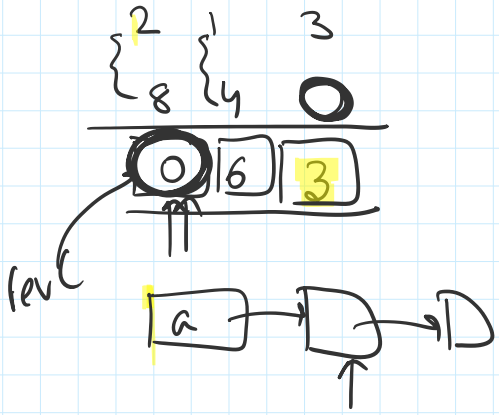
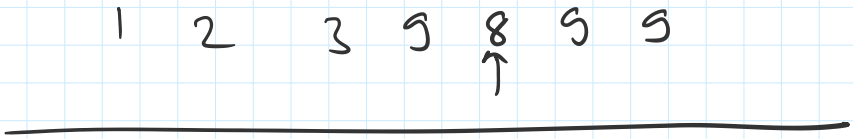
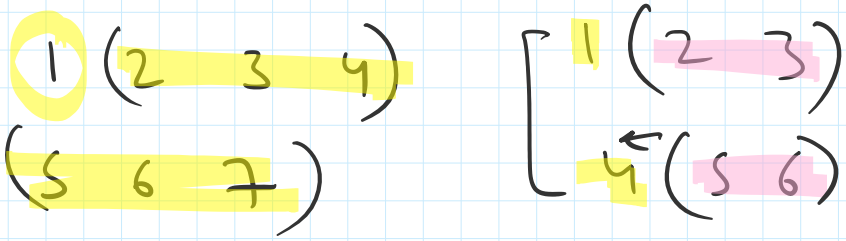
Linked List, Stacks, Queues

