

# Struktur Data

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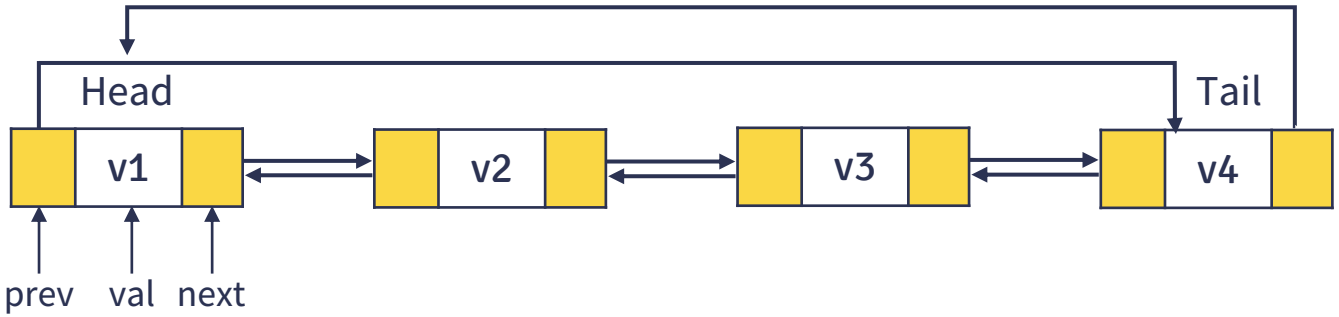
## EPISODE 4D

## Circular Double Linked List

# Circular Double Linked List ?

- Struktur node sama seperti Double Linked List yang mana terdapat data, pointer prev dan pointer next.

- Karena Circular linked list maka pointer next pada tail menunjuk ke head dan pointer prev pada head menunjuk ke tail.



# Deklarasi & Inisialisasi ?

```
/*
  struct LinkListName{
    // komponen / member
    dataTypeData1 dataName1;
    . . .
    LinkListName *prev;
    LinkListName *next;
  };
*/
```

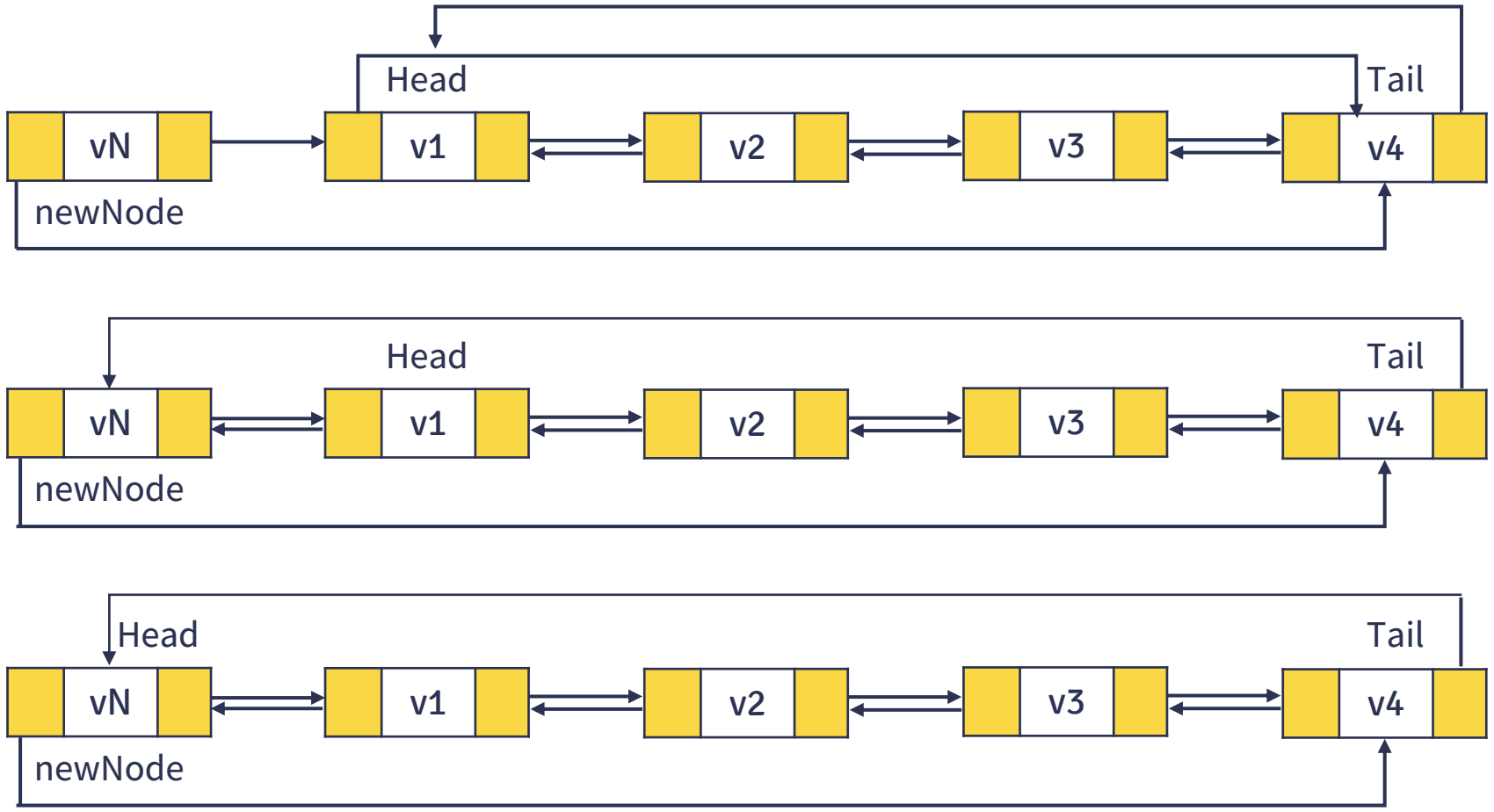
```
/*
  LinkListName *head, *tail;
  head = (LinkListName*) malloc(sizeof(LinkListName));
  tail = new LinkListName();
*/
/*
  head->dataName1 = valData1;
  . . .
  head->prev = tail;
  head->next = tail;

  tail->dataName1 = valData1;
  . . .
  tail->prev = head;
  tail->next = head;
*/
```

