Today: Introduction; rod-cutting. § 15.1.
Next class: fundamentals of alg. analysis; §§ 2.*.
Reminders: Read material before and after class. Use the class newsgroup.

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

2. For the following mapping of rod lengths to prices, trace the execution of a recursive cut-rod algorithm for a rod of length 12.

<table>
<thead>
<tr>
<th>length</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>price</td>
<td>3</td>
<td>4</td>
<td>9</td>
<td>11</td>
<td>14</td>
<td>17</td>
<td>19</td>
<td>24</td>
<td>28</td>
<td>29</td>
<td>32</td>
<td>36</td>
<td>37</td>
<td>41</td>
<td>44</td>
</tr>
</tbody>
</table>
3. Repeat Question 2 for the memoized cut-rod algorithm (top-down).

4. Repeat Question 2 for the bottom-up cut-rod algorithm.

5. (informal homework) Implement all three versions of the cut-rod algorithm and conduct a brief experimental study of their performance.