

ARRAYS

Exercise 1 — Waiting for holidays...

Type the various instructions in this section, look carefully what happens and **take notes** (the use of a pen is not forbidden when interacting with a computer).

```
>>> days = []
>>> type(days)
>>> days = ["thursday", "friday", "saturday", "sunday", "sunday", "monday", "tuesday"]
>>> len(days)
>>> days = days + ["wednesday"]
>>> print(days)
>>> del(days[4])
>>> print(days)
>>> a = -1
>>> while a < 22:
    a = a + 1
    b = a % 7
    print(days[b], a + 1, "of october")
```

Exercise 2 — Print an array (of numbers)

Given an array `a` of numbers, we want to print it. Of course, `print(a)` would work, as we have just seen. But, instead of having commas, we want semi-colons. Write a function `array_print` that takes as input an array of numbers, and that prints the array as wanted.

- the call `array_print([32, 5, 12, 8, 3, 75, 2, 15])` must print:
[32; 5; 12; 8; 3; 75; 2; 15]

Remark: as a first step, the function may print [32; 5; 12; 8; 3; 75; 2; 15;].

Exercise 2 — Minimum, maximum of an array (of numbers)

1. Write a function `array_minimum` that takes as input an array of numbers, and that prints the minimum value in this array.
 - the call `array_minimum([32, 5, 12, 8, 3, 75, 2, 15])` must print:
The minimum value of this array is 2.
2. Write a function `array_maximum` that takes as input an array of numbers, and that prints the maximum value in this array.
 - the call `array_maximum([32, 5, 12, 8, 3, 75, 2, 15])` must print:
The maximum value of this array is 75.

The goal of this exercise is to use only loops, assignments and conditional statements, without using anything else provided by Python. In particular, I don't want you to use the functions `min` and `max` that would answer the question : in Python, `min([32, 5, 12, 8, 3, 75, 2, 15])` is precisely 2.

Exercise 3 — Evens and odds

Write a program that goes through all numbers in an array of integers and creates two new arrays. The first array will contain only the even numbers from the initial one, and the second array will contain only the odd numbers from the initial one.

- a call on the array [32, 5, 12, 8, 3, 75, 2, 15] must build two arrays:
evens that will be equal to [32, 12, 8, 2]
odds that will be equal to [5, 3, 75, 15].