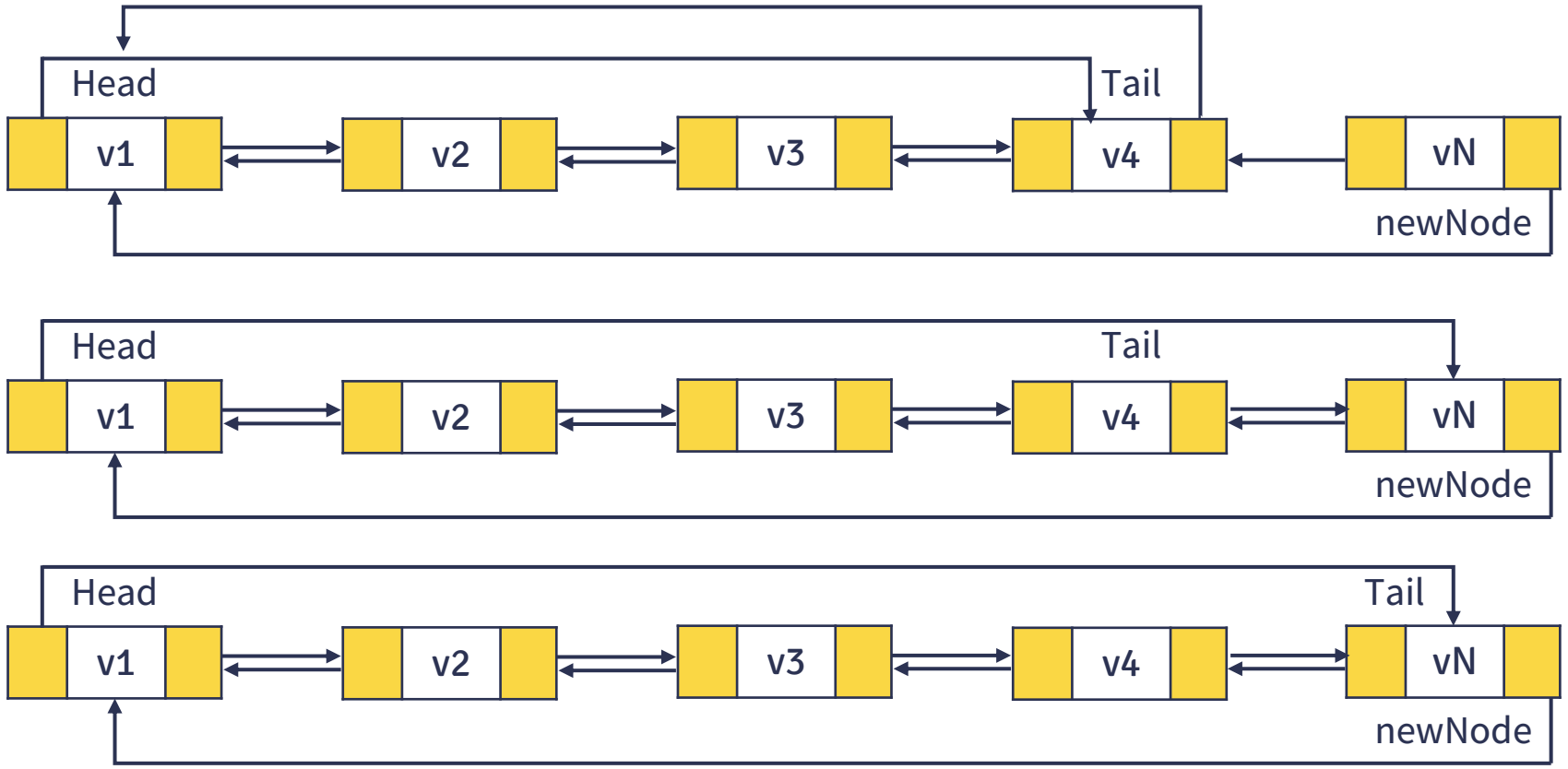
# Print Circular Double Linked List ?

```
/*
  LinkListName *cur;
  cur = head;
  while( cur->next != head ){
    // print
    cur = cur->next;
  }
  // print last node
*/
```

