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1	3	-1	-3	5	3	6	7
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k=3

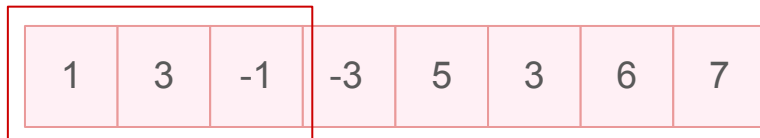
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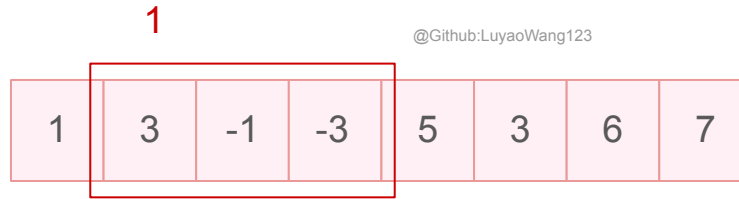
$k=3$, so the window size is always 3

0

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For window 0, we always store
non-increasing, so
deque stores 3, -1, res=[3]



For window 1,
deque stores 3, -1
As the element being removed is 1, $1 \neq 3$, so 3 still in deque;
As the element being added is -3, $-3 < -1$, add -3 to deque
Deque stores 3, -1, -3, res = [3, 3]

2

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For window 2,

deque stores 3, -1, -3

As the element being removed is 3, so 3 is removed

As the element being added is 5, $5 > -3$, $5 > -1$, so all elements removed, and then add 5

Deque stores 5, res = [3, 3, 5]

3

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For window 3,

deque stores 5

As the element being removed is -1, so 5 is not removed

As the element being added is 3, $3 < 5$, so add 3

Deque stores 5, 3, res = [3, 3, 5, 5]

4

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For window 4,

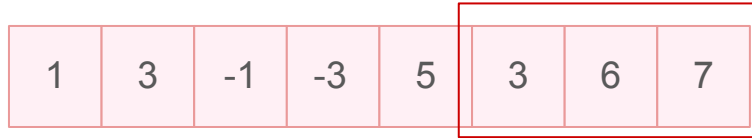
deque stores 5, 3

As the element being removed is -3, so 5 is not removed

As the element being added is 6, $6 > 3$, $6 > 5$, so all elements removed, and then add 6

Deque stores 6, $\text{res} = [3, 3, 5, 6]$

5
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For window 5,
deque stores 6

As the element being removed is 5, so 6 is not removed

As the element being added is 7, $7 > 6$, so all elements removed,
and then add 7

Deque stores 7, res = [3, 3, 5, 6, 7]