Lecture 13 - March 14

Model Checking

Model Satisfaction: Nested LTL Operators GF ϕ , GF $\phi \Rightarrow$ GF ϕ

LTL Operators: Until, Weak Until, Release

Announcements

- ProgTest1 result to be released by Friday
- Lab3 to be released by the end of Thursday



Nesting "Global" and "Future" in LTL Formulas

S GF b *infinitely* **T**: **(a) (b) (c) (c)**

Q. Formulate the above nested pattern of LTL operator. Let $\frac{\pi}{2}$

Q. How to prove the above nested pattern of LTL operators?

Q. How to disprove the above hested pattern of LTL operators? * Give a witness path TL Give A witness state on TL, say S' +*** velocitive to s' on TL,



Model Satisfaction: Exercises (6.1)











