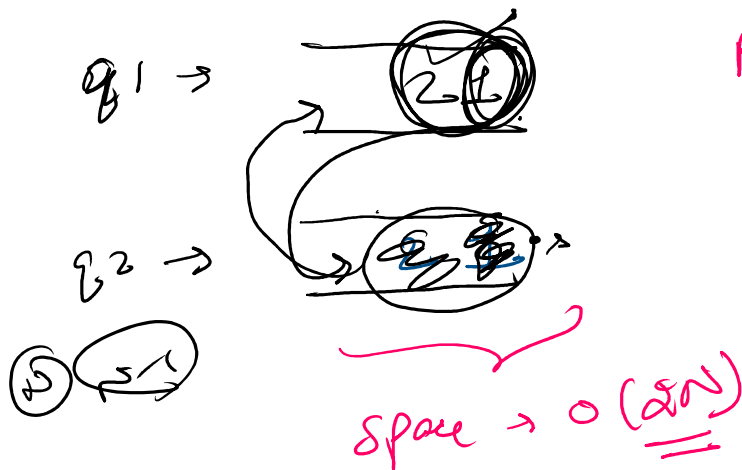
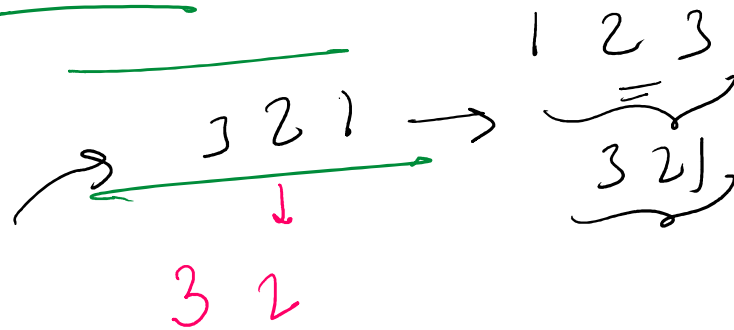
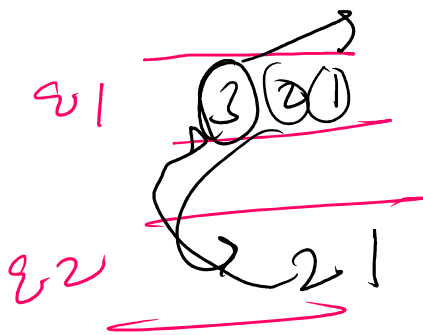


3.14 - Stacks + Queues - 1

Thursday, August 7, 2025 9:03 PM

- Implement Stack using Queue
- Circular Queue
- Con tests Discuss

Implement Stack using Queue
FIFO



push(1)
push(2)
push(3)
pop()

3

push(1)
push(2)
push(3)

(3)

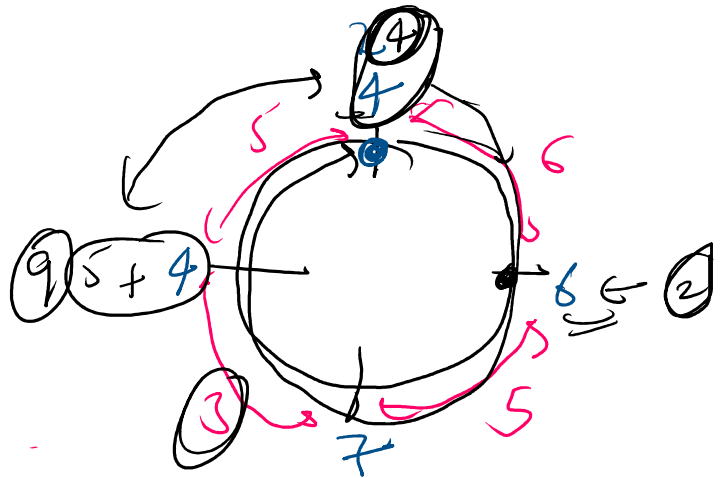
pop()
pop()

