

Our Solution(s)	Run Code	Your Solutions	Run Code
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Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 using System;
4 using System.Collections.Generic;
5
6 public class Program {
7     // O(nm*8^s + ws) time | O(nm + ws) space
8     public static List<string> BoggleBoard(char[,] board, string[] words) {
9         Trie trie = new Trie();
10         foreach (string word in words) {
11             trie.Add(word);
12         }
13         HashSet<string> finalWords = new HashSet<string>();
14         bool[,] visited = new bool[board.GetLength(0), board.GetLength(1)];
15         for (int i = 0; i < board.GetLength(0); i++) {
16             for (int j = 0; j < board.GetLength(1); j++) {
17                 explore(i, j, board, trie.root, visited, finalWords);
18             }
19         }
20         List<string> finalWordsArray = new List<string>();
21         foreach (string key in finalWords) {
22             finalWordsArray.Add(key);
23         }
24         return finalWordsArray;
25     }
26
27     public static void explore(int i, int j, char[,] board, TrieNode tri:
28         HashSet<string> finalWords) {
29         if (visited[i, j]) {
30             return;
31         }
32         char letter = board[i, j];
33         if (!trieNode.children.ContainsKey(letter)) {
```

Solution 1   Solution 2   Solution 3

```
1 using System.Collections.Generic;
2
3 public class Program {
4     public static List<string> BoggleBoard(char[,] board, string[] words
5         // Write your code here.
6         return null;
7     }
8 }
9
```

Our Tests	Custom Output	Submit Code
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```
1 using System.Collections.Generic;
2
3 public class Program {
4     // Write your code here.
5 }
```

```
1 // Custom Output
2
3 // Submit Code
```

```

37 170, 180, 190, 200, 210,
38 220, 230, 240, 250, 260, 270,
39 280, 290, 300, 310, 320, 330,
40 340, 350, 360, 370, 380, 390,
41 400, 410, 420, 430, 440, 450,
42
43
44 string words =
45 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270,
46 280, 290, 300, 310, 320, 330, 340, 350, 360, 370,
47 380, 390, 400, 410, 420, 430, 440, 450,
48 string expected = 170, 180, 190, 200, 210, 220, 230, 240,
49 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350,
50 360, 370, 380, 390, 400, 410, 420, 430, 440, 450,
51 EXPECT string words == string expected;
52 EXPECT string words == string expected;

```

Run or submit code when you're ready.