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Assignment 03 Linked Lists

In Java, there are array lists and linked lists. Many often confuse them, but today we will go over the linked list. Link Lists are used to store elements using pointers and addresses. The elements are classified as nodes. It is stored in a linear data structure where the elements are not stored in contagious locations and each element stored is a separate object with both address and data parts to it. Example of basic linked list:

import java.util.LinkedList;

public class Main {

public static void main(String[] args) {

LinkedList<String> birds = new LinkedList<String>();

birds.add("Cardinal");

birds.add("Bald Eagle");

birds.add("Blue Jay");

birds.add("Wood Pecker");

System.out.println(birds);

}

}

There are infrastructures to add to link lists. To add stack to a linked list you need to use the class Stack which will need to contain stack methods like pop() and more. This will allow you to smoothly implement stack into your linked list. The code will not require many changes, it will just be adding a couple more lines of code into your linked list.