

Note: - This playlist is only for explanation of ans & solutions.



playlist for understanding

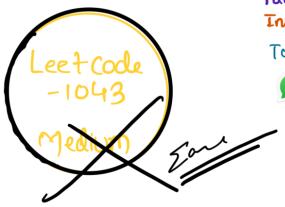
DP from Scratch...



Facebook] > Code storywith MIK Twitter -> cswithMIK



-> codestory with MIK



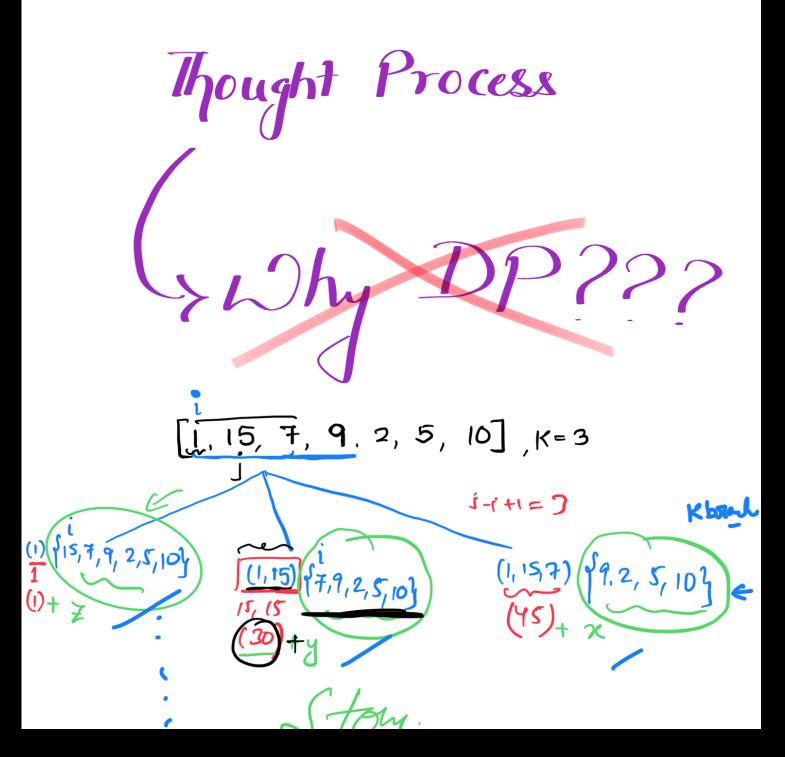
1043. Partition Array for Maximum Sum











```
Story To Code:
int Solve (i, over, K) {
               i) (i >= avor. size()) return o;
              nesult = 0;
             Cour-max = -1;
           for (j=i; j<n &b j-i+1<=K; j++) {
                   Cwer_max = max(cun max, over [j]);
             Mesultzmax Mesult g ((j-i+1) *Cum-max) + Solve (j+1, aru, k))
           return result;
```

Time Complexity:-



without Memo :-
$$O(K^n)$$
 (expan).

with Memo :- $O(n*K)$

Bottom UP:

Nums = [1, 15, 7, 9, 2, 5, 10], K=3

$$i=1$$
 \in only one element $i=2$ \in on the element

size
$$\leftarrow$$
 for $(i = 1; i \prec = n; i++)$

$$for(j=1; j<=K \text{ as } i-j>=0; j++)$$

$$\Rightarrow f[i] = \max\{f[i], (Cun_{mex} * j) + f[i-j]);$$

Silv Lly