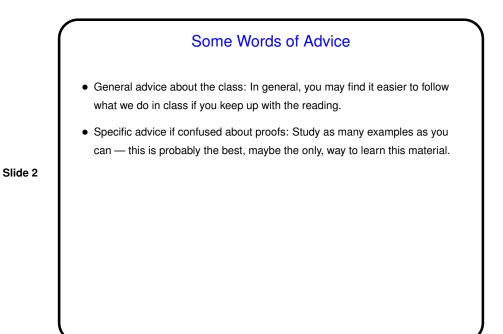
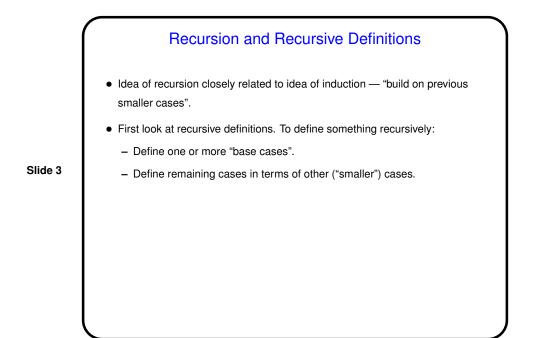
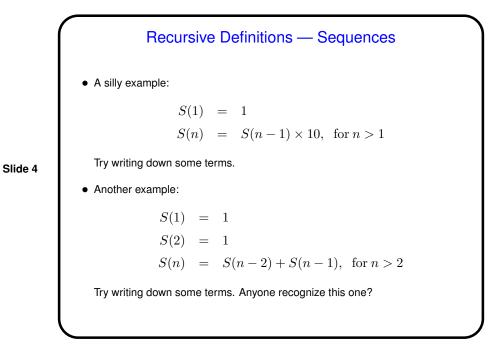
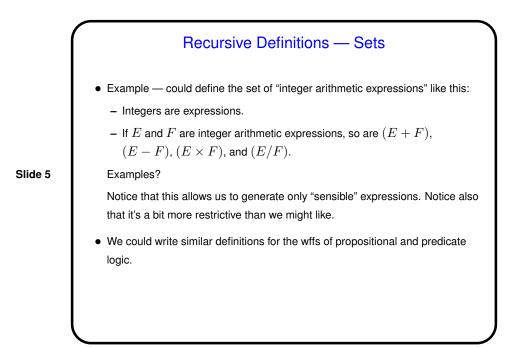


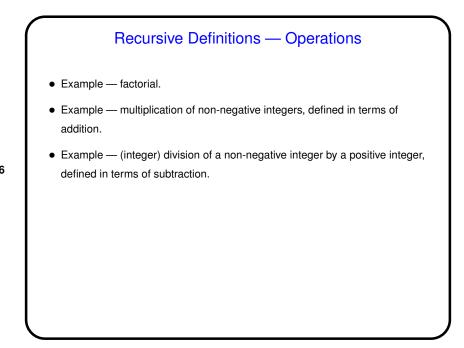
Slide 1



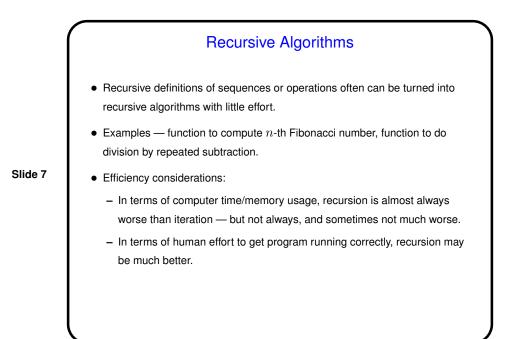


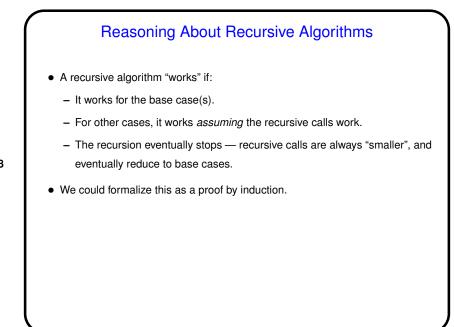






Slide 6





Slide 8

Minute Essay

• Consider the following recursive definition of a sequence:

$$S(1) = 1$$

 $S(n) = 10S(n-1) + 1$, for $n > 1$

Slide 9

What are $S(1), S(2), \ldots S(5)$?

 Minute Essay Answer

 • The first few terms:

 S(1) = 1

 S(2) = 11

 S(3) = 111

 S(4) = 1111

 S(5) = 11111