CSCI 127: Joy and Beauty of Data

Lecture 12: Recursion

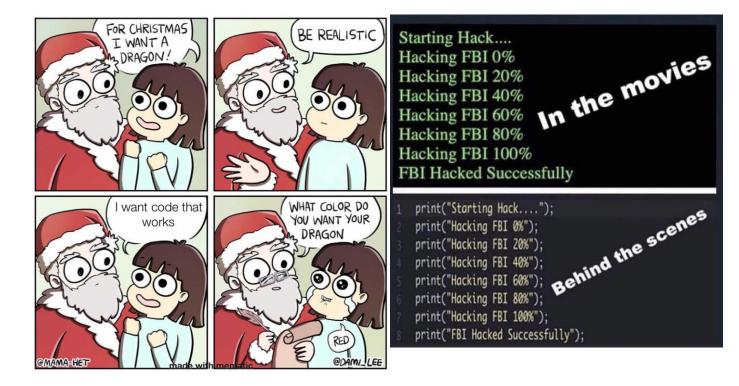
Reese Pearsall Snowmester 2020

https://reesep.github.io/classes/127/main.html

Announcements

Program 3 due tonight @ 11:59 PM

No class tomorrow and Friday ©



Today

Recursion, Debugging

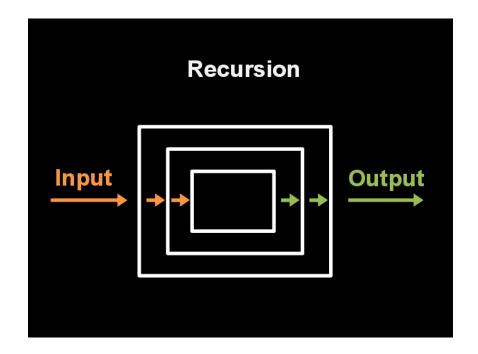
Recursion

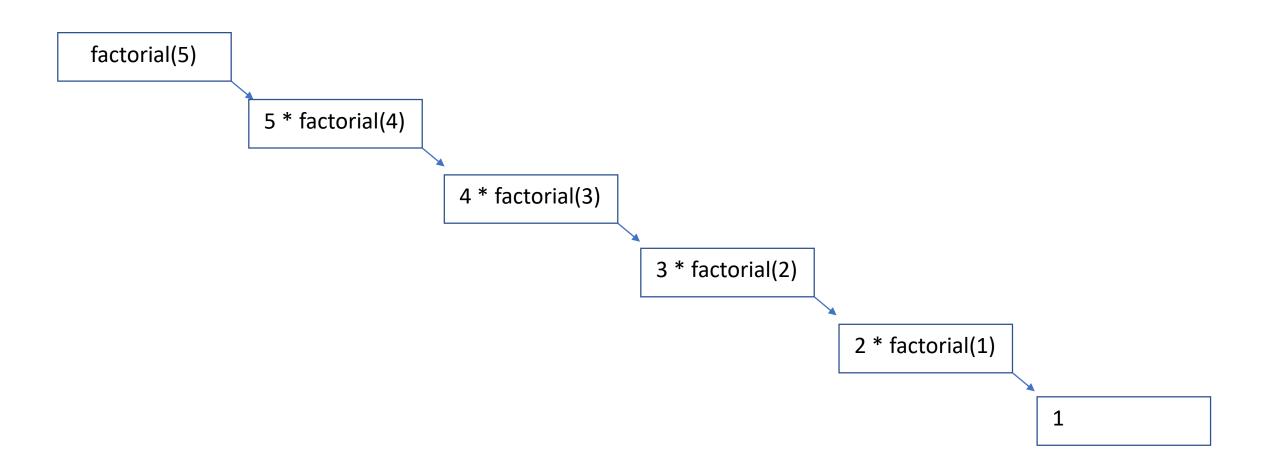
Recursion is a method of solving a problem that involves solving smaller instances of the same problem using the same function

