```
import UIKit
//1.
class GameUser {
    let name: String
    var activity: Int = 0
    init(name: String) {
        self.name = name
    }
}
var user = GameUser(name: "Artemiy") {
     didSet{
        print("\(user.name)'s activity is \(user.activity)")
}
user.activity += 1
//You wanted to print the user's activity each time it changes, but nothing is
   printed. Why? And what simple change can you provide to make that work?
//2. Tallinn Coordinates: (59.437222 lat, 24.745278 long)
struct Location {
    let latitude: Float
    let longitude: Float
}
/*
    I'm not defining any initialiser directly, can I still create an instance
       of Location with Tallin's coordinates without adding any additional
       code?
    If no, write a code that should be added?
    If yes, initialise the instance. How would you know which one of two
       floats passed will be used for latitude and which one for longitude?
*/
//3. Current estonian president is Kersti Kaljulaid.
class President {
    let name: String
    let surname: String
}
/*
    I'm not defining any initialiser directly, can I still create an instance
       of President with current president data without adding any additional
       code?
    If no, write a code that should be added?
    If yes, initialise the instance. How would you know which one of two
       strings passed will be used for name and which one for surname?
*/
//4. Initialise a teacher role:
struct User {
    enum Role {
        case student, teacher
    }
```

```
let role: Role
    let name: String
//let teacherRole =
//5. Consider you're writing a code using a MVC design pattern only. Which of
   three roles will you define for Int?
//6.
enum Background {
    case color(UIColor)
    case clear
enum Winner: Int {
    case gold, silver, bronze
//What is the type of associated value that color case has? What is the raw
   value type in Winner enum?
//7.
class Server {
    let domain: String
    var port: Int
    weak var manager: ConnectionManager?
    init(domain: String, port: Int) {
        self.domain = domain
        self.port = port
    }
}
class ConnectionManager {
    var server: Server?
}
let connectionManager: ConnectionManager? = ConnectionManager()
let apple = Server(domain: "apple.com", port: 443)
let anotherApple = apple
anotherApple.port = 80
let google: Server? = Server(domain: "google.com", port: 443)
google?.manager = connectionManager
connectionManager?.server = apple
/*
    In these question write how many references each object has after all the
       code was called
     google server object:
     apple server object:
     connection manager object:
*/
//8. What is wrong with this code? And how can you fix it (if I still want a
   property 'name')
enum Fruit {
    case orange, apple
    let name = "fruit"
}
```