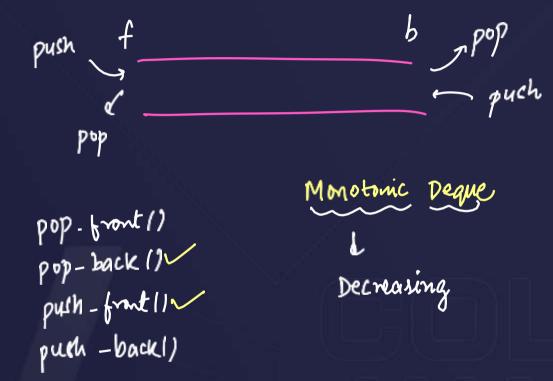


## Queues - 3

**Raghav Garg** 

#### Ques: Sliding Window Maximum

[Leetcode - 239]



Ques: Sliding Window Maximum

imum \$ 6 7 .eetcode – 239]

K=3

 $mum1 = \{1,3,-1,-3,5,3,6,7\}$ i

Window Ka last me aone Ke bood ans

R SKILLS

anc = { 3, 3, 5, 5, 6, 7}
while (nums[i] > dq. back()) pop-back;
dq. puth (nums(i])

if(i >= k-1) ans. push (dq. front)

me push

Ques: Sliding Window Maximum

R SKILLS

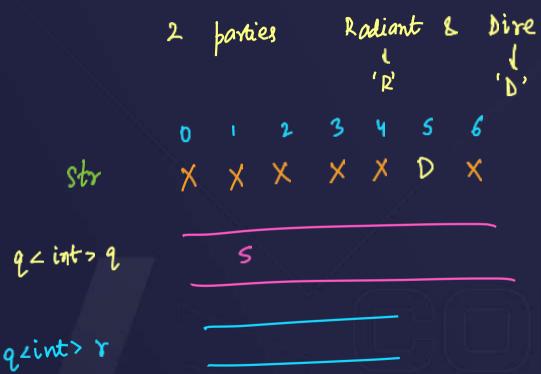
mums 
$$\{7, 2, 43\}$$
 $k=2$ 
 $i-j+l=K$ 
 $j=i-k+1$ 
 $j=i-k+1$ 

while (nums [i] 7 nums (dq.back]) dq. pop-back() dq.puch-back(i); while (dq. front () < j) dq. pop-front ();

ans. push - back ( nums [dq. f-nort]);

#### Ques: Dota2 Senate

[Leetcode – 649]



while (q. size()> 1) {

q Lint > d

5

R SKILLS Ques: Reorder Queue (Interleave 1st Half with 2nd Half) [Do this by using one Stack only] (Even Length) 1) First half ko esest & then st se 9 2) 1st (2nd) half q se st

### Ques: Reveal Cards in Increasing Order

-> Show one, put the 2nd in back

Input: deck = [17,13,11,2,3,5,7]

Output: [2,13,3,11,5,17,7]

deck = {2, 3, 5, 7, 11, 13, 17}

ans =  $\{2, \frac{13}{3}, \frac{3}{11}, \frac{11}{5}, \frac{11}{11}, \frac{7}{11}\}$ 

int idx = q. front()

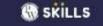
(i = 0 to 6) ans [idx] = deck[i]

R SKILLS [Leetcode - 950]

# Hint: Sort the array

· Use an extra array for secut

· Use a quene



# THANK YOU!