

# IST 261 Guided Study Group Session #4

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Implementing Linked Lists and  
Stacks in Java

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# Session Breakdown

10 Minutes: LinkedList and Stack

25 Minutes: Work through example together

15 Minutes: Extend example in groups

10 Minutes: Go through solution

- LinkedList is a collection that contains many object of the same type.
  - Similar to ArrayList, but more efficient.
- Stack is like the same thing, but you can only look at the top element.
- FIFO (First in; first out)
- FILO (First in; Last out)

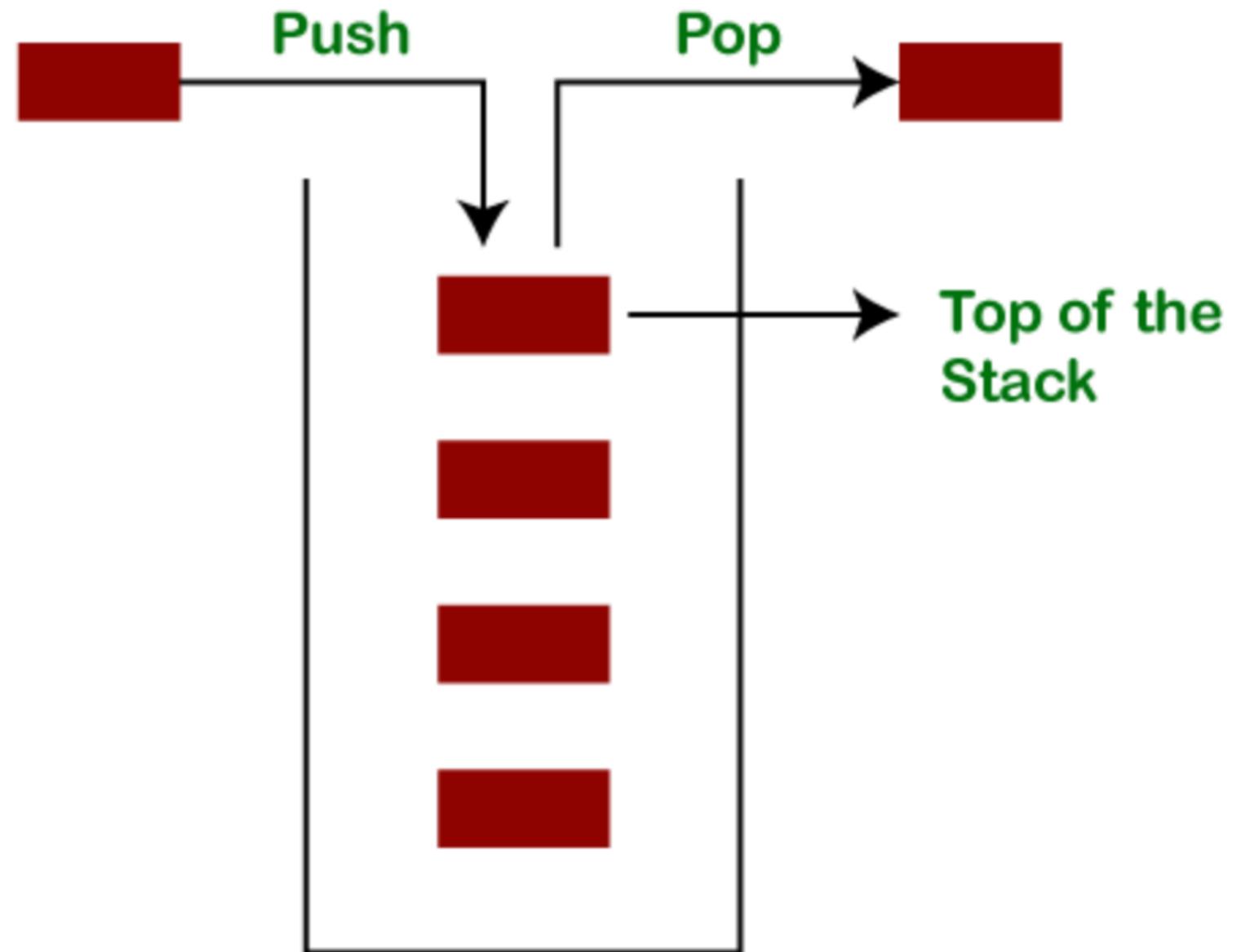
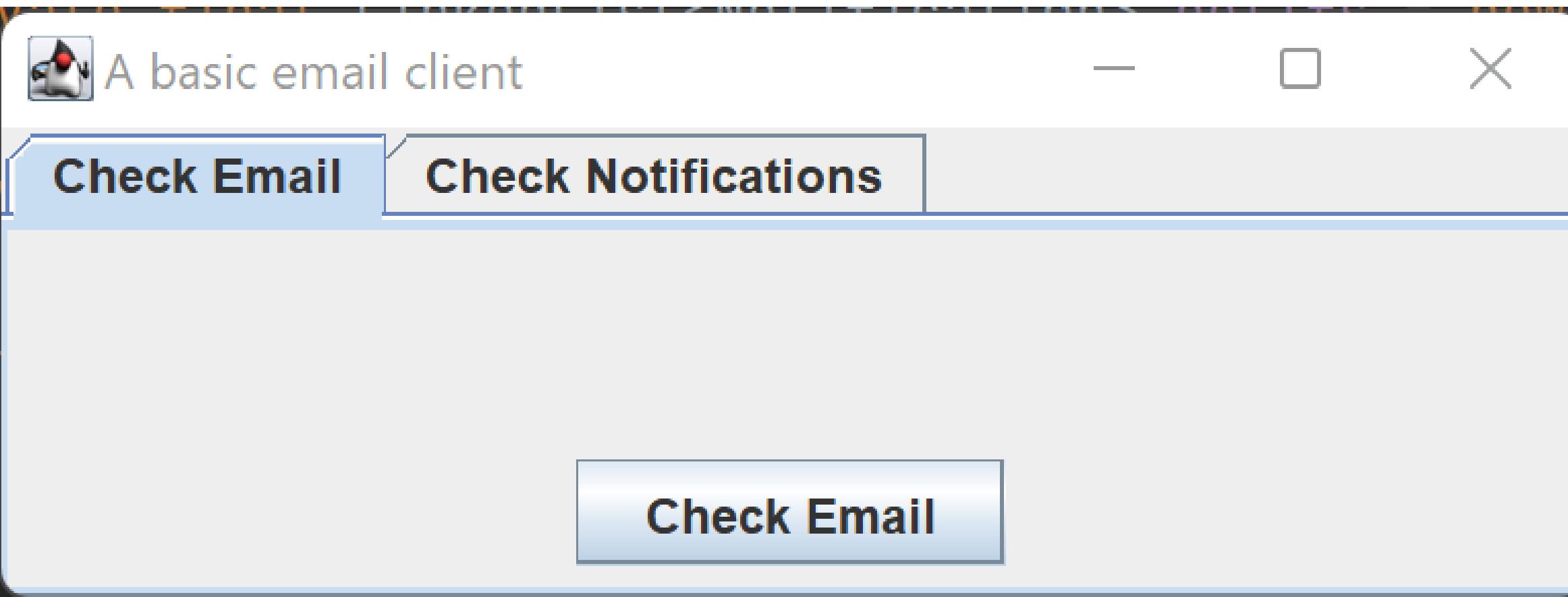


