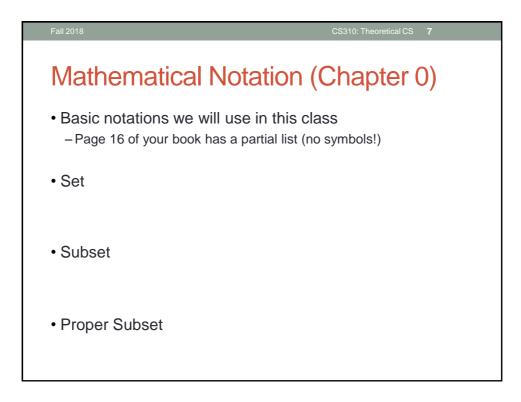
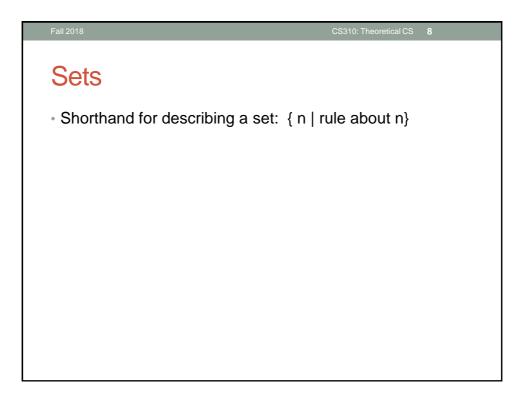
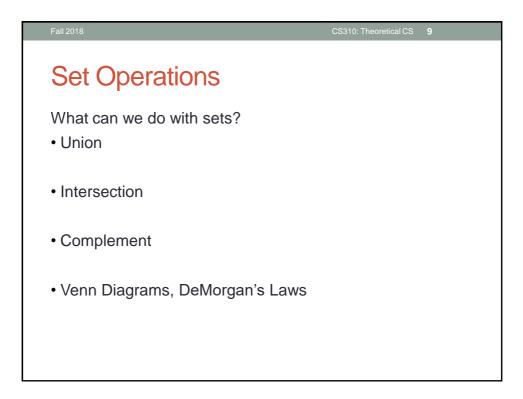
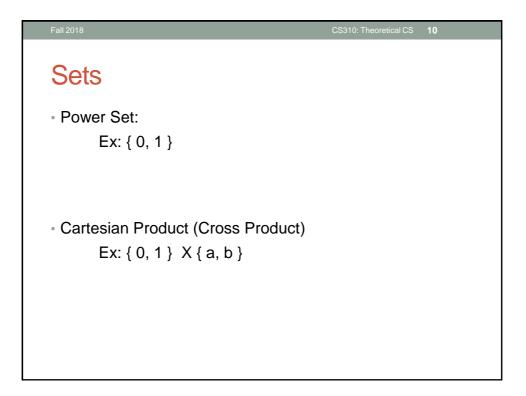


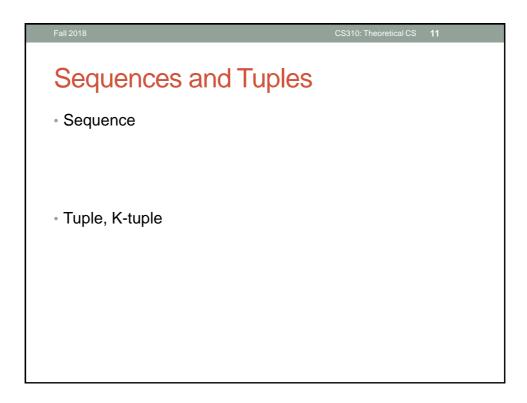
Fall 2018	CS310: Theoretical CS 6
Overview	
 What are the fundamental capab computers? 	ilities and limitations of
 How does theory related to progr 	amming?
 Complexity Theory 	
 Computability Theory 	
 Automata Theory 	

