

Outline for Lecture 8

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1. More complete problems
 - (a) Time-Complete Problems
 - Subset Sum
 - Divisor
 - Hamiltonian Cycle (mention)
 - Independent Set
 - Verifier notion
 - Clique
 - Tightness of Reduction
 - (b) Space-Complete Problems
 - Reachability
 - Generalized Geography
 - (c) Alternating Space Complete Problems
 - Generalized Geography with recovery
2. Cool Space Results
 - (a) Szelepcsényi-Immerman $NL=coNL$
 - Counting gives reachability
 - Counting gives reachability +1
 - Reachability +1 extends counting