• Reading: Chapter 2.1.
• This note is supplementary to the slides. Please read them both.

1 Stacks: Fibonacci numbers

Definition 1. The nth Fibonacci number $F(n)$ is defined recursively as $F(n) = F(n-1) + F(n-2)$ for $n > 1$ with $F(0) = 0, F(1) = 1$.

Algorithm $\text{Fib}(n)$
   if $n > 1$ then
      return $\text{Fib}(n-1)+\text{Fib}(n-2)$;
   else
      return $n$;
   end if

Exercise: Test run Fib(4) with stacks.