



Piscine iOS Swift - Day 02

Death Note

Résumé: This document contain the subject for Day 02 for Piscine iOS Swift from [42](#)

Table des matières

I	Preamble	2
I.1	Ramen (Japanese noodles) with fried shrimp	2
I.1.1	Ingredients (4 servings))	2
I.1.2	Preparing the recipe	3
II	Instructions	4
III	Introduction	5
IV	Exercice 00 : TableView	6
V	Exercice 01 : Turn the page	7
VI	Exercice 02 : Who will die ?	8
VII	Exercice 03 : You will die	10
VIII	Exercice 04 : Custom Death	11
IX	Exercice 05 : Unleash your power	12

Chapitre I

Preamble

Thanks to Marmiton for this recipe :

I.1 Ramen (Japanese noodles) with fried shrimp



Preparation time : 5 minutes

Cooking time : 10 minutes

I.1.1 Ingredients (4 servings))

- 500 g of ramen (Japanese noodles, in the "exotic grocery" section of the supermarket)
- 2 carrots
- 2 small leeks
- 400 g of small peeled shrimps (frozen)
- 1 garlic clove
- 2 tablespoons of peanut oil
- Salt, pepper, soy sauce and sesame oil depending on your taste...

I.1.2 Preparing the recipe

Thinly slice the leeks and carrots with a razor, cut them into strips and cut them into "filaments" with a knife.

Chop the garlic clove.

Heat a tablespoon of peanut oil in a frying pan or skillet.

When it is very hot, throw the carrots and the leeks, and stir constantly for 2 min (they must remain crunchy).

Add the garlic clove and a pepper mill tower, then store in a dish.

Defrost shrimp by panning 2 min over high heat.

Add to vegetables by reserving 2 or 3 tablespoons of the liquid prepared.

Sauté the noodles in a spoonful of peanut oil for 1 min (They have to detach and start to color).

Add the water made by shrimp, salt, soy sauce, sesame oil (in small quantities : a few drops are sufficient in general, because it is very fragrant) and vegetables.

Stir another 1 min over high heat, and serve quickly.

Chapitre II

Instructions

- Only this page will serve as reference. Do not trust rumors.
- Read attentively the whole document before beginning.
- This document can change up to an hour before submission.
- Your exercises will be corrected by your piscine colleagues.
- The document can be relied upon, do not blindly trust the demos which can contain unrequired additions.
- You will have to deliver an app every day (except for Day 01) on your git repository, where you deliver the file of the Xcode project.
- Here it is the official manual of [Swift](#) and of [Swift Standard Library](#)
- It is forbidden to use other libraries, packages, pods...before Day 07
- Got a question ? Ask your peer on the right. Otherwise, try your peer on the left.
- Think about discussing on the forum Piscine of your Intra !
- Use your brain!!!



The videos on Intra were produced before Swift 3. Remove the prefix "NS" which you see in front of the class/struct/function in the code in the videos in order to use them in Swift 3.



Intra indicates the date and the hour of closing for your repositories. This date and hour also corresponds to the beginning of the peer-evaluation period for the corresponding piscine day. This peer-evaluation period lasts exactly 24h. After 24h passed, your missing peer grades will be completed with 0.

Chapitre III

Introduction

[Death Note](#) Is a manga in which Light Yagami is the owner of a notebook of death. The person whose name is written in this book dies inevitably.

Today you will learn how to create a very simple Death Note simulation application. You will need to be able to display a name, date and description of the death of the persons and you will need to be able to add them.

This day will allow you to understand how the **table views** works that are used extensively in iOS applications. It is a way of presenting similar data.

This day will also teach you how to change your view on an application and how to go back to an old view.

Chapitre IV

Exercice 00 : TableView

	Exercice : 00
	TableView
	Fichiers à rendre : .xcodeproj and all the necessary files
	Fonctions Autorisées : Swift Standard Library, UIKit
	Remarques : n/a

For this first exercise you will create a **table view** and display the name and description of the death of 3 different people in the **table view** cells.

