

Stack & Queue

↓ ↓

LIFO FIFO

append()  
pop()

Last In  
first Out

first In  
first Out

append()  
popleft()  
or  
appendleft()  
pop()

→ 2 Queue ↔ stack (LIFO)

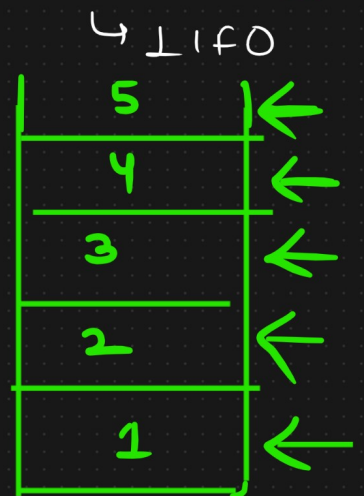
↓ ↓  
fifo

fifo

Q1 → append()

5, 4, 3, 2  
Stack 1

n-1

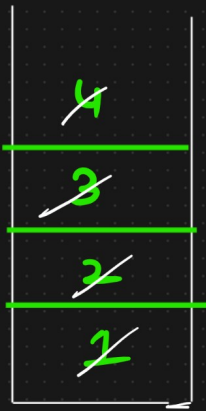


Stack

Output = 5

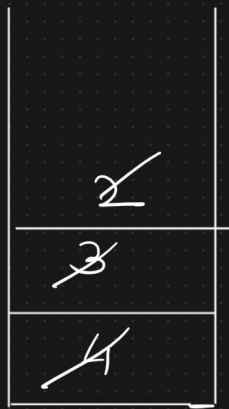
# Implement Queue using two stacks

Pop



S1

Stack



S2

(1, 2, 3, 4)

1, 2, 3, 4

Queue

(fifO)

pop()

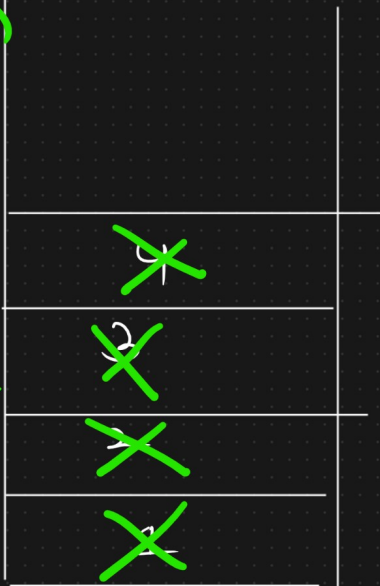
3

2

1

0

S1



S1

S2

3

2

1

0



Stack

S2

append()

fifO

1, 2, 3,

4

↓

Queue

