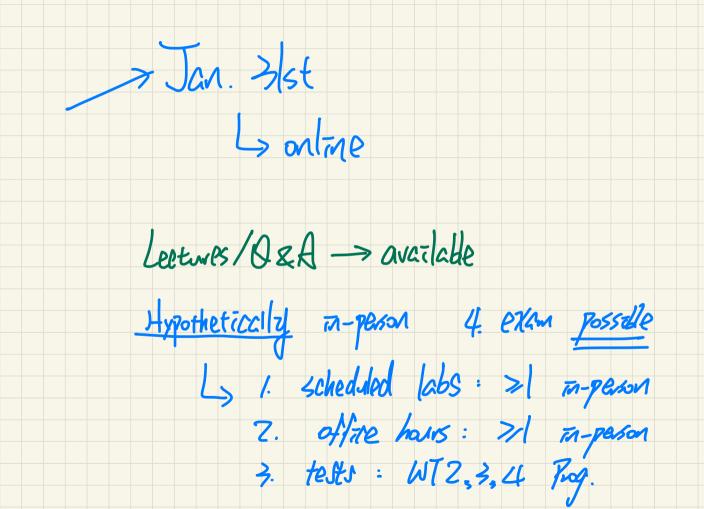
EECS3342 System Specification and Refinement (Winter 2022)

Q&A - Week 1 Lecture

Thursday, January 20



Announcements

- Scheduled Labs (TA Zoom)
- Lab1 (Tutorial and Exercises) released 🦩

W

Coverage.

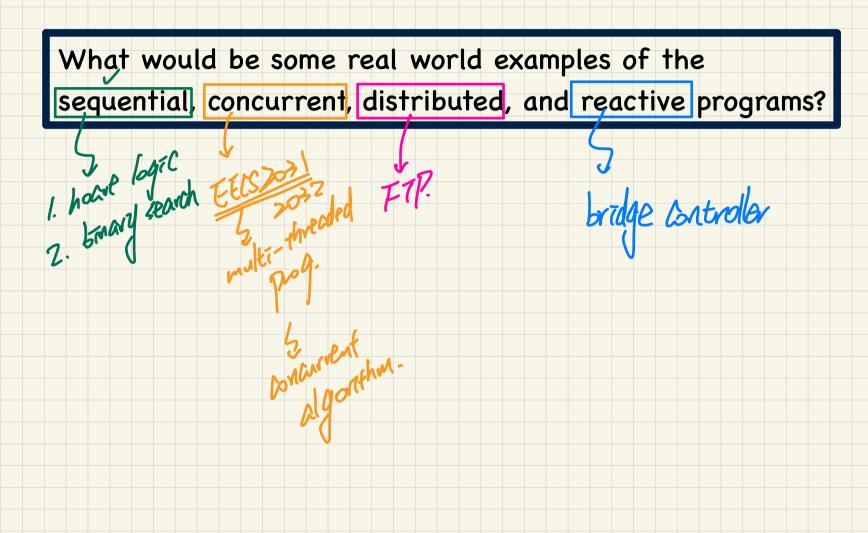
- Lecture W2 released
- Written Test 1 on Feb. 1

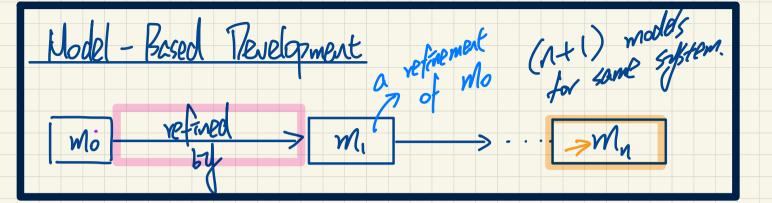
A E- or R-des.

Will we ever need to create our own "informal requirements"

for this course or will they be always given for us to conform to?

(1.) No., you'll always be given FELS 4212. req. doc. 2. Formalize the req. The madelling <u>Context</u> + <u>machine</u> deristors varabes Constants Truc, Tout action) Bent (param., guards, ATIOMS the orems





