

Dr. Vishwanath Karad MIT WORLD PEACE UNIVERSITY | PUNE



| ubject: | | tL. | | ٠٠٠٠٠٠٠ | / | Assigi | nment | Test | No.: | เพรการ์ | y-1 Date: 28/03/2020 |
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| 1;> | 2 4 5 6 | | | | | | 7 | | - | agent. | Explain goal - based |
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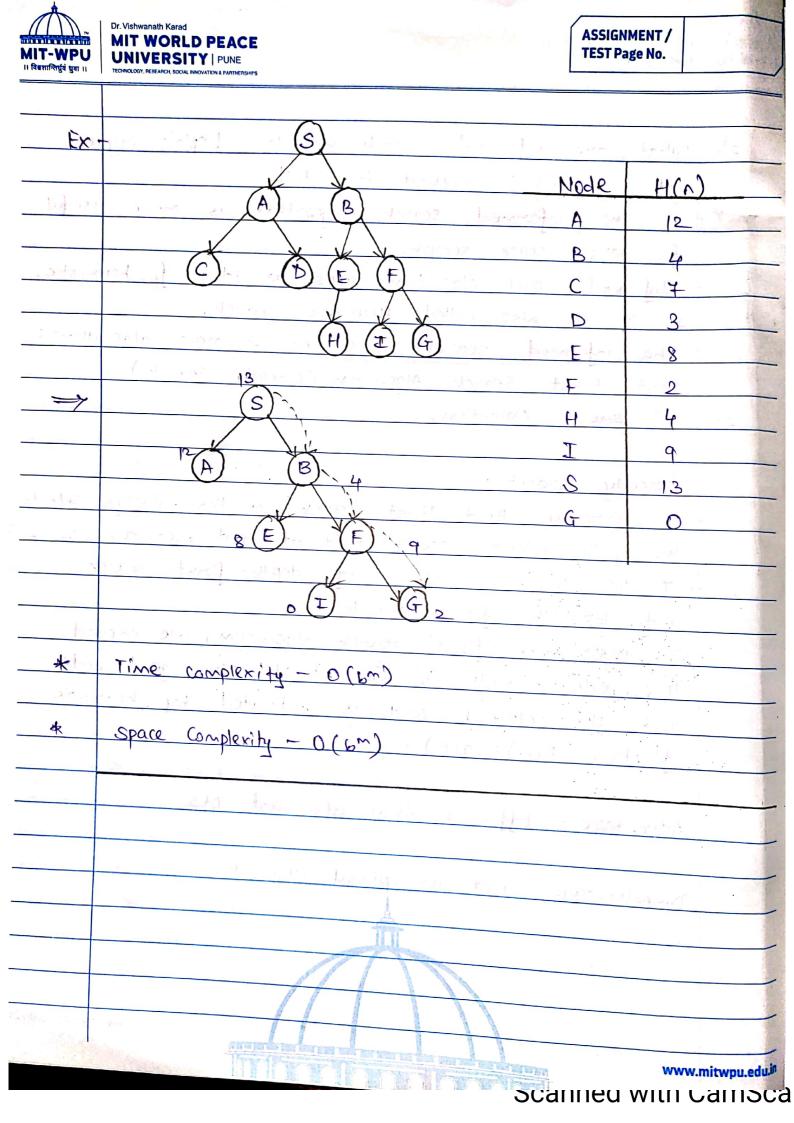
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| the second of the second |
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| - A goal based agent is capable of thinking beyond |
| the present moment to decide the best actions |
| to take it in order to ochieve goal. |
| A goal-based agent operates as a search and |
| planning function, it targets the goal ahead |
| and finds the night action in order to reach. |
| it. |
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| These kind of agents take decision based on how |
| fair they are convertly from their goal. |
| their every action is interested in the |
| distance for the distance its |
| distance from the goad. |
| - This allows the agent a way to choose among |
| multiple possibilities, selecting the one which |
| reaches the goal state. |
| |

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|---|--|--|
| | 2/2 | what are informed search methods? Explain any one |
| | | informed search method in detail. |
| • | 4. | The informed search algorithm is more useful |
| | | for large space search. |
| | | Informed search algorithm uses on idea of heuristic, |
| | | so it is also called Heuristic search. |
| | | The informed search discusses 2 main algorithms: |
| | ly. | Best First Search Algorithm (Greedy Search) |
| | The second secon | A' search Agarithm. |
| | 2. | A state of the sta |
| | 1 | County county t |
| | | Greedy search: Greedy Best First search Algorithm always selects |
| | E | the path which appear best at that moment. |
| | Prof. | the path which appear of depth - first search |
| | | The pain to the combination of depth-first search |
| | | and breadth - first search. |
| | | In the best first search algorithm, we expand |
| | | Land Cart B) - The |
| | | L closest cost is estimated |
| | | function $F(n) = g(n)$ |
| | | |
| | | Advantage - Efficient than BES and DES |
| | | |
| | | Disadvantage - Not an optimal algorithm. |
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| 3.6 | Explain A Algorithm with example, white any two |
| | bewristic fuctions for solving 8- przele esolde |
| P | A Algorithm is one of the best and moular |
| | techniques used for path finding and graph |
| | traversals. |
| - | At Algorithm extends the path that minimize the |
| 2. | following function - |
| 100 | f(n) = g(n) + h(n) |
| - | The implementation of A* Algorithm involves maintaining |
| | two lists - OPEN and CLOSED. |
| | OPEN contains those nodes that have been evaluated |
| | by the heuristic function but have not been |
| | xpanded into successors yet. |
| | closed contain those nodes that have already |
| The same | een visited. |
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| | | 2 | 8 | . 3 | 3=1 | 2 | 8 | 3 | h=3 | 2 | 8 | 3 | g=1 h=5 | |
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