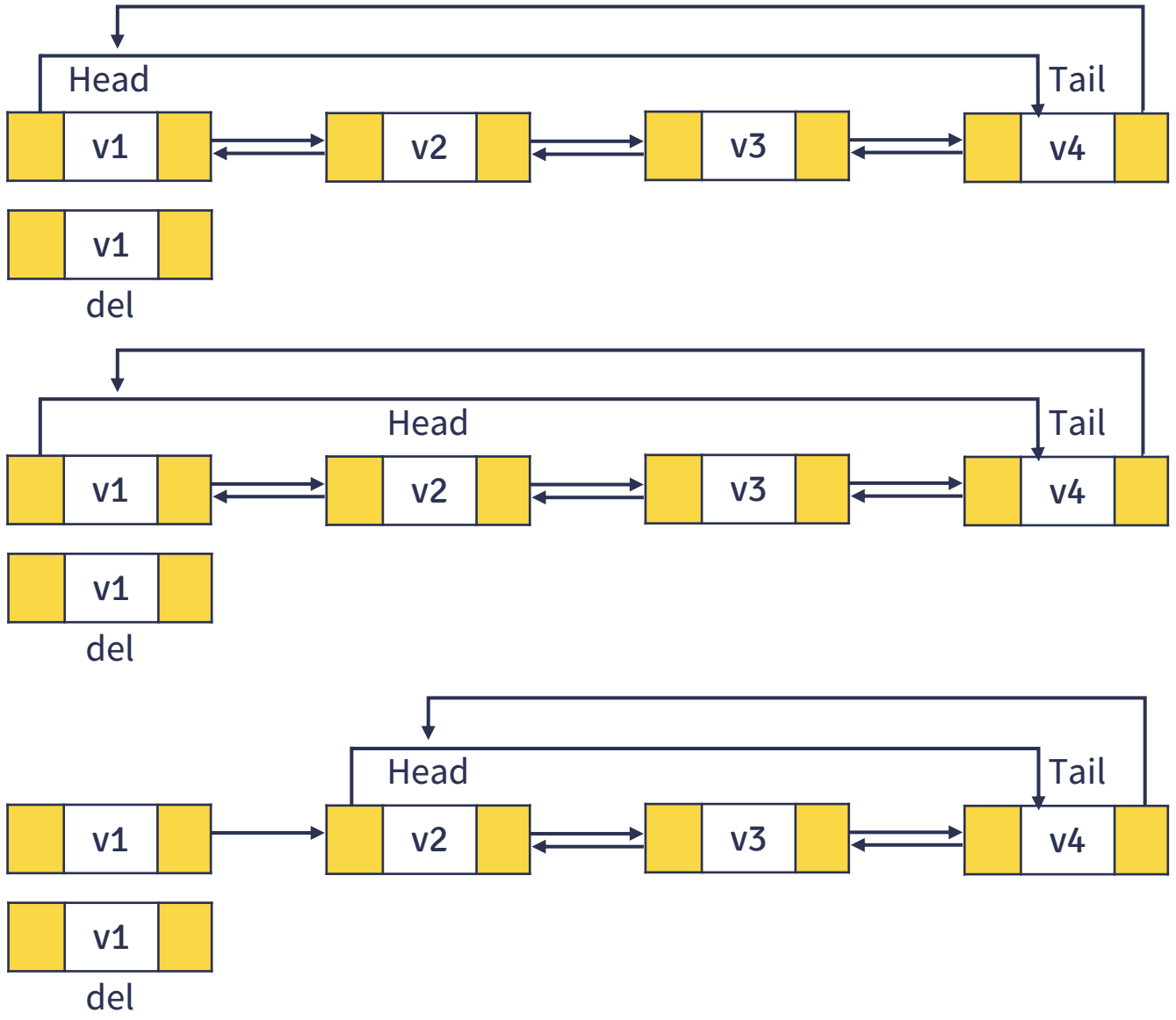
# Added at Beginning Node ?



