

CSE 6321 - Problem Set 7

Due beginning of lecture on April 21th

Problem numbers are from the third edition of Sipser's book. If unsure about which problem to solve, ask. Collaboration is permitted; looking for solutions from external sources (books, the web, material from previous years, etc.) is prohibited. Printed version is preferred, otherwise please make sure your handwriting is readable.

1. Prove that $NTIME(n) \subsetneq PSPACE$.
2. 9.14 (where $NEXPTIME = \cup_{k \geq 0} NTIME(2^{n^k})$)
3. 9.9