AI Quiz

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Quiz1

Which one of the following Boolean expressions is NOT a tautology?

○ $(a \wedge b \wedge c) \rightarrow (c \vee a)$

○ $((a \rightarrow b) \wedge (b \rightarrow c)) \rightarrow (a \rightarrow c)$

○ $a \rightarrow (b \rightarrow a)$

⦿ $(a \leftrightarrow c) \rightarrow (\neg b \rightarrow (a \wedge c))$

Clear selection

Let P, Q and R be three atomic prepositional assertions. Let X denote $(P \vee Q) \rightarrow R$ and Y denote $(P \rightarrow R) \vee (Q \rightarrow R)$. Which one of the following is a tautology?

⦿ $X \rightarrow Y$

○ $\neg Y \rightarrow X$

○ $X \equiv Y$

Clear selection

The contra positive of the statement "If 7 is greater than 5, then 8 is greater than 6" is

◉ If 8 is not greater than 6, then 7 is not greater than 5.

◯ If 8 is greater than 6, then 7 is not greater than 5.

◯ If 8 is not greater than 6, then 7 is greater than 5.

◯ If 8 is greater than 6, then 7 is greater than 5.

Clear selection

Forward chaining systems are _____, where as backward chaining systems are _____.

◉ Data-driven, goal-driven

◯ Goal-driven, data-driven

◯ Data-driven, data-driven

◯ Goal-driven, goal-driven

Clear selection

Which of the following sentences are not propositions?

☐ The sum of two even integers is even.

☐ It is raining today.

☐ x is a real number

☑ The New York Yankees have never won a World Series.

Mahadev says: "If I'm guilty, I must be punished; I'm not guilty. Thus I must not be punished." Is the argument logically correct?

◉ True

◯ False

Clear selection

Translate the following statement into predicate logic using the following predicates: E(x)=x is even, P(x)=x is prime, L(x,y)=x<y. Statement: Some Primes are Odd.

☐ ¬(∀x,P(x))→E(x)

☑ ¬(∀x,P(x)→E(x))

☑ ∃x,P(x)∧¬E(x)

☐ ∃x,P(x)∧E(x)

Translate the following statement into predicate logic using the following predicates: E(x)=x is even, P(x)=x is prime, L(x,y)=x<y. Statement: Every even number is greater than 1.

◯ ∀xE(x)⟹¬L(1,x)

◯ ∃xE(x) ∧ ¬L(1,x)

◉ ∀xE(x)⟹L(1,x)

◯ ∃xE(x) ∧ L(1,x)

Clear selection

Which search is implemented with an empty first-in-first-out queue?

○ Depth-first search

◉ Breadth-first search

○ Heuristic search

○ All

Clear selection

The action of the Simple reflex agent completely depends upon _____

◉ Current perception

○ Utility functions

○ Learning theory

○ Perception history

Clear selection

Select the most appropriate situation for that a blind search can be used.

○ Real-life situation

◉ Small Search Space

○ Complex game

○ All of above

Clear selection

In the Wumpus World Problem, the reason for the uncertainty is that the agent's sensor gives only__

○ Full & Global information

○ Partial & Global Information

◉ Partial & local Information

○ Full & local information

Clear selection

Which process makes two different Logical expressions look identical?

◉ Unification

○ Resolution

○ Inference Process

○ None

Clear selection

In which agent does the problem generator is present

◉ Learning agent

○ Reflex agent

○ Observing agent

○ None of the above

Clear selection

Which of the following are well formed propositional formulas?

- ☐ Vpq
- ☑ (¬(p -> (q ^ p)))
- ☐ p¬r
- ☑ (p ^ ¬q) V (q -> r)
- ☐ (¬(p -> (q = p)))

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