

longest subororny with equal foreg of 0's, 1's and 2's ans [],], 1, 2, 0, 1, 0, 1, 2, 1, 2, 2, 0, 1] Boute force Sfind all submay with frog 0's 1's & 2's,
Calc longest of flum. TC'O(N2) SC: O(1) O(N)?

ans [],], 1, 2, 0, 1, 0, 1, 2, 1, 2, 2, 0, 1] T('0(N2) 0,1,0 0,2,0

$$x' = x + \alpha \qquad 0$$

$$y' = y + \alpha \qquad 0$$

$$3' = 3 + \alpha \qquad 0$$

$$x' = y - x$$

XXXXXX x 0 0 0 0 1 1 0 1 2 2 2 3 0 0 0 1 1 1 y-x 0 1 2 2 1 2 3-4 0-1-2-1-1-2 lu = curridu - first state code 0#0 2#-2 / 1#-1 : 3-0=3 14-1 24-1 24-2 O # O ____ 1 #-1 24-2 2 # -1 ----> 2

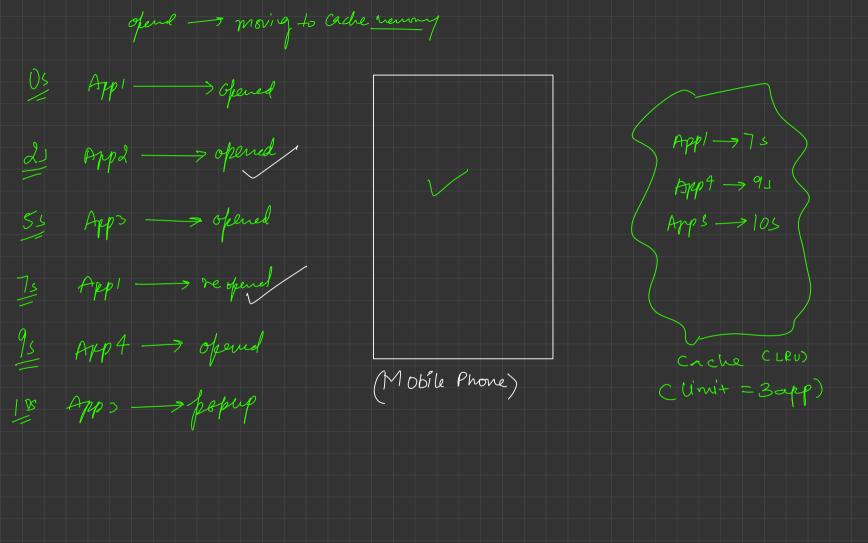
Rabbits in forcest $am[1={2,2,3,1,0,2,2,3,1}$ 2/2

LRU Cache o Cache RAM

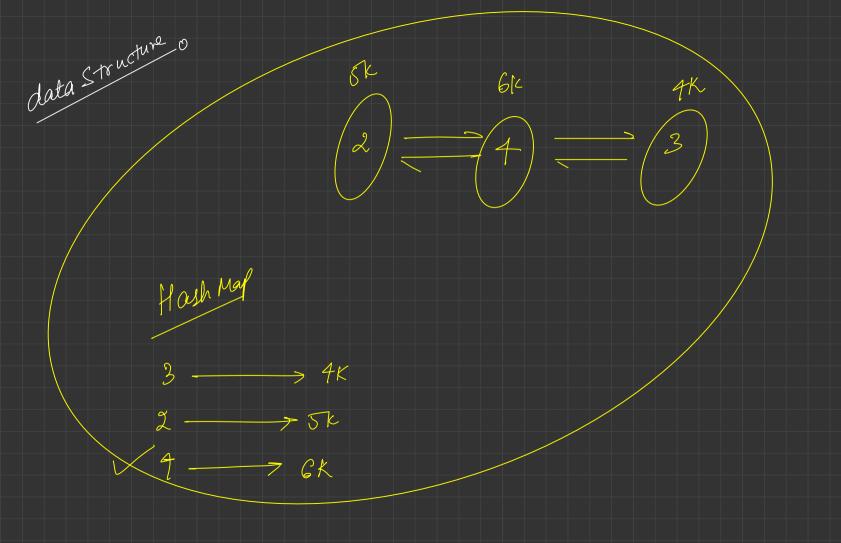
of four screen sapplications occurring is background

3 - Application

Cache Memony Managment LRV [least Recently used] (least ferograntly used)



> max app. cache memory can hold class LRUCache { // your code here public LRUCache(int(capacity) // your code here > read of p popup |public int get(in<u>t key)</u> more this app to most // your code here recently used add new app to cache memory, or update frev app. with news a value. (Reophed)



UNU addlast ()

Snapshot Array $[ukl] arr = \begin{cases} 0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 0 & 5 & 0 & 0 & 5 & 0 & 0 & 0 \end{cases}$ Set (1,3) ~~ Set (4,5) Snap() set (1,5) V snapc,

get (1,1) (

get (1,0) (3) flush map < snap_id, array > X A lot of Space

