SC1007 Data Structures and Algorithms
Lab 8: Trie

Q1 Modify the _add_child() method in the Trie class so that it always inserts characters in an **alphabetical order**.

Q2 With the modified _add_child() method, implement a method to print all words stored in a trie in a lexicographical order.

def print_words_alphabetically(self):

For example, Insert: "banana", "apple", "bat", "ball", "band", "cat"
The results to print words in a lexicographical order:
    apple, ball, band, banana, bat, cat

Q3 Implement a method to print all words stored in a trie in a reverse lexicographical order.

def print_words_reverse_alphabetically(self):

For example, Insert: "banana", "apple", "bat", "ball", "band", "cat"
The results to print words in a revers lexicographical order:

    cat, bat, banana, band, ball, apple