Today  Matrix-Chain-Order; dynamic prog.; alg. analysis. §§ 15.1, 2, 3; 1.*, 3.*.
Next class  Homework 1 due. Dynamic Programming contd. §§ 15.4, 5.

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:

<table>
<thead>
<tr>
<th>matrix:</th>
<th>$A_1$</th>
<th>$A_2$</th>
<th>$A_3$</th>
<th>$A_4$</th>
<th>$A_5$</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimension:</td>
<td>$100 \times 30$</td>
<td>$30 \times 100$</td>
<td>$100 \times 30$</td>
<td>$30 \times 70$</td>
<td>$70 \times 10$</td>
</tr>
</tbody>
</table>
3. (a) Provide pseudocode for binary search of an array of \texttt{ints}.
(b) Provide a brief English explanation of why your pseudocode is correct.
(c) Prove the correctness of your pseudocode using loop invariants, etc.