

30th Sept 2020

LAB-2

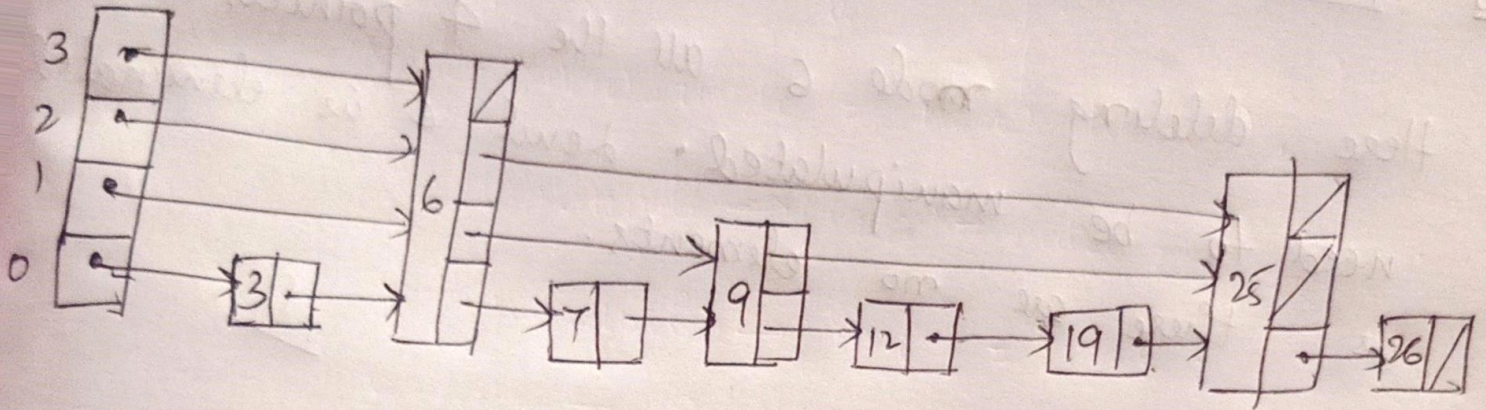
## SKIP-LIST :-

NIHA

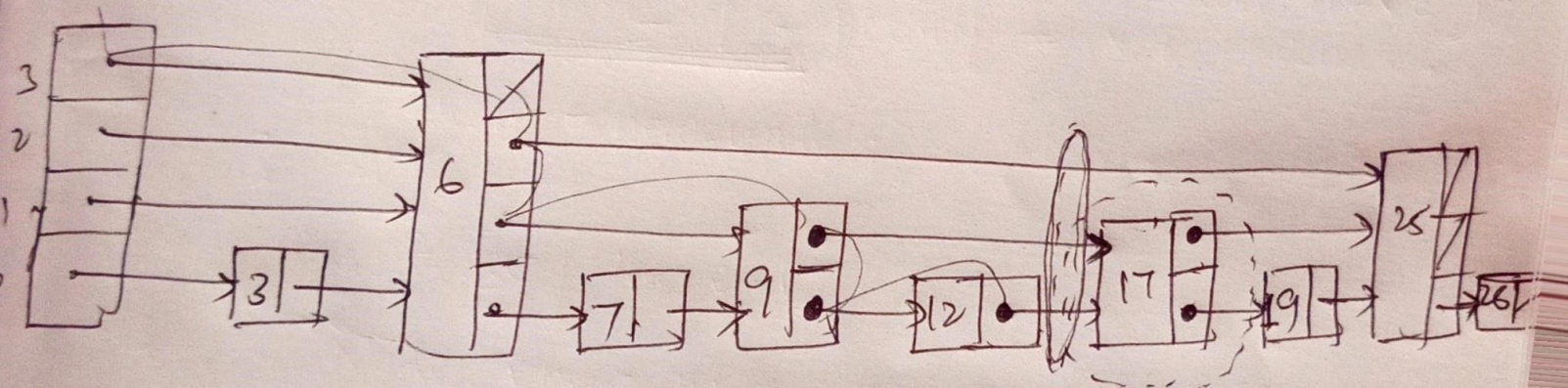
IBM18CS

S-B

1. Original skip list :-



2. After inserting a node :- (17)



Since 17 is less than 19 and greater than

12, it is inserted b/w 12 & 19.

