CS367 Announcements Wed, July 10th, 2013

- Midterm Thursday July 11th in class
 - material through July 3rd

Last Time

• Stacks and Queues

Today

• begin Recursion

Factorial n!

Write a method that computes the factorial of n.

$$n! = n * (n-1) * (n-2) * (n-3) * ... * 2 * 1$$

 $6! = 6 * 5 * 4 * 3 * 2 * 1 = 720$

Recursion vs. Iteration

Recursion is like iteration:

Recursion is NOT like iteration:

Flexibility of Recursion

Constructing Recursive Code

Write a recursive method	that computes n^m	, this, n raised	to an integer	power of m:
Key points: 1.				
2.				
3.				

Fibonacci Sequence

Iterative method:

Recursive method: