# PYTHON EXERCISES

## EXERCISE 1(1/2)

Consider the list v1 below:

v1 = [2, 3, 1]

What is v1[1]

## EXERCISE 1(2/2)

Consider the dictionary v2 below:

 $v2 = \{2:0, 4:1, 1:3\}$ 

What is v2[1]?

### EXERCISE 2 (1/2)

#### Consider the list people below:

Write a function names() that takes in a list like this and returns just the names of the players such that

```
names(people) = ['Alice', 'Bob', 'Claire', 'David']
```

## EXERCISE 2 (2/2)

#### Consider the same list people below:

Write a function filter\_adult() that returns just the people over 18 years such that

### EXERCISE 3

- 1. Write a function odd\_even() that takes as input an integer and prints a message stating whether the number is even or odd
- 2. Write a function even\_divide that takes as input two numbers: one number to check (call it num) and one number to divide by (call it div) if div divides evenly into num, print an appropriate message. If not, print a different appropriate message

### EXERCISE 4

Define the following list li:

```
li = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]
```

- 1. Write a piece of code that prints out all the elements of the list that are strictly less than 13
- 2. Make a new list other\_li that has all the elements strictly less that 13 from li in it and print out this new list