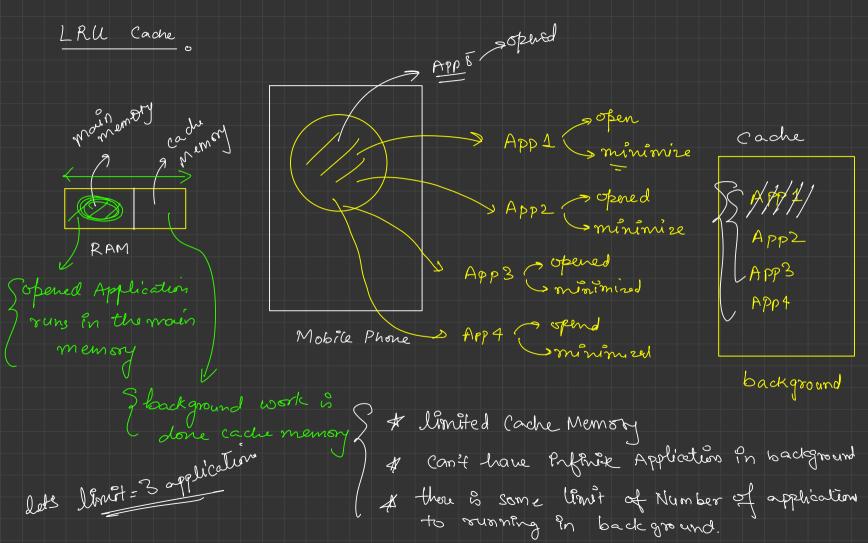


longest suborsony with equal frey of 0's, 1's & 2's arr [] = { 1,1,2,0,1,0,1,2,1,2,2,0,1} 1 -> x + 01 2 -> y+a 0 -> 2+0 0 →2 ()C+m) - (y+m) # (y+m) - (2+m) (freg 1-freg 2)# (freg2 - freg0) (x-4 # 4-2) (x-y#y-z)

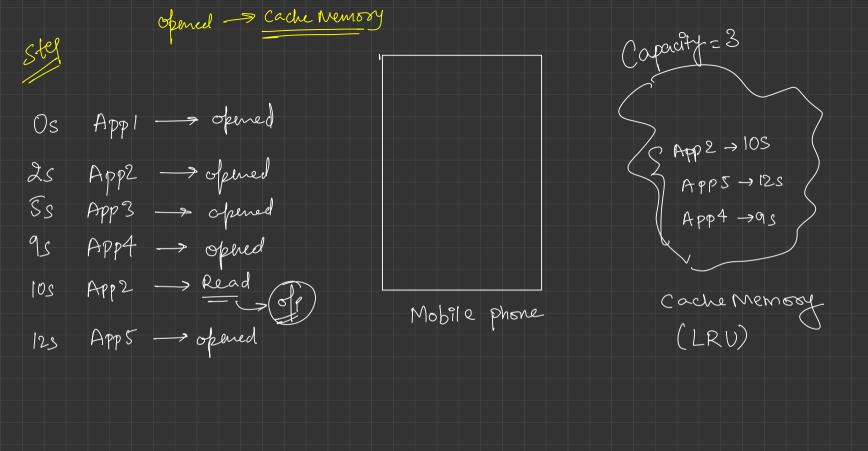
```
static int countEqualSubarray01(int arr[], int n) {
    // Write vour code here
    // code -> difference of freq1 - freq2 # freq2 - freq0
    HashMap<String, Integer> mymap = new HashMap<>();
    mymap.put(key: "0#0", -1);
    int maxLen = 0:
    int cnt0 = 0;
    int cnt1 = 0;
    int cnt2 = 0:
    for (int i = 0: i < n: i++) {
        if (arr[i] == 0) {
            cnt0++;
        } else if (arr[i] == 1) {
            cnt1++:
        } else if (arr[i] == 2) {
            cnt2++;
        String code = (cnt1 - cnt2) + "#" + (cnt2 - cnt0);
        if (mymap.containsKey(code) == true) {
            int len = i - mymap.get(code);
            maxLen = Math.max(len, maxLen);
        } else {
            mymap.put(code, i);
    return maxLen;
```

```
arr [7: ] 1,1,2,0,1,0,1,2,1,2,2,0,13
 (\chi, \gamma, \overline{z})
                       (2+m, y+m, 2+m)
   TC: O(N)
```

galobits in forest o rabbits with different colours arr[]= {2,2,3,1,0,2,2,3,1 (1) O

