

# **Linked List Cycle**

Try to solve the Linked List Cycle problem.



#### **Statement**

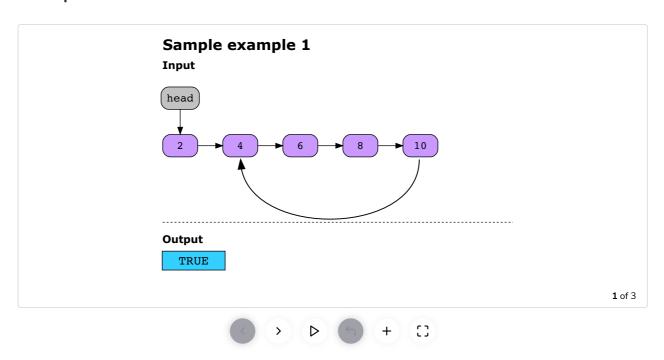
Check whether or not a linked list contains a cycle. If a cycle exists, return TRUE. Otherwise, return FALSE. The cycle means that at least one node can be reached again by traversing the next pointer.

#### **Constraints:**

Let n be the number of nodes in a linked list.

- $0 \le n \le 500$
- $-10^5 \leq { t Node.data} \leq 10^5$

### **Examples**

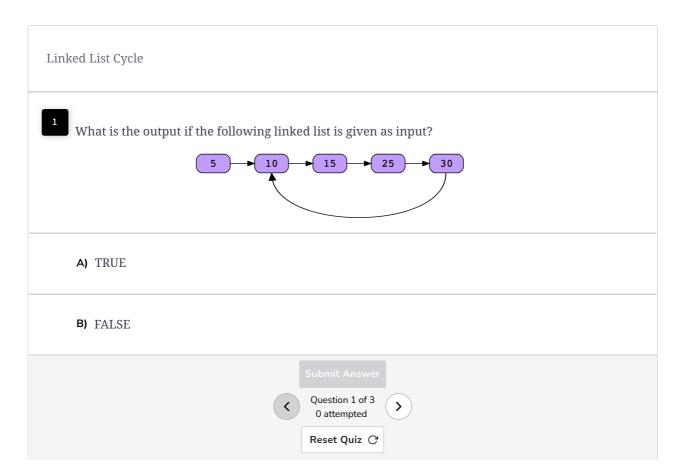


## Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

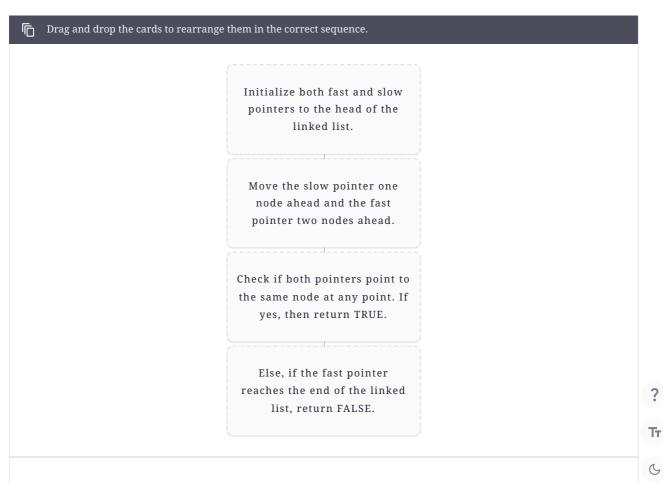
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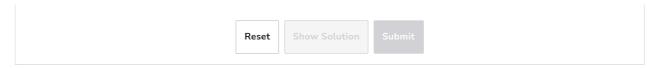
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### Figure it out!

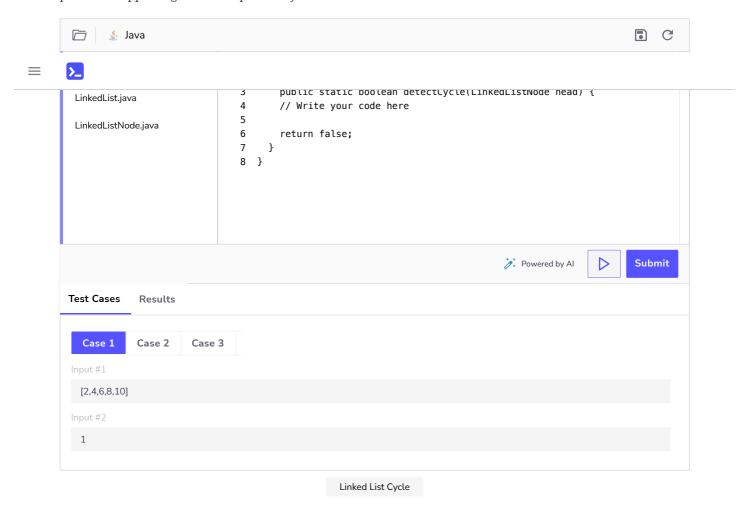
We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.



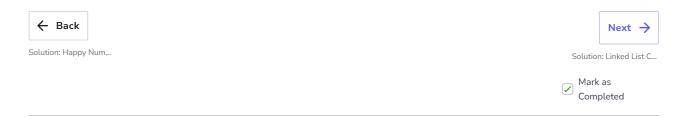


#### Try it yourself

Implement your solution in CycleDetection.java in the following coding playground. You'll need the provided supporting code to implement your solution.



Note: The first input of the test case includes an array representing the contents of a linked list. The second input represents the index of the node to which the tail pointer is pointing. It will be -1, in case it is pointing to NULL. The second parameter is not passed in the function, it is just to add the cycle to the linked list.



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