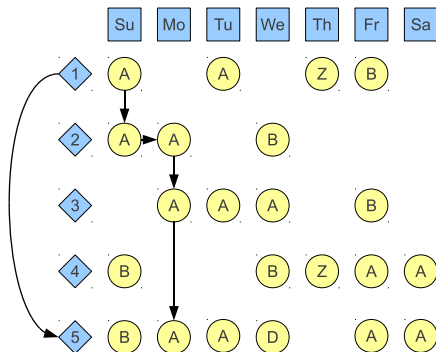


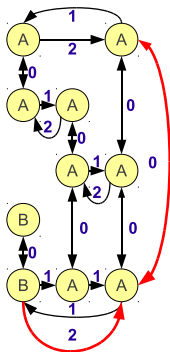
Problem

- Group of friends with a fixed weekly timetable with some common activities.
- How to deliver a package from one friend to another as quickly as possible?



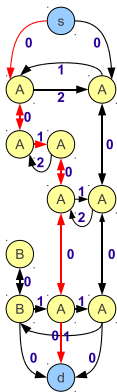
Solution 1: Person/Day

- Create a graph with all possible paths between each person/day.
- We do not need all possible paths.
- WCS: $7p$ nodes, 3 edges/node



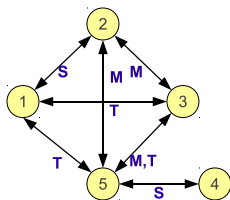
Solution 1: Person/Day

- For each question: create virtual source and destination nodes.
- Calculate shortest path: dijkstra.



Solution 2: Person

- Create nodes for each person.
- We do not need all possible paths.
- WCS: p nodes, 14 edges/node
- Calculate shortest path between persons. Can be tricky.



Solution 3: Activity/Day

- Create nodes for each activity/day.
- WCS: $26 * 7$ nodes, $26 * 6$ edges/node

