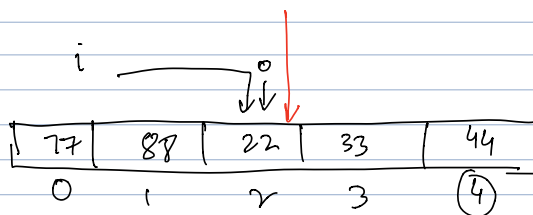
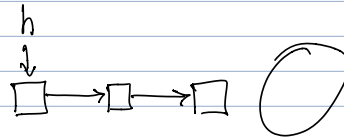


— oop

LIFO , FIFO



int q[5];

enqueue

dequeue

5

11

22

33

44

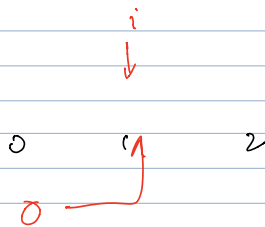
5 d

11 d

77 en

88 en

5
11
22
33
44



"if you enqueue,

and $i == 0$

then q is full;

Because the location
for next insertion
is already filled

"if you dequeue,
and $i == 0$
then q is empty."

↳ because
0 is
set to that!"

Enqueue:

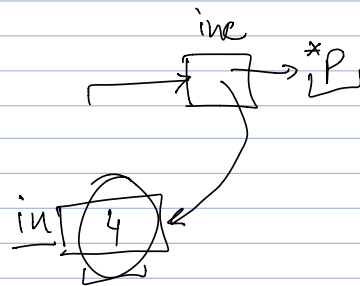
- first check if q is full —
- insert new val at index i
- move i
- if $i == 0 \rightarrow$ is-full = true
- is-empty = false

Dequeue:

- first check if q is empty
- take value from 0
- move 0
- if $i == 0 \rightarrow$ is-empty = true
- is-full = false

inc: size = 5

0 \rightarrow 1 ✓
1 \rightarrow 2
2 \rightarrow 3
3 \rightarrow 4
④ \rightarrow 0



$in = 0$

```
inc(int *p) {  
    *p = *p + 1;  
}
```

$\leftarrow inc(\&in)$

3