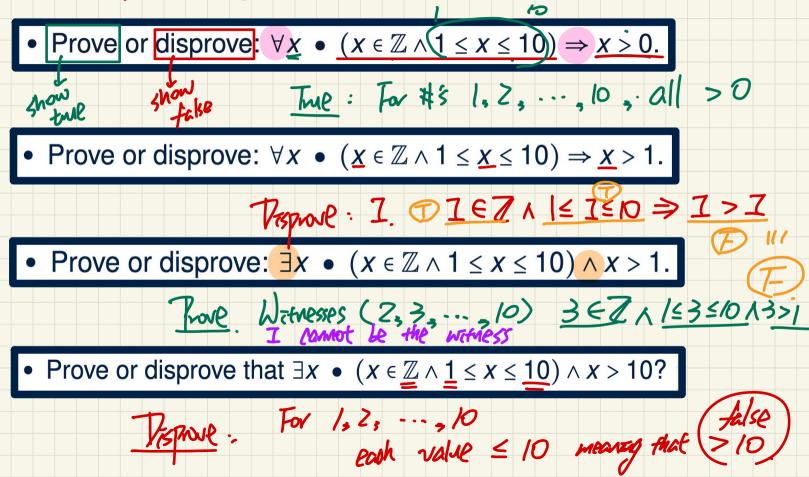
- What defines the most abstract model? -> a small # of vars & const, constraints.
- Does it just satisfy one requirement? -> a small # of veg
- What defines the most concrete model -> sufficted the code
- Does(it)satisfy all requirements?
- When do we stop adding refinements?
- How do we know what details to add in a subsequent refinement?
- What does it mean to prove a refinement? Will it be formal or informal?

-> Toleand

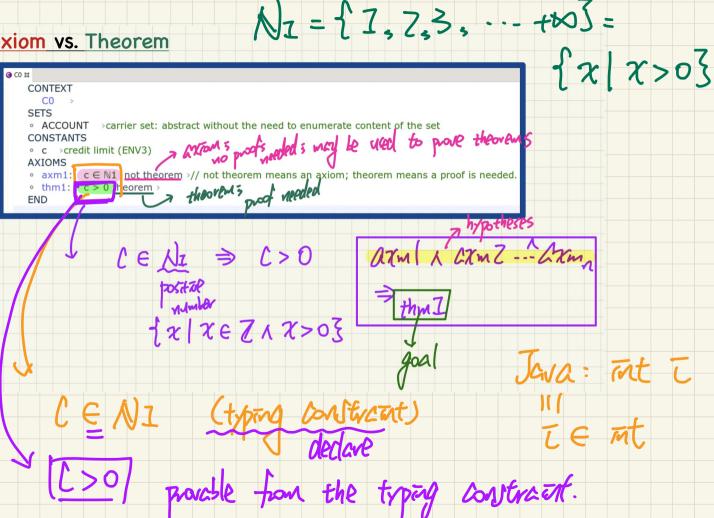
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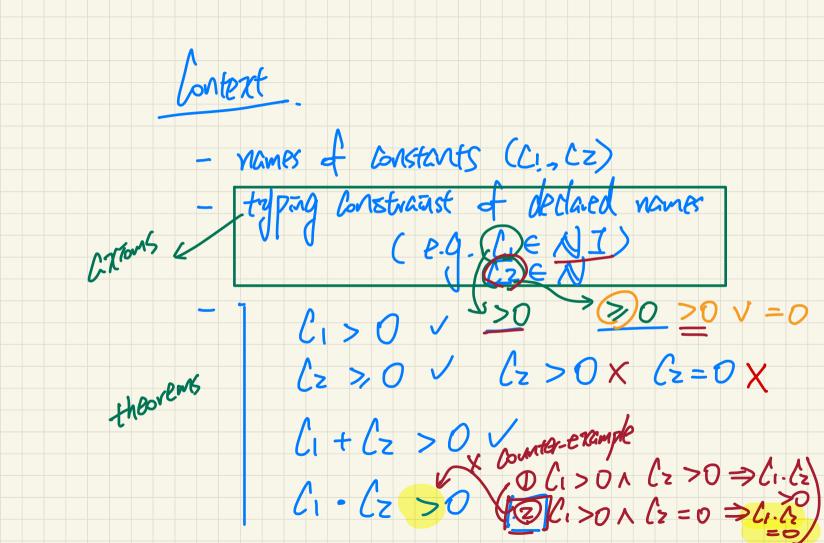
- How complex will the models be in this class?
- -Will you teach us the refinement process in detail?
- -Because you mentioned we will have to do this ourselves?
- When you are marking our work do you value correctness over creativity?

Prove/Disprove Logical Quantifications



Axiom vs. Theorem





Typo on Notes

Conversions between 4 and 3 $I = (\forall \tau \cdot \tau \in S \Rightarrow \tau \Rightarrow 0) \Leftrightarrow \neg (\exists \tau \cdot \tau \in S \land \neg (\tau \Rightarrow))$ $Z = (\exists \tau \cdot \tau \in S \land \tau \Rightarrow 0) \Leftrightarrow \neg (\forall \tau \cdot \tau \in S \land \tau \Rightarrow 0)$

Conjunction to implication?

