1. **What does the go keyword do in Go?**
   * Declares a variable
   * Defines a function
   * Starts a new goroutine
   * Imports a package
2. **What is the default value of an uninitialized int variable in Go?**
   * 0
   * null
   * Undefined
   * 1
3. **Which of the following defines a constant in Go?**
   * const x = 10
   * constant x = 10
   * var const x = 10
   * const x: int = 10
4. **Which of the following is a bitwise operator in Go?**
   * ==
   * &
   * &&
   * +
5. **What does the := operator do in Go?**
   * Defines a function
   * **Declares and initializes a variable**
   * Performs addition
   * Checks equality
6. **Which type in Go represents an empty interface?**
   * interface{}
   * interface{}{}
   * emptyInterface{}
   * empty{}
7. **Which of the following is true about slices in Go?**
   * Slices have a fixed size and cannot be resized.
   * Slices are immutable.
   * Slices are reference types and can grow in size.
   * Slices must always contain integers.
8. **Which statement correctly declares a map in Go?**
   * var m map[string]int
   * map[string]int m
   * m := map[string] int{}
   * All of the above
9. **Which function is used to delete a key-value pair from a map in Go?**
   * remove()
   * delete()
   * pop()
   * clear()
10. **What is the keyword used to define a function in Go?**
    * a) fn
    * b) def
    * c) func
    * d) function
11. **Which of the following is true about functions in Go?**
    * Go functions can return multiple values.
    * Go functions cannot return any value.
    * Go functions can only return one value.
    * Go functions must always return values.
12. **What is the purpose of the switch statement in Go?**
    * It is used to break out of a loop.
    * It is used to handle multiple conditions more efficiently.
    * It is used to call functions.
    * It is used to terminate the program.
13. **What is an interface in Go?**
    * A way to define a function signature.
    * A type that specifies a set of methods.
    * A type that specifies a value.
    * A data structure like a map.
14. **Which of the following types implements the fmt.Stringer interface?**
    * string
    * int
    * Any type that has a String() method.
    * interface{}
15. **What will happen if a type does not implement all methods of an interface?**
    * The program will fail to compile.
    * The program will run with default behavior.
    * A runtime error will occur.
    * The program will execute but ignore the interface.
16. **Which of the following is NOT a feature of Go's concurrency model?**
    * Goroutines
    * Channels
    * Mutexes
    * Shared memory for thread synchronization
17. **In Go, what is the purpose of the defer keyword?**
    * To declare a constant value
    * To schedule a function to be executed after the surrounding function returns
    * To create a new goroutine
    * To catch and handle errors in a function