

CS607 Artificial Intelligence

Quiz 1 solved

In depth first search we keep our priority function as given below and given give priority to elements with _____ P(n) value where: $P(n) = 1 / \text{height}(n)$.

- **Minimum (page 25)**
- Maximum
- Average
- Absolute

There are many techniques to solve our problem of optimal search without using a brute force technique; one such procedure is called _____.

- **Branch-and-bound method (Page 48)**
- Depth first method
- Breadth first method
- Progressive deepening

Trying to catch out own thoughts as they go by

- **Introspection (Page 8)**
- Psychological Experiments
- Introspection and Psychological Experiments
- None of the given

"In context of Hill climbing algorithm, a person may reach the portion of a mountain which is totally flat, whatever step he takes gives him no improvement in height hence he gets stuck." The above statement refers to:

- Foothill problem
- **Plateau problem (Page 40)**
- Ridge problem
- Slope problem

Which of the following is/are example(s) of uninformed search?

- Breadth first search
- Depth first search
- Progressive deepening
- All of the given options (page 72 and 73 read carefully)

"If you find the goal, exit, otherwise repeat DFS to the next lower level". The statement refers to:

- Depth first search
- Breadth first search
- Progressive depending (Page 32)
- None of the given options

Which of the following is NOT one of the steps of simple search algorithm?

- Initialize priority queue.
- Check if the priority queue is empty.
- If node picked from priority queue is goal node then return.
- Copy visited queue to priority queue. (Page 24)

Identify the TRUE statement regarding "Heuristics":

- Heuristics always give us good guess to reach to goal state.
- Heuristics don't always give us good guess to reach to goal state. (Page 37)
- Heuristics never give us good guess to reach to goal state.
- Both "heuristic" and "algorithm" are something.

It must be noted that heuristics don't always give us the right guess, and hence the correct solutions. In other words educated guesses are not always correct.

_____ AI treats the brain as a black box and just emulates its functionality.

- Weak (Page 8)
- Strong
- Weak and Strong
- None of the given

The simple idea behind _____ is that if we can reach a specific node through more than one different paths then we shall take the path with the minimum cost.

- **Dynamic programming (Page 55)**
- **Estimates**
- **Progressive deepening**
- **Beam search**

Please share quiz it will help in midterm and final term exam

easy way to save quiz is
just save html page hit key
Ctrl+S in every question save with number
1 2 3 etc..
zip and share