

141. Linked List Cycle

Easy

Topics

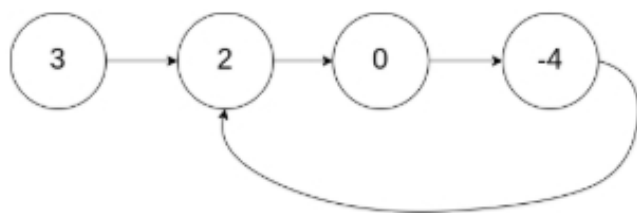
Companies

Given `head`, the head of a linked list, determine if the linked list has a cycle in it.

There is a cycle in a linked list if there is some node in the list that can be reached again by continuously following the `next` pointer. Internally, `pos` is used to denote the index of the node that tail's `next` pointer is connected to. **Note that `pos` is not passed as a parameter.**

Return `true` if there is a cycle in the linked list. Otherwise, return `false`.

Example 1:

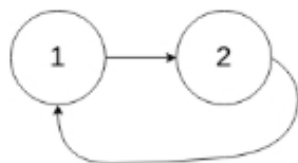


Input: `head = [3,2,0,-4]`, `pos = 1`

Output: `true`

Explanation: There is a cycle in the linked list, where the tail connects to the 1st node (0-indexed).

Example 2:



Input: `head = [1,2]`, `pos = 0`

Output: `true`

Explanation: There is a cycle in the linked list, where the tail connects to the 0th node.

Home

/** Definition for singly-linked

LinkedList Cycle - LeetCode

Remove Nth Node From End of

+

leetcode.com/problems/linked-list-cycle/submissions/1832007211/?envType=study-plan-v2&envId=top-interview-150

Top Interview 150

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Solutions

Submissions

All Submissions

Accepted 29 / 29 testcases passed

fdcekDDIKM submitted at Nov 17, 2025 11:39

Editorial

Solution

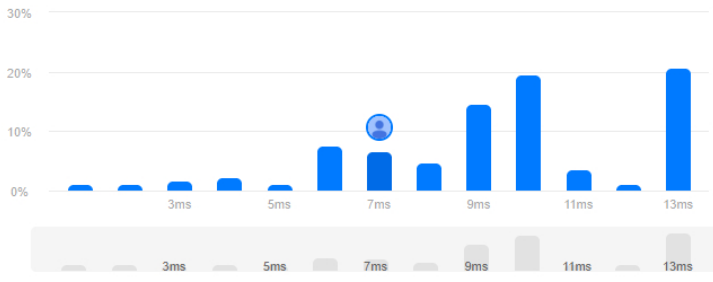
Runtime

7 ms | Beats 87.81%

Analyze Complexity

Memory

11.26 MB | Beats 39.17%



Runtime (ms)	Percentage
3ms	~1%
5ms	~1%
7ms	~5%
9ms	~15%
11ms	~5%
13ms	~20%

Code | C

```
/**
 * Definition for singly-linked list.
 * struct ListNode {
 *     int val;
 *     struct ListNode *next;
 * };
 */
bool hasCycle(struct ListNode *head) {
```

View more

More challenges

142. Linked List Cycle II

202. Happy Number

Write your notes here

Code

C

Auto

3

4

5

6

7

8

9

10

11

12

13

14

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22

```
struct ListNode {
    int val;
    struct ListNode *next;
};

bool hasCycle(struct ListNode *head) {
    if(head==NULL)
        return false;
    struct ListNode*slow=head;
    struct ListNode*fast=head;

    while(fast!=NULL && fast->next!=NULL){
        slow=slow->next;
        fast=fast->next->next;
        if(slow==fast){
            return true;
        }
    }
    return false;
}
```

Saved

Ln 7, Col 4

Testcase

Test Result

[3,2,0,-4]

pos =

1

Output

true

Expected

true

Contribute a testcase

Activate Windows

Go to Settings to activate Windows.

Windows

Type here to search

11.46.55 AM

17-11-2025