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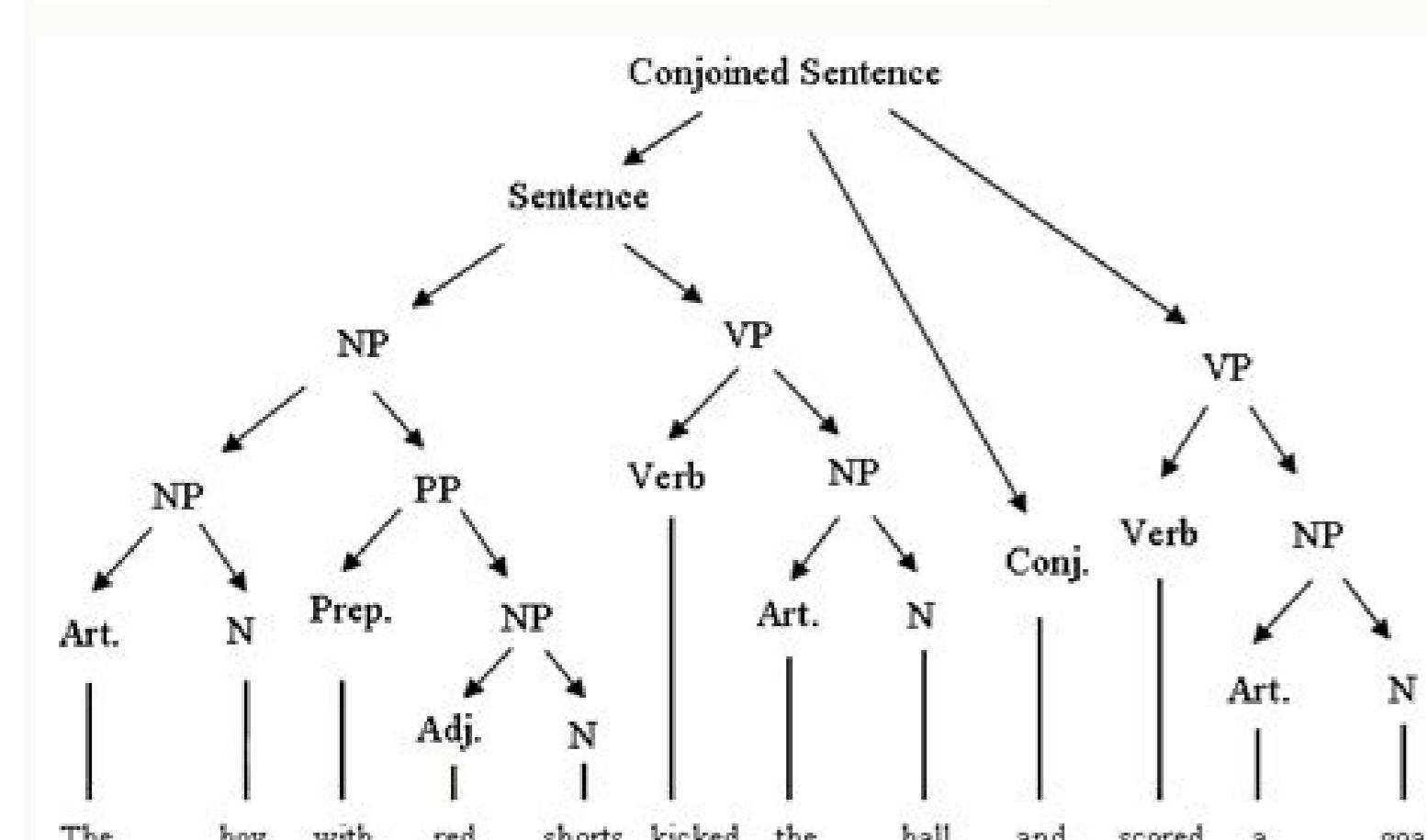
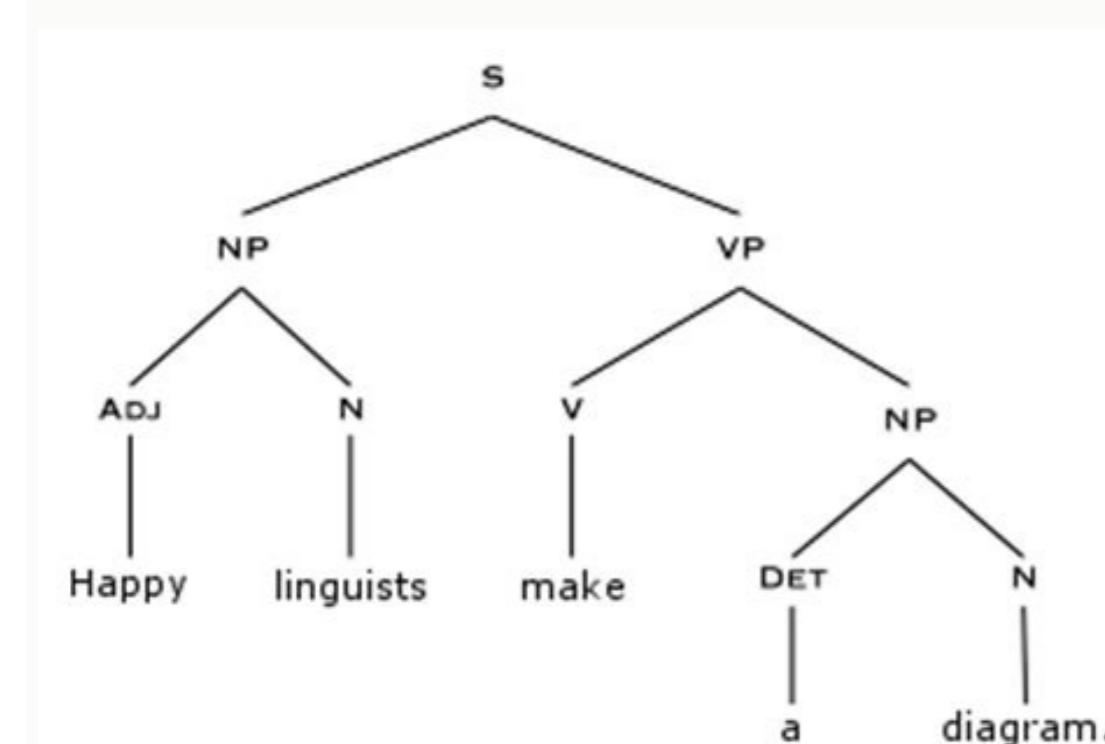
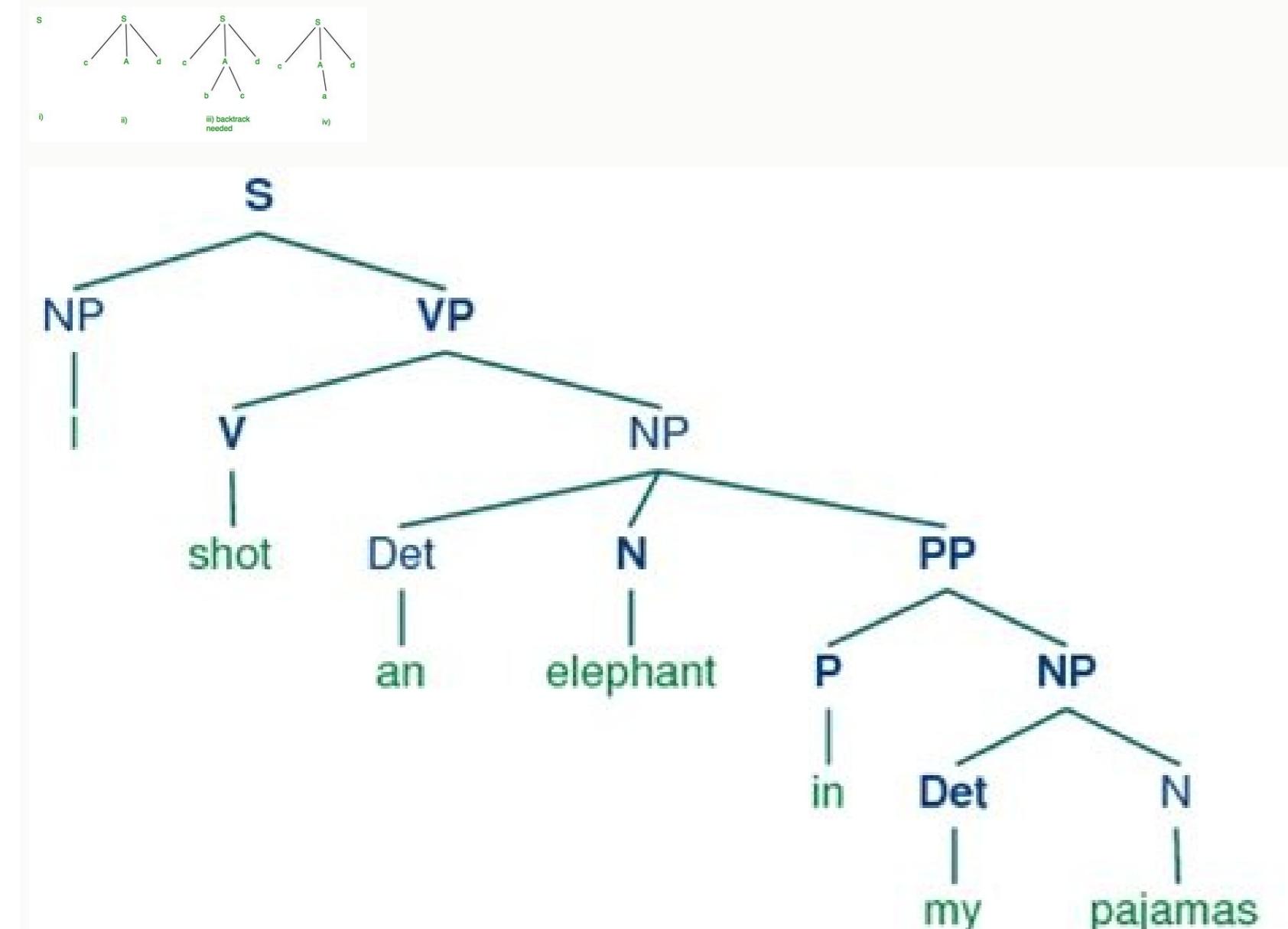
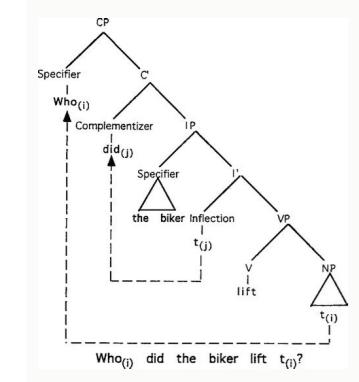


Figure 1.1.3

During this nested iteration, we add each node traversed in the Stack of Node. At the end of this iteration, current node is null. It gives us the following code for the Tree building:Tree Pre Order Traversal with RecursionWe start by implementing the Tree Pre Order Traversal Algorithm with Recursion. Then, we push left and right children of popped item to nodeStack1.Then, in a second loop, we print data all the elements of nodeStack2 . SlideShare uses cookies to improve functionality and performance, and to provide you with relevant advertising. Like you could see, recursion solutions are easier than iterative ones. If you continue browsing the site, you agree to the use of cookies on this website. In our example: H D I B J E A F C K GPost Order Traversal: Left, Right, Root. Then, we will iterate while the Stack won't be empty. The complete source of the Tree class with the main method calling all the methods presented is available just below:To discover more tutorials, don't hesitate to visit the SSaurel's Channel on YouTube:Sylvain SaurelIf you want to discover some books to learn Java programming, I advice you to read the following article with my selection of the Top 6 Best Books for Java programming :Top 6 Best Books for learning Java ProgrammingJoin HackerNoon SlideShare uses cookies to improve functionality and performance, and to provide you with relevant advertising. We traverse the Tree while the current node is not null or the Stack of Node is not empty.At each iteration, we try to reach the most left node from the current node. This gives us the following code:You can discover the implementation and the execution of the Tree Post Order Traversal Algorithm with Iterative solution in video on