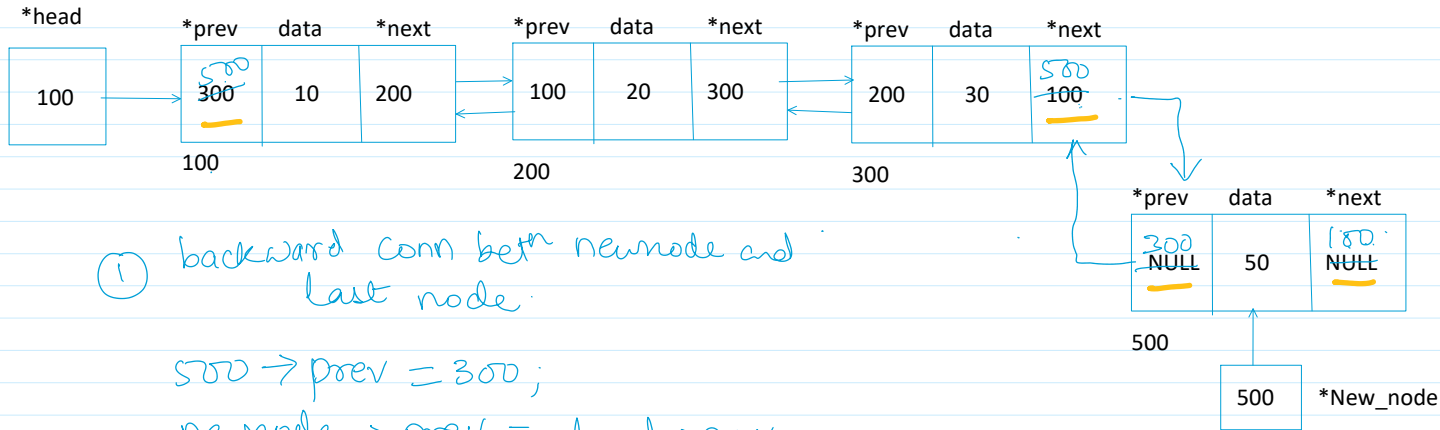


```

if (head == NULL)
{
    head = newnode;
    newnode->next = head;
    newnode->prev = newnode;
}

```



① backward conn betn newnode and last node.

$500 \rightarrow \text{prev} = 300;$
 $\text{newnode} \rightarrow \text{prev} = \text{head} \rightarrow \text{prev};$

② forward conn betn newnode and 1st node.

$500 \rightarrow \text{next} = 100;$
 $\text{newnode} \rightarrow \text{next} = \text{head};$

③ forward conn betn last node and newnode.

$300 \rightarrow \text{next} = 500;$
 $\text{head} \rightarrow \text{prev} \rightarrow \text{next} = \text{newnode};$

④ backward conn betn 1st node and newnode.

$\text{head} \rightarrow \text{prev} = \text{newnode}.$