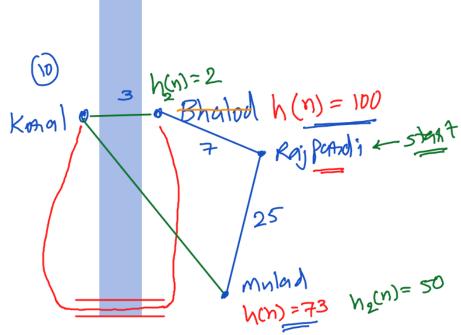
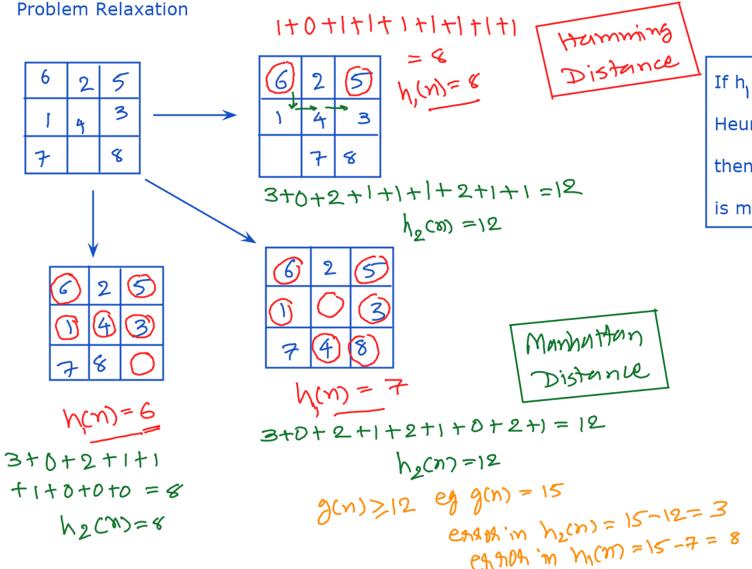
Heuristics Estimated distance of current state from the goal state. cost (c2 h(n)=2 X CY h(n)=5 I chen nai

- Admissible - Meren over estimates. h(n) < h\* (n) × Inadmissible - May overlestimate the cost. - sometimes eliminates the optimal solution.





If  $h_1(n) \& h_2(n)$  are both admissible Heuristic functions and if  $h_1(n) >= h_2(n)$  then  $h_1(n)$  is more preferred as it is more accurate.

## Informed Searches (Heuristic Search Strategies):

## Graph Search:

1. Algorithm A:

Special Case: A\* Algorithm

## Local Search:

- 1. Hill Climbing
- 2. Simulated Annealing