

141. Linked List Cycle

Easy

Topics

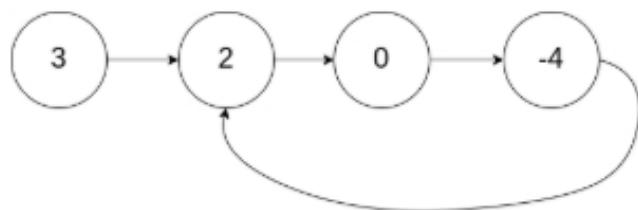
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Given `head`, the head of a linked list, determine if the linked list has a cycle in it.

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:

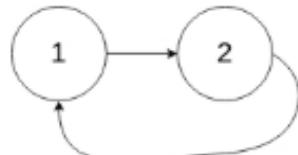


Input: `head = [3,2,0,-4]`, `pos = 1`

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.

This screenshot shows the LeetCode platform displaying the solution for problem 141, "Linked List Cycle II". The top navigation bar includes links for Home, Definition for singly-linked list, Linked List Cycle - LeetCode, Remove Nth Node From End of..., and Top Interview 150. The main page shows the status as Accepted with 29/29 testcases passed, submitted by fdcekDDIKM at Nov 17, 2025 11:39. It features a runtime chart comparing execution times for various input sizes (3ms, 5ms, 7ms, 9ms, 11ms, 13ms) against the current solution's performance (7ms, 87.81%). The code editor on the right contains the C implementation for detecting a cycle in a linked list.

```
3 struct ListNode {
4     int val;
5     struct ListNode *next;
6 };
7 */
8 bool hasCycle(struct ListNode *head) {
9     if(head==NULL)
10     return false;
11     struct ListNode*slow=head;
12     struct ListNode*fast=head;
13
14     while(fast!=NULL & fast->next!=NULL){
15         slow=slow->next;
16         fast=fast->next->next;
17         if(slow==fast){
18             return true;
19         }
20     }
21     return false;
22 }
```

The Test Result section shows the following data:

Testcase	Result
[3,2,0,-4]	true

The bottom right corner displays the Windows activation message: "Activate Windows Go to Settings to activate Windows."