YouTube:Tree Level Order TraversalFinally, we are going to implement Tree Level Order Traversal Algorithm. In our example: A B C D E F G H I J KIn that tutorial, you are going to learn how to implement these different Tree Traversal Algorithms in Java with recursion and without recursion. We are going to use a Stack of Node. We need to use an Iterative solution. Finally, Now, we visit the right subtree.It gives us the following implementation:You can discover the implementation and the execution of the Tree In Order Traversal Algorithm with Iterative solution in video on YouTube:Tree Post Order Traversal with RecursionWe implement the Tree Post Order Traversal Algorithm with Recursion. We want to traverse each node of the tree starting with Left node, continuing with Right Node and then displaying data for Root.So, we need to define a recursive postOrderTraverse method taking a Node in parameter and making the following operations:Calling postOrderTraverse for the left nodeCalling postOrderTraverse for the right nodeDisplaying dataIt gives us the following implementation:You can discover the implementation and the execution of the Tree Post Order Traversal Algorithm with Recursion in video on YouTube:Tree Post Order Traversal with Iterative solutionNow, things are getting a little more complicated as we will implement with a Tree Post Order Traversal Algorithm with an Iterative solution. A Node will have the following properties:data representing data of the nodeleft pointer pointing to the left noderight pointer pointing to the right nodeIt gives us the following Node class:For representing a Tree, we will just have to choose a Node instance as root of the tree. At each iteration, we pop an item from nodeStack1 and we push it to nodeStack2. We pop all nodes one by one and for each node, we make the following steps:Displaying dataPushing its right child in the StackPushing its left child in the StackIt gives us the following implementation:You