[LeetCode](https://leetcode.com/problems/linked-list-cycle/submissions/1195164810/?envType=daily-question&envId=2024-03-06)

<https://github.com/AdityaKonda6/-50DaysOfCoding>

<https://leetcode.com/problems/linked-list-cycle/submissions/1195164810/?envType=daily-question&envId=2024-03-06>

<https://www.linkedin.com/in/aditya-adi-konda/>

Day 16 of [#50dayscodingchallenge](https://www.linkedin.com/feed/hashtag/?keywords=50dayscodingchallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633):  
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Just kicked off my coding journey with a fascinating problem - "Successfully solved LeetCode Problem “141. Linked List Cycle” !”  
   
✨ Task: 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.

Examples:

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.

Example 3:



Input: head = [1], pos = -1

Output: false

Explanation: There is no cycle in the linked list.

Let's Connect:

If you find this problem intriguing or have insights to share, let's connect! I'm passionate about problem-solving, algorithmic thinking, and collaborative learning. Feel free to comment or reach out for engaging discussions and knowledge exchange.Unravel the mystery using your coding skills!

[#CodingChallenge](https://www.linkedin.com/feed/hashtag/?keywords=codingchallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#Algorithm](https://www.linkedin.com/feed/hashtag/?keywords=algorithm&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#LinkedInPost](https://www.linkedin.com/feed/hashtag/?keywords=linkedinpost&highlightedUpdateUrns=urn:li:activity:7166316239483461633) #Algorithm #Optimization #DataStructures #CodingChallenge  
  
Excited about the progress and challenges ahead!  
   
Make Sure You Follow My GitHub For Solutions: <https://github.com/AdityaKonda6/-50DaysOfCoding>  
  
  
Happy coding!

**Solution:-**

public class Solution {

  public boolean hasCycle(ListNode head) {

    ListNode slow = head;

    ListNode fast = head;

    while (fast != null && fast.next != null) {

      slow = slow.next;

      fast = fast.next.next;

      if (slow == fast)

        return true;

    }

    return false;

  }

}