Circular Tour

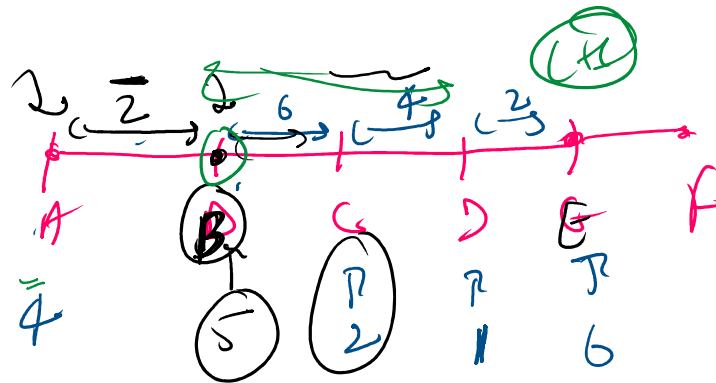
$P \rightarrow 4 \quad 6 \quad 7 \quad 4$
 $ds \quad 6 \quad 5 \quad 5 \quad 5$

$$6 - 5 = 1$$

$$1 + 7 = 8 - 3 = 5$$



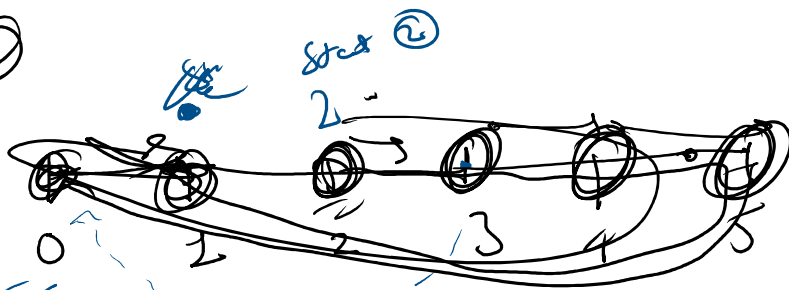
$+2+5$
 $B = 7$
 $B = 5$



$4 - 2 = 2$
 $2 + 5 = 7$
 $7 - 6 = 1 + 2$
 3

$F = 0$
 $F = 1$
 $F = 2$
 $F = 3$
 $F = 4$

$(1+2) \cdot 1 = 6$
 $(2+2) \cdot 1 = 6$
 $(3+2) \cdot 1 = 6$
 $(4+2) \cdot 1 = 6$
 $(5+2) \cdot 1 = 6$



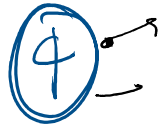
for ($i = 0$; $i < 6$; $i++$)
 $dist = (4+5) \cdot 1 = 9$

... order for an array

How to iterate circularly in an array

for (i=0; i<n; i++)
 idx = (i + start) % n

Contest Discussion



k^{th} week
 BS + PQ Bin



70
 5776

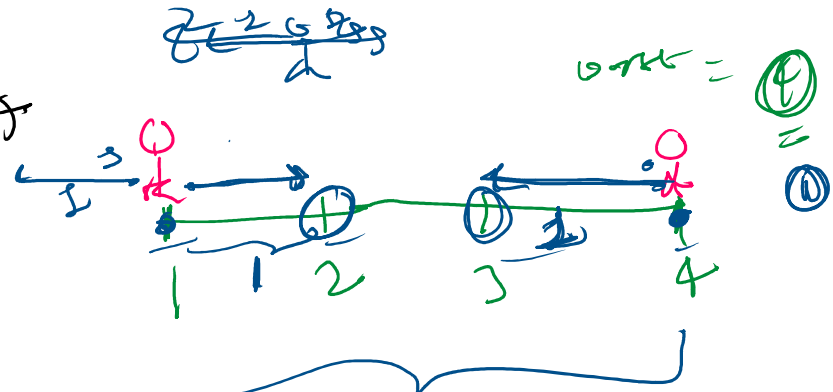
$\% 10 \rightarrow 6$
 $\% 10 \rightarrow 6$

$7^2 = 49$

$\{0\}$
 $4. 1. \rightarrow 7$
 $577 \% 8 = 7$
 $\{8, 6\}$

h > 1 2 3 4
 p > 1 4

$x = 4$



$$x = \textcircled{2}$$

$$x = 4$$

$$l = \textcircled{1}$$

$$x = \textcircled{2}$$

$$0 - 0$$

