1. **Data structure of the model**  
     
   The input (format of tree) may contain null values and cannot be represented perfectly using an array.   
   The input needs to be parsed to construct the tree before finding the lucky number.

Hence a linked list is used to create the binary tree by parsing the given input.

1. **Operations**  
   1. Construct tree  
      Description : The input is converted to a binary tree having a linked list as the data structure.  
        
      Time complexity : O(n)  
        
      Efficiency : The time complexity does not exceed the number of nodes to be added in the binary tree.
   2. Find lucky number path   
        
      Description : A recursive function to traverse the binary tree in a DFS fashion to find the lucky number path using a string path variable.  
        
      Time complexity : O(n+v)  
        
      Efficiency : The time complexity does not exceed the number of nodes and vertices of the binary tree.
2. **Alternate way of modeling the problem**

The problem can be modeled through an iterative method using stacks having a time complexity of O(n²).