

LAB 13

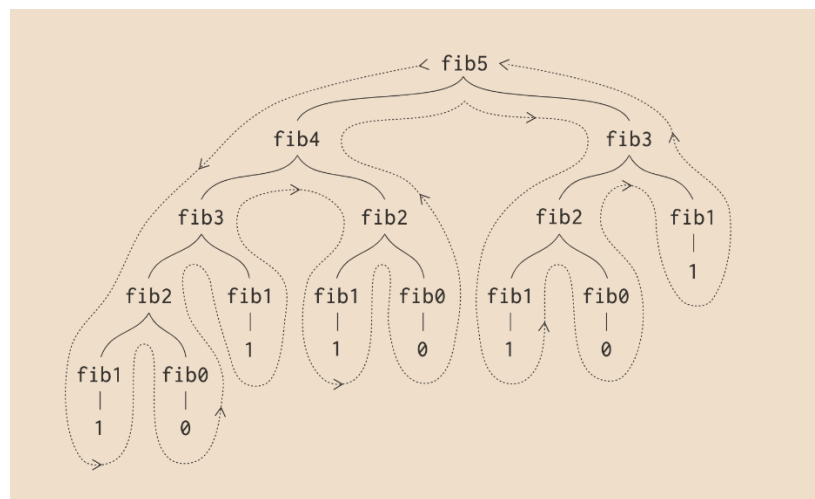
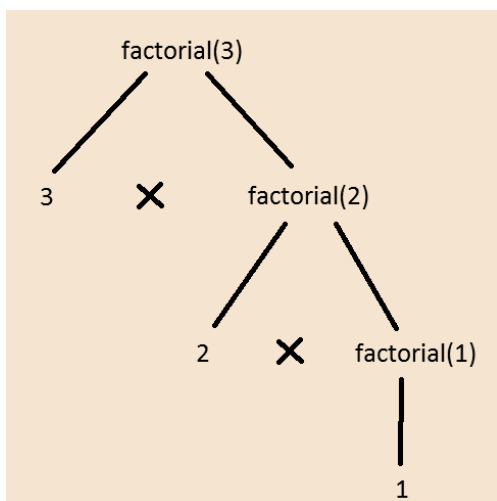
CSE225L



Recursion

In this lab, we will:

- Understand the concept of **recursion** and how it can be used to solve.
- Implement recursive functions for mathematical problems.



TASKS:

No.	Problem Description	Function Signature
1	Write a recursive function that returns the n th Fibonacci number in the series.	<code>int fib(int n);</code>
2	Write a recursive function to compute the factorial of a number.	<code>int factorial(int n);</code>
3	Write a recursive function that returns the sum of the digits of an integer.	<code>int sumOfDigits(int x);</code>
4	Write a recursive function that finds the minimum element in an array of integers.	<code>int findMin(int a[], int size);</code>
5	Write a recursive function that converts a decimal number to its binary equivalent.	<code>int DecToBin(int dec);</code>
6	Write a recursive function that returns the sum of the series: $1 + 1/2 + 1/4 + 1/8 + \dots + 1/2^n$	<code>double sumSeries(int n);</code>