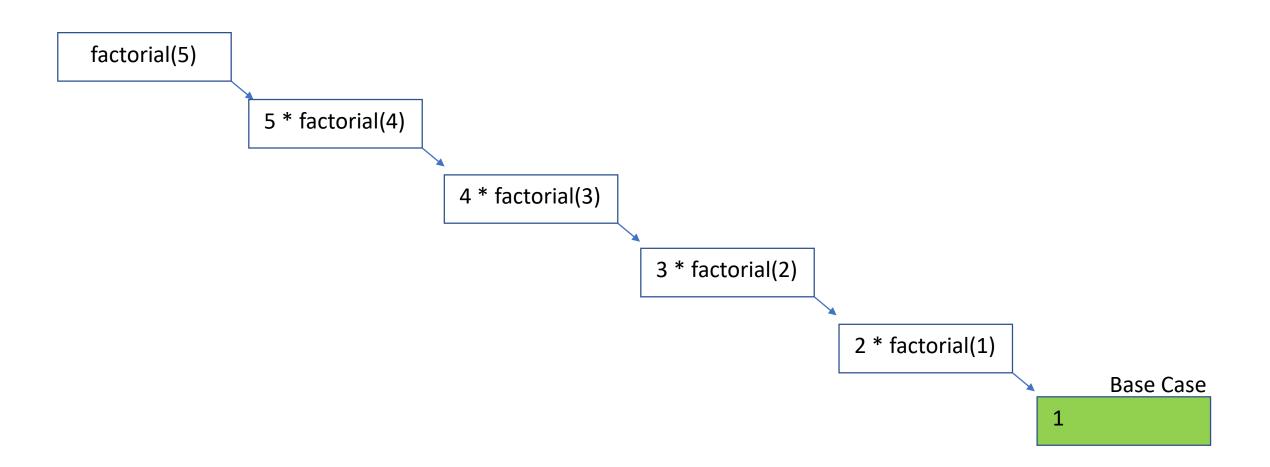
Can be very challenging.....

