1, Which of the following statments is true about the similar and different between Struct and Class ?

Conform to protocols to provide standard functionality of a certain kind (sai : same)

Define subscripts to provide functionality to their values using subscript syntax ( sai : same)

Type casting enables you to check and interpret the type of a class instance at anytime. (anytime)

Deinitializers enable an instance of a class and struct to free up any resources it has assigned. (sai)

2. In the following reasons, which is the reason for memory leak?

Too much data are saved in cache

Retain circle

Using static variable

Too much global variables are used

3. Select right answer about array, set and dictionary.

An array stores values of the same type in an ordered list. One value can only appear once (false)

A set stores non-distinct values of the same type in a collection with no defined ordering. (false : A set stores distinct values of the same type in a collection with no defined ordering.)

A type must be hashable in order to be stored in a set (true)

"Key" and "Value" must be hashable type in order to be stored in a dictionary (false : Key must be Hashable types, Value can be any kind of types)

4, What is quality of services Concurrent queue are ordered from hight to low ?

UserInitiated, UserInteractive, Utility, Background

UserInteractive, UserInitiated, Utility, Background

UserInitiated, UserInteractive,Background, Utility

UserInteractive, UserInitiated, Background, Utility

5, Does Swift have multiple inheritance?

Yes

No

6, What is the mechanism of delegate pattern ?

Hear - call

Authorization

Synchronized

Asynchronous

7, What is the effect of the weak keyword?

Increase retain count to 1

Decrease retain count to 1

Does not increase retain count

Increasing or decreasing retain count depends on the available memory

(https://learnappmaking.com/weak-vs-strong-references-swift/)

8. var a = 15

var b = 0

a < 10 ? b = 15 : a > 5 ? (b = -1) : (b = 7)

Which is value of b?

-1

7

15

0

9, What is Optional chaining ?

It is a process for querying and calling properties, methods, and subscripts on an optional that might currently not be nil

Change optional from nil to a specific value

Change the value of optional to nil

It is a process for querying and calling properties, methods, and subscripts on an optional that might currently be nil

10, Which of the following stament is true about Overload's definition when fill in the blank ? "the process of creating two or more than two functions with the same name but having ..."

different number or types of parameters returned

different number or types of parameters passed

different number or types of parameters passed but same number or types of parameters returned

same number or types of parameters passed but different number or types of parameters returned

11, Which of these following symbols does not refer to Optional ?

! (true)

? (true)

!!

?? (true)

12, Given the following code:

var x = 0

repeat {

print(x++)

print(++x)

} while x < 9

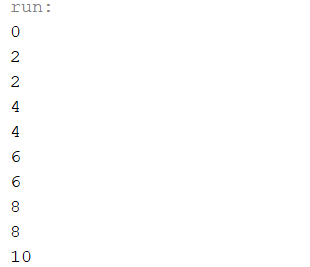
what is the 5th element to be printed to the screen ?

2.0

4.0

6.0

8.0



13, Given the following function: func sort(\_ array: [Int]) -> [Int] { guard array.count > 1 else { return array } let middleIndex = array.count / 2 let leftArray = sort(Array(array[0..

Merge Sort

Heap Sort (https://dnmtechs.com/thuat-toan-sap-xep-vun-dong-heap-sort/)

Quick Sort

Bucket Sort