

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 #include <vector>
4 using namespace std;
5
6 // O(n) time | O(1) space
7 vector<int> searchInSortedMatrix(vector<vector<int>> matrix, int target) {
8     int row = 0;
9     int col = matrix[0].size() - 1;
10    while (row < matrix.size() && col >= 0) {
11        if (matrix[row][col] > target) {
12            col--;
13        } else if (matrix[row][col] < target) {
14            row++;
15        } else {
16            return {row, col};
17        }
18    }
19    return {-1, -1};
20 }
21
```

Solution 1Solution 2Solution 3

```
1 #include <vector>
2 using namespace std;
3
4 vector<int> searchInSortedMatrix(vector<vector<int>> matrix, int target) {
5     // Write your code here.
6     return {};
7 }
8
```

**Run or submit code when you're ready.**