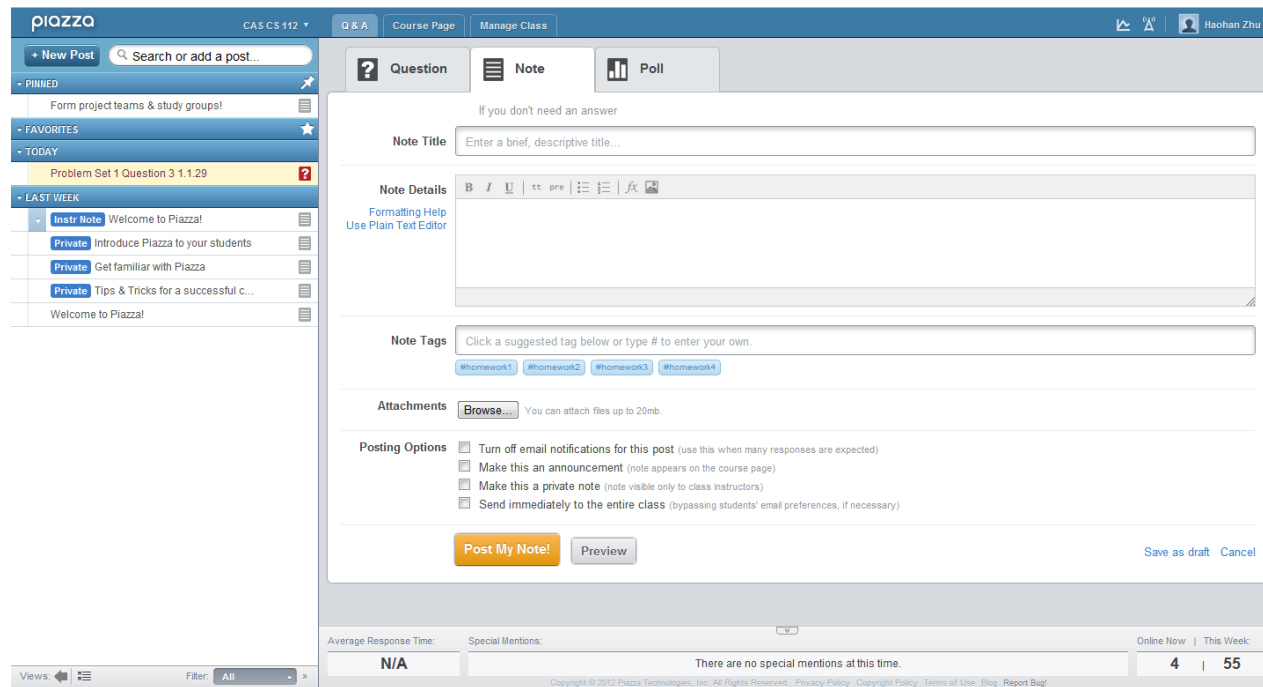


CS 112 - Fall 2012, Lab 01

Haohan Zhu

Using Piazza

- <http://www.piazza.com/bu/fall2012/cs112a1>
- Any question related to the course



The screenshot displays the Piazza interface for the course CAS CS 112. The top navigation bar includes 'Q & A', 'Course Page', and 'Manage Class'. The left sidebar shows a 'New Post' button and a search bar. Below the search bar are sections for 'PINNED', 'FAVORITES', 'TODAY', and 'LAST WEEK'. The 'TODAY' section highlights 'Problem Set 1 Question 3 1.1.29'. The 'LAST WEEK' section lists several posts, including 'Welcome to Piazza!' and 'Introduce Piazza to your students'. The main content area is for creating a 'Note'. It features a 'Note Title' field, a 'Note Details' field with a rich text editor, and a 'Note Tags' field with suggested tags like #homework1. There are also 'Attachments' and 'Posting Options' sections. The 'Posting Options' section includes checkboxes for 'Turn off email notifications for this post', 'Make this an announcement', 'Make this a private note', and 'Send immediately to the entire class'. At the bottom, there are buttons for 'Post My Note!', 'Preview', 'Save as draft', and 'Cancel'. The footer shows 'Average Response Time: N/A', 'Special Mentions: There are no special mentions at this time.', and 'Online Now: 4 | This Week: 55'.

