













Struktur Data

Saniati, S.ST., M.T.

EPISODE 4B

Double Linked List



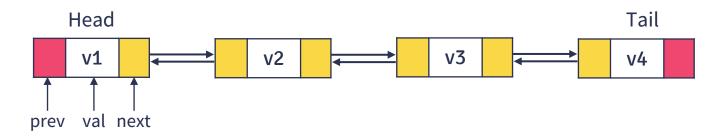






Double Linked List?

- Double Linked List merupakan suatu linked list yang memiliki dua variabel pointer. Dimana pointer tersebut menunjuk ke node sebelum dan selanjutnya (prev & next).
- Double Linked List terdiri dari sejumlah elemen (node) dimana setiap node memiliki penunjuk prev (menunjuk node sebelumnya) dan next (menunjuk node selanjutnya).
- Penunjuk prev pada node head menunjuk ke NULL, menandakan bahwa node head (node awal).
- Penunjuk next pada node tail menunjuk ke NULL, menandakan bahwa node tail (node akhir).





Deklarasi & Inisialisasi?





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



Print Double Linked List?

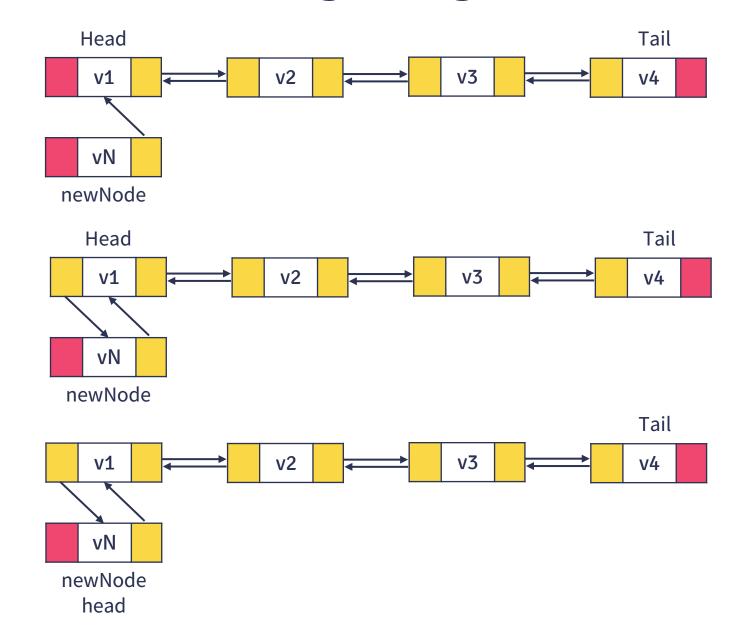




```
/*
LinkListName *cur;
cur = head;
while( cur != NULL ){
    // print
    cur = cur->next;
}
*/
```



Added at Beginning Node?



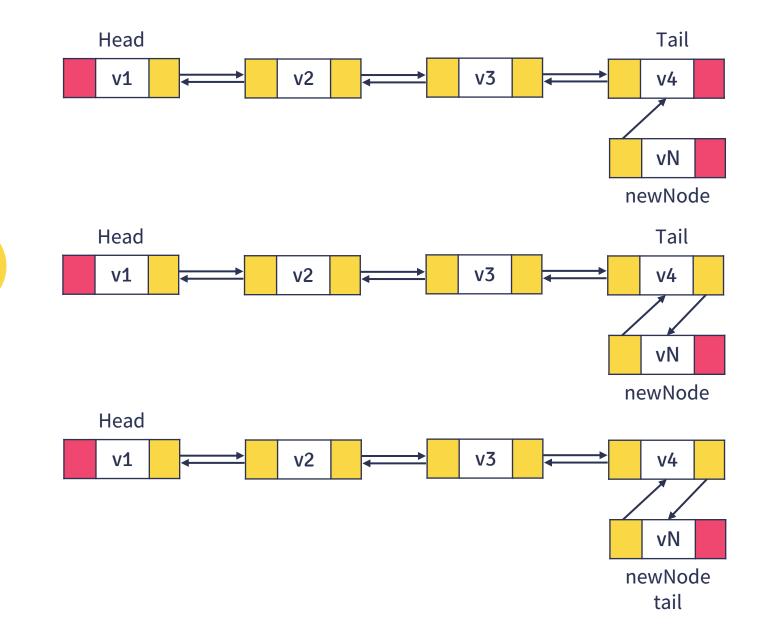








Added at Last Node?



