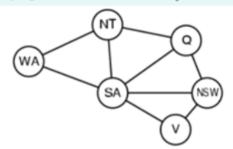


Ouestion 21 Not yet answered Marked out of

Australian states are represented on the graph, with the all neighbouring states connected. The problem is to color the map so that, each state is colored one of three colors (red, green, blue), with the constraint that two states sharing a border are colored with two different colors.



To solve this problem, we use backtracking search with forward checking but without MRV or LCV. The order in which the variables are considered for coloring, is as follows: WA, NT, SA, Q, NSW, V. What is the number of turns (one color assigned for one state counts as one turn) to reach a valid solution?

Select one:



O b. 9

O c. 12

O d. 7

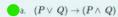
Time left 0.31.35

Question **22** Not yet answered

Marked out of

Which one of the following is an equivalent form of $P\leftrightarrow\ Q$

Select one:



$$\bigcirc$$
 b. $(P \land Q) \rightarrow (P \lor Q)$

$$\bigcirc$$
 c. $(P \lor Q) \land (P \land Q)$

$$\bigcirc \ \, \mathsf{d}.\ \ \, (P \to \mathcal{Q}) \land \mathcal{Q}$$

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TITLE TOTAL OUT THE

Question 23

Not yet answered Marked out of 2,00

Which of the following disciplines did **NOT** contribute to the foundations of AI (multiple answers are possible).?

Select one or more:



