# Exercises: Implement Trie

This document defines the **in-class exercises** assignments for the ["Data Structures" course @ Software University](https://softuni.bg/opencourses/data-structures).   
Your submission can check here: <https://judge.softuni.bg/Contests/637/Ropes-and-Tries-CSharp-Lab>

This lab aims to implement the insertion functionality of **trie**.

## Implement Insert

You're given a skeleton of a trie. You need to implement the insert() method, using the following recursive algorithm:

* Check if the given node is null and create and assign a new node if it is
* Check if you are at the last symbol of the key and if you are, do the following:
  + Make the node terminal
  + Assign the value
  + Return the node
* Check if the symbol you're at is in the children of the node
  + Move to the next node if it is
* Recursively call the insert for the next child of our node
* Return the node

### Hints

Here is the last part of the algorithm:

