Recursion
Preliminaries and Objectives

Preliminaries
- None

Objectives
- Understand recursive processes.
Example 1 - Building a Deck

- 16"
- 32"
- 48"
- 64"
- 80"
- 96"

University of Minnesota

Recursion
**Example 2 - Retirement Fund**

<table>
<thead>
<tr>
<th>Age</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>$10,000.00</td>
</tr>
<tr>
<td>31</td>
<td>$10,400.00</td>
</tr>
<tr>
<td>32</td>
<td>$10,816.00</td>
</tr>
<tr>
<td>33</td>
<td>$11,248.64</td>
</tr>
<tr>
<td>34</td>
<td>$11,698.58</td>
</tr>
<tr>
<td>35</td>
<td>$12,166.52</td>
</tr>
<tr>
<td>55</td>
<td>$26,658.36</td>
</tr>
</tbody>
</table>
Example 3 - Car Loan

1. Current Amount Owed
2. Calculate Interest
3. Add Interest to Amount Owed
4. Make Monthly Payment
5. Subtract Monthly Payment
6. Next Month’s Amount Owed
7. Repeat