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Section: 5 A

MVA

1) What A* search algorithm

- 2) What are the nethods wed to calculate distance approximation heuristically.
 - 3) what is a humistic function
 - 4) What are agents
 - 5) How an agent wer sensor function (or senser)
 - 6) why IOS algorithm is better than other search algorithm
 - 7) Where are EDS and A* implemented in real life
- 1) A * is an informed secuch algorithm, which finds snortet path or cost exective puth the best path of state result of a secuch wing heuristic It was the idea of avoiding the paths that all enjenive.

Evaluation function fln) = g(n) + h(n)

estimated cost from estimated total facto reach n to goal Cost & of path though n' so goal.

Anusee

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- 2) Different methods used to calculate distance approximation
 - a) Eudédean distance
 - 5) Manhattan distance
 - d) Diagonal distance etc.
- Heuristic mean "rule of thumb". Hewistics are vitain for deciding which among several alternative courses of action promises to be the most effective in order to achieve the goal. In search algorithms pleasitics are used to identify the least cost puth or most promising path.
- 4) Agent is anything that can be viewed as puceiving its unironment through sensors and acts upon that environment through advators.
- Agent uses perception of the environment and makes decisions. This perception capability is called sensor. The perception actions depend on most recent purception of the Entire history (percept sequence) of lenowledge base

- The in optimal like but first search and uses much less memory.

 It doesn't sun into tapate infinite loops which may happer in DFS
- 7) then
 8 puzzle game
 Vacuum deaner of
 maz poster problem

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Ammer