Using an ArrayList of nodes to store the table

Using an Linked List to store the BinaryTree

1. Set up
   1. Read in the table file and store in the ArrayList “encodingTable”
      1. Iterate through the file, storing the next string and int in the next node
   2. Create the binary tree in the BinaryTree decodingTree
2. User input
   1. Set up a scanner cin
   2. Ask for either 1 for encode or 2 for decode
   3. If 1
      1. Ask for the text
      2. Save to string inputText
      3. Iterate through the chars in inputText, finding the corresponding binary code in encodingTable and concating to string outputText
      4. Output outputText
   4. If 2
      1. Ask for the text
      2. Save to string inputText
      3. Traverse through the tree, following the numbers in inputText. 0 means left, 1 means right.
      4. When a char is found, concate to the string outputText
      5. Repeat 3 and 4 until the string has been completely iterated through
      6. Output outputText
   5. Ask user if they would like to exit
      1. If 0, repeat a – e
      2. If 1, exit program