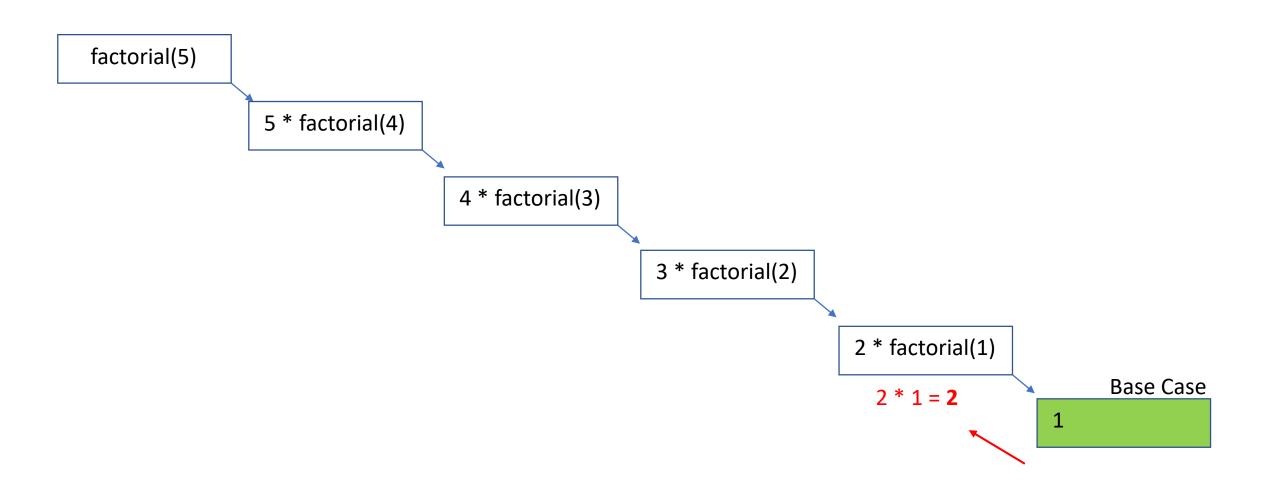
Recursion Requirements

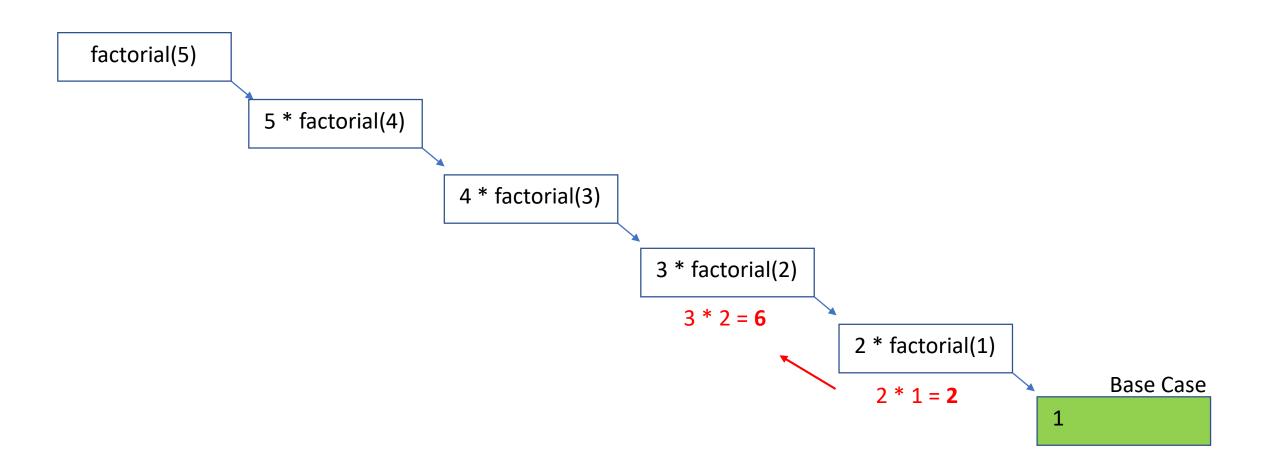
- 1. Base Case
 - The "stopping point" for your recursive calls
- 2. Recursive Case
 - Call the function again and solve a smaller problem