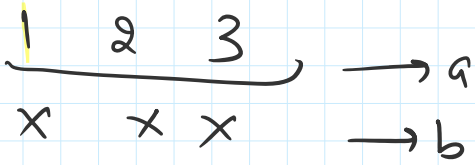
25 March 2018 10:21

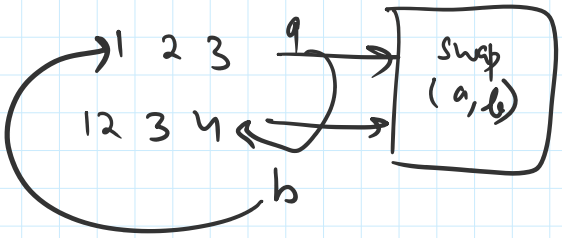


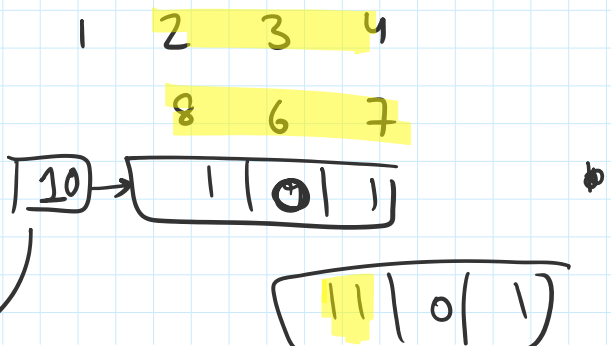
Add one

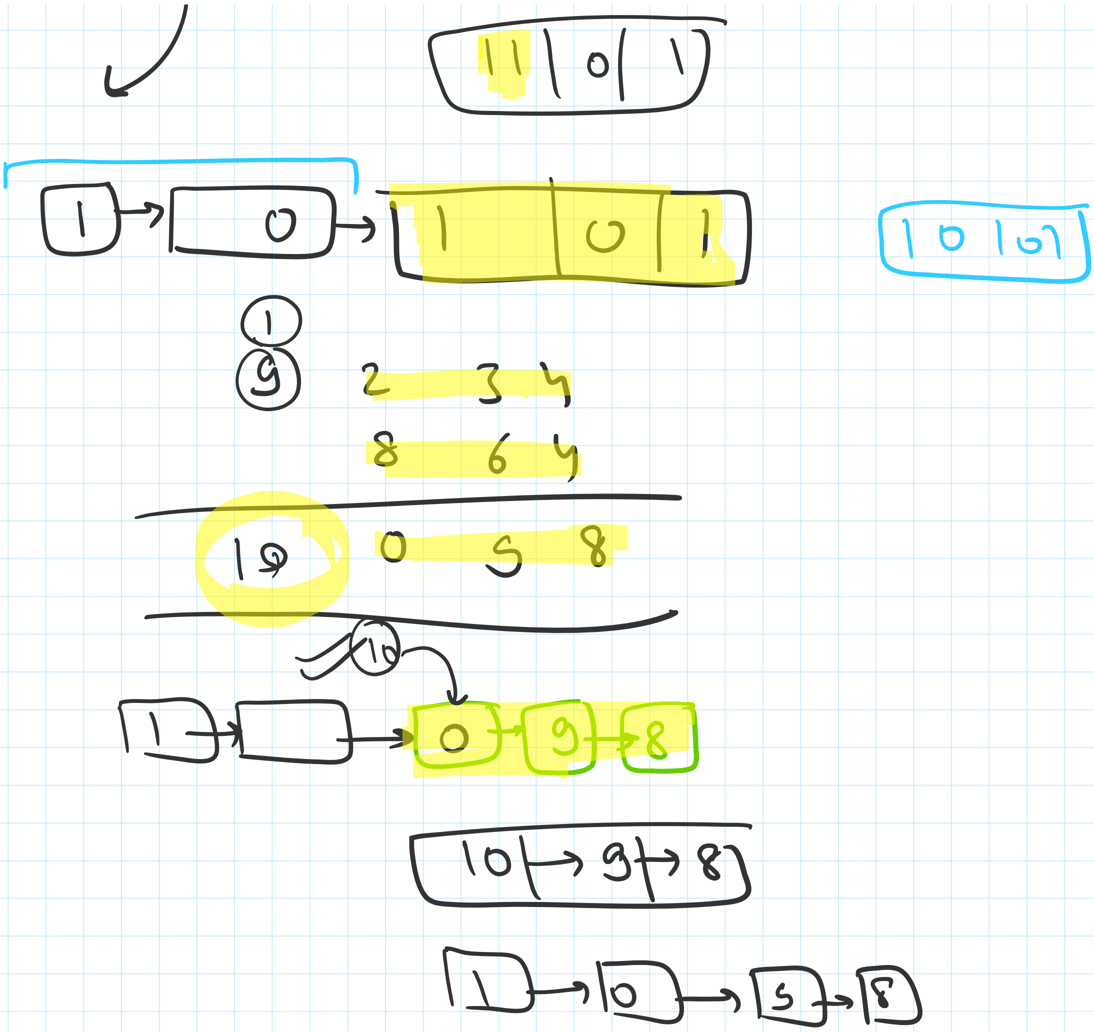


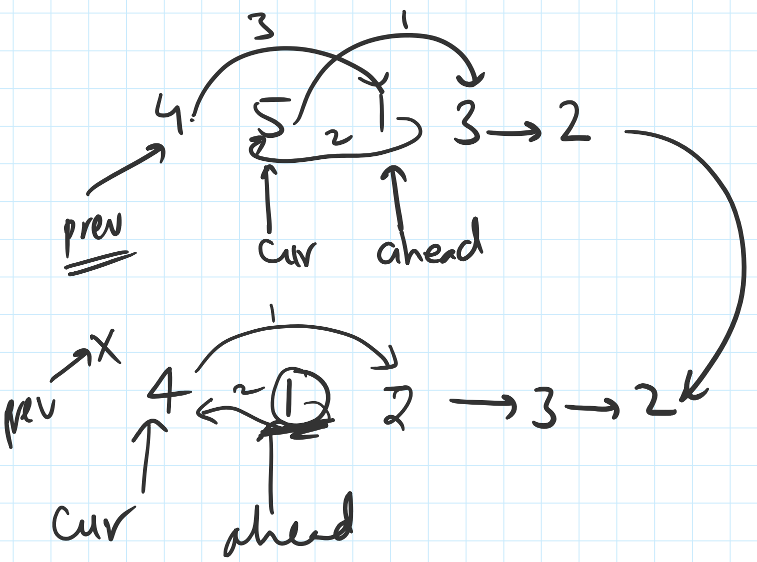










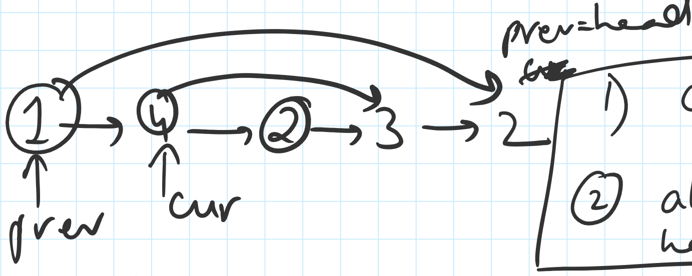


1) cur->next = ahead->next;

