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class Node:
    def __init__(self):
        self.children = {}
        self.is_end_of_word = False

class SuffixTree:
    def __init__(self):
        self.root = Node()

    def insert(self, word):
        node = self.root
        for char in word:
            if char not in node.children:
                 node.children[char] = Node()
            node = node.children[char]
        node.is_end_of_word = True

    def search(self, word):
        node = self.root
        for char in word:
            if char not in node.children:
                return False
            node = node.children[char]
        return node.is_end_of_word


# Example usage
suffix_tree = SuffixTree()
words = ["banana", "band", "bee", "absolute"]
for word in words:
    suffix_tree.insert(word)

search_word = "ban"
if suffix_tree.search(search_word):
    print(f"'{search_word}' found in the suffix tree.")
else:
     print(f"'{search_word}' not found in the suffix tree.")


      'ban' not found in the suffix tree.


Start coding or generate with AI.
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