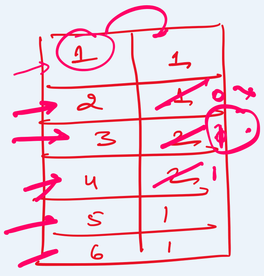
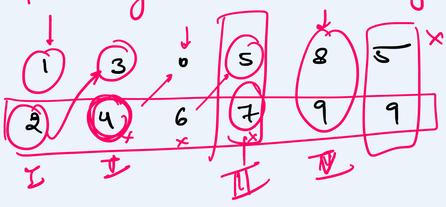
Saturday, 13 November 2021 12:21 PM

Q Divide array in sets of k consecutive numbers.



Q Activity selection problem

The greedy choice is to always pick the next activity whose finish time is least among remaining activities & start time is more than or equal to the finish time of the previously selected activity.



Q Construct k palindrome strings

(1) Condition (1)

If odd occurrences

c _ c _ c

(2) Condition (2)

→ 0 odd character count

↳ aabb | k = 1 → abba
aabb | k = 2 → aa, bb
aabb | k = 3 → a, a, bb
aabb | k = 4 → a, a, b, b

→ odd character count ≤ k.

aabbc, k = 1 → aacbb
aabbc, k = 2 → aca, bb
aabbc, k = 3, a, a, bc
aabbc, k = 4 → a, a, c, bb
aabbc, k = 5 → a, a, c, b, b

→ abc, k = 1 | N/A
aabc, k = 2 → aba, c
aabc, k = 3 → aa, b, c
aabc, k = 4, a, a, b, c

Q Partition labels