

OUTPUT:

Node 0 is SOLVED. Algorithm execution complete.

Post Lab Assignment:

- 1. What is the difference between A* and AO* algorithm?
- 2. Why AO* algorithm only works when heuristic values are underestimated?

1 AI Expt 6 Partials I . What is difference between A* and AO* Ang: -AO* 1) Not designed for handling @ Specially designed to adapt changes. changes. @ Potmarthy uses AND operation. @ Uses both AND & OK 3 Consumes Less Memony. 3 Consumes More Memony. @ Well-suited for state environments. @ Well-suited for dynamic environments. 5 Explores Less no. of hodge. 5 Explores More no. of nodes 2. Why AD' algorithm only works when hewistic values are under estimated? Ans: The admissibility property of the heuristic function is At Is essential for ensuring the algorithm convectues and efficiency. It granite optimality by preventing the algorithm from paraductly diseason potenty optimally paths. Adolitionally, it ensures completeness by giventally that AOX will find a solution if one exists in the search space Finally an underestimated hourstra helps Aox avoid mis leading information, leading to more efficient exploration of thoseuro