Our Solution(s)   Run Code

Solution 1   Solution 2

```csharp
1   // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3   using System.Collections.Generic;
4
5   public class Program {
6     // O(n) time | O(n) space - where n is the total number of elements in the array
7     public static List<int> SpiralTraverse(int[,] array) {
8       if (array.Length == 0) return new List<int>();
9
10      var result = new List<int>();
11      spiralFill(array, 0, array.GetLength(0) - 1, 0, array.GetLength(1) - 1, result
12      return result;
13    }
14
15    public static void spiralFill(
16      int[,] array,
17      int startRow,
18      int endRow,
19      int startCol,
20      int endCol,
21      List<int> result) {
22      if (startRow > endRow || startCol > endCol) {
23        return;
24      }
25
26      for (int col = startCol; col <= endCol; col++) {
27        result.Add(array[startRow,col]);
28      }
29
30      for (int row = startRow + 1; row <= endRow; row++) {
31        result.Add(array[row,endCol]);
32      }
33
34      for (int col = endCol - 1; col >= startCol; col--) {
35        if (startRow == endRow) break;
36        result.Add(array[endRow,col]);
37      }
38
39      for (int row = endRow - 1; row >= startRow + 1; row--) {
40        if (startCol == endCol) break;
41        result.Add(array[row,startCol]);
42      }
43      spiralFill(array, startRow + 1, endRow - 1, startCol + 1, endCol - 1, result);
44    }
45  }
46
```

Your Solutions   Run Code

Solution 1   Solution 2   Solution 3

```csharp
1   using System.Collections.Generic;
2
3   public class Program {
4     public static List<int> SpiralTraverse(int[,] array) {
5       // Write your code here.
6       return new List<int>();
7     }
8   }
9
```

Custom Output   Raw Output   Submit Code

Run or submit code when you're ready.