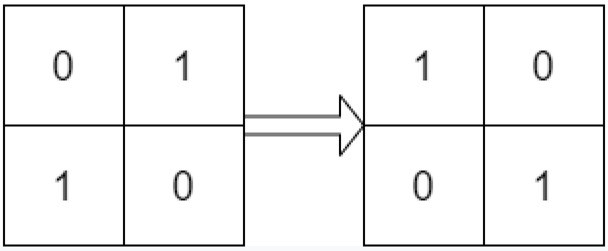
PROBLEM-1

Determine Whether Matrix Can Be Obtained By Rotation

Given two `n x n` binary matrices `mat` and `target`, return `true` *if it is possible to make* `mat` *equal to* `target` *by **rotating*** `mat` *in **90-degree increments**, or* `false` *otherwise.*

Example 1:

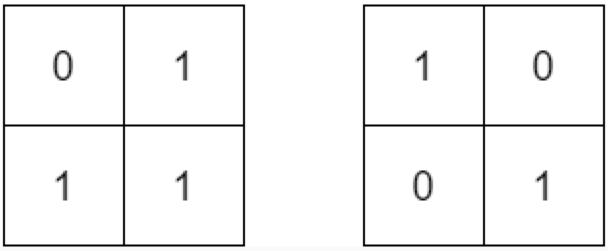


Input: mat = [[0,1],[1,0]], target = [[1,0],[0,1]]

Output: true

Explanation: We can rotate mat 90 degrees clockwise to make mat equal target.

Example 2:

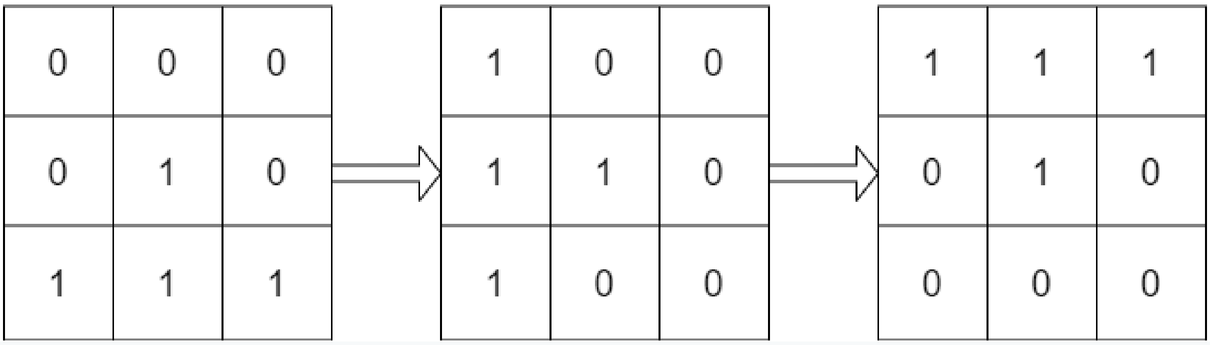


Input: mat = [[0,1],[1,1]], target = [[1,0],[0,1]]

Output: false

Explanation: It is impossible to make mat equal to target by rotating mat.

Example 3:



Input: mat = [[0,0,0],[0,1,0],[1,1,1]], target = [[1,1,1],[0,1,0],[0,0,0]]

Output: true

Explanation: We can rotate mat 90 degrees clockwise two times to make mat equal target.

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Constraints:

- `n == mat.length == target.length`
- `n == mat[i].length == target[i].length`
- `1 <= n <= 10`
- `mat[i][j]` and `target[i][j]` are either `0` or `1`.

Solution

```
class Solution {

    public boolean findRotation(int[][] mat, int[][] target) {

        for (int i = 0; i < 4; i++) {

           if (Arrays.deepEquals(mat, target)) {

              return true;

           }

           rotate(mat);

        }

        return false;

    }



    private void rotate(int[][] mat) {

       int m = mat.length;

       for (int i = 0; i < m; i++) {

          for (int j = i; j < m; j++) {

             int temp = mat[i][j];

             mat[i][j] = mat[j][i];

             mat[j][i] = temp;

          }
```

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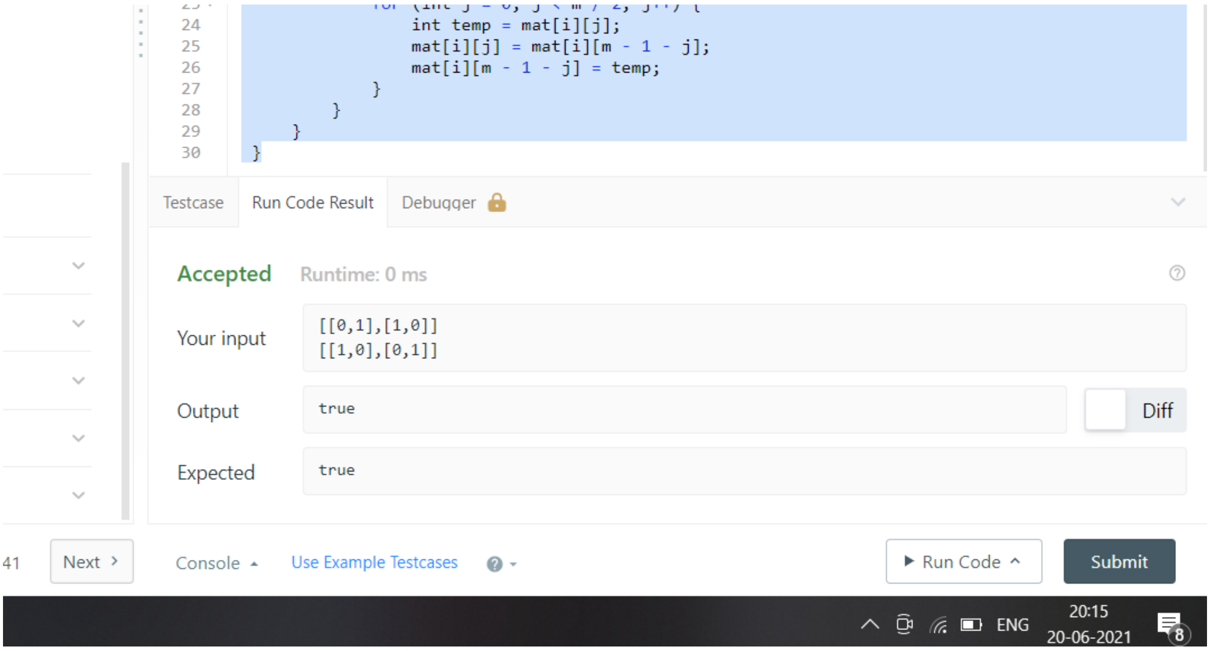
```
    }

    for (int i = 0; i < m; i++) {
      for (int j = 0; j < m / 2; j++) {
        int temp = mat[i][j];
        mat[i][j] = mat[i][m - 1 - j];
        mat[i][m - 1 - j] = temp;
      }
    }
  }
}
```

OUTPUT



```
            for (int j = 0; j < m / 2; j++) {
                int temp = mat[i][j];
                mat[i][j] = mat[i][m - 1 - j];
                mat[i][m - 1 - j] = temp;
            }
        }
    }
}
```

Accepted Runtime: 0 ms

Your input
```
[[0,1],[1,0]]
[[1,0],[0,1]]
```

Output
```
true
```

Expected
```
true
```