





Slide 3

Uses of Partial Orderings As mentioned last time, a partial ordering (reflexive, symmetric, transitive relation — think "generalized ≤") can express ordering constraints among tasks. We'll look at two applications — PERT charts and topological sorting.

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- (PERT is "Program Evaluation and Review Technique".)
- Idea is to start with a set of tasks, each of which can have others as prerequisites (i.e., a partial ordering), and express these relationships graphically, and also include time to complete each task. From the diagram, can then determine minimum time to complete all tasks, "critical path".

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• Example — practice problem 17 in text.



Slide 6



