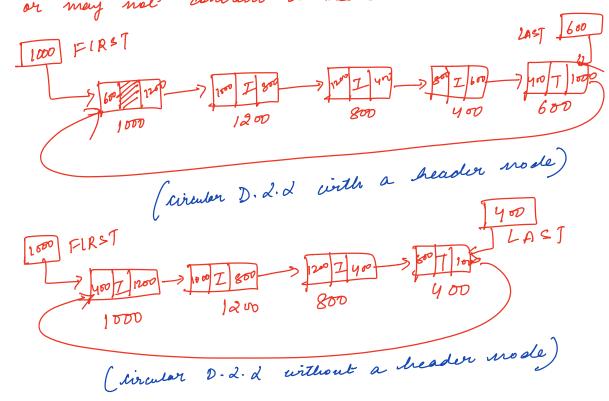


- Jhe list contains two list pointer variables FIRST and 2AST which stores the address of first-node and last mode of D.L.L. resp.
- \* D. L. d. may be either linear, circular may or may not contain a header node.



## 1) DL 2- insert:

This also. inserts a data item X to the left of a node whose address is M in a D. 2.2. L & R represent the left most and right most node of D. L. L represent the left most and right most node of D. L. L if avail = NU22, write "overflow" and return.

- 2) new = avail avail = link (avail)
- 37 set info (new) = X

47 if 
$$L = R = NU22$$
 then

LPTR (new) = RPTR (new) = NU12

Ret  $L = R = New$ 

rution

5) if  $M = 2$  then

LPTR (new) = NU22

RPTR (new) = NU22

RPTR (new) = M

LPTR (M) = new

L= new

return

6) // M ii in middle. So meet new node byt-of M/

APTR (new) = M

APTR (new) = new

RPTR (M) = new

RPTR (APTR (new)) = new

return

1000	New	120	New	120	600
1000	Sop	120	Sop	120	600
1000	Sop	New	120	600	
1000	Sop	New	120	600	
1000	Sop	New	N		

This algo. seletes a mode with an address doc from D.L.L with L and R as the pointer storing the address of left most and right most modes SHII if L=R=NU22, write "enderflow", return. AI if  $L=R\neq NU22$  | | Langele node before detelions Hen Sel=Z=R=NU2L

else if doC = L // delete the left most node then L = RPTR(L)LPTR(L) = NULL

else if 20C = R // delete the right most node then  $R = \frac{2PTR(R)}{RPTR(R) = WU2L}$ 

elel // delete from middle

RPTR (doc)) = RPTR (doc)

LPTR (doc)) = dPTR (doc)