Using WebSubmit

- <http://cs-websubmit.bu.edu/main.py?courseid=cs112>
- Submit all assignments via WebSubmit

Websubmit Application for cs112/zhu
[home](#) [logout](#)

Go to Project Page
Select a project page to view/upload submissions for a given assignment.

Labs...

Homeworks...

Check Grades
Click this button to check your grades.

Websubmit Application for cs112/zhu
<http://cs-websubmit.bu.edu/main.py>
Page generated at : Tue Sep 11 14:52:34 2012

Lab Sections and Office Hours

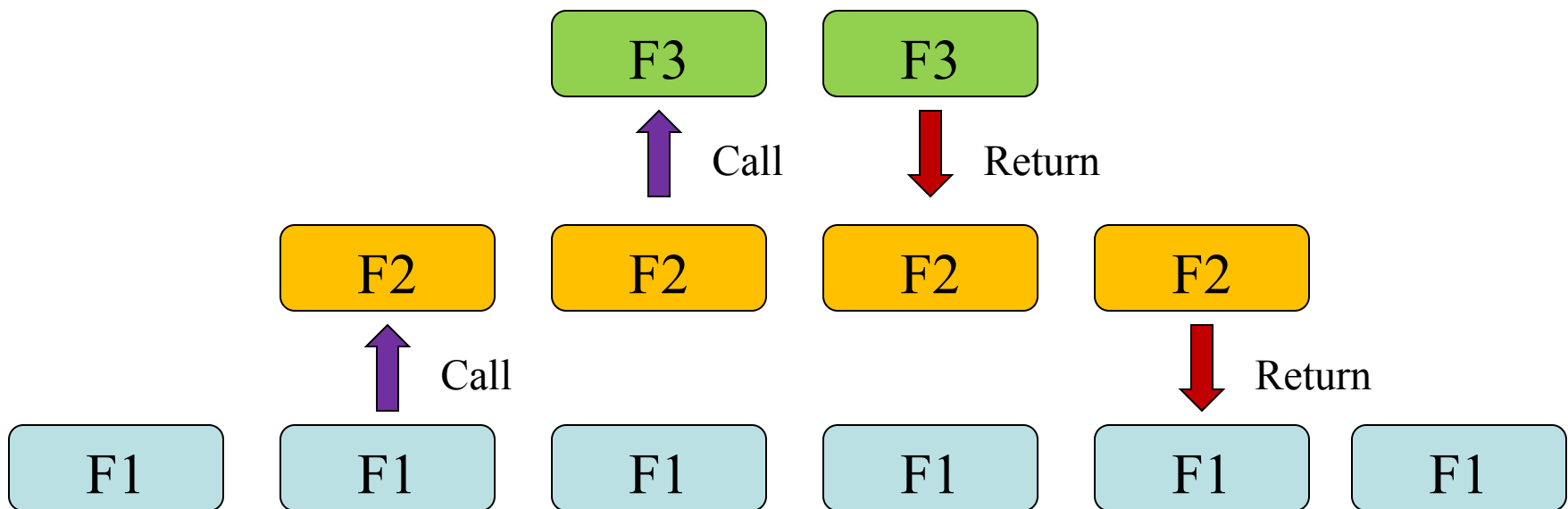
- Attendance

- Office Hours:
 - Tuesday. 5-6:30 p.m.
 - Wednesday. 3-4:30 p.m.

