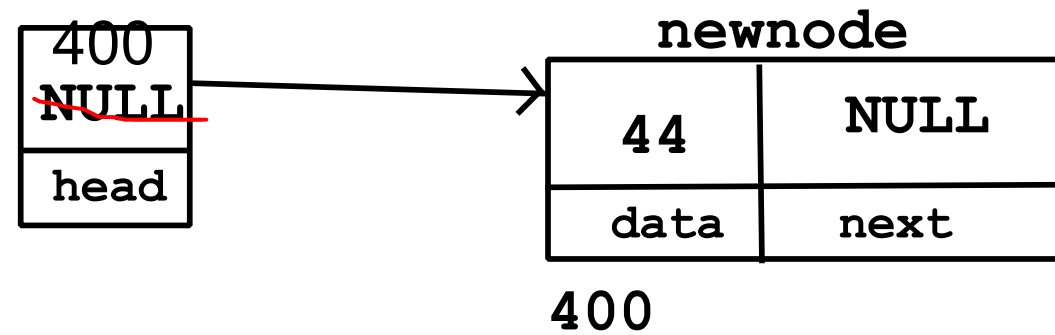


Linked List

Singly Linear Linked List - Add First



//0. create node with given data

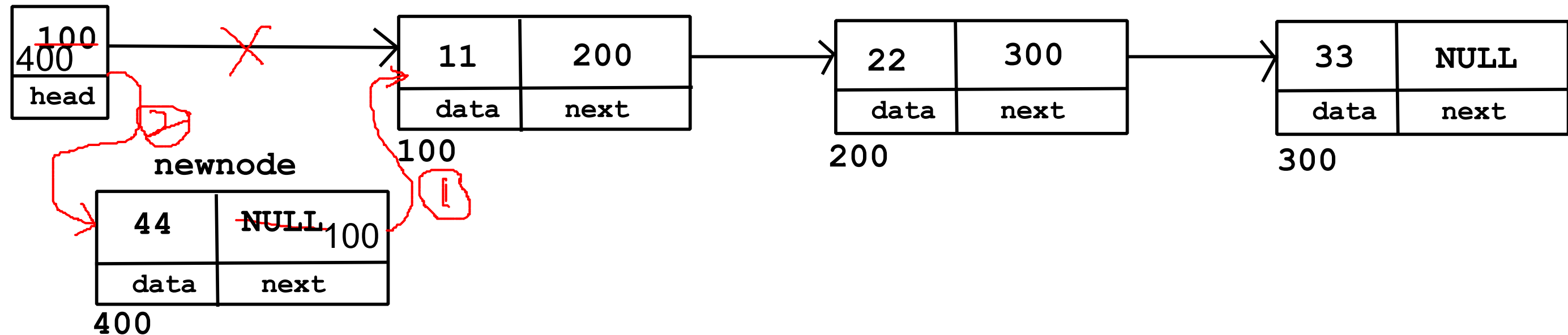
//1. if list is empty

//a. add newnode into head

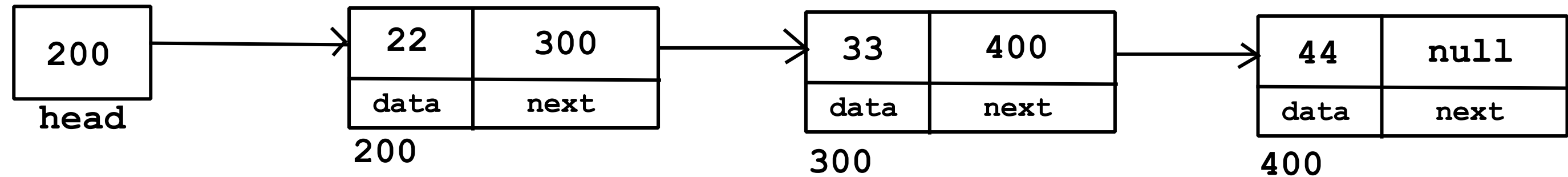
//2. if list is not empty

//a. add head into newnode next

//b. add newnode into head

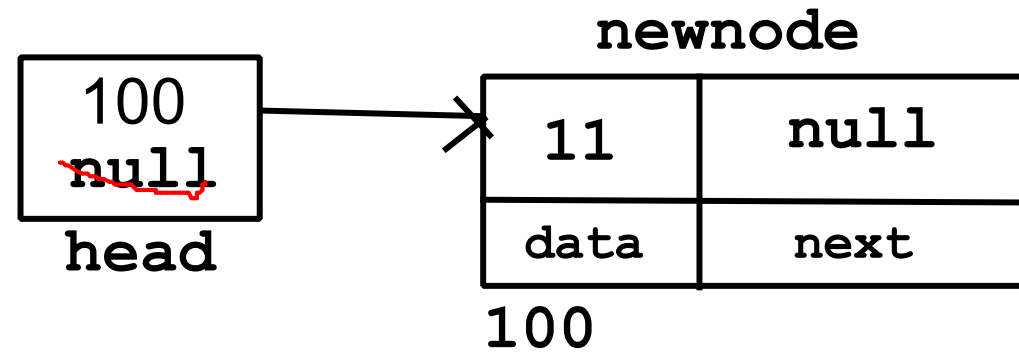


Singly Linear Linked List - Traverse



//1. if list is empty
 //a. print msg as list is empty
//2. if list is not empty
 //a. start at head
 //b. print data of that node
 //c. go on next node
 //d. repeat step b and c till trav != NULL

