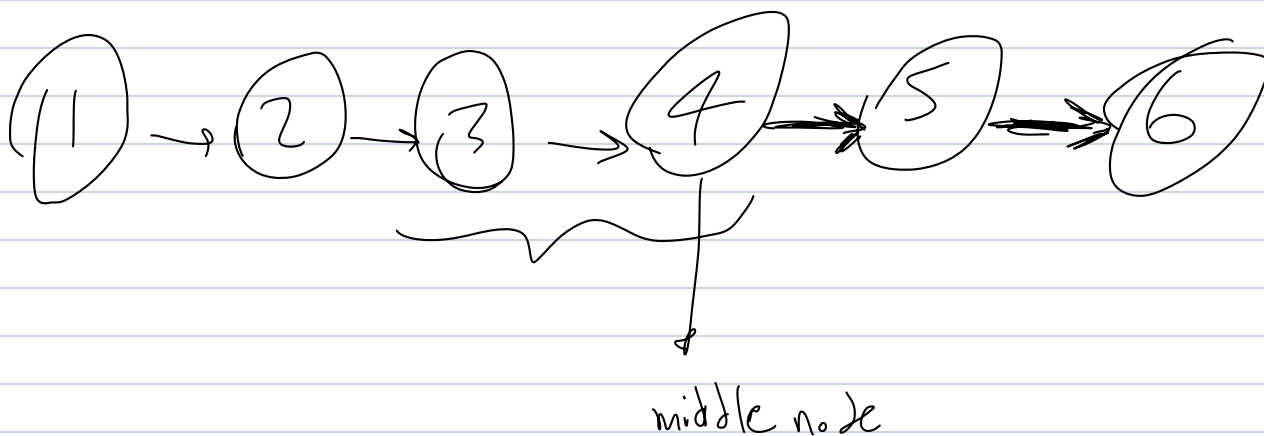


secondIterNode = head

return the middle of a linked list

if there are two middle nodes, return the one on the right



naive approach → traverse through the linked list

keep track of the n (list length)

$n/2$  → when  $n = 1/2$  → give value  
very bad solution

$O(n)$

---

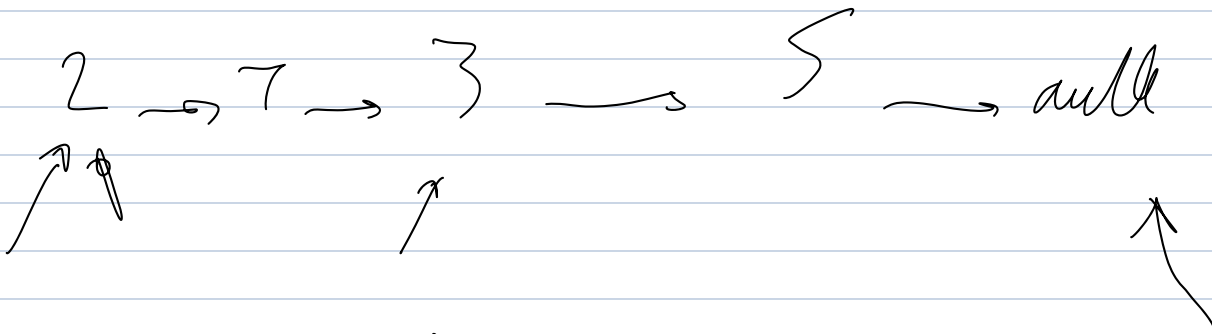
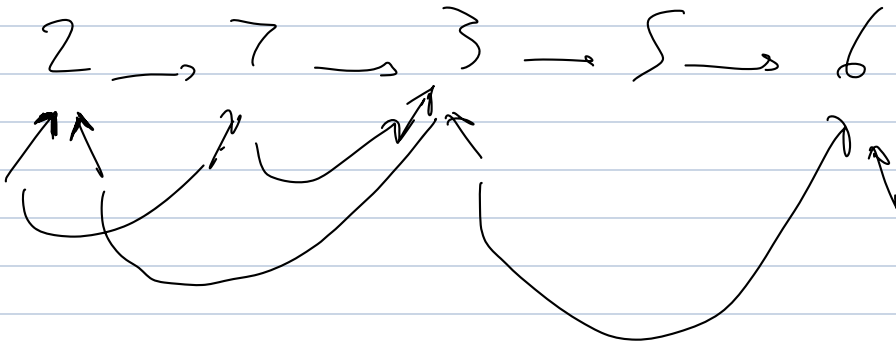
Alg. Expert

2 → 7 → 3 → 5 → 6

count → length

$$\text{index} = (\text{length} / 2) \rightarrow \text{floor}$$

Second Solution



$O(n)$  time

$O(1)$  space