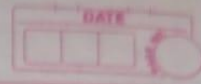# EXPERIMENT 8

Postlab

1. List all the methods which could be used to solve the tower of Hanoi problem.

2. Which is the best approach and why?

3. What are the applications of the Tower of Hanoi?

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Expt-8

PostHab!-

(1) List all the methods which would be used to solve the tower of Hanoi problem

Divides the problem into smaller subproblems limit until a base case is reached

Simulates the recursive process using loops and stacks or queues

Represents the problem using binary number and manipulates them to determine moves

Uses formula to calculate the minimum no. of moves without saving recursively

(2) What is best approach and why?

The recursive approach is favoured for solving the tower of Hanoi problem because it naturally aligns with the problem's recursive nature. It elegantly breaks down the problem into simpler subproblems which simplifies the solution process

(3) What are applications of Tower of Hanoi?

It serves as a classic problem for teaching recursion and algorithm design

It can model logistical and scheduling problems where the objective is to minimize the no. of moves or time required to complete a task

It has been used in cognitive psychology research to study problem solving strategies and decision making process