deque

$k = 3$

$i - k$ ——— pos ——— i

$pos >= i - k$

-7	9	2	4	-1	5	6	7	1
1	2	3	4	5	6	7	8	9

I

loop th.
first k
elems.
to form deque

1: -7
2: -7, 9
3: ⊝-7, 2

**continue
by
following
the
rules**

4: ②, 4
5: ⊝-1
6: ⊝-1, 5
7: ⊝-1, 5, 6
8: ⑤, 6, 7   *deque*
9: ①

_[1]_

II

2. ⎰ if deque[0].pos not in this k sequence,
   ⎱ remove the element
   ⎰ else store deque[0] as a min for this sequence

1. ⎰ get next element (x), remove all elems.
   ⎱ from the right that are > x, append x

! Deque should always be in an ascending order!