Singly Linear Linked List - Add Last



//0. create node with given data

//1. if list is empty

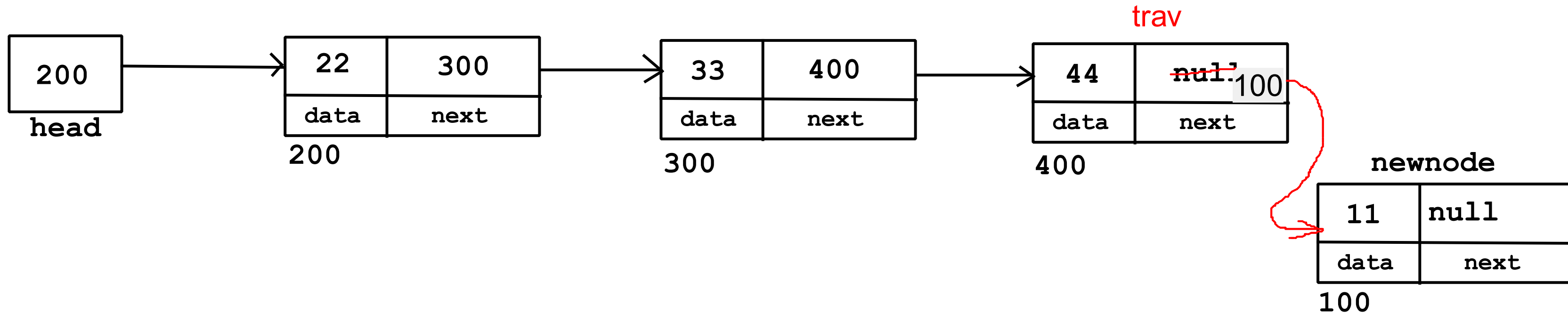
//a. add newnode into head

//2. if list is not empty

//a. traverse till last node

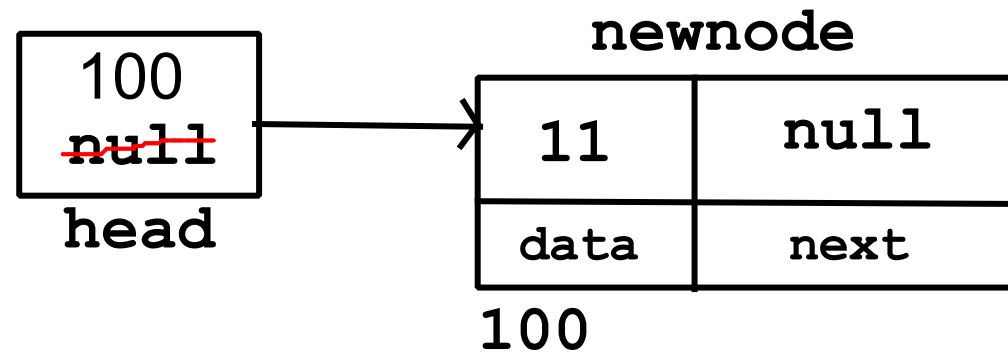
//b. add newnode into next of last node

while(trav->next != NULL)
trav = trav->next