☐ b. Mathematics

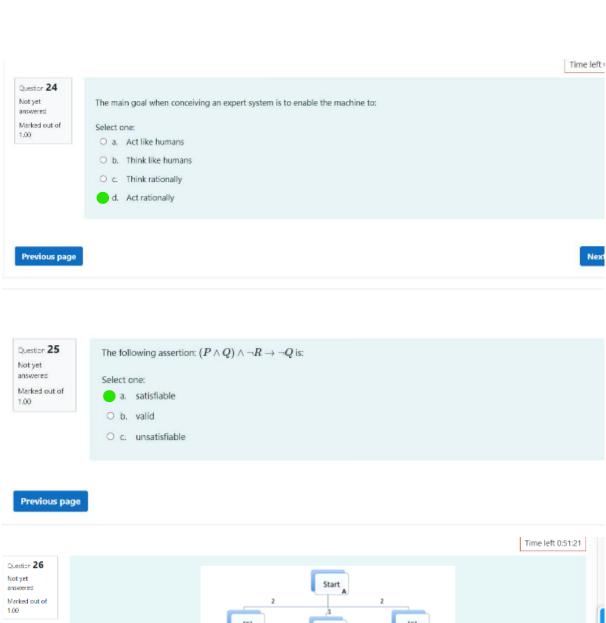
☐ c. Computer Engineering

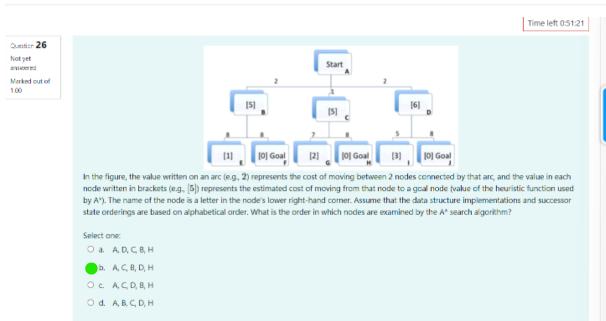
d. Pedagogy

☐ e. Psychology

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Select one: Select one: a. De-fuzzification module b. Fuzzy linguistic variables c. Fuzzy inference engine d. Fuzzification module Previous page Next page Next page Next page Select one:			
Select one: a b De Suzzification module b Fuzzi injunitic variables c Fuzzi injunitic variables c Fuzzi injunitic variables c Fuzzi injunitic variables d Fuzzi injunitic variables c Fuzzi injunitic variables d Fuzzi fication module Vereface page	Question 27	Which of the following is not one of the main components of Fuzzy Logic Systems?	
Time left 05047 One of the search algorithms use the problem-specific knowledge beyond the definition of the problem (multiple answers are possible?) One of the problem of the problem of the problem (months) and the problem of the problem of the problem (months) and the problem of the problem of the problem (months) and the problem of th	Not yet answered	Solort coor	
D. Fuzzy linguistic variables C. Fuzzy inference engine d. Fuzzification module Which environment is called "semi-dynamic?" Select one: a. a. Both the environment and the agent's performance changes with the passage of time b. Environment does not change with the passage of time c. Environment does not change with the passage of time, but the agent's performance changes d. Environment constantly changes with the passage of time c. Environment constantly changes with the passage of time d. Environment constantly changes with the passage of time which search algorithms use the problem-specific knowledge beyond the definition of the problem multiple answers are possible? Select one or more: Select one or more: Select one or more: John Minimax C. Alpha-beta pruning d. Greedy best-first search Next page Time left 05047 Select one: a. Continuous b. Salic c. Semi Dynamic d. Dynamic	Aarked out of		
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Question 31 Not yet answered Marked out of 1.00

Which one of the following statements is correct:

Select one

- O a. Supervised learning is a process of learning that need a human supervisor to guide learning.
- O b. Supervised learning is an algorithm that helps a computer to learn from data.
- O c. Supervised learning is some kind of meta-learning using different learning algorithms and merging their outputs
- d. Supervised learning is a learning problem in which each data instance has at least one label in the training set

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Question **32** Not yet answered Marked out of 1.00

The main goal of Turing test is to check if the machine is able to:

Select one:

- O a. Think rationally
- O b. Think like humans
- O c. Act rationally
- d. Act like humans

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Question 33 Not yet answered Marked out of 1.00

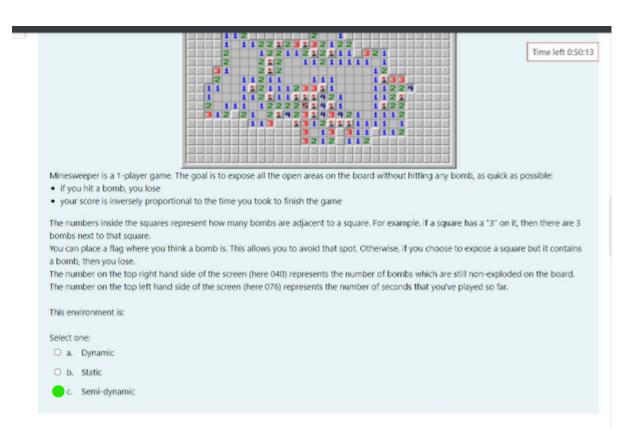
What is the main difference between the two terms "optimal" and "optimally efficient"?

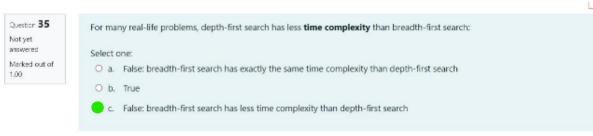
Select one

- a. An algorithm is optimally efficient if it is guaranteed to keep a minimum number of nodes in memory (RAM), whereas an algorithm is
 optimal if it is guaranteed to find the least-cost path to the goal (if such path exists)
- O b. An algorithm is optimally efficient if it is guaranteed to find the least-cost path to the goal (if such path exists), whereas an algorithm is optimal if it is guaranteed to keep a minimum number of nodes in memory (RAM)
- O c. There is no difference between these two terms: they refer to the same property of some search algorithms
- O.d. Optimal refers to the cost of the final solution returned by the algorithm, whereas optimally efficient refers to the set of nodes expanded

