#### **Ques:** Sliding Window Maximum

[Leetcode - 239]



pop-front/)
pop-back()

push-front/)

push-front/)

Monotonic Deque

L

Decreasing

😘 SKİLLS

# Ques: Sliding Window Maximum

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

dq 7

ane = 
$$\{3,3,5,5,6,7\}$$

while (nums[i] > dq. back()) pop-back;
dq. purh (nums[i])
if(i >= k-1) ans. push (dq. front).

[Leetcode - 239]

K=3 Window Ka

last me aane

Ke bood ans

me push

### **Ques:** Sliding Window Maximum

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

while (nums[i] 7 nums[dq.back]) dq.pop-back()
dq.puch-back(i);
while (dq.bront() < j) dq.pop-front();
ans.push-back(nums[dq.f-ont]);

str

q = int > 9

q zint> r

## Ques: Reorder Queue (Interleave 1st Half with 2nd Half)

[Do this by using one Stack only] (Even Length)

pop() 1 5 2 6 3 7 4 8 puchl

#### Steps:

- 1) First half ko esest 2 then st se q
- 2) 1<sup>st</sup>(2nd) half q se st one by one, st se q q se q

3) neverte the (

## Ques: Reveal Cards in Increasing Order

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

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

ans = 
$$\{2, \frac{13}{3}, \frac{3}{11}, \frac{11}{5}, \frac{12}{11}, \frac{7}{11}\}$$

#### [Leetcode - 950]

- · Use an extra
  - array for sesuet
- · Use a quene



# THANK YOU!