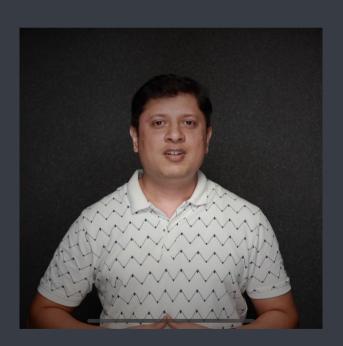
#### DSA through C++

#### Circular doubly linked list



Saurabh Shukla (MySirG)

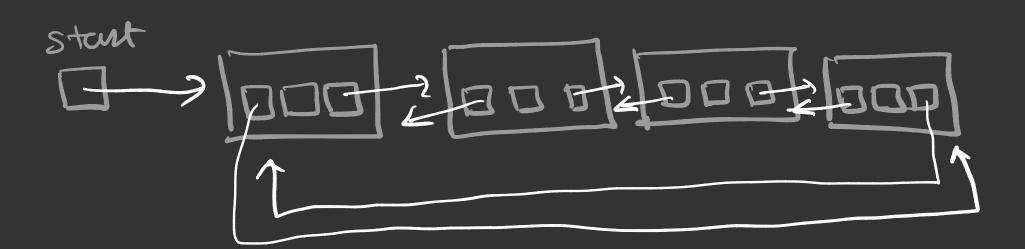
# Agenda

- (1) Not utilizing next and prev pointers in DLL
- 2 Circular doubly linked list
- 3 node
- (4) insertion and deletion

## Not utilizing next and prev pointers in DLL

Start
13 DOB 2 DOB 200 200

## Circular. Doubly Linked List



## node

struct node

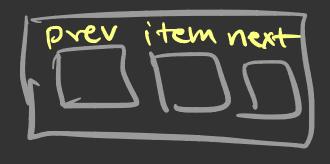
2

node \*prev;

int item;

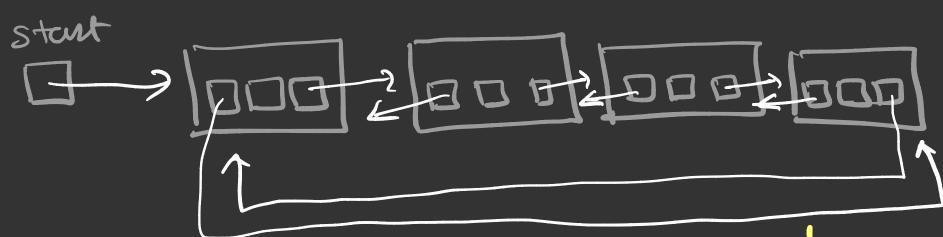
node \*next;

3;



## Insertion in CDLL

node\*n=new node;



#### fintnode

```
n-) prev = stant >prev;

n-) next = stant;

n-) next = prev = n;

n-) prev -> next = n;

stant = n;
```

### lust node

n->next = Stant; n->next = Stant; n-> prev -> next = n; n-> next-> prev = n;

### Deletion in CDLL

```
r= stant;

stant >prev > next = r > next;

y > next > prev = r > prev;

stant = r > next;

delete r;
```

```
Y-)prev->next = stant;
stant->prev = Y->prev;
delete 8;
```