can discover the implementation and the execution of the Tree Pre Order Traversal Algorithm with Iterative solution in video on YouTube:Tree In Order Traversal with RecursionWe implement the Tree In Order Traversal Algorithm with Recursion. So, we start by defining a Node class. For that, we will need a Stack of Node.First, we will push the Tree root in the Stack. We add the Tree root.Then, we iterate while Queue is not empty. We want to traverse each node of the tree by displaying data for Root, Left and Right node.So, we need to define a recursive preOrderTraverse method taking a Node in parameter and making the following operations:Displaying dataCalling preOrderTraverse for the left nodeCalling preOrderTraverse for the right nodeIt gives us the following implementation:You can discover the implementation and the execution of the Tree Pre Order Traversal Algorithm with Recursion in video on YouTube:Tree Pre Order Traversal with Iterative solutionNow, things are getting a little more complicated as we will implement with a Tree Pre Order Traversal Algorithm with an Iterative solution. See our Privacy Policy and User Agreement for details. The solution uses a Queue of Node. Then, we add children nodes if not null, left in first and right in second.It gives us the following implementation:You can discover the implementation and the execution of the Tree Level Order Traversal Algorithm in video on YouTube:ConclusionThis article will have allowed you to discover the main Algorithms for Tree Traversal with their implementation in Java. We want to traverse each node of the tree starting with Left node, displaying data for Root and finishing with Right node.So, we need to define a recursive inOrderTraverse method taking a Node in parameter and making the following operations:Calling inOrderTraverse for the left nodeDisplaying dataCalling inOrderTraverse for the right nodeIt gives us the following implementation:You can discover the