



## Data Structure



Linked List Chapter- 3 Lec- 04

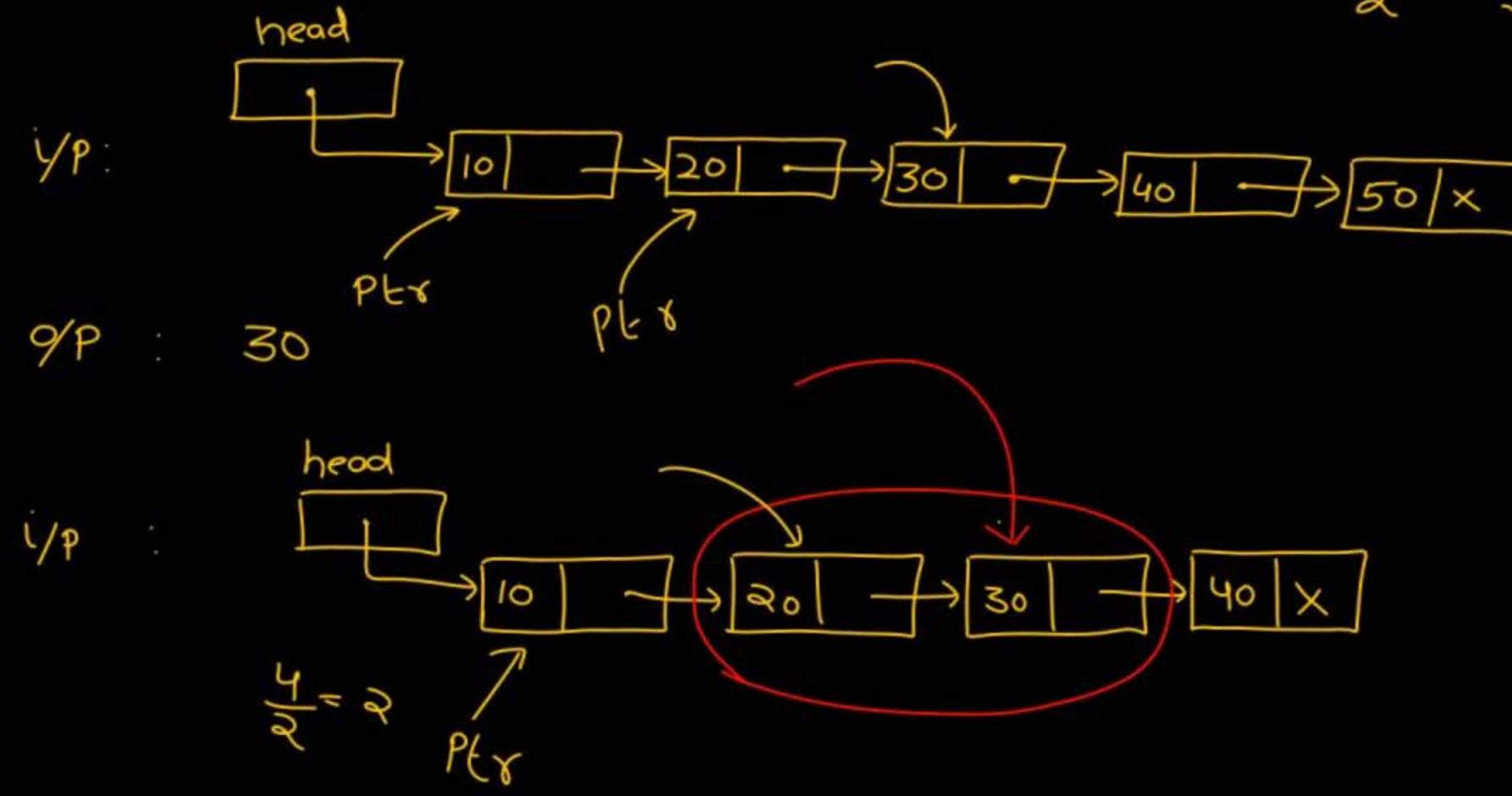


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Finding Mid Element in given linked list.

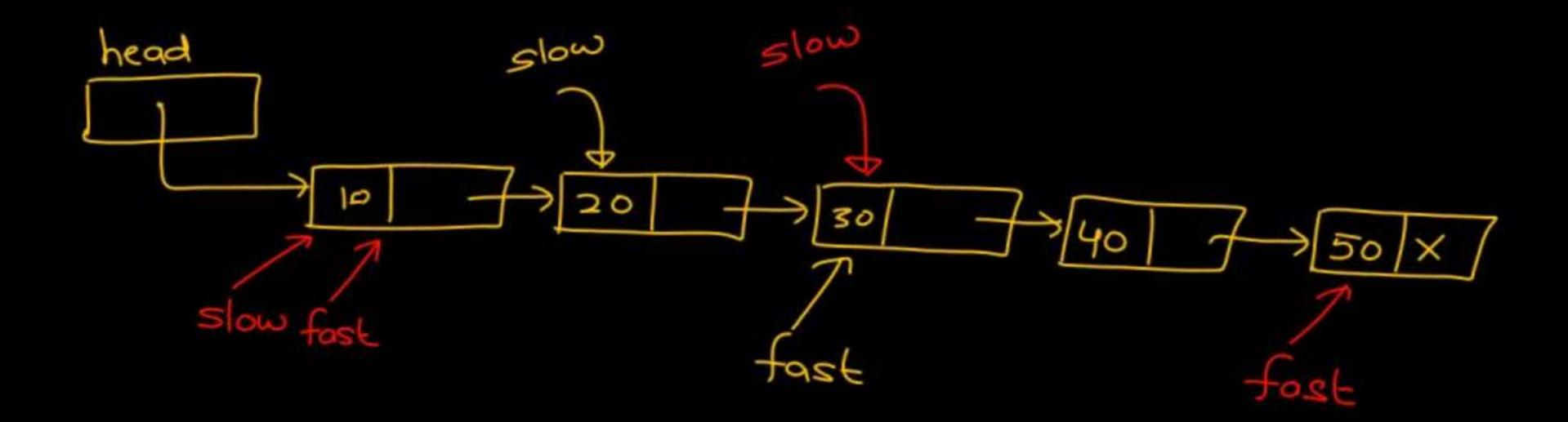


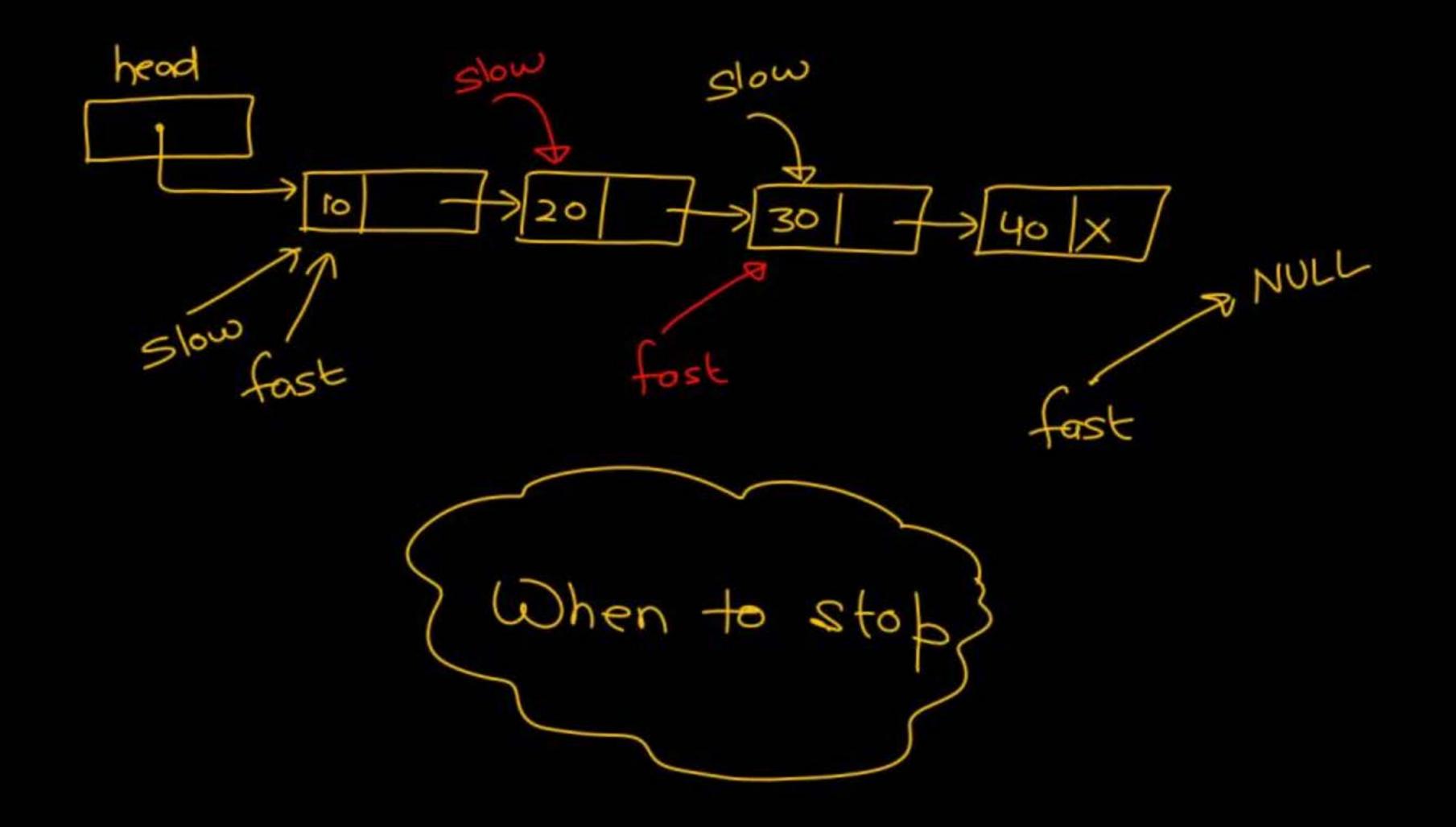


No. of nodes = count count - 0; struct Node > Ptr ; Ptr = head; While (Pto 1 = NULL) count count ++; head 20 Ptr = Ptr -> Link; if (count = = 0) PEr count = count/2; Count = 1 PEX => for (i=1, i <= count; i++) PEr = Ptr -> Link print ("/d' Ptr->data),

