# Questionnaires

## Questionnaire Week 6

1. **What is the main difference between a recursive function and a final recursive function?**
    - A final recursive is not actually recursive.
    - A recursive function is a function that calls itself. A final recursive isn't.
    - A recursive function is a function that calls itself. A final recursive function is a function that only calls itself.
    - A recursion function has a broken condition. A final recursive function doesn't.
2. **Given the following piece of code, which kind of function is it?**

```
def potencia (x,r,y):
    if (y==0):
        return r;
    return potencia(x,r*x,y-1)
```

    - Recursive Function
    - Final recursive Function
    - Iterative Function
    - None of the mentioned above
3. **Given the following piece of code, which kind of function is it?**

```
def potencia (x,y):
    cont = 0
    r = 1
    while (cont < y):
        r *= x
        cont += 1
    return r
```

    - Recursive Function
    - Final recursive Function
    - Iterative Function

- None of the mentioned above

4. **Given the following piece of code, which kind of function is it?**

```
def potencia (x, y):
    if (y == 1):
        return x
    return x * potencia(x, y-1)
```

- Recursive Function
- Final recursive Function
- Iterative Function
- None of the mentioned above

5. **Given the following python program, which is the print result?**

```
import timeit


statement = ‘map(lambda x: x+1, [1,2,3,4])’
t2 = timeit.Timer(statement)
print t2.timeit(100)
```

- The time of executing the lambda function.
- The time of printing 100.
- The time of executing 100 times the lambda function for the specified values.
- The time of executing 100 times the lambda function.
- None of the mentioned above