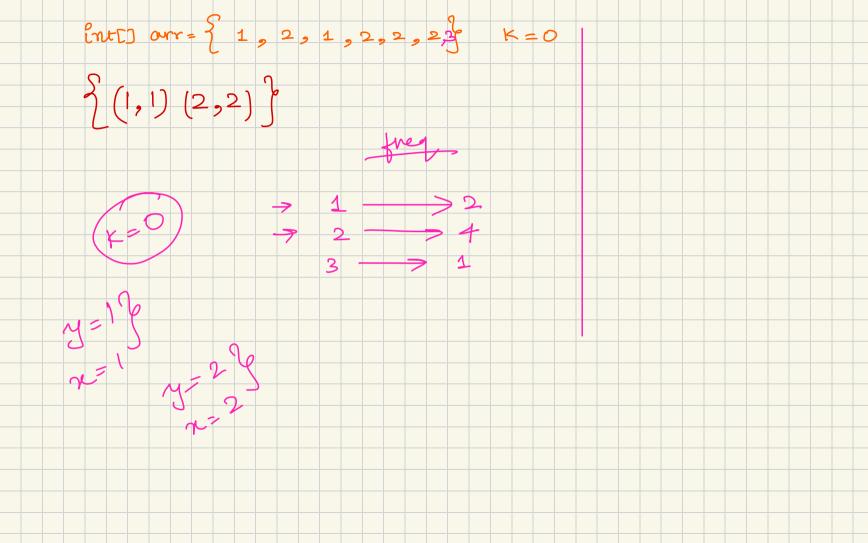


Count Number of Pairs with absolute diff. K int [] arr = { 5, 10, 25, 15, 20, 25 } K = 5 (5,10)(10,15)(25,20)(x,y)y = 26 y = 10  $\chi = 30$   $\chi = 20$   $\chi = 20$ (15,20) num freg (20,25)
5 1 y = 5 x=y+k=10 = y - K = 0= 7 - K = 5 10 y=15 y=20 4=25 x = 20 x = 25 x = 10 x = 15Count = XXXX5 x = 30 x = 20

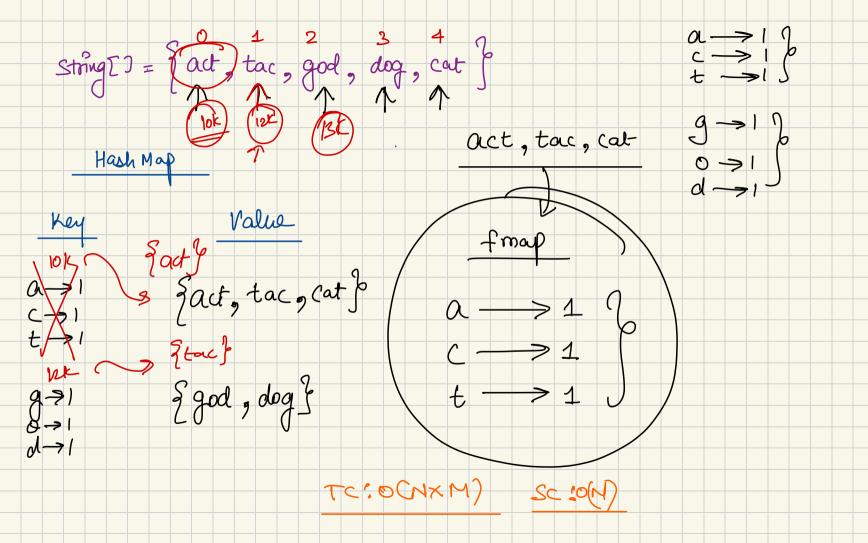




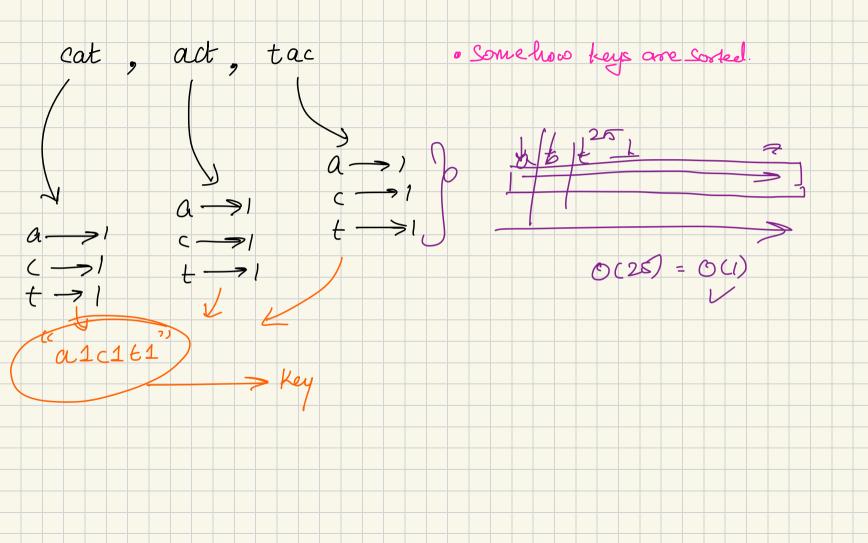
Agenda			
1) group our	rogramu		
(2) Minimum	window Substangs		
(3) Distinct	window≤		
(4) Substring	with Kunique charact	ers.	

Group Anograms String[] =  $\begin{cases} 0 & 1 & 2 & 3 & 4 \\ act, tac, god, deg, cat \end{cases}$ {act, tac, cat} { god, dog } Boute Force TC! O (N X NXM) & O (N<sup>2</sup>M) 6 SC: O (1) M -> length of storing. ?
N -> length of omray. String[] =  $\begin{cases} 0 & 1 & 2 & 3 \\ \text{Act}, \text{ tac}, \text{ god}, \text{ dog}, \text{ cat} \end{cases}$ TC: O(NXNXM) } Hash Map 3c:0(N) Value Key { act, tac, cat } Egod, olog &

String[] =  $\begin{cases} 0 & 1 & 2 & 3 & 4 \\ \text{String[]} & 1 & \text{ac}, \text{god}, \text{dog}, \text{cat} \\ 1 & 1 & 1 & 1 \end{cases}$ Hash Map Sost (str) Value dgo act list of group gop\_name Eact, tac, cat & Egod, dog? dop TC:0(NXMXlogM) & SC! OCN)



HashMap < HashMap < Character, Integer), Array List < Storing >> reference variable address



Minimum	_ พ็เา	ndow	Subs	storing	_									
Strl =	=	d	Ь	2	0	C	d	Ьс	_ C	a	b			
Str2	= (c	a	66	c d	<b>D</b>									
Boule for	01 - 10 - 01 - 01 -	-> 1 -> 2 -> 2 -> 1												
·		jene	ton	0 0	N <sup>2</sup> >	(M)		cubs St	talog	in it	len o	f stol	2	