2) ahead->next = cur;

3) prev->next = ahead;

4) prev = ahead;
ahead = cur->



1) cur->next = ahead; (next)

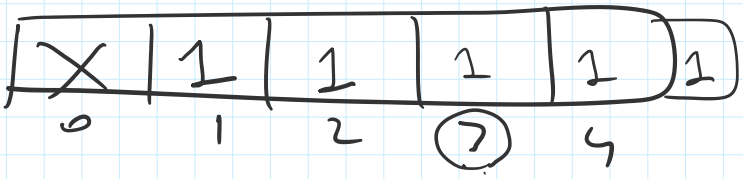
2) ahead->n = cur;
head = ~~cur~~ ahead; next;

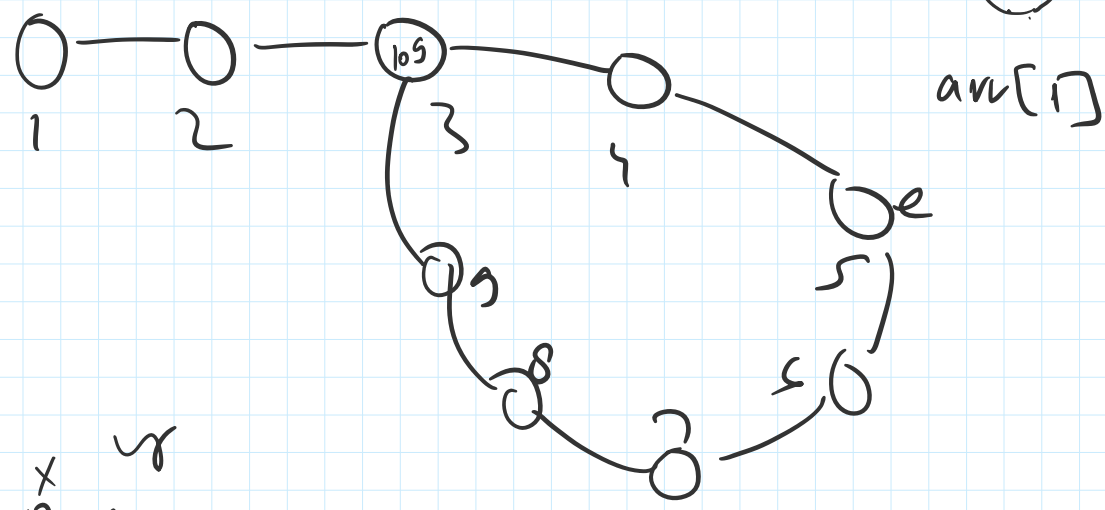
⓪ prev = cur; ← ① cur = cur->next

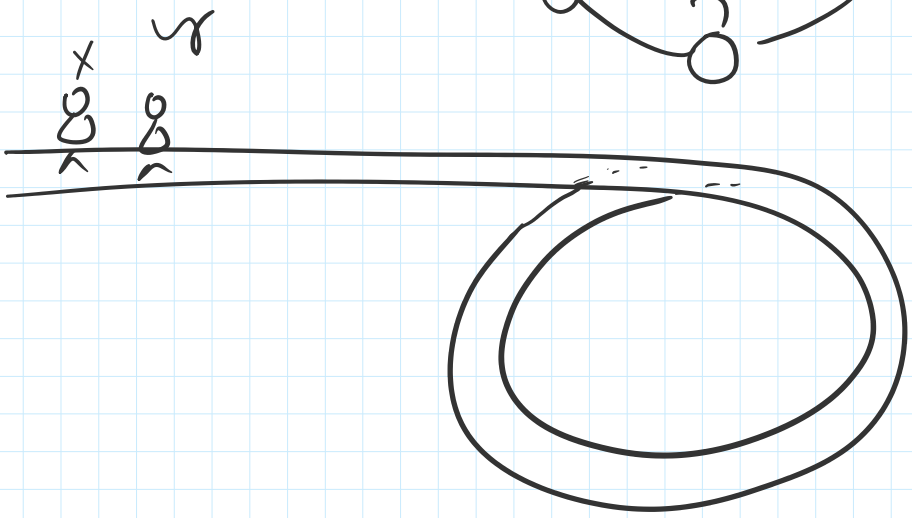
② ahead = ~~a~~ cur->next;