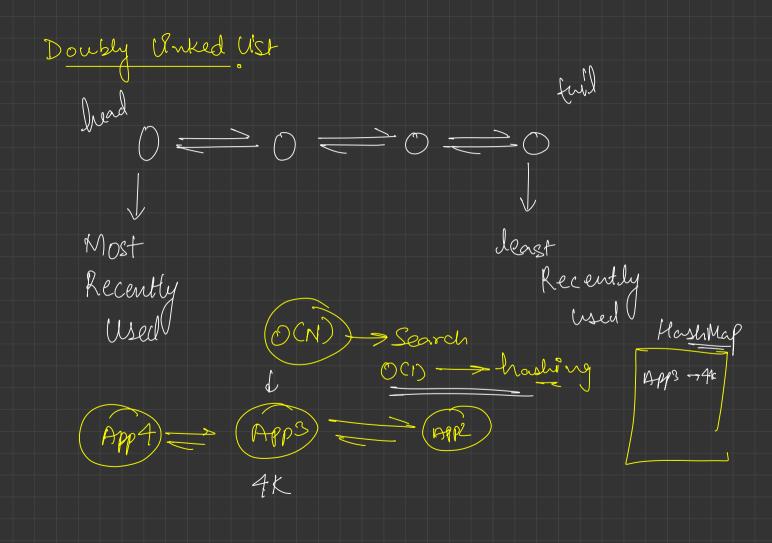


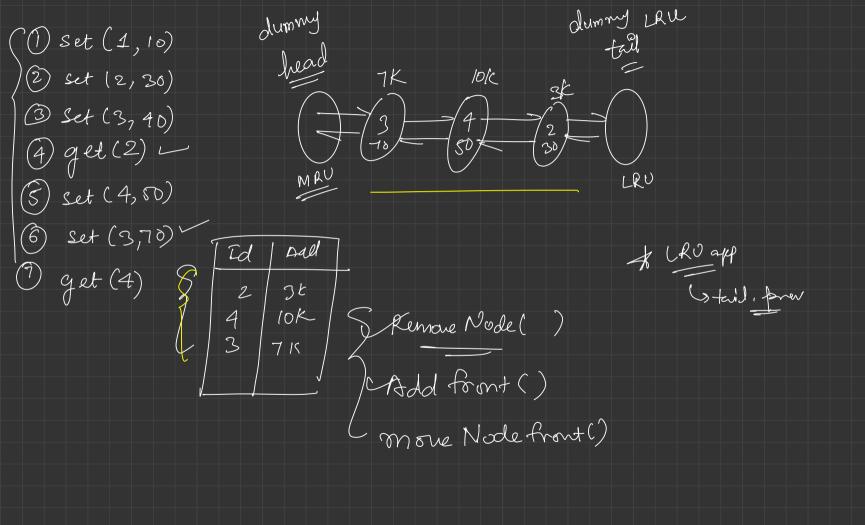
Renoval of application when cache menory readure LRU LFU (least frequently used) depending upon OS you are using cache memory uses one of them.



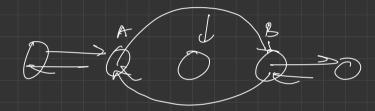
Putitéalize onax capacity to go cache memory. class LRUCache { // your code here appli caller public LRUCache(int/capacity) // your code here Make Pt most recently p used application public int get(int key // your code here adding application to public void set(int(key // your code here Cache mem say application from Cache Themony new applications remove Pt from and itself to Cache Add of Back Most Recently LPF capacity is full Remove

data Structure
Switchele Sorthis Stack X Cadre Memory









Node A = nocle, freu Node b = node, next

A.next = B

B. per = A

Node. nex = null Node. pr = w head A Node A= head next; hode next = A node prev z head head nest - nocle A. free = nocle

Snapshot Assay

1 2 3 4 5 6 7

[0,5,4,0,5,0,0,0] snapid= \$ \$ 2 Set (1,3) % Snapshort 8n2 [0,3,0,0,5,0,0,0] Snap() Srepidal 2 3 4 5 6 7 [0,5,4,0,5,0,0,0] Set (2,5) (y Encyflud t Set (2,4) Snap() get (1,0) >30, get (1,1) >5