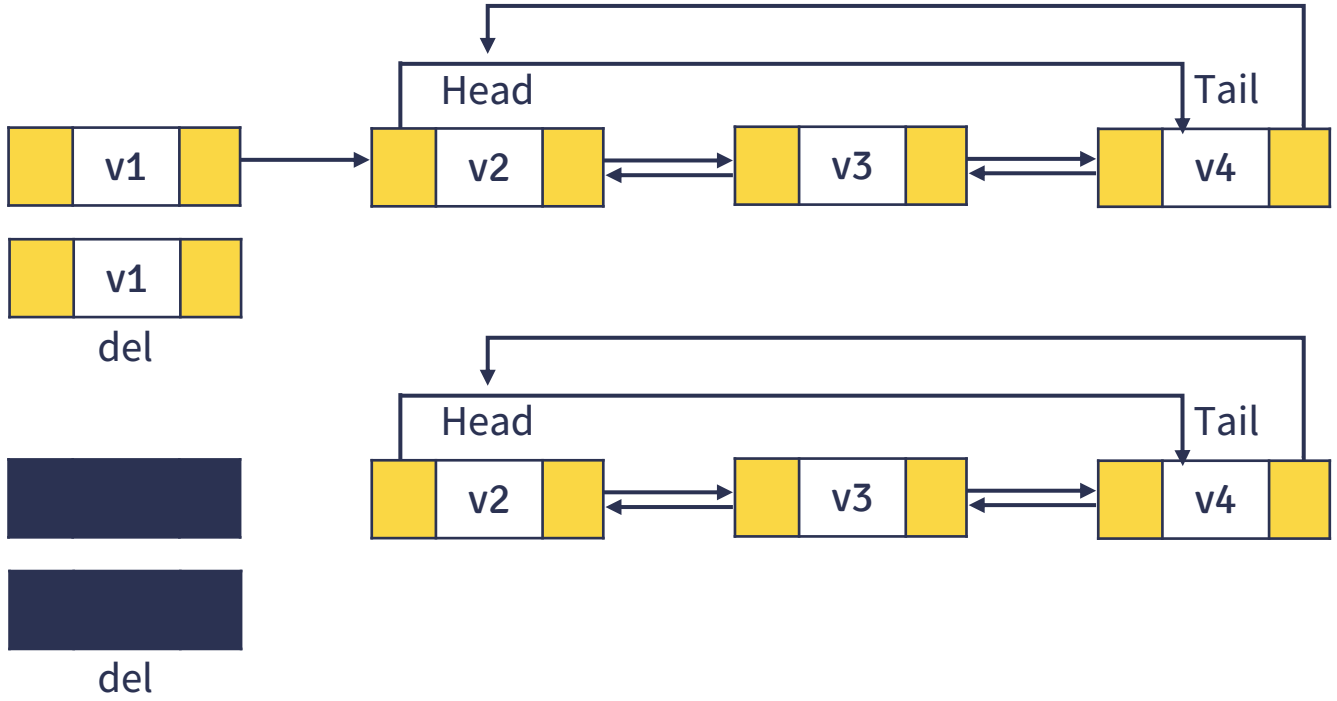
# Added at Last Node ?



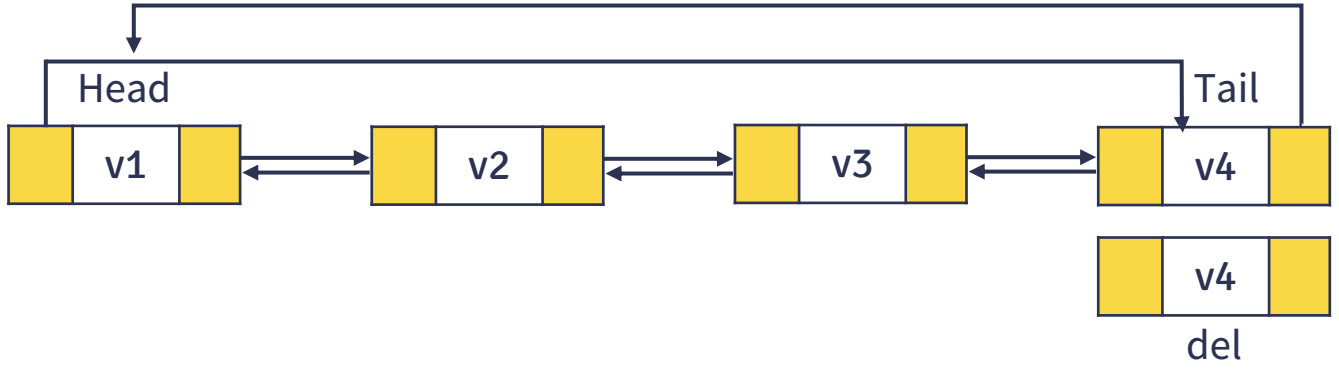
# Delete the First Node ?

