Doubly linked hist

* Deleting a node at a given pos" the post must be from 1

Is he deletion of a mode, what we basically do is moving of pointers, (west and previous).

G head element is deleted, then previous pointer for head. next is set to mell 2 next pointer of head in multified

similarly on deleting the fail, the next pointer of fail previous in multifical

I previous pointer of fail is set to well.

G & for deleting element in between





back = temp. previous, front = femp. met,

> back next = front; front previous = beak; back = mel; front = mull;

But how to get to kth element? > using counters

```
it ( head = = mell) return mell;
                       Node sump = head;
                       int count =0;
                         while ( temp 1 = mill) ?
                                Cont ++;
 this is how we
                               It (count = = k) break
  get to kth element
                               femp = femp. next;
Dif ku el is not
present, then temp becomes mill.
                          if (temp = = mell) return head; (nothing ne dileted)
 > for handing feed >
                          Node front = temp next, back = temp previous;
single element
Case
                          it (pront == mell & & previous = = mell) ?
return mell;
                          llse if ( front == mill) {
 Care of deleting tuil
                                      back. net = null;
back = null;
                          else if ( benk = = mell) ?
Case of deleting head
                                        front, previous = null;
                                         head = front;
                                        front = nell;
                  else §
                                        back next = front;
                                        front previous : back
                                        back = mel;
                                         front = mull;
                  refrom head;
```

X	Inserting	a mode	at a	given p	ios";				
	G 81	milar to	deletung	a voc	Je.				
		for meer	ding at	head:	2 2 25	280'an	itle	well:	t to
		head	2 head	d's previ	our t	o t	emp		
			en mon		to ter	mp,			
	\bigcirc	for inser	ting at		Q ~ ~ ~	llian	H8	hrea	ย่านใ
		to t	eil & ta	il's next	to t	emp 2		, 33	
			then mon						
		for here			two w	odes:	(bufo	عر	pront.
		3	temp	5		bark	= 12	cont.	pres.
			<u> </u>						
		→	back 3	femp	front 5				
				temp					
			3	14	5				
		\	k. next =	temp.					
	Done		imp, next		·') k -				
			back =						
		to get t							
		using c	omter.						

> follow similar steps to Deletion