## Homework 03 - Project Revision

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- 1 Scheduled Interviews
- 2 Description of Topic
- 3 Empirical Goals
- 4 Response to Participant Questions
- 5 Non-Linear Interview Questions
- 6 Interview Sequence and Questions
- 7 Handouts

Attached below.

### Question 1.1

```
def func2(list, num):
    return func1(list, num, func4)

def func4(a, b):
    return a * b

def func1(list, num, f):
    acc = 0
    for i in list:
        acc += f(i, num)
    return acc

def main():
    print(func3([1,2,3,4]))

def func3(list)
    return func2(list, 4)
```

### Question 1.2

```
def function50(i, L):
    return L[i+2]

def function37(L):
    return L[-1]+L

def function52(i):
    return function4() * i

def function1(j, k):
    return (j + k) * function52(1)

def function4():
    return 3

def function188(L):
    return function37(L)+function50(2, L)

def function0():
    return function188([1,2,3,4,5,6,7,8,9])[function1(0,1)]
```

#### Question 2.1, File 1

#!/usr/bin/ruby
load "ourdate.rb"

d = OurDate.new(2011,1,4)
print "#{d.what\_day}"
print "We started writing this file today.\n"
d.forward\_time(365)
print "We are almost done now.\n"
print "#{d.what\_day}"

```
#!/usr/bin/env ruby
months31 = [1,3,5,7,8,10,12]
months30 = [4,6,9,11]
class OurDate
    attr_accessor :year
    attr_accessor :month
    attr_accessor :day
    def initialize(year, month, day)
        @year = year
        @month = month
        @day = day
    end
    def is_equal?( d )
        puts @year == d.year and
            @month == d.month and
            @day = d.day
    end
    def is_leap_year?
        if @year % 400 == 0
            puts 1
        elsif @year % 100 == 0
            puts nil
        elsif @year % 4 == 0
```

```
puts 1
    else
        puts nil
    end
end
def check_month
    if @month == 13
        0month = 1
        Qyear = Qyear + 1
    elsif @month == 0
        @month = 12
        @year = @year - 1
    end
end
def tomorrow
    @day = @day + 1
    if @day > 31
        for i in $months31
            if @month == i
                @day = 1
                Qmonth = Qmonth + 1
                check_month
            end
        end
    elsif @day > 30
        for i in $months30
            if @month == i
                @day = 1
                Qmonth = Qmonth + 1
```

```
check_month
            end
        end
    elsif @day > 28 and @month == 2
        @day = 1
        Qmonth = Qmonth + 1
        check_month
    end
end
def yesterday
    @day = @day - 1
    if @day == 0
        Qmonth = Qmonth - 1
        check_month
        for i in $months31
            if @month == i
                0day = 31
            end
        end
        for i in $months30
            if @month == i
                @day = 30
            end
        end
        if @month == 2
            0day = 28
        end
    end
end
```

```
def forward_time(n)
    for i in 0..n
        tomorrow
    end
end

def reverse_time(n)
    for i in 0..n
        yesterday
    end
end

def what_day
    puts "Today is #{month}/#{day}, #{year}!"
end
end
```