Singly Linear Linked List - Insert at pos

pos = 3



//0. create node with given data

//1. if list is empty

//a. add newnode into head

//2. if list is not empty

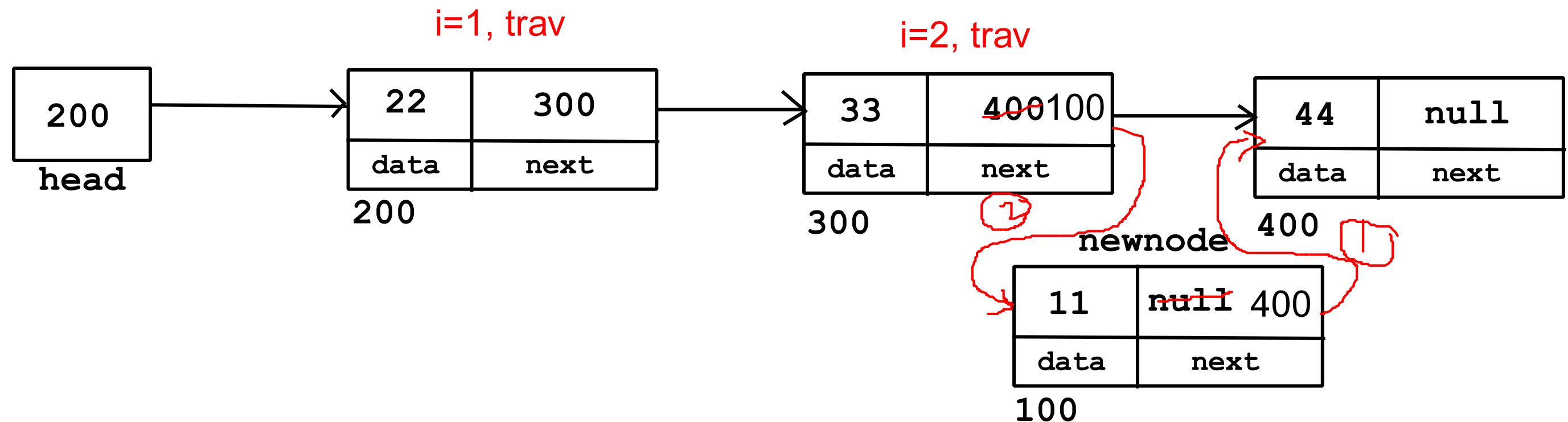
//a. traverse till pos -1 node

//b. add pos node into newnode

//c. add newnode into pos-1 node

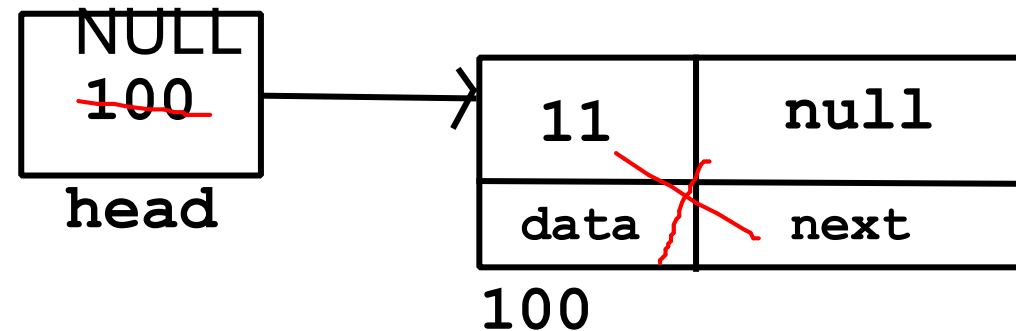
i=1

while(i != pos -1)