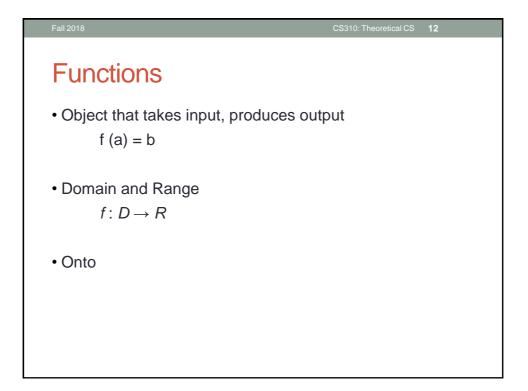


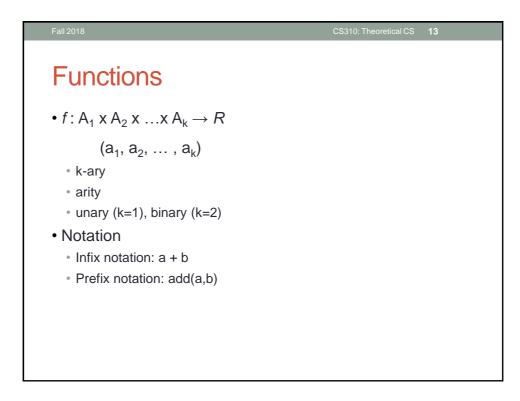




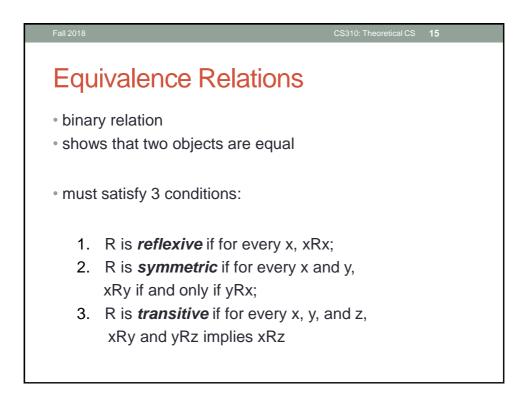


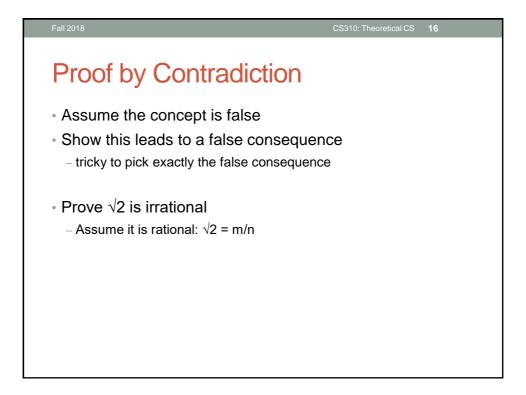


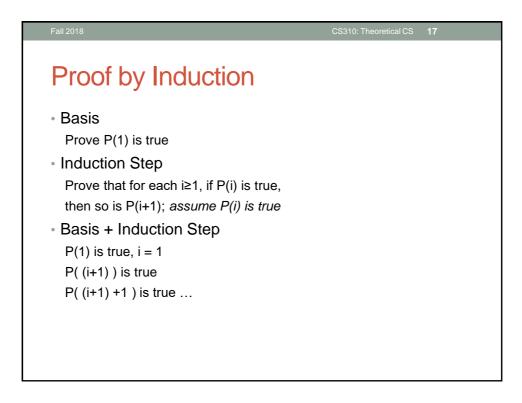




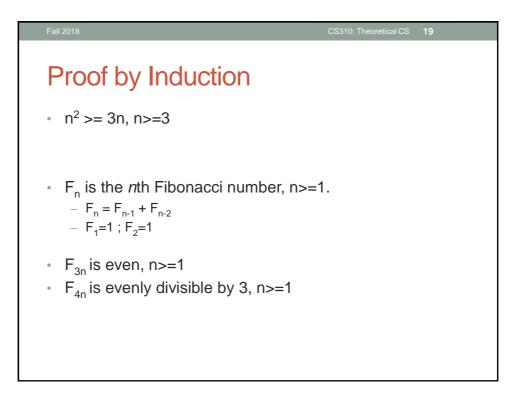
Fall 2018	CS310: Theoretical CS	14
Relations • Predicate (property) $f: D \rightarrow \{\text{TRUE, FALSE}\}$		
• Relation $f: A_1 \times A_2 \times \times A_n \rightarrow \{\text{TRUE}, \text{FALSE}\}$		
 Notation Table Set 		







Fall 2018	CS310: Theoretical CS	18		
Proof by Induction				
 Prove: 1 + 2 + + n = n(n+1) / 2 for n ≥ 1 				
Basis:				
Induction:				



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