

Today Single-source shortest paths, continued. §§ 24.*

Next class All-pairs shortest paths. §§ 25.*

Reminders Newsgroup. Homework.

1. List the members of your group below. Underline your name.

2. Solve the following system of difference equations by mapping it to a shortest-paths problem.

$$x_1 - x_2 \leq 5 \quad (1)$$

$$x_1 - x_3 \leq -2 \quad (2)$$

$$x_2 - x_3 \leq -1 \quad (3)$$

$$x_3 - x_4 \leq 4 \quad (4)$$

$$x_3 - x_5 \leq 7 \quad (5)$$

$$x_4 - x_2 \leq -3 \quad (6)$$

$$x_4 - x_6 \leq 3 \quad (7)$$

$$x_5 - x_6 \leq -2 \quad (8)$$

$$x_6 - x_1 \leq -12 \quad (9)$$

$$x_6 - x_3 \leq -2 \quad (10)$$