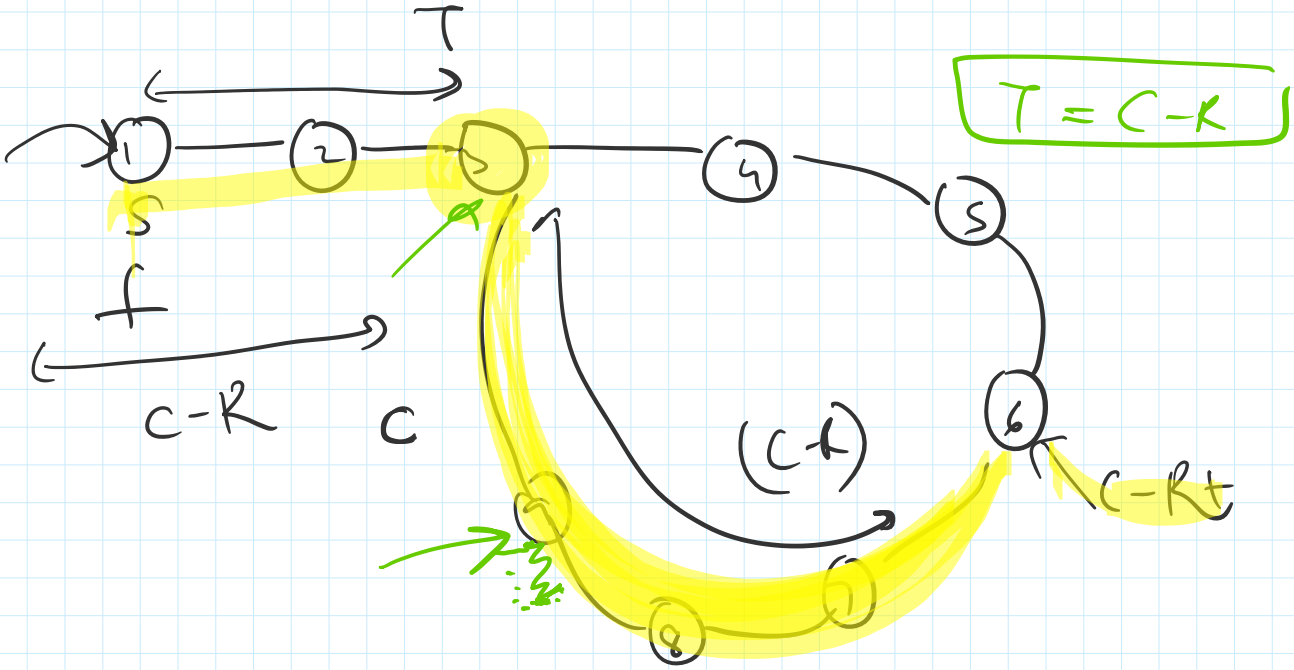
(1) cur = cur → root

(2) ahead = cur → next;