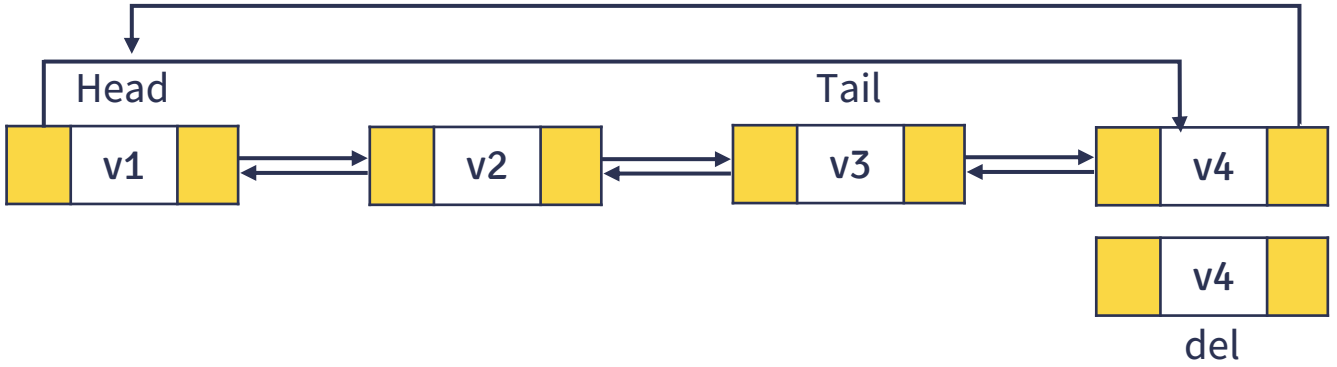


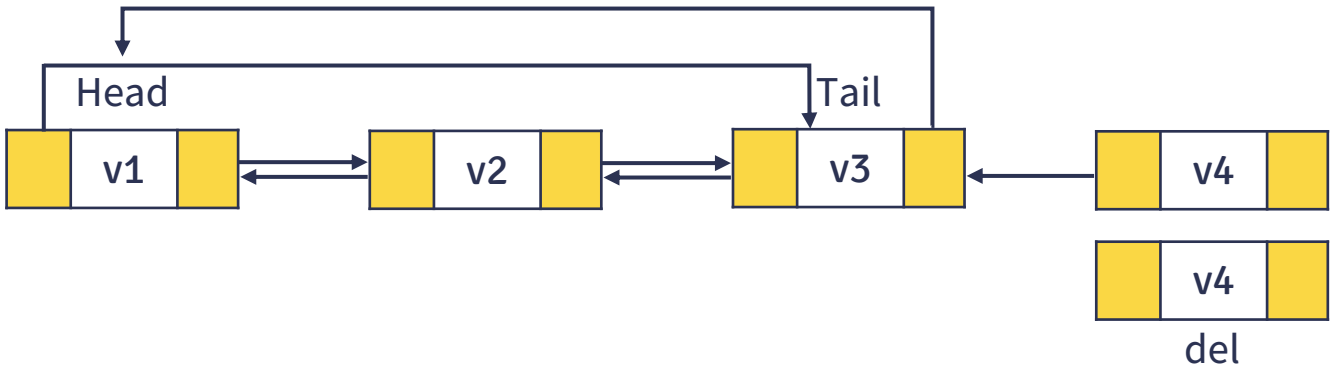
# Delete the First Node ?



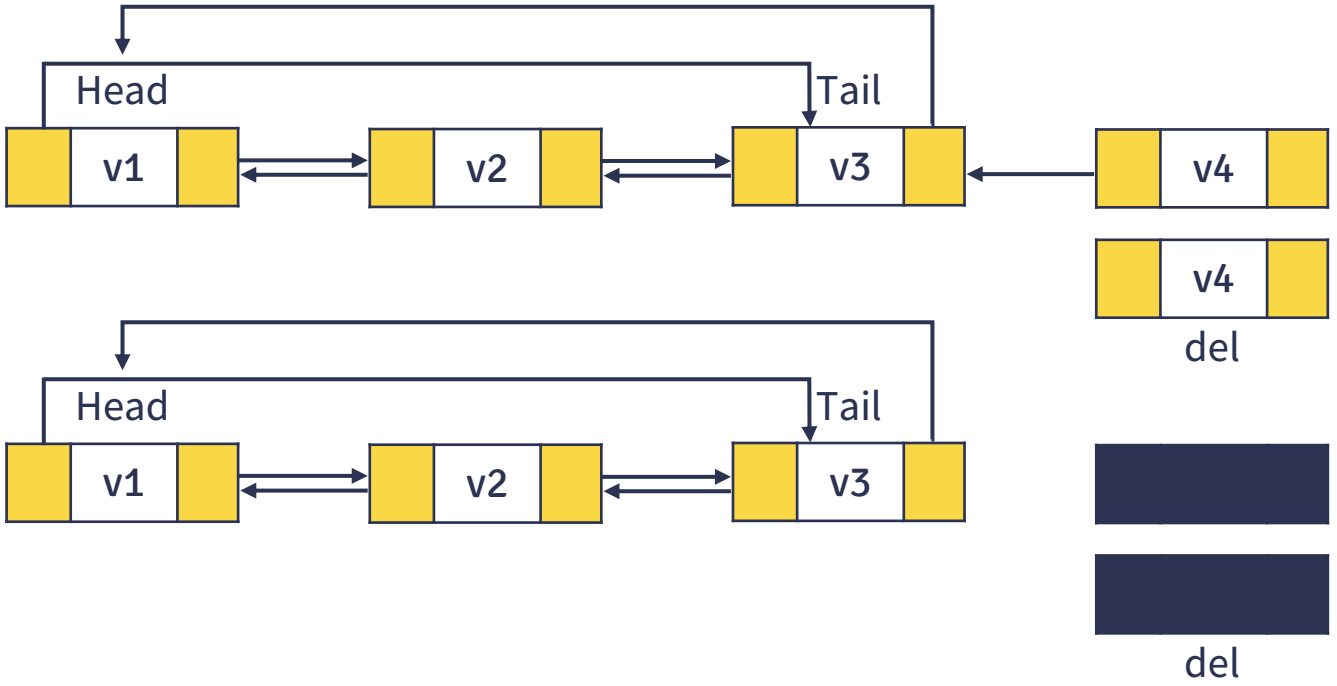
# Delete the Last Node ?



