

Assignment – 1

AIM: Program to solve 8 queens problem using Uniform Cost Search(UCS)

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Initial State: An empty chess board.

States: 0 to 8 queens on boards. No queens in attacking position is also possible.

Actions: The operators add queens to any empty square of the chess board.

Path cost: Unit cost per move.

**Observation:* Uniform Cost search(UCS) is Breadth First Search(BFS) if cost is same for every move.

Goal state: Setting all 8 queens on a chess board such that no one is under attack by any other queen.