Lecture 5: ListNodes

07/01/22

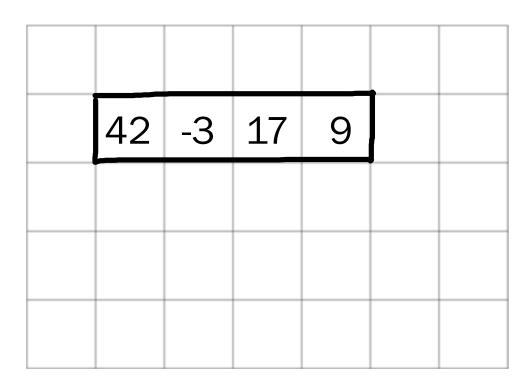


New Topic: Linked Lists!

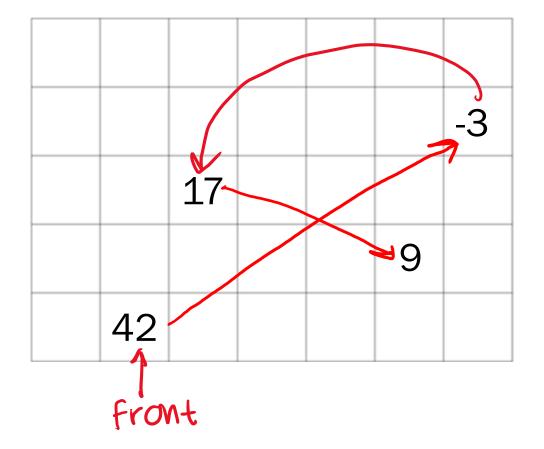
- Last week: clients of LinkedList<E>
 - List<String> list = new LinkedList<>();
 - Queue<Integer> q = new LinkedList<>();
- Today and next week: implementers of LinkedList
 - Today, Tuesday: ListNodes
 - Wednesday, Thursday, Friday: LinkedIntList

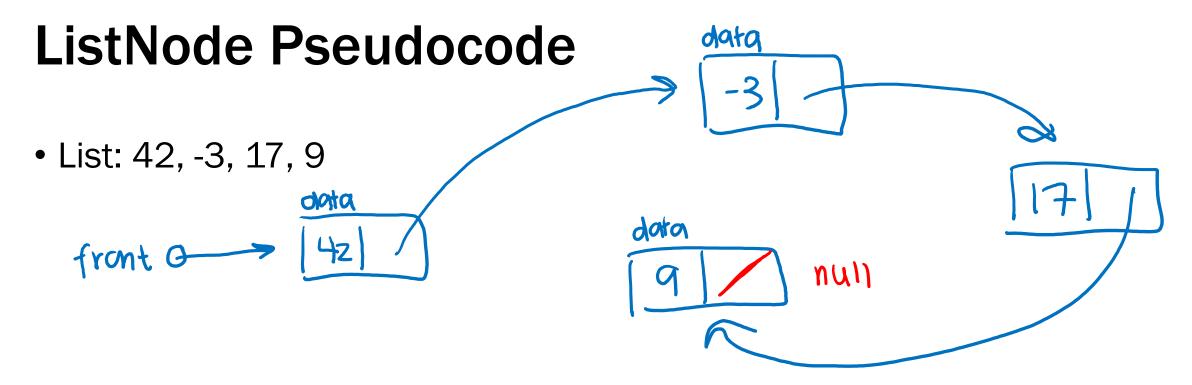
Memory for a list

Contiguous in memory (array)



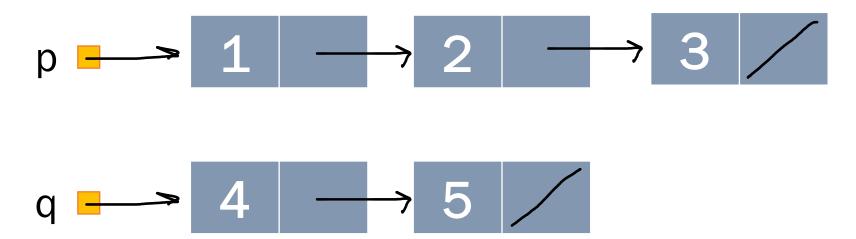
Spread in memory





pollev.com/cse143

Suppose we had the following ListNodes:



• What would the lists look like if we ran this line of code?

Before



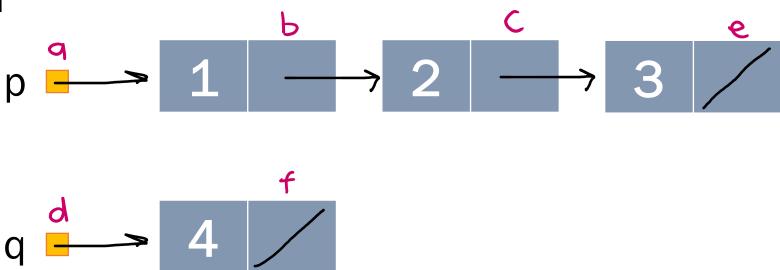


After



Before $p \rightarrow 1$ $q \rightarrow 2$ $q \rightarrow 4$ $q \rightarrow 3$ $q \rightarrow 4$ q





Announcements

Monday, July 4th – No Lecture, IPL closed

- Checkpoint 2 due Wednesday, July 6th @ 11:59pm
- A2: GuitarHero due Thursday, July 7th @ 11:59pm