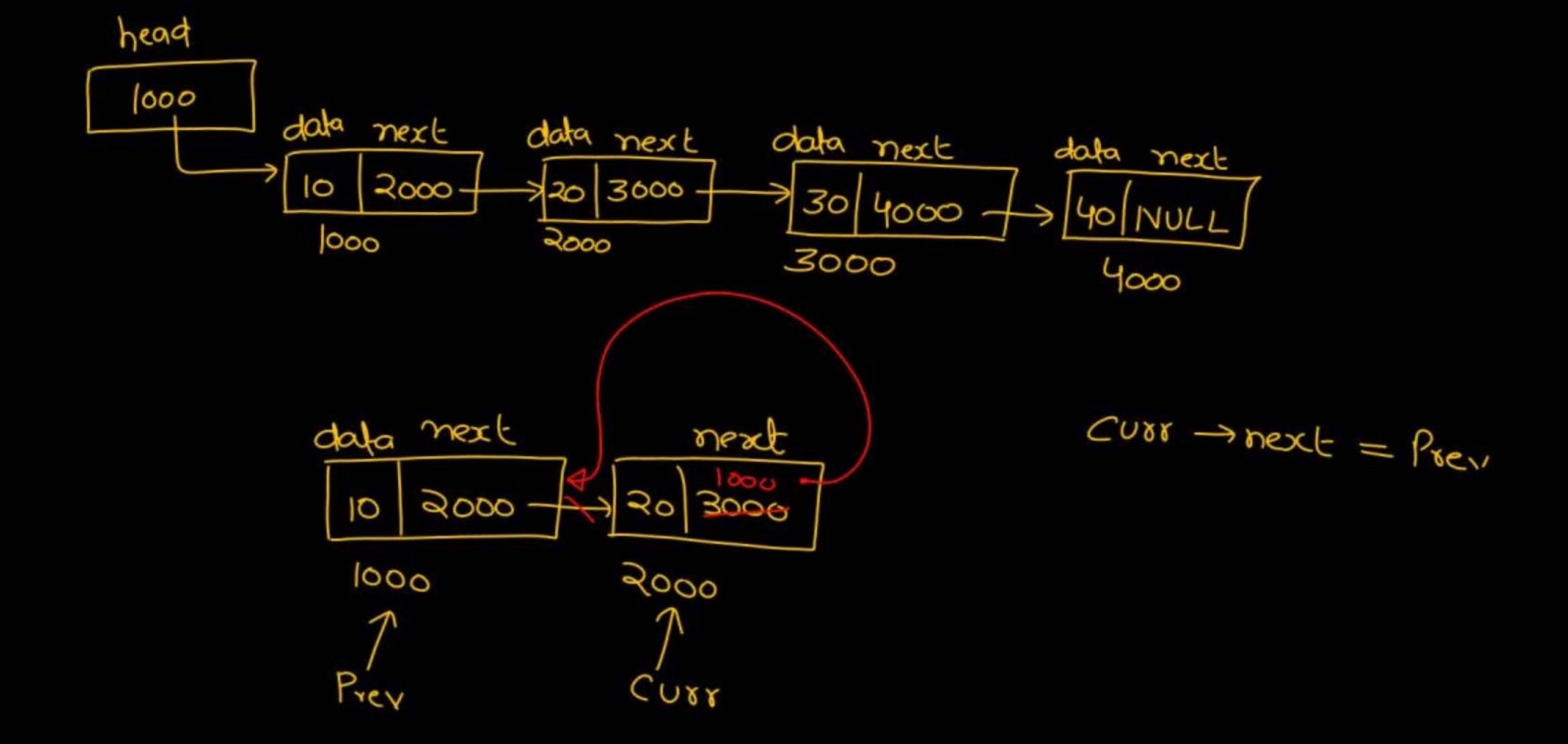
(\*Ptr) data

## 2nd approach





struct Node + slow, fast; slow = head; fast = head, if (head = = NULL) return : True slow = slow -next fast = fast mext mext mext; print ("/d", slow-idala);



Intersection Boint in Linked list 7 40 1 750 150 18 60 NULL 7 90 / 100 headz

Detect a loop in linked list (Oing 30 fast 20 60 Slow

linked)