So, the 2 pointer of 9, to 25 ~~will~~ and

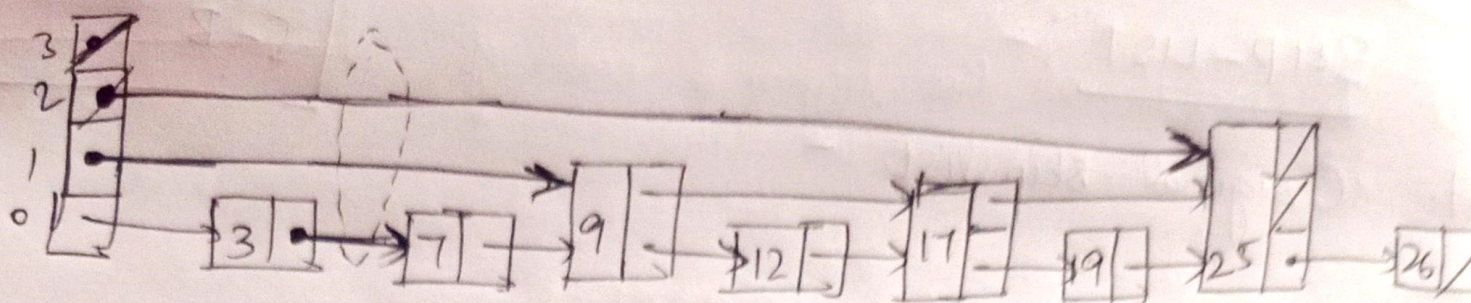
12 & 19 will be updated.

~~Here~~ pointer need to be manipulated.

ml.



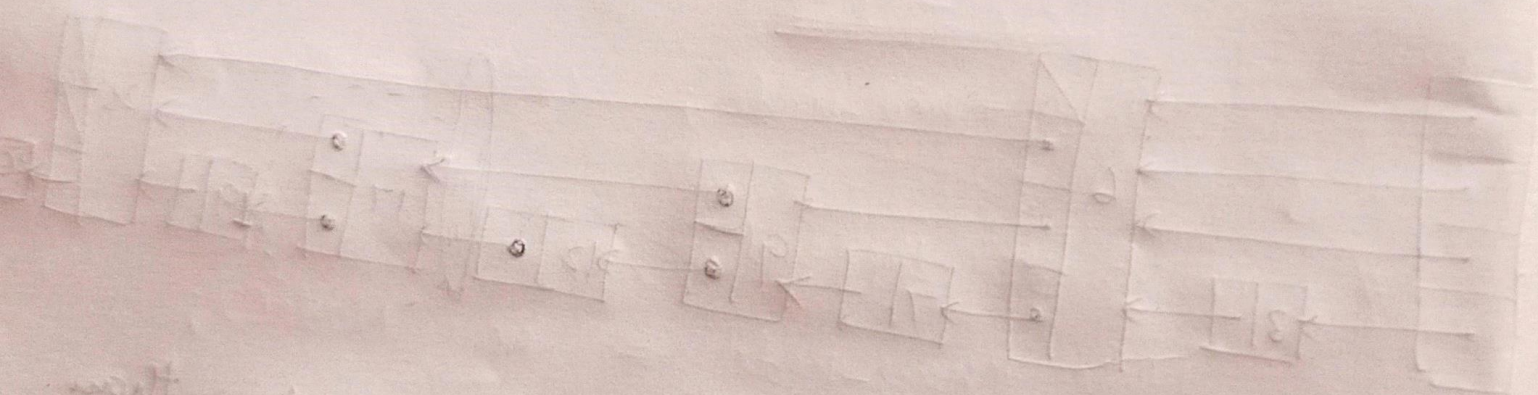
3. After deleting a node :- (6)



Here deleting node 6 all the 4 pointers will need to be manipulated. Level 4 is eliminated as there are no elements.

Ans

(17) :- show a procedure after deleting a node



Since 17 is less than 19 and greater than 12, it is inserted between 12 & 17. So the pointer of P to 17 is updated. Now P1 & P2 are updated.