

linked list cycle

```
class Solution:
    def hasCycle(self, head: Optional[ListNode]) -> bool:
        r=head
        t=head
        while r and r.next:
            r=r.next.next
            t=t.next
            if r==t:
                return True
        return False
```

excel sheet column title

```
class Solution:
    def convertToTitle(self, columnNumber: int) -> str:
        def findc(a):
            s=" ABCDEFGHIJKLMNOPQRSTUVWXYZ"
            if 1<=a<=26:
                return s[a]
            else:
                if a%26==0:
                    return findc(a//26 -1)+s[a%26]
                else:
                    return findc(a//26)+s[a%26]
        return findc(columnNumber)
```