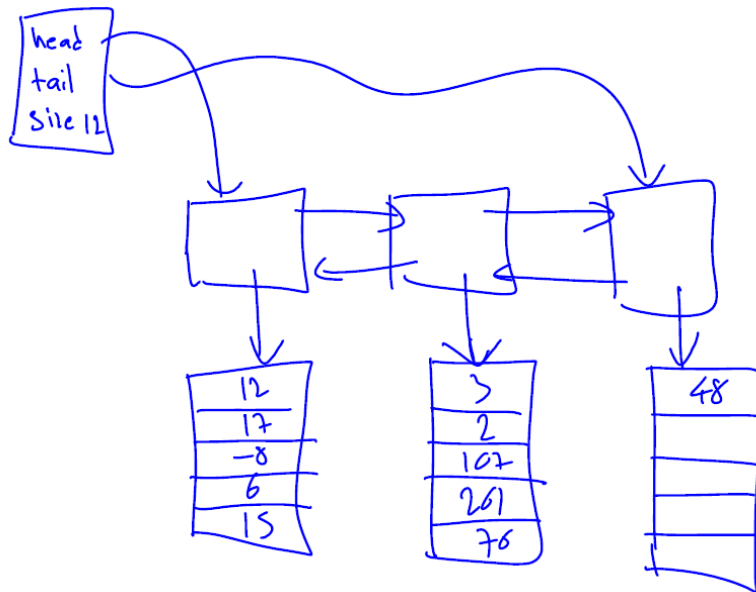


Homework 05

Due date: March 30th 2015 23:55

You will write a List class that implements all 26 methods listed at <http://docs.oracle.com/javase/7/docs/api/java/util/List.html>

Your implementation will use a hybrid approach that uses both arrays and linked lists. Your List class is a linked list, each node of the linked list is an array of 5 objects. You should always keep this structure of the list class. For example, the following figure shows the memory representation of a sample List



Implement all the methods with all the functionality and error handling. You will use Java ArrayList class for the arrays and Java LinkedList class the linked lists. Do not implement any linked lists or array list classes.

Run your Junit tests on your new class without modifying the unit tests. Your factory method will return your class object when you pass the appropriate string.

You will implement your class in a separate Java package and you will make a jar file.

Notes

- Your submission will include your design documents
- Include the unit test results with your submission.