

**Precept 2**

*These problems (or a subset of them) will be solved in precept.*

1. EXERCISE 4.13 (*weighted completion time*).
2. Given a digraph  $G = (V, E)$  with edge throughputs  $t_e \geq 0$ , the *throughput* of a directed path  $P$  is the minimum throughput of an edge in  $P$ . Design an efficient algorithm to find the maximum throughput path from  $s$  to every other node.
3. EXERCISE 4.19 (*bottleneck paths in an undirected graph and MST*).