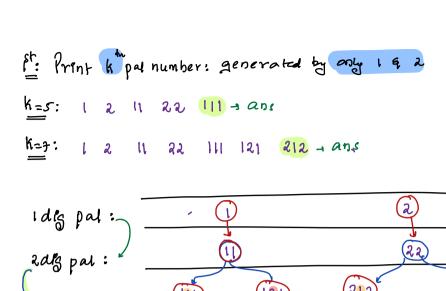
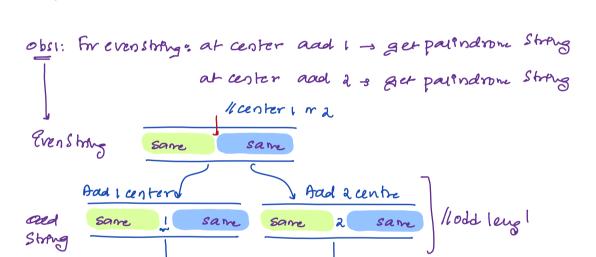
Todays Content:

- → Palindrome generation -
- → De-queC) /
- Man of every window -





11211 12121 12221

21112 21212 22122 2222

gad Lantu

same

22

obsz: for oad strong, and character at center once again at center to get , even leight palendrome

Same

Add I center

same

11

Same

TODO:

sdig pal:

Degu:	double ended queue
front C	2 rear
inso all del	ert_rearc) Si Insert_front() 1002 rearc) lete_front() Si delete_rearc) front()
<u>)</u>	insert at start of double lenked list
3)	delet at and
	L. LRU Cacher

Syntan: { of not there implement it} Functional

deque & int > dq - fdq. insert front() dq. delete fronte)

dq. insert rearcy dq. delete rearcy

dq. front() dq. rearcy dq. delete - rearcy

dq. front() dq. rearcy dq. signe()

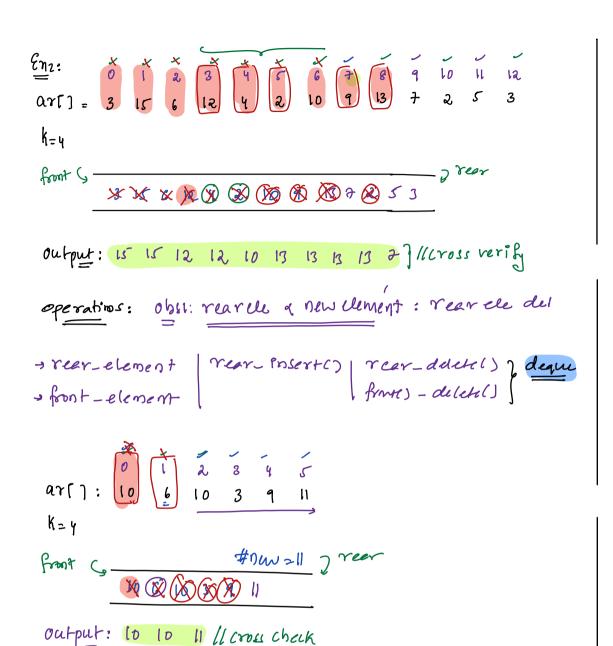
Sach function takes o()

```
108) Given ar[N] & k, print man element in every window of size k
  #N=9 0 1 2 3 4
Em: ar[q]= 10 1 9 3
 Idea 1: For every subarrays of len = k Prent 4 prent man
        TC: (N-K+1) * (K) SC: O(1)
           L, K & N/2 = (N-N/2+1) (N/2) = (N/2+1) (N/2) & O(N2)
  Ideaz:
DataStructur - man/ delete ele () / Poser+() / Traset: tlashmap: 2
                              11
 ar[]: 10
 K= 4
                                          ares It's frequery
 Trust & douplicates get deleted) = Treemap < king valus:
                                  Datar Sorted borred on Keys
```

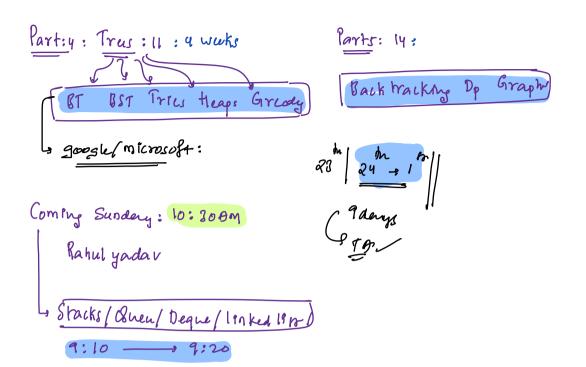
$$ar[]: 10 6 10 3 9 11$$
 $K=y$

Treemap

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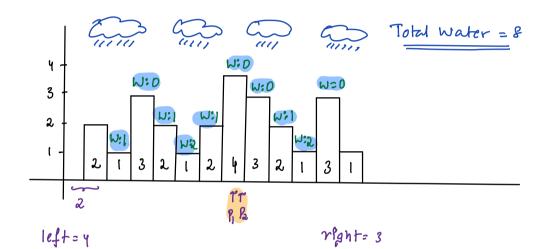
```
Subman Cint aring int hol To: Olm Sc: Olh)
vold
  deque cent, das
  Stepi: Insert first kele mwendow (o, k-i)
  1=0; 1x k; 1+2) 2
     Mnew element insert = artij
     while (dq.sije()) o & dq. rear() xar[i]) f
      dq. delete-rearco
     dq. insert_rear ( arii)
  print(dq. front()) // 0 () (2) 3... K-1 (k) (k+1)
  1= k; ix n; 9++) f
    11 new clement Posert = ar(1) / dulen = ar(1- h)?
     while (dq.sijec) 20 & dq. rearc) karsij) {
      dq. delete_rearc)
     dq. Posert_rear ( ar [i])
     if ( dq. fron + () == ar (i-k]) 1
      dq. delete-frontc)
      print(dq. front())
```

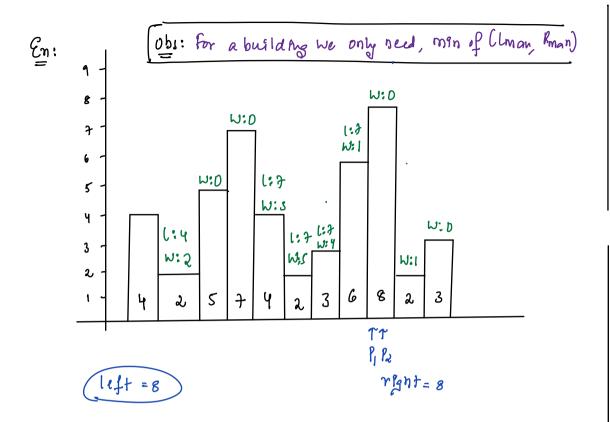


40) Rain water trapped?

Given ar [N] elements, where artij represents height of the building, return amount of water trapped in au buildings

Note: Wram of Each building is 1





Idea: For every building get it's limiting building begant