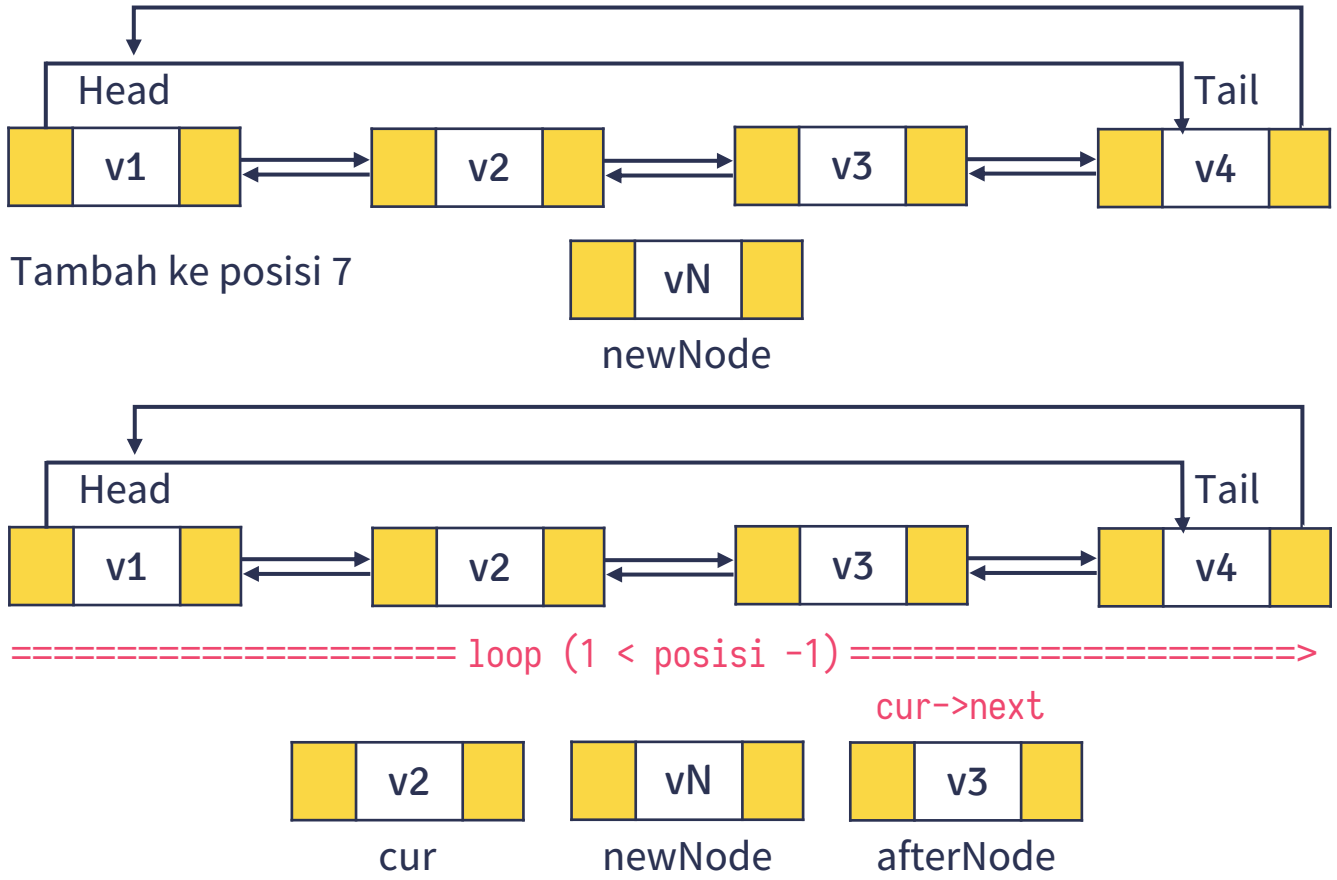



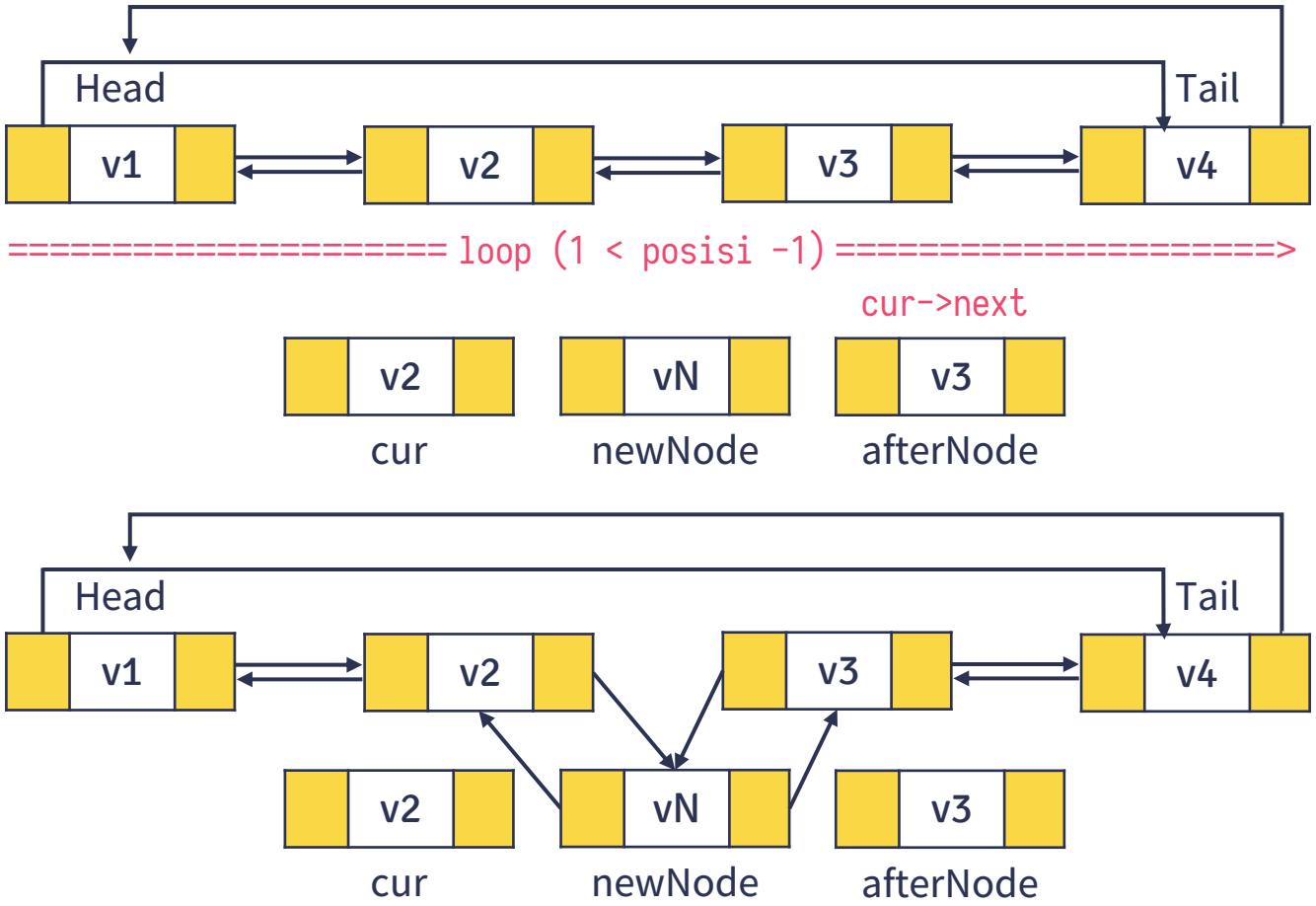
# Delete the Last Node ?