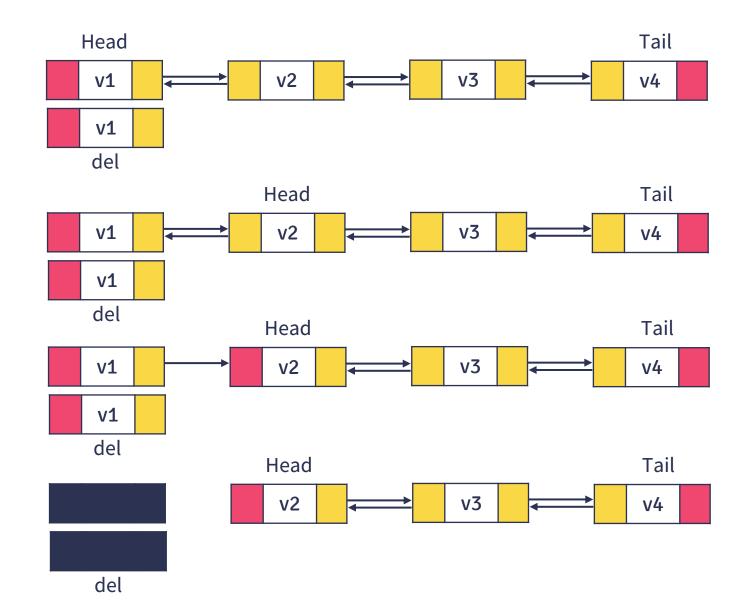








Delete the First Node?











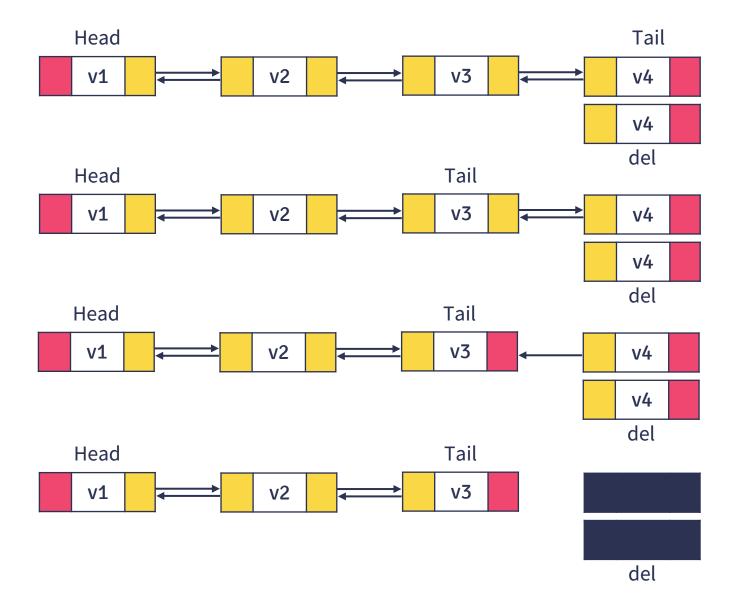




Delete the Last Node?

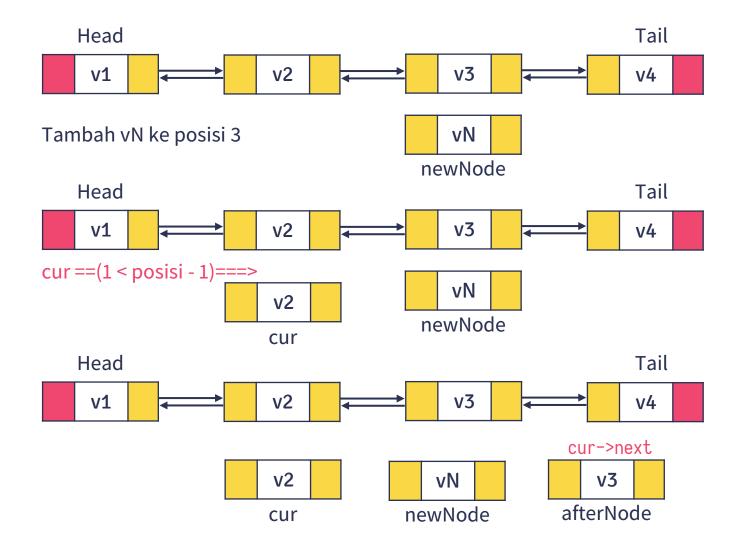








Added at Middle Node?



