CS50AI 2020 - Quiz 1 Submission

A score of 70% or higher is required to be considered to have "passed" a quiz.

Unlike CS50x, assignments and quizzes in this course are graded on a set schedule, and depending on when you submitted, it may take up to three weeks for your work to be graded. Do be patient! Quizzes (which are submitted via Google Forms and not submit50) will not show up as submitted in your Gradebook until the scores have been released; therefore, we ask that you please do not attempt to submit multiple times before your score is released.

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Meine Antwort

City, State, Country

Meine Antwort

The following question will ask you about the following logical sentences.

1. If Hermione is in the library, then Harry is in the library.
2. Hermione is in the library.
3. Ron is in the library and Ron is not in the library.
4. Harry is in the library.
5. Harry is not in the library or Hermione is in the library.
6. Ron is in the library or Hermione is in the library.

Which of the following logical entailments is true? *   1 Punkt

○ Sentence 2 entails Sentence 5

○ Sentence 1 entails Sentence 2

○ Sentence 5 entails Sentence 6

○ Sentence 6 entails Sentence 2

○ Sentence 1 entails Sentence 4

○ Sentence 6 entails Sentence 3

There are other logical connectives that exist, other than the ones   1 Punkt
discussed in lecture. One of the most common is "Exclusive Or"
(represented using the symbol ⊕). The expression A ⊕ B represents the
sentence "A or B, but not both." Which of the following is logically
equivalent to A ⊕ B? *

○ (A ∨ B) ∧ ¬ (A ∨ B)

○ (A ∨ B) ∧ (A ∧ B)

○ (A ∨ B) ∧ ¬ (A ∧ B)

○ (A ∧ B) ∨ ¬ (A ∨ B)

Let propositional variable R be that "It is raining," the variable C be that "It is cloudy," and the variable S be that "It is sunny." Which of the following a propositional logic representation of the sentence "If it is raining, then it is cloudy and not sunny."? *

1 Punkt

○ (R → C) ∧ ¬S

○ R → C → ¬S

○ R ∧ C ∧ ¬S

○ R → (C ∧ ¬S)

○ (C ∨ ¬S) → R

Consider, in first-order logic, the following predicate symbols. Student(x) represents the predicate that "x is a student." Course(x) represents the predicate that "x is a course." Enrolled(x, y) represents the predicate that "x is enrolled in y." Which of the following is a first-order logic translation of the sentence "There is a course that Harry and Hermione are both enrolled in."? *

1 Punkt

○ ∃x. Course(x) ∧ Enrolled(Harry, x) ∧ Enrolled(Hermione, x)

○ ∀x. Enrolled(Harry, x) ∨ Enrolled(Hermione, x)

○ ∃x. Enrolled(Harry, x) ∨ Enrolled(Hermione, x)

○ ∀x. Enrolled(Harry, x) ∧ ∀y. Enrolled(Hermione, y)

○ ∃x. Enrolled(Harry, x) ∧ ∃y. Enrolled(Hermione, y)

○ ∀x. Course(x) ∧ Enrolled(Harry, x) ∧ Enrolled(Hermione, x)

Comments, if any

Meine Antwort

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