

26/10/2021

Subject: Artificial Intelligence

Tuesday

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- Q.1) What is the role played by A* algorithm in Romanian Map?
- Q.2) What is restaurant problem?
- Q.3) How does A* algorithm find the total cost between the cities?
- Q.1) A* algorithm helps us to find the distance from the given states. It consists of no. of paths which can lead us to our goal state. While performing A* algorithm ~~it~~ it gives us all possible paths that are available and help us to find the optimal path with minimum weights. It is used to find the distance between the cities by taking the value of both the cities.
- Q.2) Restaurant problem helps us to select the best possible decision from the given data. Restaurant helps us to give the info. regarding the decision tree model. It consists of no. of parameters such as waiting time, cost, reservation, patrons, quality, etc. Each parameter consists of diff. values which help us to get the best decision from the inputted data.
- Q.3) A* algorithm helps to find the distance between two states. It also helps to find the optimal solution for the given problem. A* algorithm takes the weightage of the node itself as well as the value of the path which it needs to travel.
 $f(n) = g(n) + h(n)$ i.e. it is the addition of the two values which help us to get the best optimal value.