

cycle. Else each du géves the distance of a from the source. Path can be generated by anigning a neighbour in as predecessor of a s/t du+w = du.

We've seen two types of search algorithms: Tree-Search (problem) and Grouph-Search (problem)

We cannot use DFS nor BFG in case of a game where holh depth to breadth are
infinite:

eg: We use BFS for each a no. a from y using only I and!

But if y: 4th and z=4 then the breadth to depth one both infinite in

the case, so beether BFG now NET --- 211

her case, so heather bfs nor DFS are possible.

Osl to this san be we can incrementally go on with increasing both depth & breadth.

SInformed Search Methods:

- This was problem specific knowledge (efficient than winformed search strategies)

heet first search:

first of all we need to consider an evaluation function based on the conditions. We shall greedily by to expand the nude based on which one of them is closest

to the great.

But what if: otherwisen.

 A^* beauch: so, we need to compline h(n) = cont to get from the mode to the goal g(n) = cont to reach the given mode.

A* Search:
1) h(n): Should be an admissible heunistic (for tree ceasely)
2) For graph search: consistency is needed.
101 graph second ! Continued in needed.
Die advantagee of 1th.
i) Breadth is a problem oux A is harfcally Dijkstra + heuristic function, and
dijkstra is boutably BFS. (You'll run out of space)
We can use Recursive but first search instead to prevent epace overflow.
The same of the sa