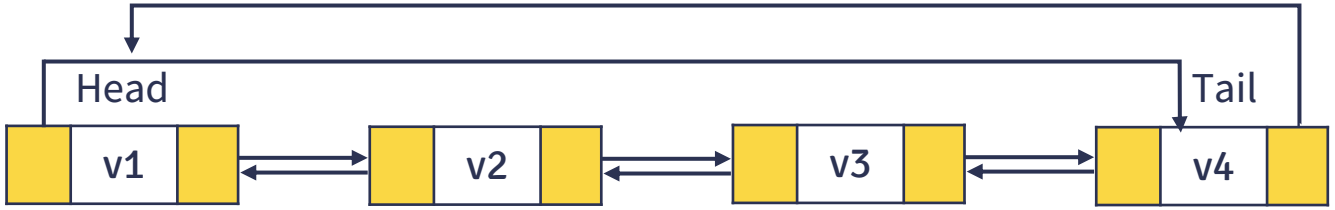
# Added at Middle Node ?



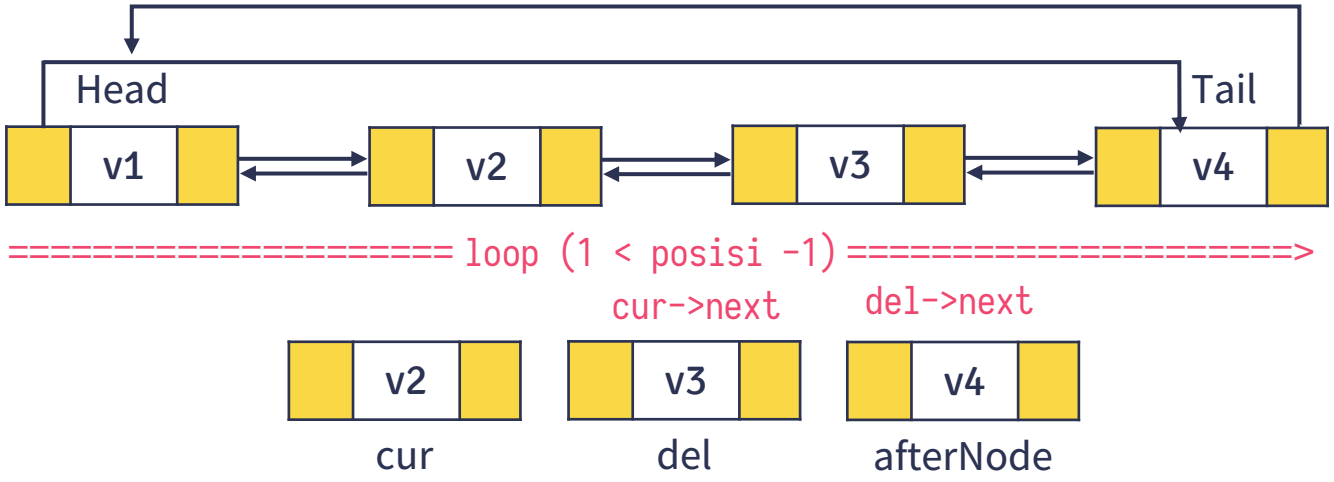
# Added at Middle Node ?



