletes the module cache

3. What is a type assertion in Go?

- A) Declaring a variable as a specific type at compile time
- B) Extracting the concrete value and type from an interface at runtime
- C) Casting between numeric types
- D) Checking interface satisfaction at compile time

4. What does `go mod download` do?

- A) Downloads and installs all binaries
- B) Downloads all modules in go.mod to the local module cache without installing
- C) Updates go.mod to latest versions
- D) Downloads the Go toolchain

Answers: 1-B 2-B 3-B 4-B

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