Initial pos of $c = T$

$T = KC + R$

Initial pos of $s = T$

Initial pos of $f = R$

$T = RC + R$

C-R

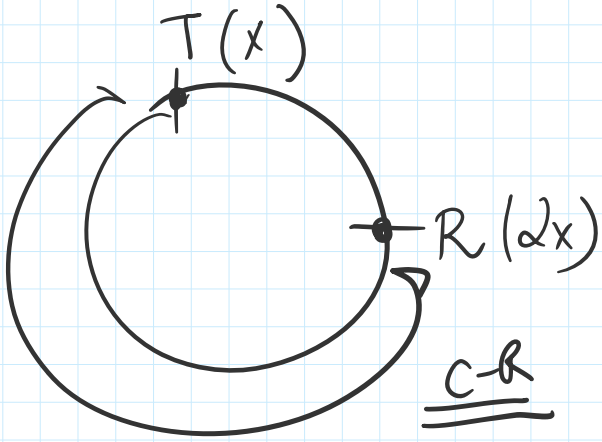
$S = C - R$

$f = 2(C-R) + R = 2C - 2R + R$

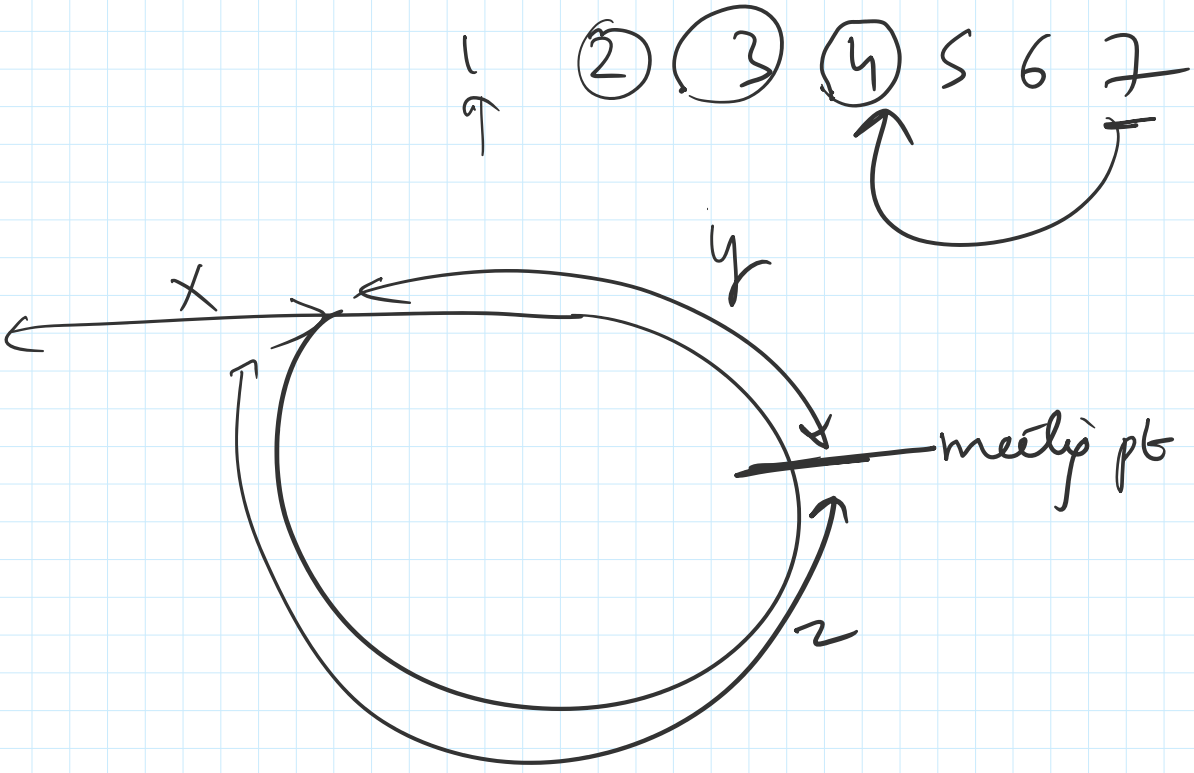
$= 2C - R$

$= C + (C - R)$

$= C - R$



C-R



$d_S = x + y$

$d_f = x + y + z + y = x + (y+z) \cdot k + y$

$t_S = t_f$

$$\frac{ds}{\rho_s} = \frac{d_f}{s_f}$$

$$\frac{m}{m/s} = s$$

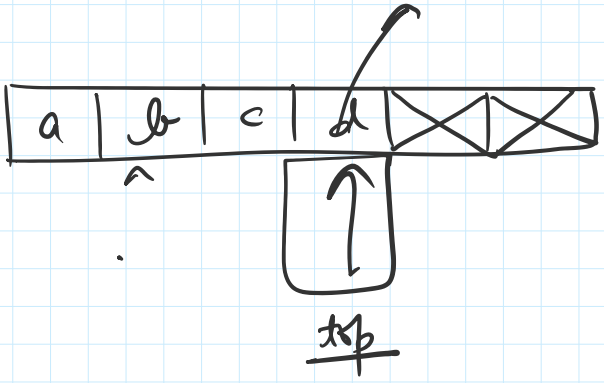
$$\frac{x+y}{1} = \frac{x + k(y+2) + y}{2}$$

