

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 import java.util.*;
4
5 // O(n) time | O(n) space - where n is the total number of elements in the array
6 class Program {
7     public static List<Integer> zigzagTraverse(List<List<Integer>> array) {
8         int height = array.size() - 1;
9         int width = array.get(0).size() - 1;
10        List<Integer> result = new ArrayList<Integer>();
11        int row = 0;
12        int col = 0;
13        boolean goingDown = true;
14        while (!isOutOfBounds(row, col, height, width)) {
15            result.add(array.get(row).get(col));
16            if (goingDown) {
17                if (col == 0 || row == height) {
18                    goingDown = false;
19                }
20                if (row == height) {
21                    col++;
22                } else {
23                    row++;
24                }
25            } else {
26                row++;
27                col--;
28            }
29        } else {
30            if (row == 0 || col == width) {
31                goingDown = true;
32            }
33            if (col == width) {
34                row++;
35            } else {
36                col++;
37            }
38        }
39    }
40
41    private static boolean isOutOfBounds(int row, int col, int height, int width) {
42        return row < 0 || row > height || col < 0 || col > width;
43    }
44}
```

Solution 1 Solution 2 Solution 3

```
1 import java.util.*;
2
3 class Program {
4     public static List<Integer> zigzagTraverse(List<List<Integer>> array) {
5         // Write your code here.
6         return null;
7     }
8 }
9
```

Our Tests

Custom Output

Submit Code

```
1 import java.util.*;
2
3 class Program {
4     public static List<Integer> zigzagTraverse(List<List<Integer>> array) {
5         // Write your code here.
6         return null;
7     }
8 }
9
```

```
1 import java.util.*;
2
3 class Program {
4     public static List<Integer> zigzagTraverse(List<List<Integer>> array) {
5         // Write your code here.
6         return null;
7     }
8 }
9
```

```

10  while secret != testFlag:ok = input("Enter secret: ")
11  }
12
13  #Test
14  print testFlag
15  test = input("Enter secret: ")
16  test = input("Enter secret: ")
17  test = input("Enter secret: ")
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97  test = input("Enter secret: ")
98  test = input("Enter secret: ")
99  test = input("Enter secret: ")
100 test = input("Enter secret: ")

```

Run or submit code when you're ready.