I hereby pleadge on my honor that I will strictly adhere to academic integrity codes and the work done on this examination is solely my own and I Berke Belgin 171044065 will not recieve give any help from/to anybody or source during the examination. a) public booken remove Last () { Node < El node = root; if (root == null) return fouse; else if (root. next == null) & - 1 nootinex = null; regare tract while (node. next. next!=null) { < _ n voge = voge · vext: 3 return true:

upde vert = vn/1; O(n) (worst-case) I(1) (best-case) b) public boolean removelast() { T(n) worst = 2n+5 Tini best = 3 if (mylist-size()==0) return false > 1 else &

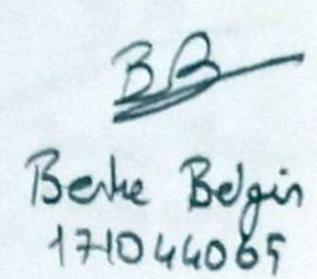
my List. remove (my List. sree()-1); -) n (swee It is

a Whited Lis a Linked List) 0(1)

N(1)

Tin) worst = n+2

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92) public E push (Ee) {

orrList. add(e,0) -> n (since shift aparahun)

return e;

public E pop () {

O(n) = I(n) = Q(n)

if (arrust.size()==0) return null; > 1

E == arrust.get(arrust.size()-1);

arrust. (emove (0); > n (since shift operation)

} return e;

S(1)