

## **Shortest Bridge**

Question 46 of 1025



**Problem** 







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Given a two-dimensional list of integers matrix containing 0 s and 1 s, 0 represents water and 1 represents land.

An island is a group of connecting 1 s in 4 directions that are either surrounded by 0 s or by the edges. Find the shortest bridge that connects two islands.

It is guaranteed that there are two and only two islands.

#### **Constraints**

•  $n, m \le 250$  where n and m are the number of rows and columns in matrix

## Example 1 💿

### Input

```
matrix = [
    [0, 1],
    [1, 0]
]
```

### **Output**

1

### **Explanation**

Either of the two water elements can be used as the bridge.

# Example 2

## Input

```
matrix = [
    [1, 0, 0],
    [0, 0, 0],
    [0, 0, 1]
]
```

```
Lachezar
```

```
import java.util.*;
2
3 class Solution {
      public int solve(int[][] matrix) {
5
6
      }
7 }
```

# Output

3

# Explanation

