ADT, absruct data type

Arraylist container is a bag (hold many kind of things).

Bag:

1. .add()
2. .remove()
3. .contains

|  |  |  |
| --- | --- | --- |
|  | array | linklist |
| .add() | O1 | O1(at frond) ON(at end) |
| .remove() | ON | ON |
| .contains | ON |  |
|  |  |  |

Objective: It present any kind of data type.

Head = new link

课堂笔记

1.15

* If ( get (i).compareTo (key) > 0 ) // get(i) is greater.
* compareTo 不是针对所有的 数据结构
* Comprable cmpKey = (Comparable)key;
* Difference

Linklist

Do not allocate all once

Class of linklist

Class elem

{

* String data;
* Elem next;

}

Insertatfront

While (infile.hasnext()) // infile.ready (just like a buffer reader)

{

* String token = infile .next()
* head = new elem( token, head)

Constructor

Elem( string data, elem next)

{

* This . data = data;
* This. Next = next;

}

到过来

For( elem curr = head(不是指向head 的，而是跟head指向一样的东西); curr != null; curr = curr.next)

{

* System.out.print( curr.data + “ ”);

}

While (infile.hasnext()

{

* head = new node <T>(infile.readline, head);

}

For( Node<T> curr = head; curr != null; curr = curr.getNext())

{

* Print( curr.getData() )
* If key.equals( curr.getData() ) return curr;
* Return null;

}

insertAtTail( key )

{

* If list is empty (insert front return)

}

Remove( key ) ;

2/28 midterm

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