



## Piscine iOS Swift - Day 02

### Death Note

*Summary:* This document contains the subject for Day 02 of the iOS Swift piscine of [42](#)

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# Chapter I

## Preamble

Here is a shrimp ramen recipe from the Food Network:

### I.1 Ramen (japanese noodles) with shrimps



Prep time: 20 minutes

Cook time : 20 minutes

#### I.1.1 Ingredients (serves 2)

- 2 cups chicken broth
- 4 tablespoons mirin
- Juice of 1/2 lime
- 2 teaspoons dark sesame oil
- 1 teaspoon asian fish sauce
- 1/2 teaspoon chili paste
- 2 3 ounce packages ramen noodles broken into large pieces (discard the seasoning packets)

- 10 large shrimps peeled and deveined
- 1/2 cup sliced shiitake mushrooms
- 1/4 cup thinly sliced shallots
- 1/4 cup thinly sliced green onions
- Fresh coriander for garnish

### I.1.2 Method

1. Preheat the oven to 200°C.
2. Combine the chicken broth, mirin, soy sauce, lime juice, sesame oil, fish sauce and chili paste in a large bowl.
3. Make the pouches: Place 2 large sheets of foil side by side on a work surface. Top each with an 11-by-15-inch piece of parchment. Divide the noodles between the 2 pieces of parchment. Top with the shrimp, mushrooms, shallots and green onions. Lift the sides of each piece of foil to create a bowl-like shape. Pour some of the chicken broth mixture over the noodles. Bring the top of the parchment together and fold the edges to form a seal, making sure not to leak any liquid. (The foil should remain open like a bowl.)
4. Transfer the bowls to a rimmed baking sheet and bake until the shrimp is cooked and the noodles are tender, 15 to 20 minutes.
5. To serve, transfer the parchment pouches to serving plates and open, or pour the contents of the pouches into bowls. Garnish with the coriander.

# Chapter II

## Instructions

- Only this page will serve as reference. Do not trust rumors.
- Read attentively the whole document before beginning.
- Your exercises will be corrected by your piscine colleagues.
- The document can be relied upon, do not blindly trust the demos which can contain not required 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 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 a 0.

# Chapter III

## Introduction

[Death Note](#) is a Japanese manga series written by Tsugumi Ohba and illustrated by Takeshi Obata. The story follows Light Yagami, a teen genius[3] who stumbles across a mysterious otherworldly notebook: the "Death Note", which belonged to the Shinigami Ryuk, and grants the user the supernatural ability to kill anyone whose name is written in its pages.

Today, you will learn how to create a very simple application that will simulate Death Note. You will have to be able to display a name, a date and a death description of some people and will have to be able to add some.

You will learn how the **table views** work. They are used a lot in iOS applications. It's a way to present similar data.

Today, you will also learn how to change the view on an application and how to return to an older view.

# Chapter IV

## Exercise 00: TableView

	Exercice : 00
	TableView
	Files to turn in : Swift Standard Library, UIKit
	Authorised functions : n/a
	Notes : n/a

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

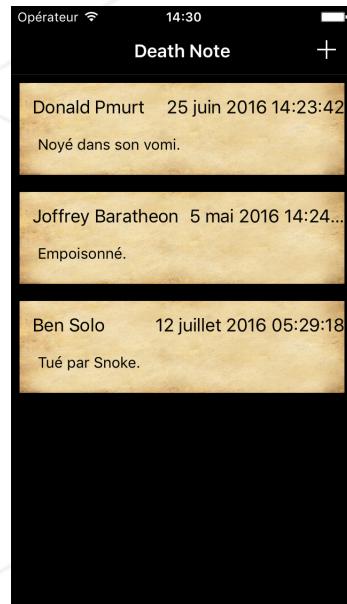
# Chapter V

## Exercise 01: Turn the page

	Exercice : 01
	Turn the page
	Files to turn in : Swift Standard Library, UIKit
	Authorised functions : n/a
	Notes : n/a

Add a **navigation bar** to your app. Now, you will have to give a title to all your views.

Add a button in the right slot of the **navigation bar** that leads to another view (empty for now). You must be able to go back thanks to the **navigation bar**.



# Chapter VI

## Exercise 02: Who will die?

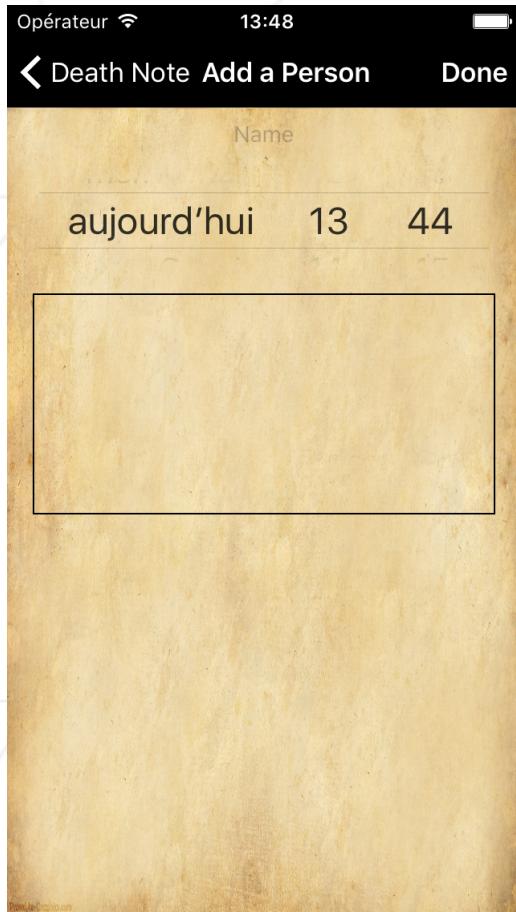
	Exercice : 02
	Who will die?
	Files to turn in : Swift Standard Library, UIKit
	Authorised functions : n/a
	Notes : n/a

You will now take care of the second view that will help you add entries to your **table view**.

Add these fields:

- A field to write the person's name
- Another one for the description. It must be larger and you must be able to write on several lines.
- A **date picker** for the date of death. You won't be able to choose a past date.

Add a **Done** button in the right slot of the **navigation bar** that displays all the provided informations in this form in console.



The autolayout must be correct on every device!

# Chapter VII

## Exercise 03: You will die

	Exercice : 03
	You will die
	Files to turn in : Swift Standard Library, UIKit
	Authorised functions : n/a
	Notes : n/a

Make sure the **Done** button takes you to the first view and displays the new person you've just entered in the **table view**.



If the field is empty, nobody must be added.  
If the description field is empty, the person is still added.



You must RETURN to the first view, not instantiate it again.

# Chapter VIII

## Exercice 04 : Custom Death

	Exercice : 04
	Custom Death
	Files to turn in : Swift Standard Library, UIKit
	Authorised functions : n/a
	Notes : n/a

Change the cell type of the **table view** to **Custom** type. You will create your own cells as you see fit, but they will have to include the name, description and date of death of everyone you will add in the second view.



Don't forget to check the application is properly displayed on all the devices.

# Chapter IX

## Exercice 05: Unleash your power

	Exercice : 05
	Unleash your power
	Files to turn in : Swift Standard Library, UIKit
	Authorised functions : n/a
	Notes : n/a

You should realize the cells don't necessarily fit their content. Some are too large, others too small according to the number of lines contained in the description field.

You will settle this problem creating cells with a dynamic height.

