Recursive Master Theorem

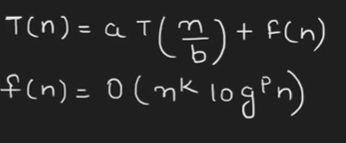
It is Third Approach of Solving Recursive Method like Substitute & Tree method

This Approach is widely we used out of 70% we use this Approach.

Becozz it is Simplicity and Easy Get the Time Complexity .

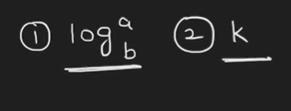
If we don’t apply Master theorem on our problem then only we use Substitute or Tree Method .

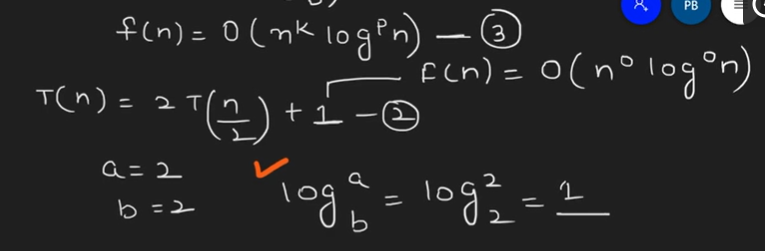
The Problem is :



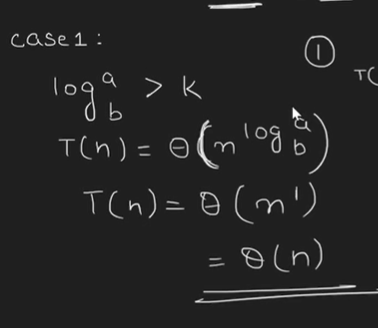
Here we find two things

1. Log ba
2. K



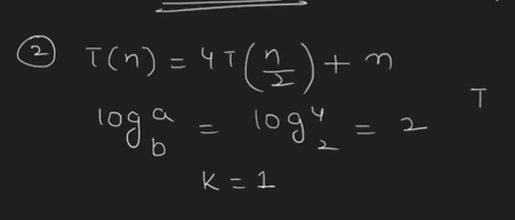


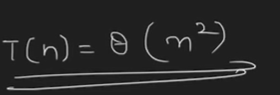
Where k = 0



Average Case Theta 🡺 Θ (n)

Problem 2 :





Average Case Theta 🡺 Θ (n2)