### **Announcements: Prelim 1**

- · Rooms:
  - aa200 jjm200 Baker Laboratory 200
  - jjm201 sge200 Rockefeller 201
  - Rockefeller 203 ■ sge201 – zz200
- · covers material up through today no assert, try-except
- What to study: A1, A2, Labs 1-6, old exam questions:
  - Fall 2016, 2015, 2014 call-frame/diagram questions need to be converted to our notation.
- Prelim will probably be closer in style to Spring 2013-2014 than more recent exams

### Prelim 1: Things that are not "fair game"

- Prelim 1 fall 2016: ignore 3b (too lecture-dependent)
- Prelim 1 spring 2016: ignore 1, 3, 6.
  - 4 is OK if you ignore the "if name == ..." line, and just assume all that stuff is script code to be run
- Prelim 1 fall 2015: ignore 4(a) solutions have typos
  - 4(c) not fair game (asserts)
- Prelim 1 spring 2015: ignore 2(b), 3(b), 5
  - For 1(b), imagine that variable s contains some arbitrary, unknown string (we didn't formally cover raw\_input)
- Prelim 1 fall 2014: ignore 2(e), 4(a)
- Prelim 1 spring 2013: question 6: change cunittest2 to cornelltest

The Map Function

#### **More Announcements**

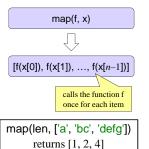
- A2: due *today*. Solutions released Thursday.
- Lab 6: due in two weeks
  - Tuesday 3/14 labs: open office hours

• A3: released sometime after Prelim 1

- Wednesday 3/15 labs: cancelled
- Thursday 3/9: optional in-class review session
- Tuesday 3/14: no lecture; office hours instead
  - Olin 155 during class times, Carpenter in between

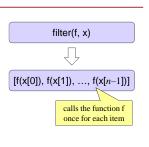
# map(\(\langle function\), \(\langle list\))

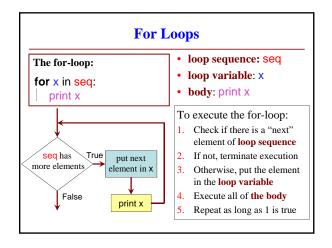
- - Function has to have exactly 1 parameter
  - Otherwise, get an error
  - Returns a new list

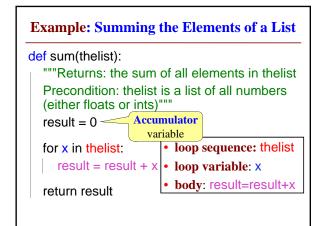


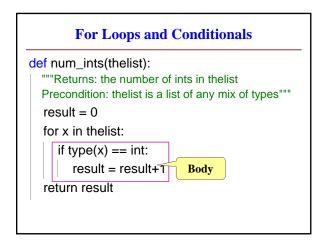
### **The Filter Function**

- filter(\(\langle Boolean\_function\),  $\langle list \rangle$ )
  - Function must:
    - · have exactly 1 parameter
    - return a Boolean
  - Returns a new list
- Returns elements of (list) for which (Boolean\_function), returns True









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