① If (head == NULL)
{
   head = newnode;
   tail = newnode;
}

*head
NULL

*prev	data	*next
NULL	50	NULL

500

*tail
NULL

| 500 | *New_node |

---

*head
100

*prev	data	*next
NULL	10	200

100

*prev	data	*next
100	20	300

200

*prev	data	*next
200	50	~~500~~ NULL

300

*tail
~~500~~ 300

*prev	data	*next
~~300~~ NULL	50	NULL

500
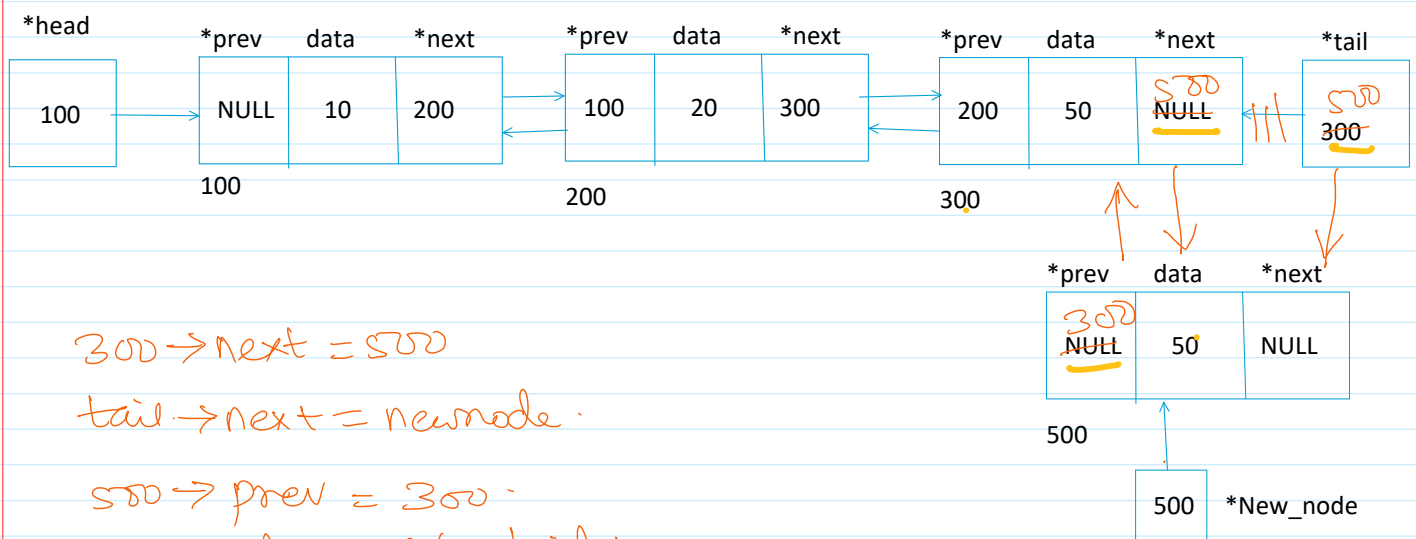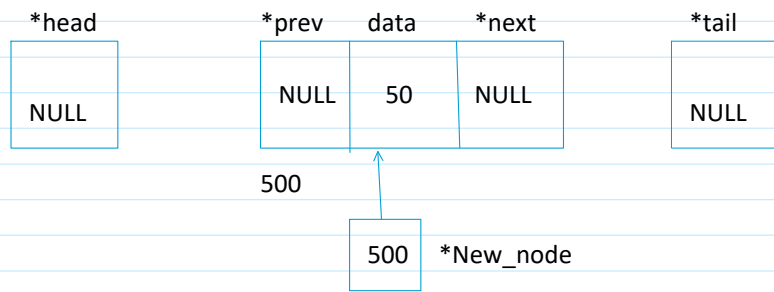
| 500 | *New_node |

300 → next = 500

tail → next = newnode.

500 → prev = 300.

newnode → prev = tail.

tail = newnode.

① Create forward connection bet^n last node and newnode

② Create backward connection bet^n newnode and last node.

③ update the tail pointer.