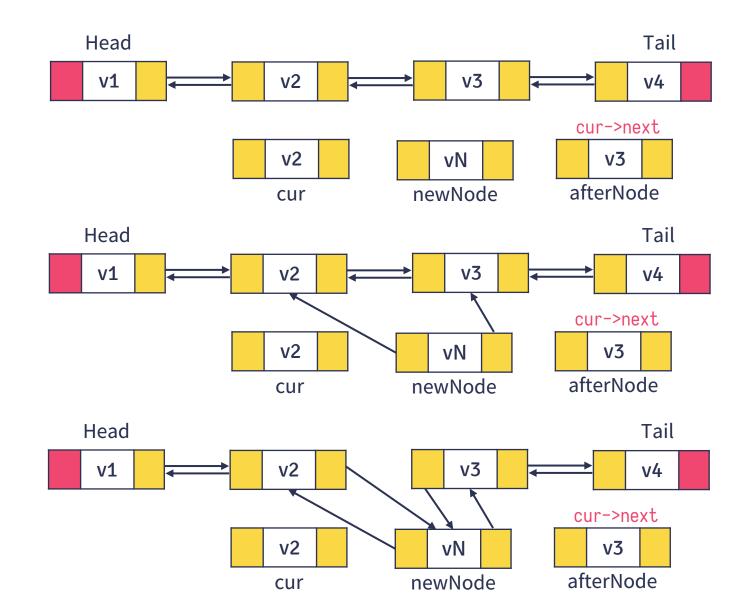








Added at Middle Node?

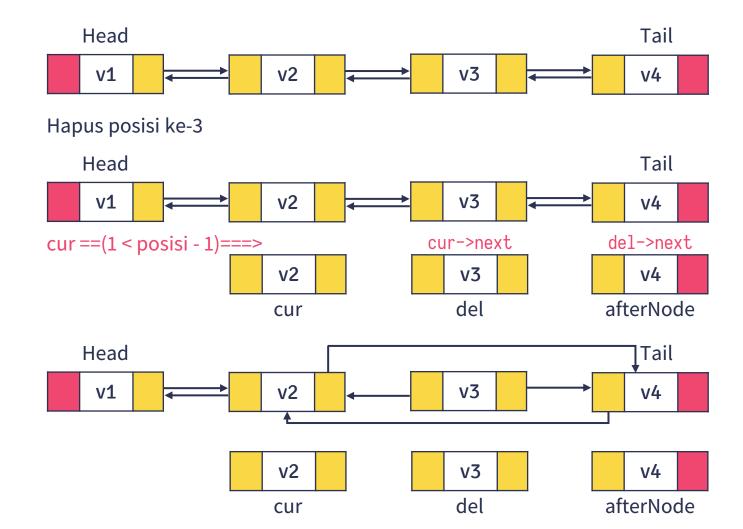








Delete at Middle Node?



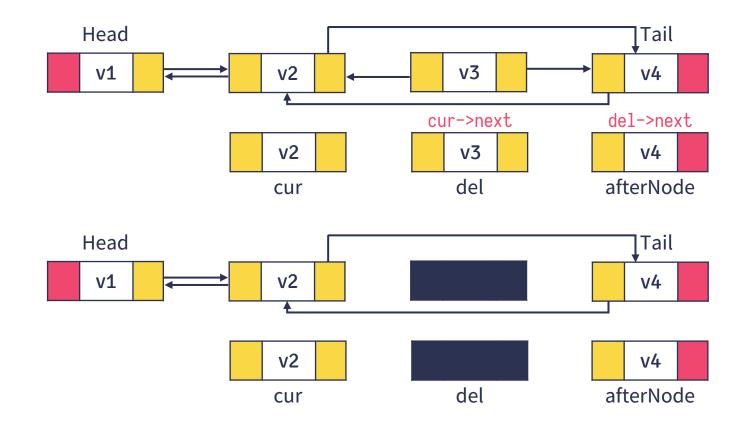








Delete at Middle Node?















Video Selanjutnya

Circular Single Linked List









Thank you

#KEEPLEARNING #KEEPSPIRITS