Prompt Scratchpad Our Solution(s) Video Explanation Run Code

```
Solution 1
                            let nextNode = trieNode.children[letter] as! TrieNode
  40
  41
                            if nextNode.children.keys.contains("*") {
   42
                                    if let word = nextNode.children["*"] as? String {
  43
                                             finalWords[word] = true
   44
  45
   46
   47
                            let neighbors = getNeighbors(i, j, board: board)
  48
  49
                             for neighbor in neighbors \{
   50
                                    \verb|explore(neighbor[0], neighbor[1], board, nextNode, &visited, &finalWords)|\\
  51
   52
                            visited[i][j] = false
  53
  54
   55
  56
                    \label{func:continuous} \mbox{func getNeighbors}(\ \mbox{i: Int, } \ \mbox{j: Int, board: [[String]])} \ \mbox{-> [[Int]]} \ \{ \ \mbox{output}(\ \mbox{output}) \ \mbox{-> Int, board: [[String]])} \ \mbox{-> Int, board: [[String]]} \ \mbox{-> Int, board: [[Str
  57
                            var neighbors = [[Int]]()
   58
                            if i > 0, j > 0 {
  59
   60
                                    neighbors.append([i - 1, j - 1])
  61
  62
   63
                            if i > 0 {
  64
                                    neighbors.append([i - 1, j])
  65
   66
                            if i > 0, j < board[i].count - 1 {
  67
  68
                                    neighbors.append([i - 1, j + 1])
  69
   70
   71
                            if j < board[i].count - 1 {</pre>
   72
                                    neighbors.append([i, j + 1])
   73
   74
   75
                             \mbox{if $i$ < board.count - 1, $j$ < board[i].count - 1 }  \{ \\
                                    neighbors.append([i + 1, j + 1])
   76
   77
   78
   79
                            if i < board.count - 1 {</pre>
   80
                                    neighbors.append([i + 1, j])
  81
  83
                            84
                                    neighbors.append([i + 1, j - 1])
   85
  86
   87
                            if j > 0 {
  88
                                    neighbors.append([i, j - 1])
  89
   90
  91
                            return neighbors
  92
  93
  94
                    class TrieNode {
  95
                            var children: [String: Any] = [:]
  96
  97
  98
                    class Trie {
  99
                            var root: TrieNode
                            let endSymbol: String = "*"
 100
 101
 102
                            init() {
 103
                                    root = TrieNode()
104
105
 106
                            func add(_ word: String) {
107
                                  var current = root
108
 109
                                     for character in word {
110
                                             let stringifiedCharacter = String(character)
111
112
                                             if !current.children.keys.contains(stringifiedCharacter) {
113
                                                      current.children[stringifiedCharacter] = TrieNode()
114
115
                                             let nextNode = current.children[stringifiedCharacter] as! TrieNode
117
                                             current = nextNode
118
120
                                  current.children[endSymbol] = word
121
122
123 }
124
```