

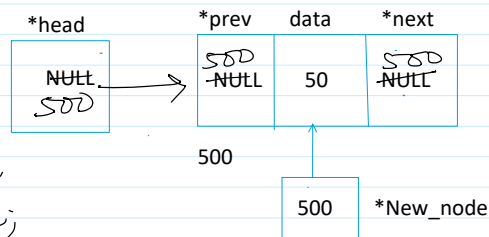
a) if (head == NULL)

head = newnode;

head → next = newnode;

head → prev = newnode;

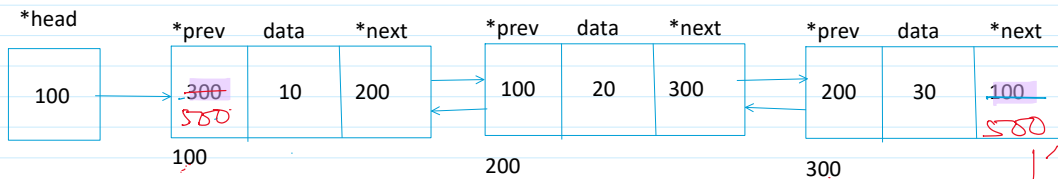
};



① create

② update the data

③ attach.



① $500 \rightarrow prev = 300;$

$newnode \rightarrow prev = head \rightarrow prev;$

② $500 \rightarrow next = 100;$

$newnode \rightarrow next = head;$

③ $300 \rightarrow next = 500;$

\downarrow
 $100 \rightarrow prev$

$head \rightarrow prev \rightarrow next = newnode;$

④ $100 \rightarrow prev = 500;$

$head \rightarrow prev = newnode;$

