

SWIFT

1. Are closures value or reference types?

Reference type

2. What are the main differences between classes and structs in Swift?

Class - reference type

Supports inheritance

It uses heap memory comparing struct it will be slow

Struct - value type

Does not support inheritance

It uses stack memory little bit faster

3. What is the issue in this code and please fix it.

- a. `1var userFavoriteMovie = UserDefaults.standard.string(forKey: "userFavoriteMovie")!`
- b. `2print(userFavoriteMovie)`
- c.

String for key here if we have an value for that key

"userFavoriteMovie" this code will run

If the value not available it will crash the app.

We need to check before the key has value using optional binding

If let value = user defaults.standard.string(forKey: "userfavoriteMovie" {

}

4. Can you optimize this code?

- a. `1var playerName: String?`
- b. `2////some code that updates playerName`
- c. `3if playerName != nil {`
- d. `4 print(playerName)`
- e. `5} else {`
- f. `6 print("NA")`
- g. `7}`
- h.

If let name = playername {

Print(player name)

}

```
else {  
print(na)  
}
```

5. What's the Difference Between Structures and Classes?

6. Simplify:

```
7. 1var assetsTitle = ["tanglin", "118", "c8 drama", "c5 drama"]  
8. 2assetsTitle.sort { (one: String, two: String) -> Bool in  
9. 3         return one < two  
10.4        }  
11.5print(assetsTitle)
```

```
assertTitle.sort($0 < $1)
```

7. What is the difference between MVC and MVVM?

MVC - Model view controller

Here in view controller we write all the logics and code it will be more no of lines

MVVM - Model view view model

**Here we separate our business logic in to view model class
That also very helpful at the time of unit testing.
Code separation and testing purpose mvvm will be useful**

8. What are the advantages of Swift over Objective C?

- **Swift is very fast compared to objective c**
- **Apple itself told swift is fast**

Swift is type safety and memory safety

It supports dynamic libraries

We have Abi stability in swift

9. Give 5 of your favorite swift higher order functions and their uses.

Filter

Filter an array based on some condition

MAP

Using map we can transform our model to specific type

Reduce

Using some condition we can reduce our array,

Eg:we can add all the elements in array

Compact map

Sorted.

10. What are the classes responsible in playing a video in iOS/TVOS?

AVFoundation

Avplayer

Avplayeritem

11. Discuss the DRM implementation in iOS/TVOS.

DRM implementation is same for ios and tvos -it uses fairplay drm streaming framework

12. How does adaptive streaming works in iOS?

It works based on users bandwidth and memory capacity.

GIT

1. What is the difference between merge and rebase?

rebase creates a single commit without preserving source branch commits history. merge will preserve the commit history and only modifies the target branch

2. Describe a PR review process.

If the team member completed one features then he will raise a pull request that feature to main branch.

I will review that change and its correct implementation I will approve and merge with the main branch

3. Name a bugfix branch and first commit message to a JIRA Ticket with ID equals to **MTT-333**

- a. What is the branch name?
- b. What will be the first commit message looks like?

Bugfix - MTT-333

Mention the issue and fixed.

4. What is the git command for adding a new remote in your local repo?

git remote add <remote name> <remote url>

5. Give the top git commands a developer should know for his/her everyday life.

Git init to initialise

ls -a view hidden files

Git status - view staging files(not committed (only working directory)

Git add - file name to add (now only its staging area)

Git commit -m(message)

Git log to view commits

Git add . (.all files)

Git checkout filename. From local repo (current will be deleted from repo latest come)

Git diff filename to get diff

From github

Yo add existing local git to GitHub

Git remote add origin name

Git push -u origin master

Git ignore

Touch .gitignore
Open .gitignore

Git rm — cached -r remove from staging area