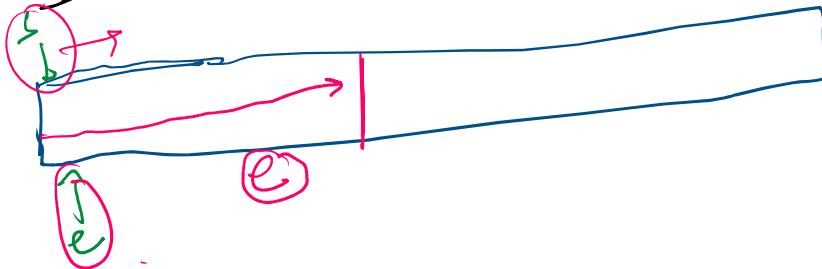


3.7 - Hashing 3 (Sliding Window based)

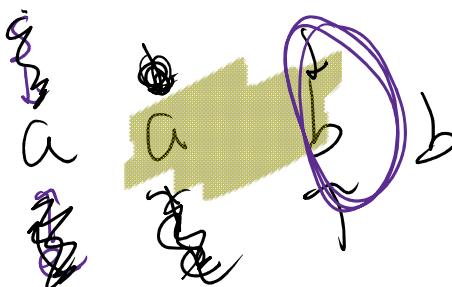
Saturday, December 6, 2025 3:03 PM

Sliding window



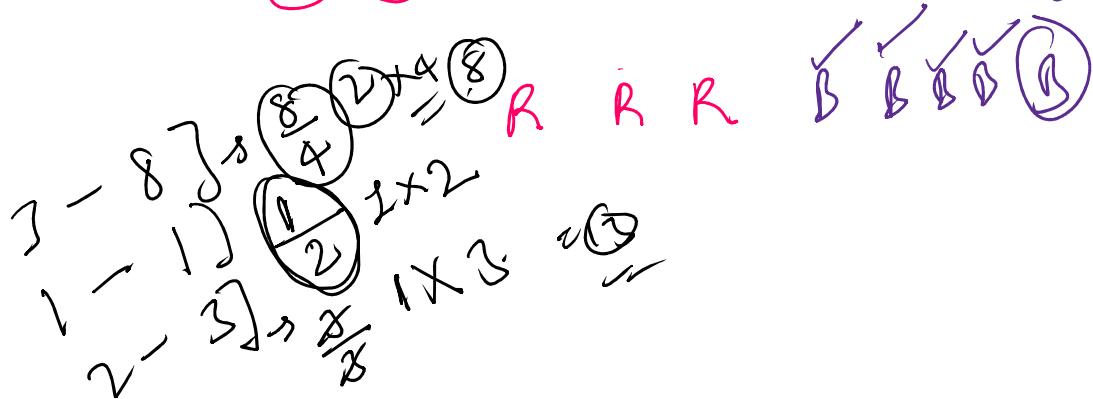
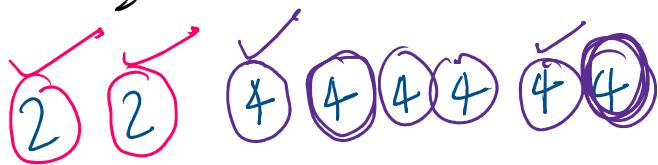
Substring with K unique characters

$k=1$



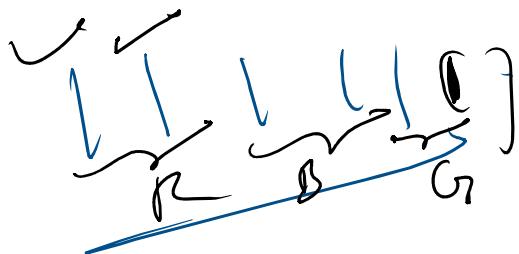
Min window Substring

Rabbits in a Forest



3 3 3 3 3 3 3 3 1 2 2 2

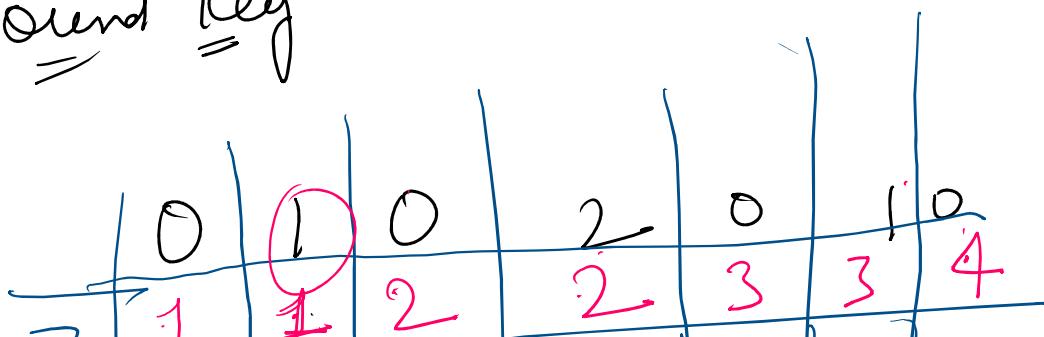
R R R R G G G] B B ✓✓



28

A hand-drawn diagram of a piano keyboard illustrating fingerings and pedaling. The top row shows the treble clef keys from A to G, with circled '3's above them. The bottom row shows the bass clef keys from F to C, with circled 'B' and 'F' above them. A bracket labeled 'C' covers the middle section. To the right, a circle contains 'PC(1) -> 4'.

* Compound = Key



	1	1	2	2	3	3	4
z	1	1	2	2	3	3	4
o	0	1	1	1	2	2	
t	0	0	0	1	1	1	1
0-2	-1	0	-1	-1	-2	-1	-2
t-0	0	-1	-1	0	0	-1	-1

-#0

key

$$a=10$$

$$b=7$$

3

$$a=15$$

$$b=12$$

3