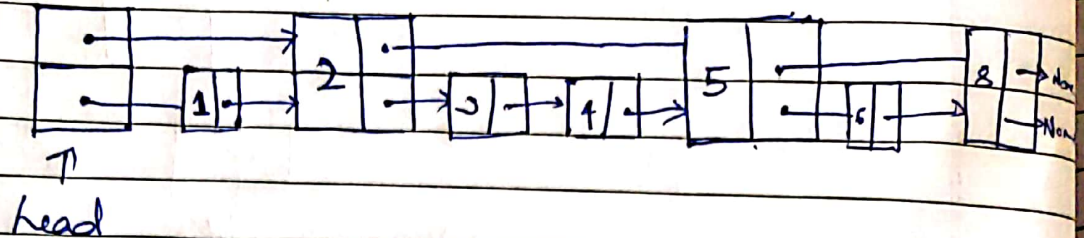


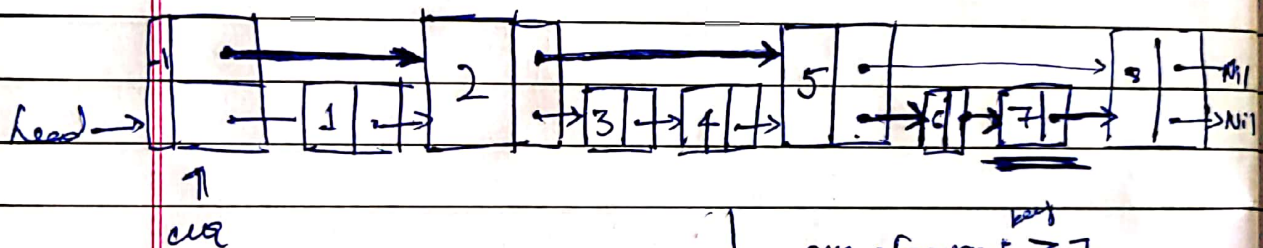
SKIP LIST

→ Skip list with two levels



→ Inserting a node with key 7.

$cur = head$ $key = 7$



$\rightarrow cur \cdot forward[i] < 7$
 $cur = cur \cdot forward[i]$

$\rightarrow cur \cdot forward[i] < 7$
 $cur = cur \cdot forward[i]$

$\rightarrow cur \cdot forward[i] > 7$
 So $update[i] \leftarrow cur$

$cur \leftarrow cur \cdot forward[0]$

$\rightarrow cur \cdot forward[i] < key$
 $cur \leftarrow cur \cdot forward[i]$

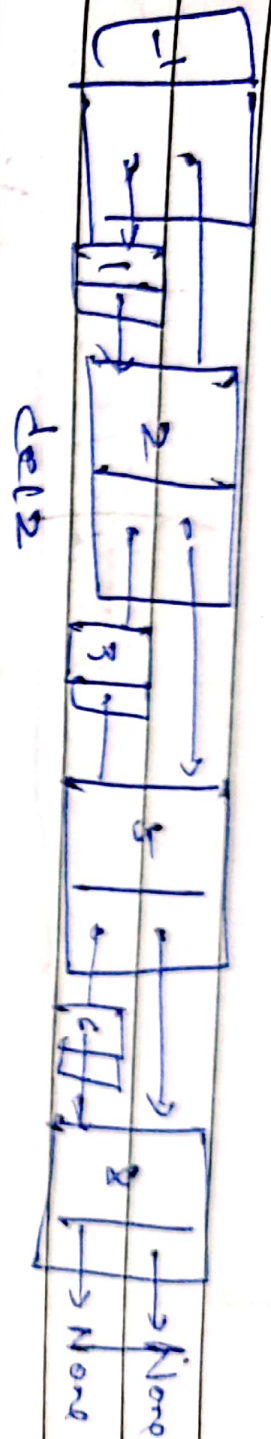
$cur \cdot forward > 7$

$update[i] = cur$
 $newnode \cdot forward[i] \leftarrow update[i]$

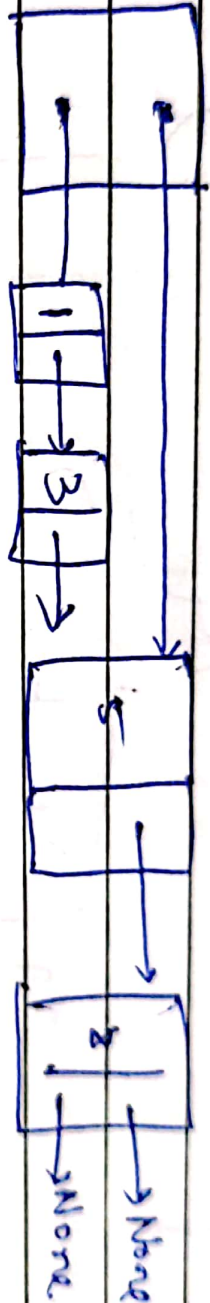
$update[i] \cdot forward[i] \leftarrow newnode$

$newnode \cdot forward[i]$

Deletion



del 2



2 is deleted

1 points to 3
and 3 points to 5