- Tutoring Hour:
 - <http://www.bu.edu/cs/resources/tutoring/>

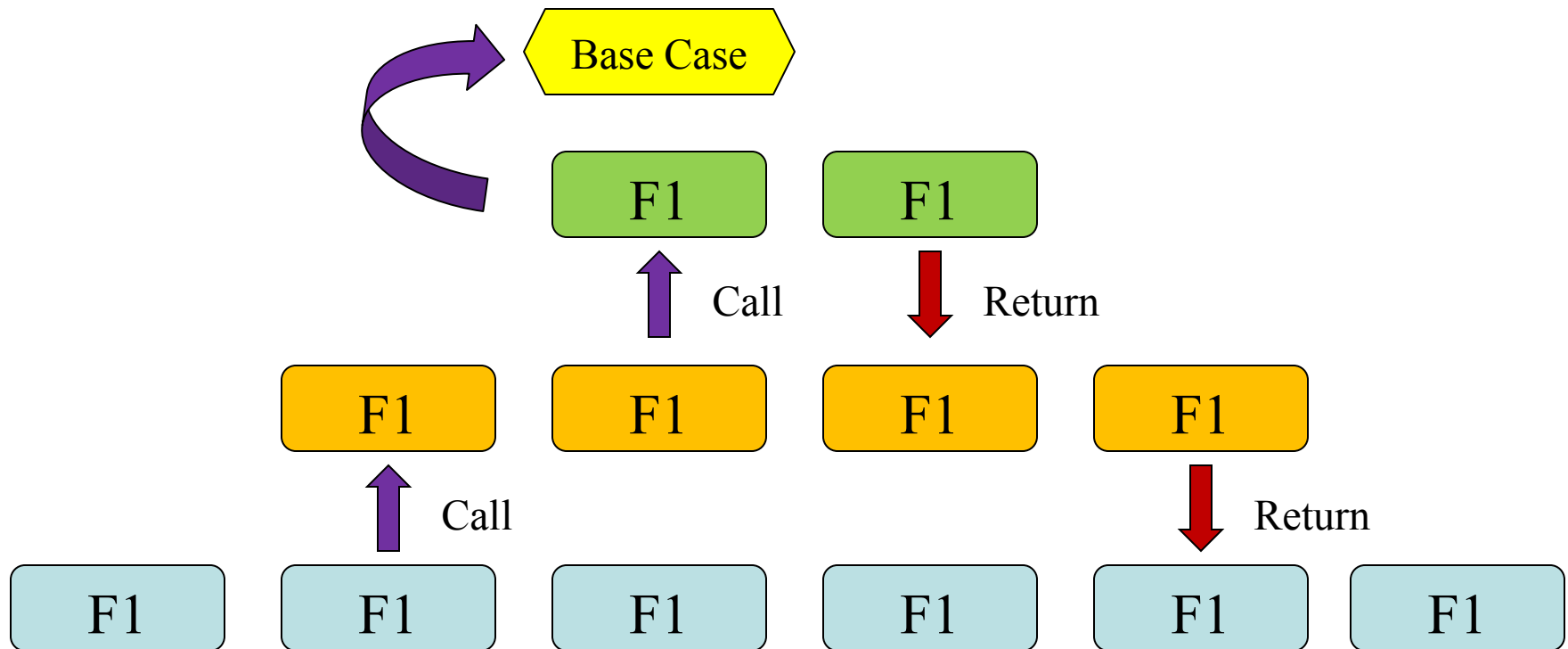
Stack and Function

- Stack: Last In First Out (LIFO)
- Function



Recursive Function

- Same function, Different variables



Recursive Function

- Base Case (what to do with trivial inputs)
 - Terminating Conditions
 - Most logical errors occur at 'Base Case'
 - Not only one base case, maybe many cases
- Recursive Call (how to solve the problem)
 - Most difficult part to design a recursive function
 - Understand which variables are changing, and which are constant.

Practice

- Implementing Exponentiation
- Write a function to recursively compute the function $f(x,n) = x^n$
- Compare your results with the built-in java function *Math.pow(x, n)*
- n is a non-negative integer

Practice

- Consider $f(x,n) = x^{(n/2)} * x^{(n/2)}$
- What do you need to do if n is odd?
- Count number of recursive calls
- Count time by using: *System.nanoTime()*