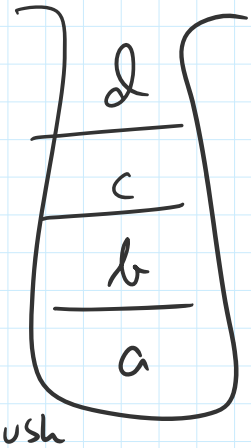
$$2(x+y) = x+y + (y+2)k$$

$$x+y = (k-1)(y+2) + (y+2)$$

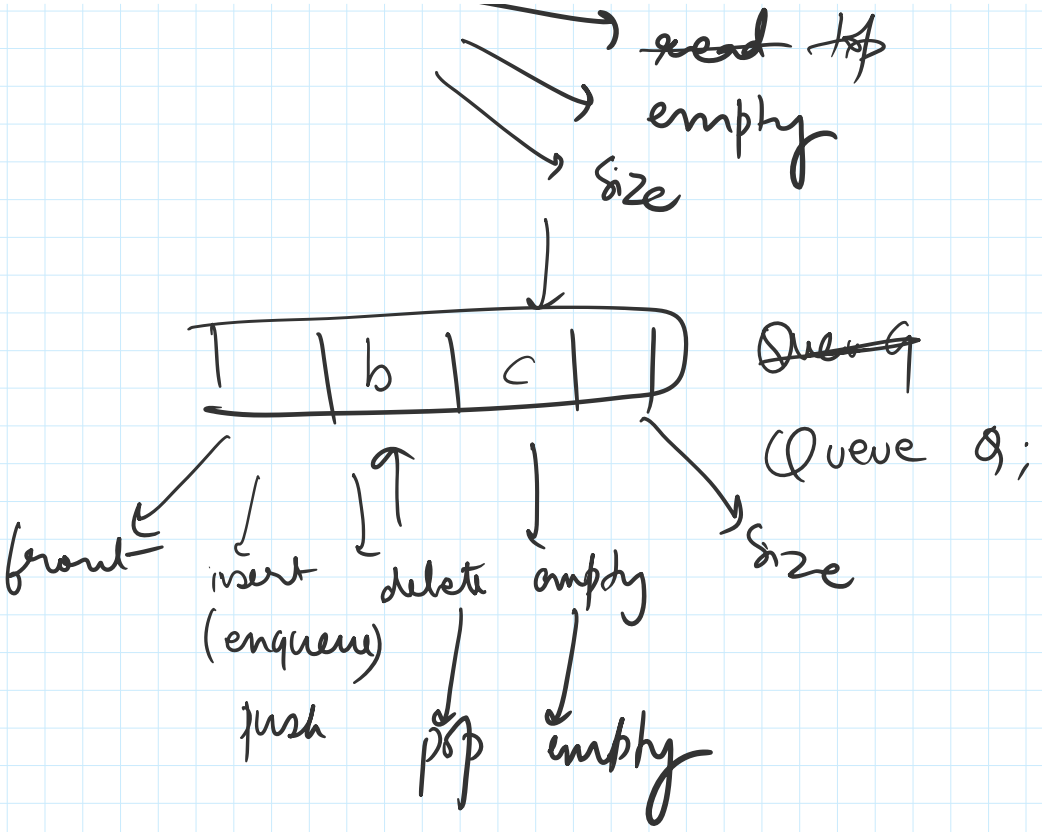
$$\boxed{x = 2} + \boxed{(k-1)(y+2)}$$

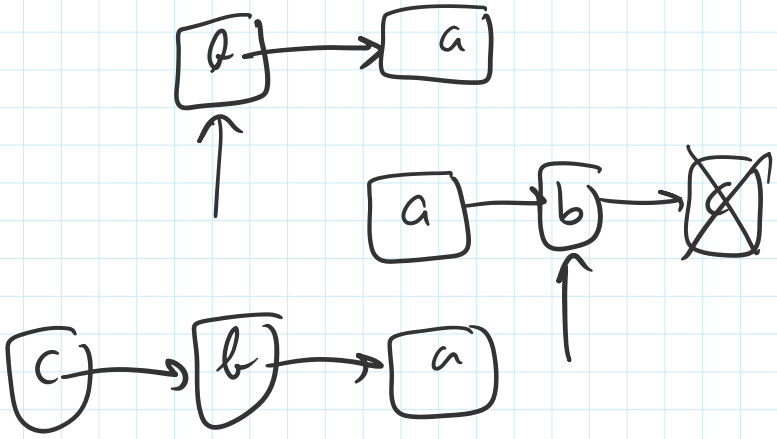
Adapters → stacks/queues





Stack S; → insert push
→ deletion pop
→ read top


~~read~~ ~~top~~
empty
size
b
c
~~Queue~~
Queue q;
front
insert
(enqueue)
push
delete
pop
empty
empty
size


a
a
b
c
c
b
a