reverse() // reverse elements of a linked	list.
11 SLL, dummy header, Entry class with	element,
//) ,	ct powle. ->
head part of list but Conson We has been reversed remain	ing part of
/Initialization revList < null cursor < head.next	, ,
While consor & null do // Move consor for to revlist	
nxt < cmsor.next	RT=0(m)
consor next & revlisi ver List & consor	Extraspace = O(1)
cursor < nxt	
/ Termonation: [+
head next < rey List	

// merge this list (sorted) merge (stl <t>) other): With other lest (surted) into one sorted list //LI: □ → □ → □ U-D-1 this head tailler HisCarson other Cu so part of this last part of the host is unprocessed list, unprocessed Sorted list containing elements that have been processed tailloc: tail of processed list, this Consor = head of unprocessed this list other Consor = i. other. // In: habitation: taillroc & this head this linear this head next other Courser & other head . next while this Consor & null and other Consor + null do if this Consor dement & other Consor dement than toulfree next this Cursor; tailfree this Conson this Cursor this Cursor next RT = O(n) Extra space<math>= O(1)tail Pre. next = other Consar est tail Proc - other Courser other Consor & other Consor. Next if this Cursor = null then tail from next = other Comson else tail Procenext = this Cursor this tail = other tail

List res): // a, b = Lists, sated sets. intersection (List a, List b, it = a.iterator() res = empty list
it 2 = b.iterator()

(outnot) $x_1 \leftarrow next(aiti)$ $x_2 \leftarrow next(itz)$ while X, = null and X2 = null do if x, < x2 then x, e next (it,) else if X,> X2 the X2 = next (it2) else res. add (x_i) $x_i \in next(it_i)$ $X_2 \in next(itz)$

Note: In prendocade: if $X_1 < X_2$ Vocale: if $(X_1 \cdot \text{compareTo}(X_2) < 0)$ Code: n = 0 (n) n = 0.572e(1) + b.512e(1).

Foul safe next: next (Iterator (T) it):

return it.hasNext()
? it.hasNext(): null;

else return null

Queues: List in FIFO (First-in First order
Enquere(x) = add(x) - add a new element at the rear of green.
Dequeve (b) = remove() - remove and return element at the front of the queue.
istripty(), rize(), clean()
Implementations: add(x) -> list. add Mat(x) -01 (i) Linked List: remove() -> list. remove First ()-01.
Lo used in single threaded applications. e.g: Breadth-first search (BFS)
Queue (Vertex) 9 = new Linked List
has double ended quene.
Active elements occupy some part of array from both ends. (not necessarily from index 0).
Bounded sized queues used in multithreaded/ Producer/Consumer add(x) -> ofter(x) applications. add(x) -> poll()