fig- doubly linked list

# A Basic "Email" Client

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**Clone the starter code here:**

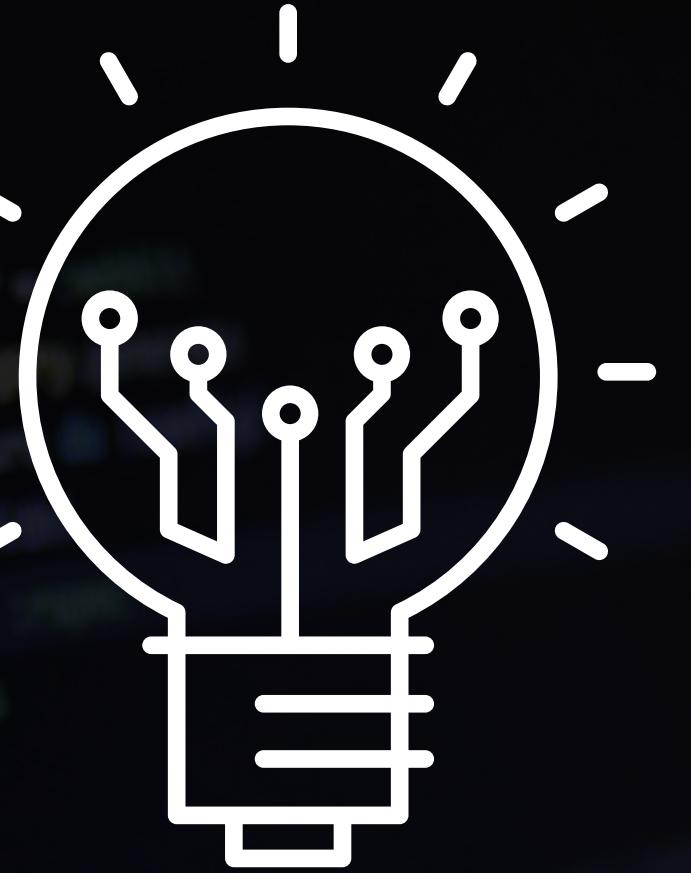
```
git clone https://github.com/NucciTheBoss/ist261_gsg_tutoring.git
```

**After cloning the repository, open *linkedlist\_in\_action* as a project in IntelliJ IDEA**



# Groupwork Time

# Solution Walkthrough



```
5   abort("The Rails environment is running in production mode!
6   # Run `rake environment` to change this. Make sure to
7   # restart your application on production mode!
8
9   require 'spec_helper'
10  require 'rspec/rails'
11
12  require 'capybara/rspec'
13  require 'capybara/rails'
14
15  Capybara.javascript_driver = :webkit
16  Category.delete_all
17  Shoulda::Matchers.configure do |config|
18    config.integrate do |sp|
19      sp_with.test_framework :rspec
20      sp_with.library :rails
21    end
22  end
23  # Add additional requires below this line.
24  # Requires supporting files within the "support/" directory
25  # in your railtie (e.g., copies it into config/boot).
26  # You can search for files in your application that
27  # specify tasks with the keyword "require" like so:
28  # require 'spec/support/your_helper'
```

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