Singly Linear Linked List - Delete First

null
head



//1. if list is empty

//print msg

//2. if list has only one node

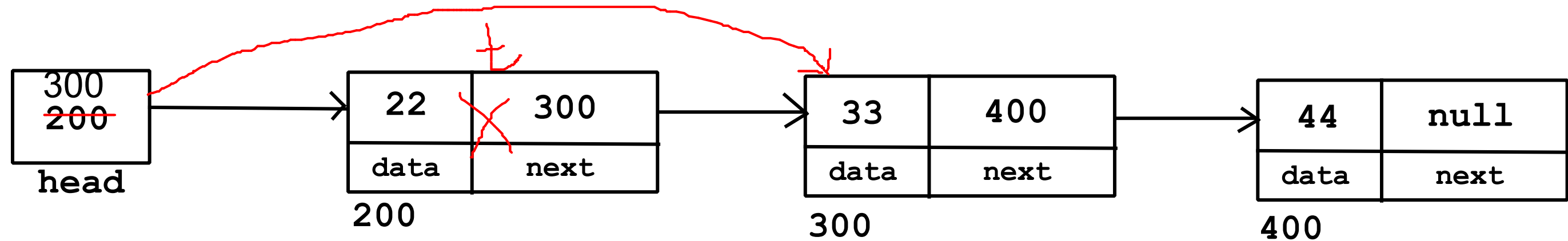
// delete head node only

//3. if list has multiple nodes

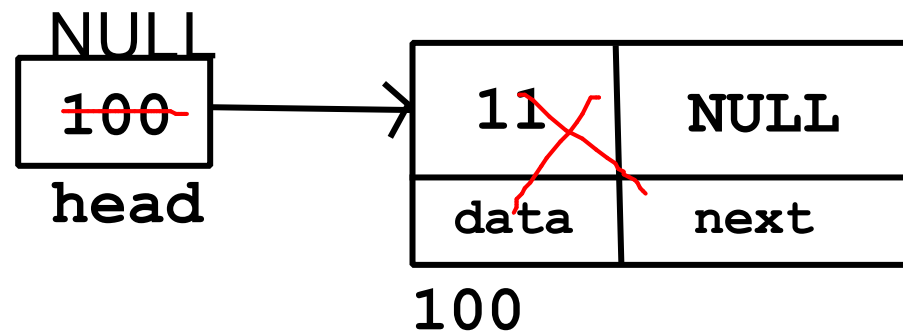
//a. take backup of first node

//b. add second node into head

//c. delete backup node



Linked List - Delete Node Last



//1. if list is empty

//print msg

//2. if list has one node

//delete head node only

//3. if list has multiple nodes

//a. traverse till second last node

//b. delete last node

//c. add NULL into next of second last node

trav != NULL

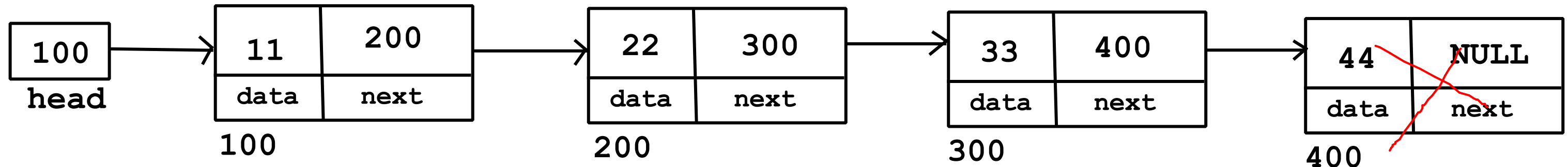
--> trav = NULL

trav->next != NULL

--> trav is on last node

trav->next->next != NULL

--> trav is on second last node



Linked List - Delete Node at Position

