两个FIFO实现栈

- Implement stack via two queues P, Q:
  - $push(x)$: $P.enqueue(x)$;
  - $pop(x)$:
    - repeat $Q.enqueue(P.dequeue())$ until the size of P is exactly 1;
    - record the return value with $P.dequeue()$;
    - repeat $P.enqueue(Q.dequeue())$ until Q is empty.
- push: $O(1)$, pop: $O(n)$.

反转链表

> 不消耗额外空间

```
prev=L.head//先记录头指针
cur=prev.next
while(cur!=NULL)
    nxt=cur.next
    cur.next=prev//核心反转
    prev=cur
    cur=nxt;
L.head=prev//重置头指针
```

```
a=b.next//不变，寻找b的后继记为a，a是b的next
b.next=a//改变，从b链接出新的指向a
```