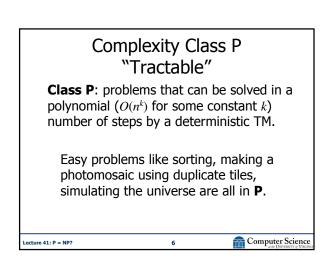
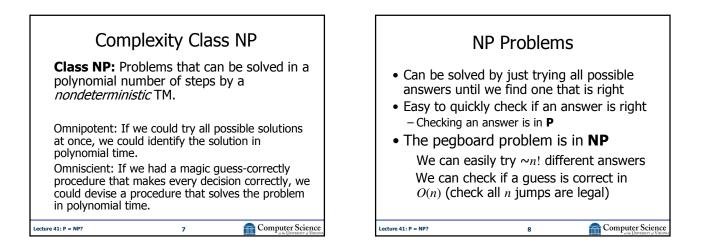


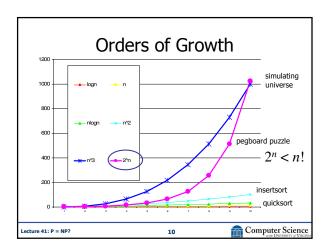
Lecture 41: P = NP?

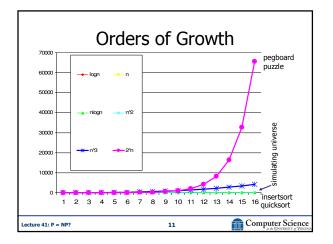
Computer Science

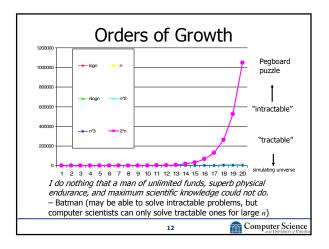


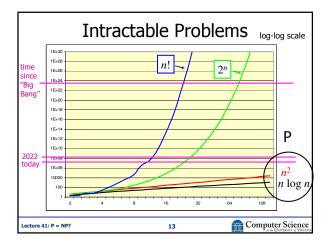


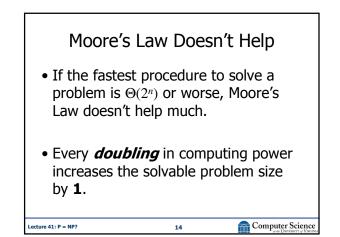
Is the Pegboard Problem in \mathbf{P} ? No one knows! We can't find a $O(n^k)$ solution. We can't prove one doesn't exist.

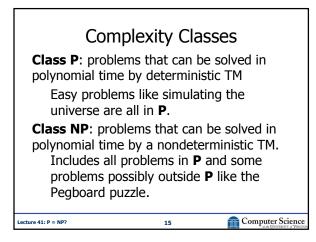


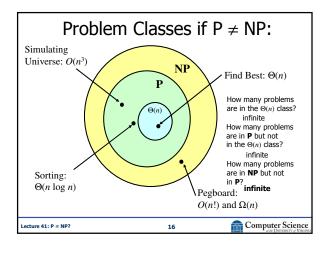


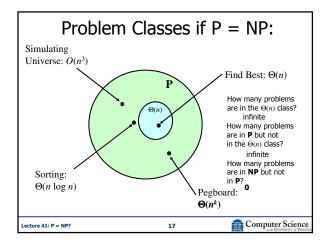


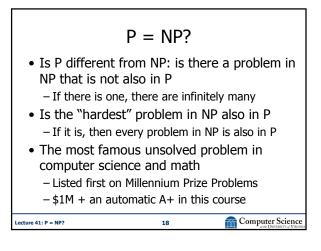


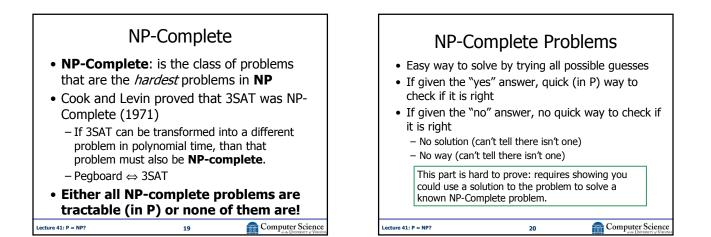


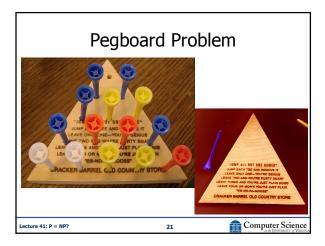


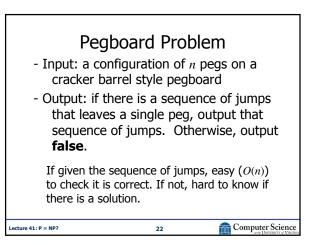












Most Important Science/Technology Races		
1930-40s:Decryption Winner: British	Nazis vs. British	
Reason: Bletchley Park had computers (and Alan Turing), Nazi's didn't		
1940s: Atomic Bomb	Nazis vs. US	
Winner: US		
Reason: Heisenberg miscalculated, US had better physicists, computers, resources		
1960s: Moon Landing	Soviet Union vs.	US
Winner: US		
Reason: Many, better computing was a big one		
1990s-2001: Sequencing Human Genome		
Lecture 41: P = NP?	23	Computer Science

