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① what is A* search algorithm

→ A* search algorithm is an informed search algorithm which uses heuristics and cost-so-far as evaluation function

② what are the different methods used to calculate distance approximation heuristically.

→
* Man-hattan distance
* Diagonal distance
* Euclidean distance.

③ what is heuristic function

It is an evaluation function which estimates the cost of an action.

④ What are agents

Agents can be any machine that is incorporated with some sort of intelligence [fuzzy logic]

⑤ How an agent uses sensor function?

Agent senses the state of environment using the sensors.

⑥ Why IDS algorithm is better than other

IDS is better as when DFS search is too long. when Depth of solution less than depth of statespace.

⑦ where are IDS & A* IDs are implemented
* Particularly in games where multiple paths are involved.
* In search engines.