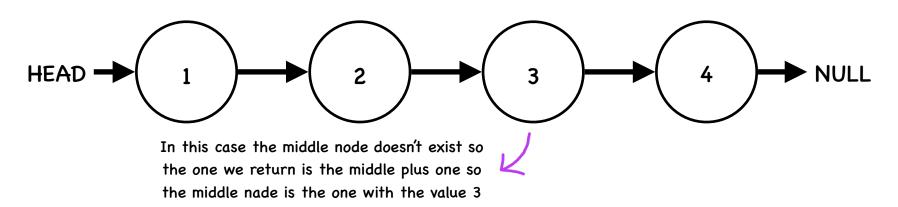
## 876. Middle of the Linked List



First we have to check if head points to not null value, if it does return null.

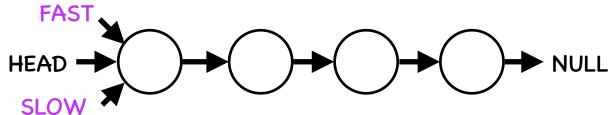
Unlike python in Java and other programming languages we would write something like if (head == null) return null;

if not head:
 return None

HEAD NULL

If not we'll use the Floyd's algorithm known as well as slow and fast pointers technique. First we'll create two pointers that point to the node that head is pointing at

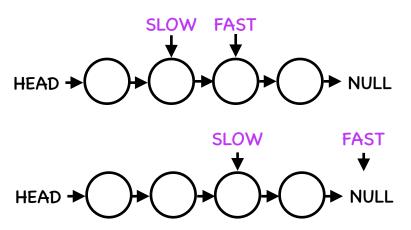
slow = head
fast = head



We'll advance slow pointer one step and faster point two steps each time while fast and fast.next is different of null and we'll return the node that slow pointer is pointing at.

In Java we would write something like while (fast != null && fast.next != null)

while fast and fast.next:
 slow = slow.next
 fast = fast.next.next
return slow



We go through the list once and the time complexity is O(n)