Homework 1 - Calculator

iOS Application Development
NTU Mobile Phone Programming, 2012 Fall

Homework demo policy - I

- **Just demo your app. We won't check your source code.**
  We don't care about how you implement your homework. For example, the result of your calculator comes from a crowdsourcing API but not really calculated by your iPhone. Yeah, it's OK. We don't care.

Since you cannot install your app on your iOS device directly, **bring your Mac to demo.** Or you can borrow Mac mini in R430 for demo if you don't have one. You can **access your code from network or bring a USB drive**.

Btw, our mac mini runs Mac OS X 10.7 with Xcode 4.5 and iOS 6 SDK. If you wanna borrow ours, make sure about your code is ok in this environment.

Homework demo policy - II

- Full implementation of the spec - *10 points*.
- Unfinished implementation of the spec - *5 points*.
- Deadline: 11:59 PM, Wednesday, 10/03, 2012.

Homework demo policy - III

- After the first deadline *(11:59 PM, 10/03)*, you can still demo your homework to TA. But ...
- Full implementation of the spec - *5 points*.
- Unfinished implementation of the spec - *No points*.
- We won't accept any demo after 11:59 PM, Tuesday, 10/09, 2012.
  After the date, we only give 0 points even if it's a full-implemented one.

Homework demo policy - IV

- TA time will be announced later in Facebook group.
- Demo with TA for grading in TA time. Demo at NTU CSIE *R430* or *after the class.*
- Ask TA first if you cannot demo in scheduled TA time.
  TA don't stay in the R430 all the day for you.
- Only 10, 5, and 0 point. No other points argument.

HW1 Spec - I

- Just a simple calculator your grandma can use.
  Choose iPhone or iPad by yourself.

- A num-pad for her to input numbers including “.” (dot) and “+/-”, an “AC” button for resetting , 4 basic operations (+-×÷), and a display for her to check what she typed.

Updated in 2012/9/20 11:01 PM for typos

HW1 Spec - II

- She can calculate daily math problem with it like
  - ✳ 23×31=713
  - ✳ 12+5-7=10
  - ✳ -3+0.5=-2.5
  - ✳ 3700÷11=336.363636

HW1 Spec - III

- It's just a simple calculator your grandma can use, so "6+2×5" should get "40".
  Anyway, it's ok if yours gets "16". Maybe your grandma is a super woman, so she needs a calculator knows "Operator Precedence".
  More clearly, both "40" and "16" are ok for us. Both "40" and "16" give you the same points of this homework.

- You don't have to do "M+", "M-", and other memory functions.
  Even if you implement these, you wouldn't get any points from this.