implementation and the execution of the Tree In Order Traversal Algorithm with Recursion in video on YouTube:Tree In Order Traversal with Iterative solutionNow, things are getting a little more complicated as we will implement with a Tree In Order Traversal Algorithm with an Iterative solution. This algorithm is also known as Breadth-First Search. We dequeue a node and we print the data. But, you need to understand both solutions because implementing these algorithms are often asked in coding interviews.For our examples, we will use Java programming language but the logic would be the same for implementing in other languages like C++ or Python.Representing a TreeFirst step is to represent a Tree. We push the Tree root in the nodeStack1.We iterate while the first stack is not empty. See our User Agreement and Privacy Policy. So, we pop a Node from the Stack and we display its data. In our example: H I D J E B F K G C ALevel Order Traversal, also known as Breadth-first search. In Bitcoin We Trust: computer science, a Tree is a widely used abstract data type (ADT), or data structure implementing this ADT, that simulates a hierarchical tree structure, with a root value and subtrees of children with a parent node, represented as a set of linked nodes.A tree data structure can be defined recursively as a collection of nodes (starting at a root node), where each node is a data structure consisting of a value, together with a list of references to nodes (the "children"), with the constraints that no reference is duplicated, and none points to the root.Thanks to Wikipedia for that great definition of Tree data structure in computer science.Tree sampleTrees can be traversed in several ways:Pre Order Traversal: Root, Left, Right.In our example: A B D H I E L C F G KIn Order Traversal: Left, Root, Right. We start by creating two Stack of Node which will name nodeStack1 and nodeStack2. A Tree has nodes

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