* Intro(1 page)
  + What is the topic
  + Summary of complexity
* Semantics(2)
  + List of syntax, multiple agents --- compare class notes
  + Basic Clarification of NP,NPC… show picture
  + Formal binary relation
  + Axioms A1...A6
    - Basic constraints
    - Non basic constraints
  + K T S4 S5 KD45
  + K T S4 S5 KD45 corresponds to r, rt, rst, elt
* Decidability of validity(2)
  + What is valid(page 5) --- compare class notes
  + For K:
    - Construct
    - Check
  + For S4n, S5n, KD45n, slight modification
* Decidability of satisfactory(4)
  + What is satisfactory
  + Introduction of P,PSPACE,EXPTIME,and co-C
  + The table
  + NP-completeness for S5 and KD45
    - NP-hard by cook(built by propositional)
    - NP-complete(O(m^2))
  + PSPACE lower bound for K,T,S4,S5\_2,KD45\_2
    - PSPACE-hard
    - Using tableau method to prove PSPACE-complete
* Comclusion(1)