# Homework

Due: 25 Oct

## SimpleCalc-iOS Version

– classic "text field and buttons" display

- **ten digit buttons (0, 1, 2, ... 9)**
- **operations add, sub, mul, div, mod**
- **equals button**

– when user enters number, then operation, then number, then equals, calculate result

## SimpleCalc

– Add a few new (multi-operand) operations in

- **"count": count the number of input**

  10 count 4 count 25 equals => 3

- **"avg": average all the inputs**

  2 avg 4 avg 6 avg 8 avg 10 equals => 6

- **"fact": calculate factorial**

  5 fact => 60

- **fact can only accept one number**

# Homework

Details

- call this "simple-calc"

- iPhone 4.7-inch app (iPhone 6 screen)

- iOS 8 or 9

- only changes should be to Main.storyboard and ViewController.swift

## Grading: 5 points

- call the repo "simple-calc-iOS"

- 2 points for the basic mathematic operations

- 3 points (1 each) for the "extended" operations

## Extra credit: 2 points

- support decimal operations

## Extra extra credit: 2 points

- add a toggle between traditional and RPN functionality

  - **RPN = Reverse Polish Notation**
  - **different input style:**
    - 22 7 + (outputs 29)
    - 1 2 3 4 5 count (outputs 5)
  - **you will need some kind of "enter" key to indicate when the user is done entering a number**