1. Finding the Loop in a Circular Linked List

Floyd's cycle-finding algorithm, also known as tortoise and hare algorithm.

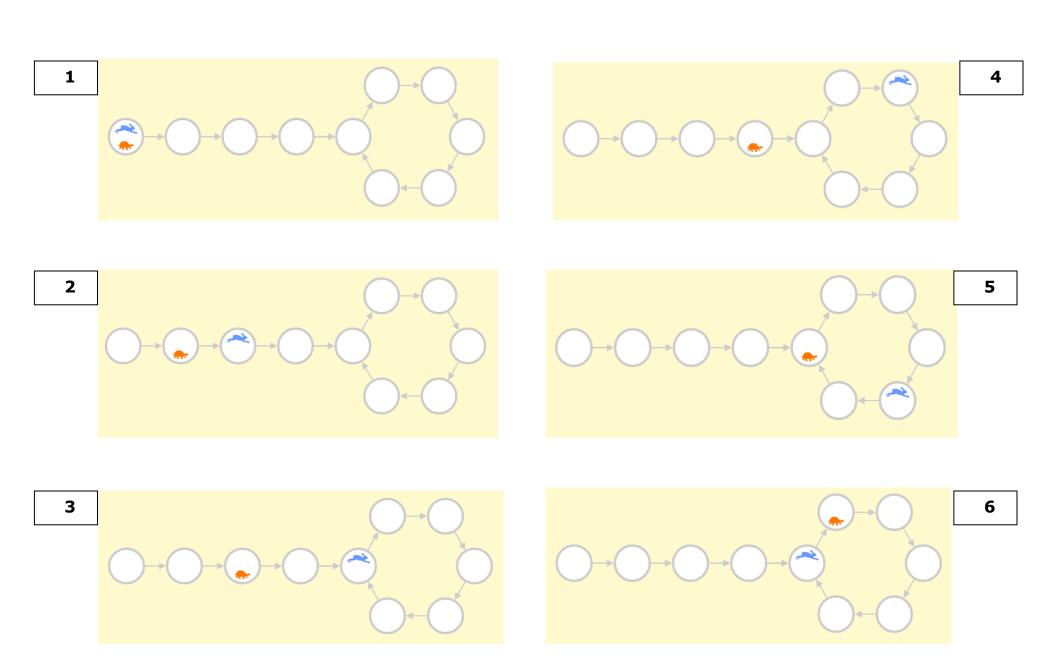
The idea is to have **two references** to the list and move them at **different speeds**.

Move the **first** forward by 1 node and the **second** by 2 nodes.

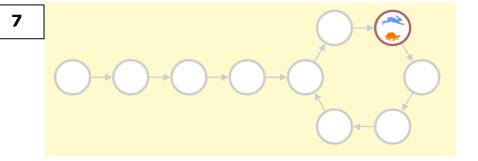
If the linked list has a loop they will *definitely* meet.
Proof:

Else either of the two references(or their next) will become null.

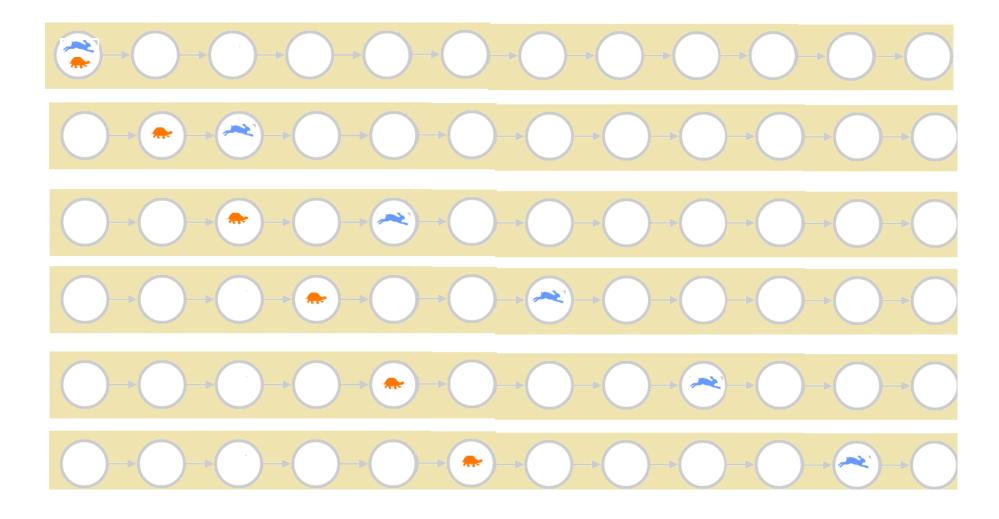
Linked List with Cycle (Loop)







Linked List without Cycle (Loop)



2. Finding the Length of a Loop in a Circular Linked List