Input: 12

Press: +

Input: 5

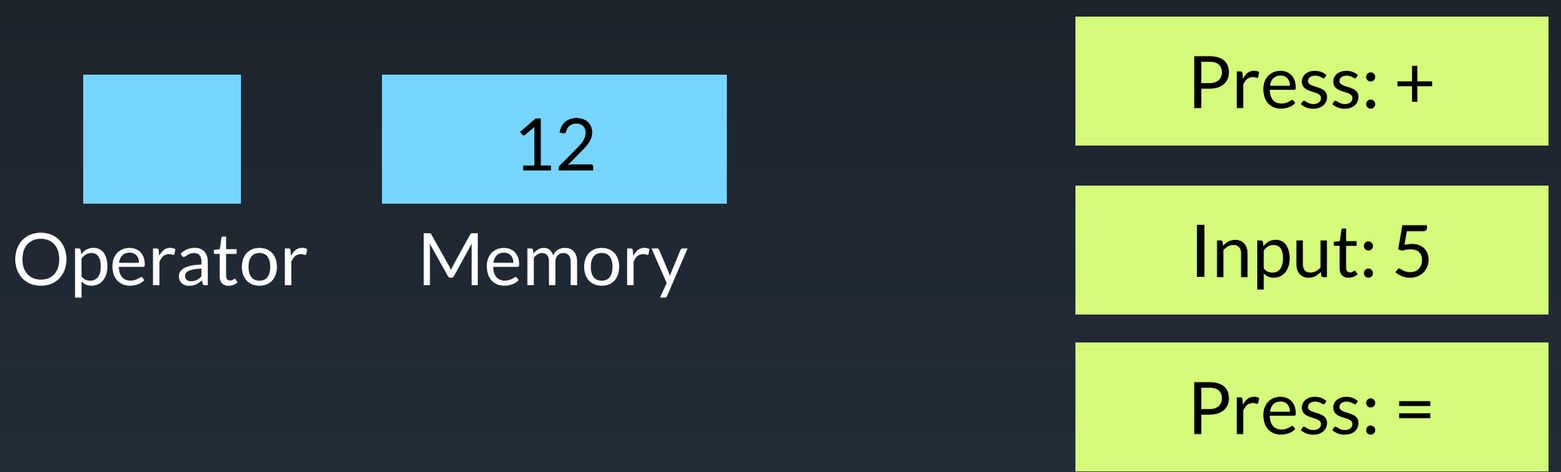
Press: =

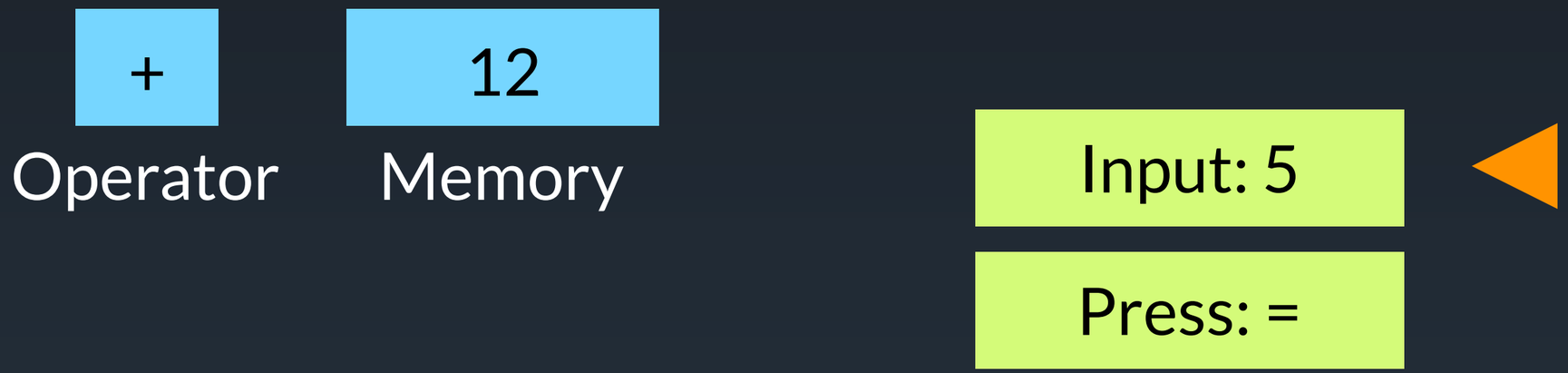
Input: 12

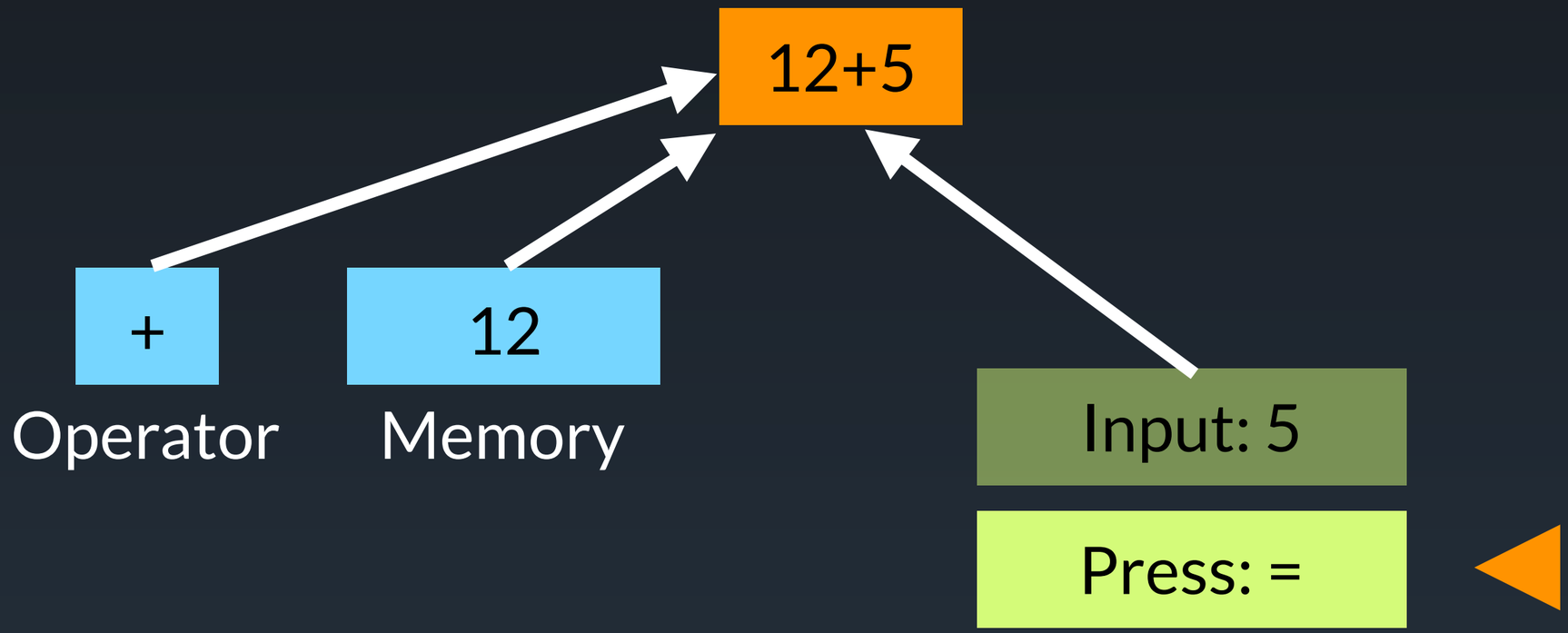
Press: +

Input: 5

Press: =


12
Operator
Memory
Press: +
Input: 5
Press: =

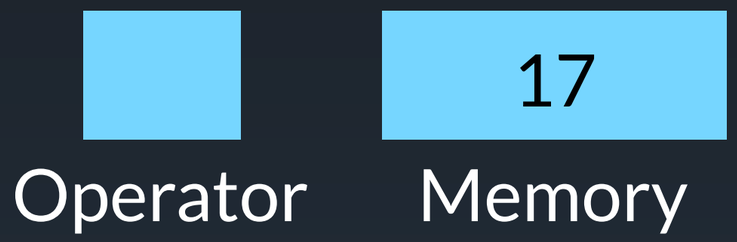

+
12
Operator
Memory
Input: 5
Press: =


12+5
+
12
Input: 5
Operator
Memory
Press: =

17

Operator Memory

Press: =


17
Operator
Memory