

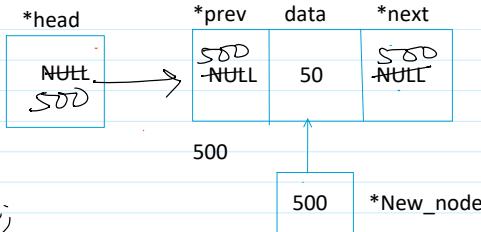
a) if ($\text{head} == \text{NULL}$)

{
 $\text{head} = \text{newnode};$

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

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

}



① create

② update the data

③ attach.



① $500 \rightarrow \text{prev} = 300;$
 $\text{newnode} \rightarrow \text{prev} = \text{head} \rightarrow \text{prev};$

② $500 \rightarrow \text{next} = 100;$
 $\text{newnode} \rightarrow \text{next} = \text{head};$

③ $300 \rightarrow \text{next} = 500;$
 \downarrow
 $100 \rightarrow \text{prev}$

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

④ $100 \rightarrow \text{prev} = 500;$
 $\text{head} \rightarrow \text{prev} = \text{newnode};$

