Exercise Sheet 5 Problem 1. ay . INSERT KEY 1) insert node to the end. we call the node to be inserted as e e-next - NULL the L. head ()(n)

while t. next != NULL : t <- t. next

EC. t. next ← e $e.prev \leftarrow t$

2) insert node e at the head. e. prev & NULL (1) e. next - L. head head.prev← e

3) insert node e to a certain index i. (n) for n = 0 to i t← t. next

e.next - t.next e - t. next prev t. next - e e. prev - t

DELETE KEY

O DELETE the end node e teL. head

while t. next != NULL

t. prev. next - NULL

t - t. next

@ delete the head node e t - L. head L. head - t. next

L. head prev - NULL

(2(1)

()(n)

