

CSE 311: Foundations of Computing I

QuickCheck: Logical Translations (due Thursday, October 12)

Name:

0. Fish are Food, not Friends

Consider the following English statement:

“Every fish in the Pacific Ocean that is not the smallest fish in the Pacific Ocean eats a smaller fish in the Pacific Ocean.”

Let the domain of discourse be all fish and the Pacific Ocean.

Let $\text{Fish}(x)$ be “ x is a fish”, $\text{LivesIn}(x, y)$ be “ x lives in y ”, $\text{Smaller}(x, y)$ be “ x is smaller than y ”, $\text{Equals}(x, y)$ be “ x equals y ”, and $\text{Eats}(x, y)$ be “ x eats y ”. Let PacificOcean represent the Pacific Ocean.

Express this statement as a logical expression using the specified domain and predicates.

1. One Question!

Please come up with one question related to the course that hasn't been answered yet. It could be about policy, content, instructors, TAs, etc.