/\*

Remove all elements from a linked list of integers that have value val.

Example

Given: 1 --> 2 --> 6 --> 3 --> 4 --> 5 --> 6, val = 6

Return: 1 --> 2 --> 3 --> 4 --> 5

\*/

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\* Definition for singly-linked list.

\* struct ListNode {

\* int val;

\* ListNode \*next;

\* ListNode(int x) : val(x), next(NULL) {}

\* };

\*/

class Solution {

public:

ListNode\* removeElements(ListNode\* head, int val)

{

if(!head)

return NULL;

while(head && head->val==val)

{

ListNode\*p=head->next;

delete head;

head=p;

}

if(!head)

return NULL;

ListNode\* last=head;

ListNode\* p=head->next;

while(p)

{

if(p->val==val)

{

last->next=p->next;

ListNode\* q=p;

delete q;

p=last->next;

}

else

{

p=p->next;

last=last->next;

}

}

return head;

}

};