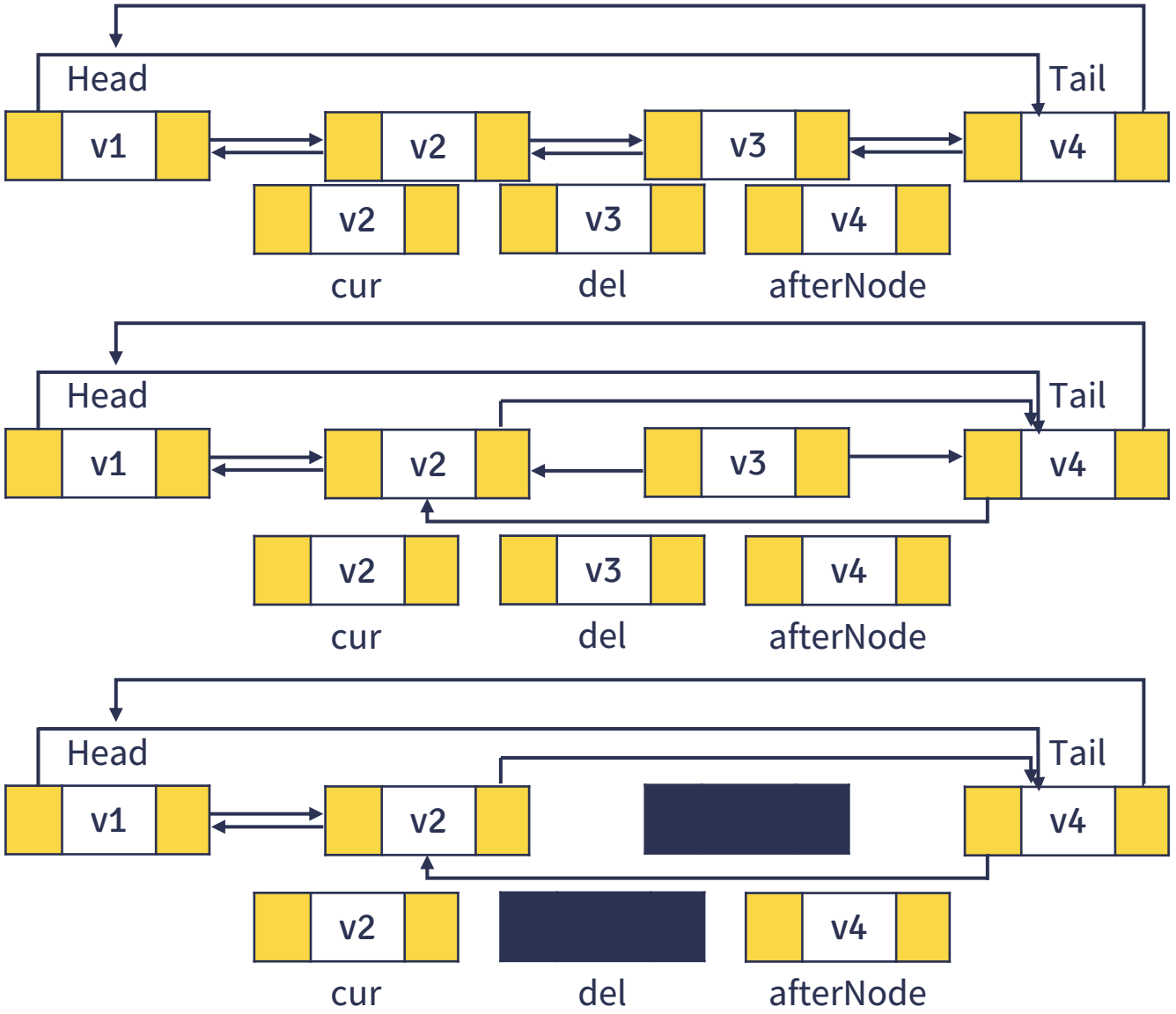
# Delete at Middle Node ?




Hapus posisi ke-7



# Delete at Middle Node ?



## Video Selanjutnya

# Stack (tumpukan)

Thank you

#KEEPLEARNING
#KEEPSPIRITS