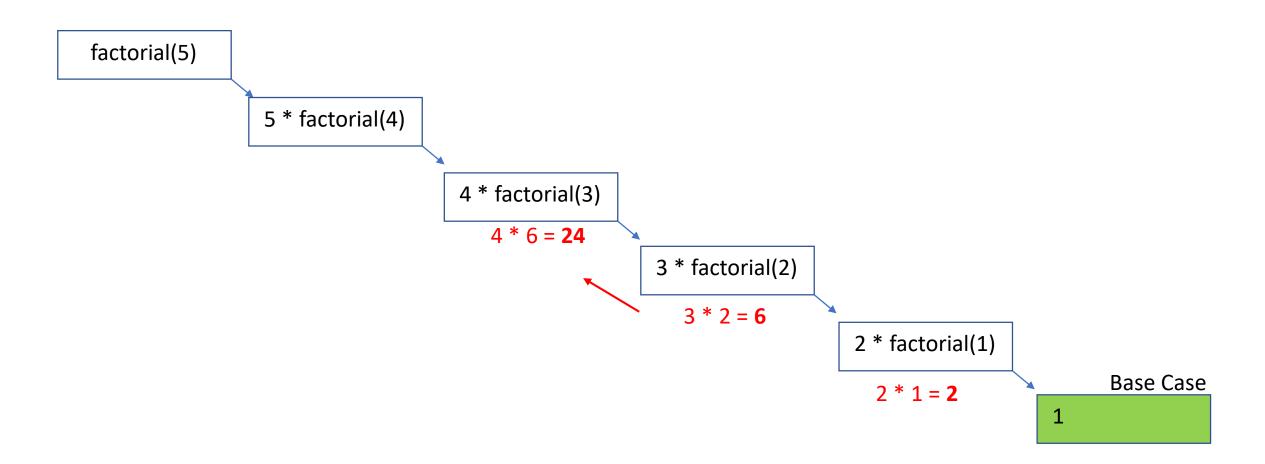


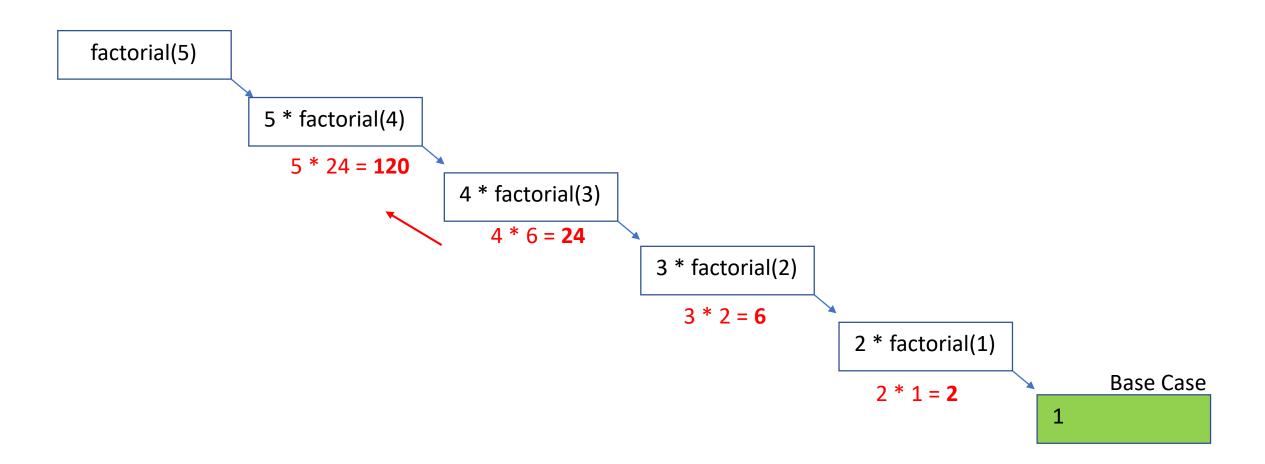


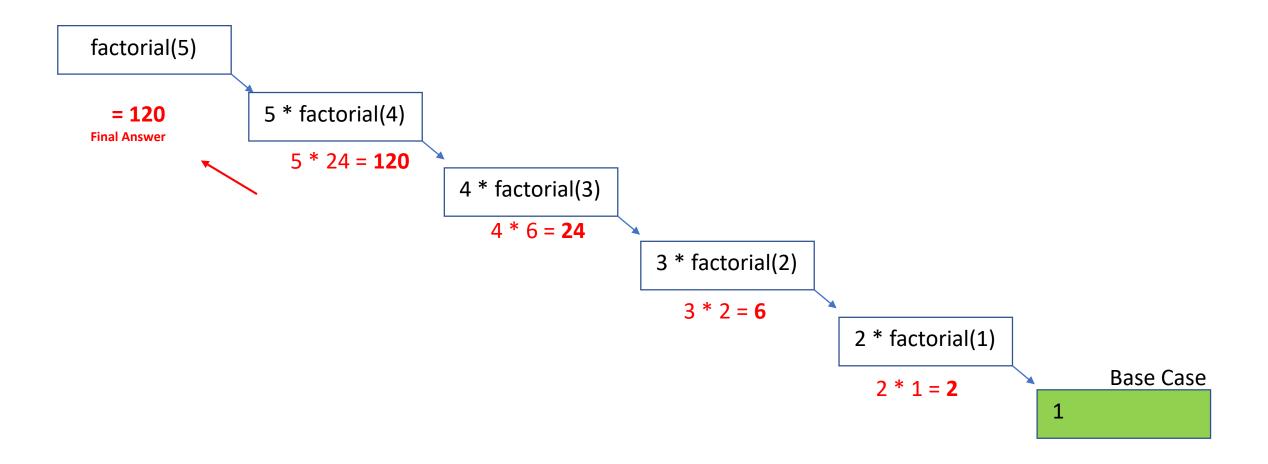














Write a recursive program that will count the number of P's in a string