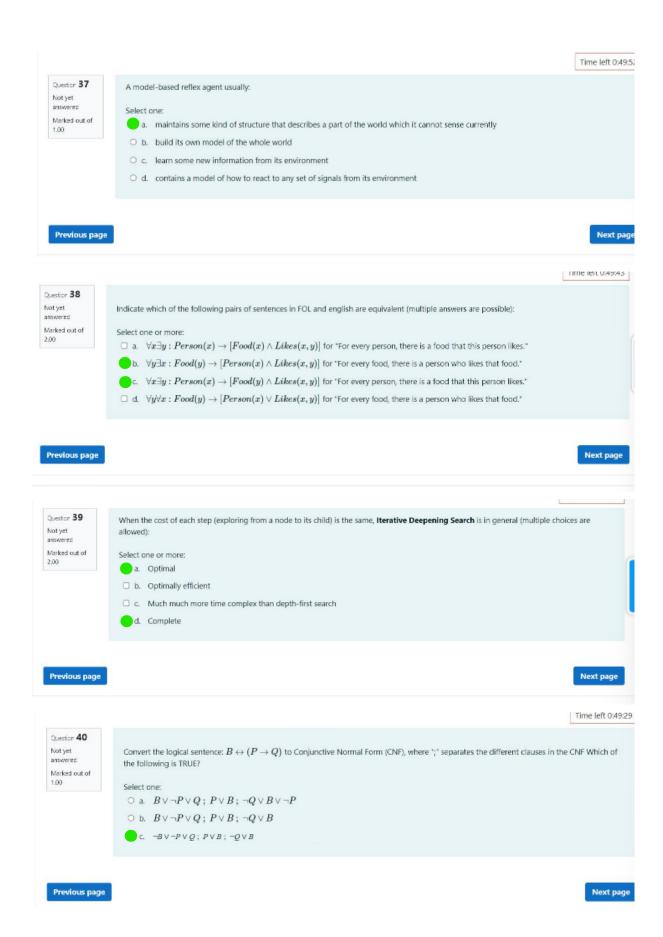
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The problem is to fill in the cells of the square with the numbers 1 to 9 so that the sum of each row, column and diagonal is 15. During the filling process, the next cell to fill can be a corner cell (a), a cell in the edge (b) or the cell in the center of the square (c).

Time left 0:49:21

а	b	а
b	С	b
а	b	а

Which of the two locations (first cell and second cell) should be assigned from beginning to improve the efficiency of the backtracking method: Your answer:

Select one:



O b. c-b

O c. b-b

O d. a-a

and the control of th

.....

Question **42**Not yet answered
Marked out of

1.00

In backtracking search, which one of the following statements is true?

Select one:

- a. Degree heuristic is often used as a tie-breaker for Minimum Remaining Values, for choosing the next variable to assign
- O b. Degree heuristic and Least Constraining Values are two heuristics that can be used for detecting inevitable failure early
- c. Degree heuristic is often used as a tie-breaker for Least Constraining Values, for ordering the values to examine (after the variable to assign has been chosen)
- d. Degree heuristic and Minimum Remaining Values are two heuristics that can be used for ordering the values to examine (after the variable to assign has been chosen)

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Question 43 Not yet answered Marked out of 1.00

Translate the given statement into First-order logic: "All poets are writers":

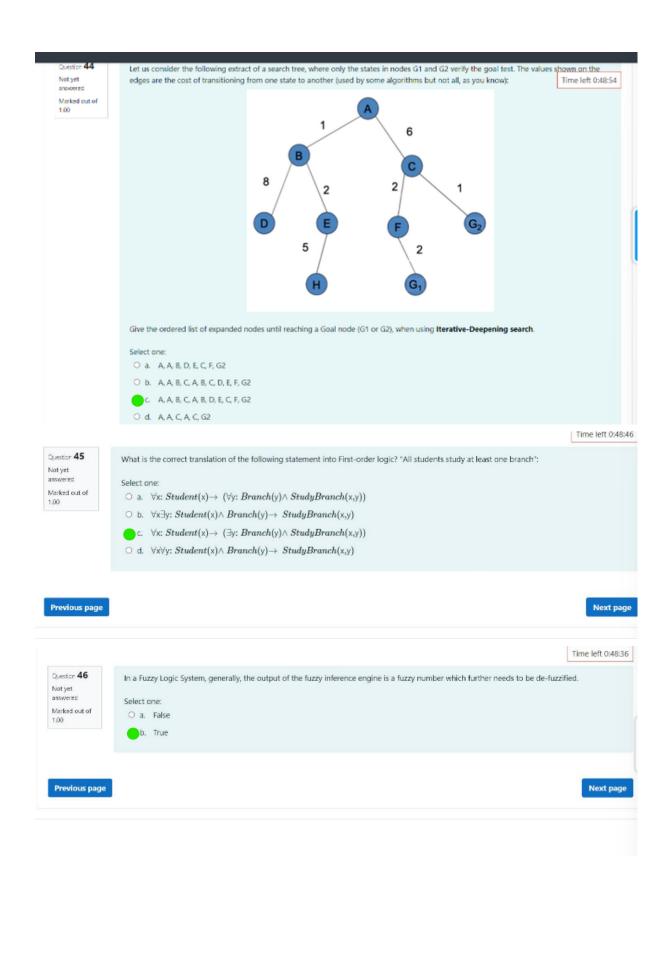
Select one:

$$lacksquare$$
 a. $\forall x: Poet(x)
ightarrow Writer(x)$

 \bigcirc b. $\forall x: \neg Writer(x) \lor Poet(x)$

 \bigcirc c. $\exists x: Poet(x) \rightarrow Writer(x)$

○ d. ∀x: Poet(x)∧ Writer(x)





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Question 48 Not yet

answered Marked out of 1.00 What is the logical translation of the following statement: "No one is perfect"?

Select one:

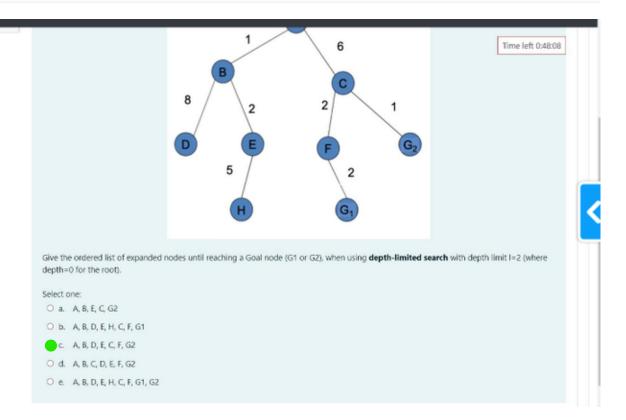
 \bigcirc a. $\exists x: \neg Person(x) \land \neg Perfect(x)$

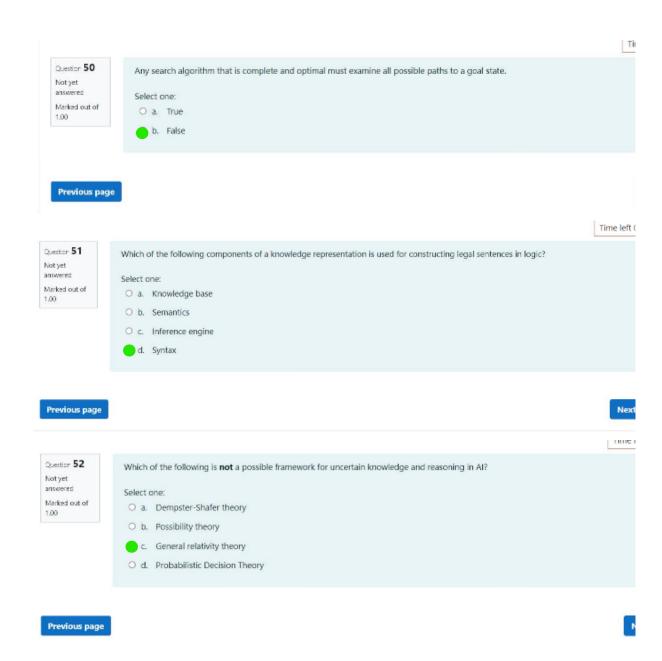
b. ¬∃x: Person(x)∧ Perfect(x)

○ c. ∃x: Person(x) ∧ ¬Perfect(x)

 \bigcirc d. $\exists x: \neg Person(x) \land Perfect(x)$

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estion 53	Why are most standard search algorithms (breadth-first search, uniform cost search, etc) not adapted to Constraint Satisfaction proble	ems?
swered	Selectione:	
rked out of	a. Because they are not complete when applied to Constraint Satisfaction problems	
0	b. Because they are too much time-consuming when applied to Constraint Satisfaction problems	
	c. Because, by nature, there is no way to apply them to Constraint Satisfaction problems	
	d. Because they are not optimal when applied to Constraint Satisfaction problems	
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