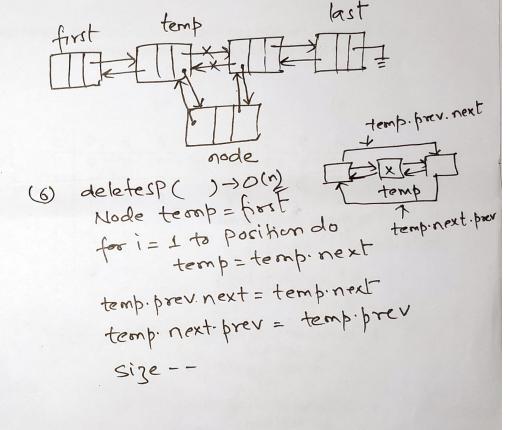


- 1) addfirst (node) -> O(1) node.next = first first. prev = node node. prev = null first = node Size++
- 3) InsertsP(node) -> O(n) Node temp = first for i=1 to position-1, do temp=temp. next node next = temp next node prev = temp (temp.next). prev = node temp next = node Size++
- 4) deletehrst() >0(1) first = first next first. prev= null Size --
- last. prev. next = null last=last. prev. prev. next Size --

2) add last (node)  $\rightarrow 0(1)$ last.next = node node next = null node prev = last last = node Size++



(5) deletelast () -> o(4) Another technique deletelast () -> o(n) while (temp.next ! = last) temp=temp.next temp next = null last = temp Size --