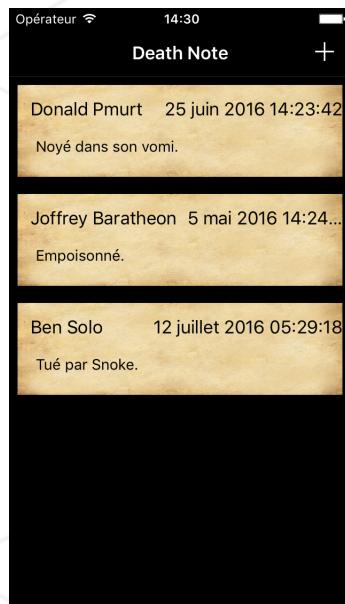
Chapitre V

Exercice 01 : Turn the page

	Exercice : 01
	Turn the page
	Fichiers à rendre : .xcodeproj and all the necessary files
	Fonctions Autorisées : Swift Standard Library, UIKit
	Remarques : n/a

Add a **navigation bar** to your application. From now on you will have to put a title to all your views.

Add a button in the right slot of the **navigation bar** which allows you to go to another view (empty at the moment). We must be able to go backwards thanks to the **navigation bar**.



Chapitre VI

Exercice 02 : Who will die ?

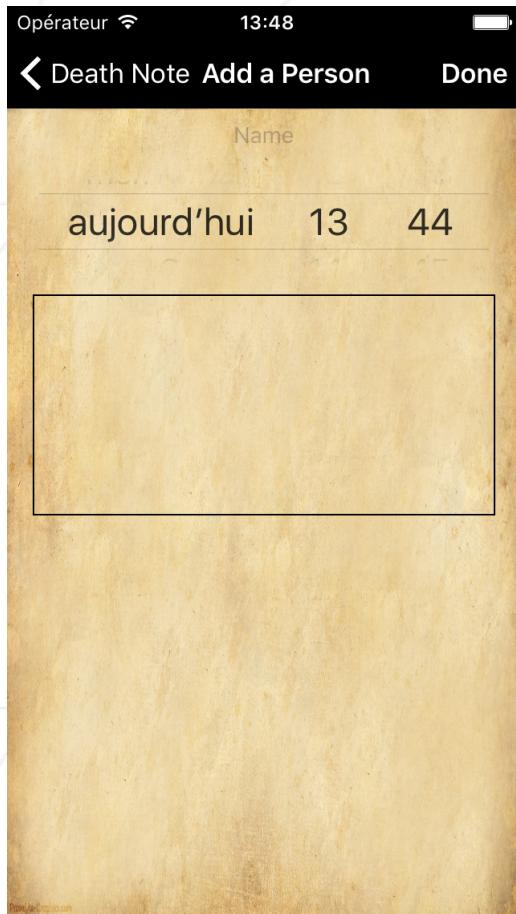
	Exercice : 02
	Who will die ?
	Fichiers à rendre : .xcodeproj and all the necessary files
	Fonctions Autorisées : Swift Standard Library, UIKit
	Remarques : n/a

We will now take care of the second view which will allow to add entries to our **table view**.

Add these fields :

- A field for writing the person name
- Another one for the description. It must be bigger and you have to be able to write on several lines.
- An **date picker** for the date of death. You should not be able to choose a past date.

Add an **Done** button on the right side of **navigation bar** which display in the console all the informations written in this form.



The autolayout must works correct on all devices!

Chapitre VII

Exercice 03 : You will die

	Exercice : 03
	You will die
	Fichiers à rendre : .xcodeproj and all the necessary files
	Fonctions Autorisées : Swift Standard Library, UIKit
	Remarques : n/a

Make sure that the **Done** button sends us back to the first view and displays the new person we just entered in the **table view**.



If the name field is empty, no one should be added.
If ONLY the description field is empty, the person is still added.



We have to RETURN to the first view and not instantiate it again.

Chapitre VIII

Exercice 04 : Custom Death

	Exercice : 04
	Custom Death
	Fichiers à rendre : .xcodeproj and all the necessary files
	Fonctions Autorisées : Swift Standard Library, UIKit
	Remarques : n/a

Change the cell type of the **table view** to the type **Custom**. You will create your own cells as you wish, but they must contain the name, description and date of the death of all persons added in the second view.



Do not forget to check that the application is correctly displayed on all devices.

Chapitre IX

Exercice 05 : Unleash your power

	Exercice : 05
	Unleash your power
	Fichiers à rendre : .xcodeproj and all the necessary files
	Fonctions Autorisées : Swift Standard Library, UIKit
	Remarques : n/a

Normally you should realize that the cells are not all adapted to their contents. Some are too large and some are too small depending on the number of lines contained in the description field.

You will solve this problem by making cells with dynamic heights.

