Chapter 7: Recorsion

| 4 | | |
|-----------|----------------------------------------|-------------------------------------|
| | - Amethod that calls it | self - Count to n |
| | | for: 1,2,3,4,5,1 |
| | | 00 |
| K | Base case son | Som(n) = n + Som(n-1) |
| | Base case some | |
| | | |
| 2 = - | Make progress - Each call most be a | Fib (6)=1 |
| | smaller version of the | Fib(1)=1 |
| | | Fib(n) = Fib(n-2) + Fib(n-1) |
| * * * * * | Believe-in method call | |
| | Compound interest | |
| | - Pout deplicate work | Base Case |
| | 8 | |
| | Trees | if (n==0 (n==1) |
| | (A) | return l |
| Root | - Top 1 | |
| | Circles 11 B C DE | 4 Slow Fib 5 |
| | Notes that | Fib 5 |
| | and 5 CA A A A | Solving the / Source thing F4 F3 |
| Parch | and 5 FB B B | Sure thing F4 F3 |
| | | |
| | | F3 F2 F1 |
| | | /\ FIFO |
| | | F2 Fl |
| | | FIFO Solved by Dynamic Programming! |
| | | Dynanic |
| | , | Programming! |
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