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again

1. What line of code could be used to define a loop which iteratively reads from a channel **ch1**?

1 / 1 point

- ☐ for i <- ch1
- ☒ for i := range ch1
- ☐ for i, err <- range ch1
- ☐ for i := ch1

✓ **Correct**
Correct!

2. What does the **select** keyword do?

0 / 1 point

- ☐ Executes a set of case statements.
- ☐ Allows a choice of channels to wait on.
- ☐ Chooses the greatest of a set of numbers.
- ☒ Chooses an element from a list based on a user-defined criterion.

✗ **Incorrect**
Select does not choose from an array.

3. What is the meaning of the **default** clause inside a **select**?

1 / 1 point

- ☒ The default clause is executed if all case clauses are blocked.
- ☐ The default clause is executed before any case clause is executed.
- ☐ The default clause is executed after any case clause is executed.
- ☐ The default clause is executed only if a case clause is executed.

☒ **Correct**
Correct!

4. Suppose that there are two goroutines, g1 and g2, which share a variable x. X is initialized to 0. The only instruction executed by g1 is **x = 4**. The only instruction executed by g2 is **x = x + 1**. What is a possible value for x after both goroutines are complete?

1 / 1 point

- I. 0
- II. 1
- III. 4
- IV. 5

- ☐ I and II only.
- ☐ II and III only.
- ☐ I, II, and III but not IV.
- ☒ II, III, IV, but not I.

☒ **Correct**
Correct!

5. What is mutual exclusion?

0 / 1 point

- ☒ When a single goroutine can execute only one of two blocks of code.
- ☐ When a single goroutine cannot execute a block of code.

- ☐ When multiple goroutines cannot execute blocks of code concurrently.
- ☐ When a single goroutine is the only goroutine which ever accesses a variable.

☒ **Incorrect**
Mutual exclusion constrains 2 or more goroutines.

6. What is true about deadlock?

1 / 1 point

- I. It can always be detected by the Golang runtime
- II. Its caused by a circular dependency chain between goroutines
- III. It can be caused by waiting on channels

- ☐ I and II only.
- ☒ II and III only.
- ☐ I and III only.
- ☐ I, II, and III.

☒ **Correct**
Correct!

7. What is the method of the sync.mutex type which must be called at the beginning of a critical region?

1 / 1 point

- ☒ Lock()
- ☐ Unlock()
- ☐ Take()
- ☐ Block()

☒ **Correct**
Correct!

