

**Today** MATRIX-CHAIN-ORDER; dynamic prog.; alg. analysis. §§ 15.{2,3}; 1.\*, 3.\*.

**Next class** Homework 1 due. Dynamic Programming contd. §§ 15.4,5.

**Reminders** Homework. Newsgroup. Reading. Coding. Practice. Don't fall behind.

1. List the members of your group below. Underline your name.
2. Depict tables similar to those in Figure 15.5 of the textbook for MATRIX-CHAIN-ORDER on the following input:

matrix:	$A_1$	$A_2$	$A_3$	$A_4$	$A_5$
dimension:	$100 \times 30$	$30 \times 100$	$100 \times 30$	$30 \times 70$	$70 \times 10$

3.
  - (a) Provide pseudocode for binary search of an array of `ints`.
  - (b) Provide a brief English explanation of why your pseudocode is correct.
  - (c) Prove the correctness of your pseudocode using loop invariants, etc.