

Set Matrix Zeroes

(leet code problem 1)

-Tanisha Gotadke (1BM21CS229)

```
void setZeroes(int** matrix, int matrixSize, int* matrixColSize) {
    int m = matrixSize;
    int n = *matrixColSize;
    int firstRowZero = 0;
    int firstColZero = 0;

    // Check if the first row has any zeros
    for (int j = 0; j < n; j++) {
        if (matrix[0][j] == 0) {
            firstRowZero = 1;
            break;
        }
    }

    // Check if the first column has any zeros
    for (int i = 0; i < m; i++) {
        if (matrix[i][0] == 0) {
            firstColZero = 1;
            break;
        }
    }

    // Use the first row and column as markers to store zero information
    for (int i = 1; i < m; i++) {
        for (int j = 1; j < n; j++) {
            if (matrix[i][j] == 0) {
                matrix[i][0] = 0;
                matrix[0][j] = 0;
            }
        }
    }

    // Set rows to zero except for the first row
    for (int i = 1; i < m; i++) {
        if (matrix[i][0] == 0) {
            for (int j = 1; j < n; j++) {
                matrix[i][j] = 0;
            }
        }
    }
}
```

```

        // Set columns to zero except for the first column
        for (int j = 1; j < n; j++) {
            if (matrix[0][j] == 0) {
                for (int i = 1; i < m; i++) {
                    matrix[i][j] = 0;
                }
            }
        }

        // Set the first row to zero if necessary
        if (firstRowZero) {
            for (int j = 0; j < n; j++) {
                matrix[0][j] = 0;
            }
        }

        // Set the first column to zero if necessary
        if (firstColZero) {
            for (int i = 0; i < m; i++) {
                matrix[i][0] = 0;
            }
        }
    }
}

```

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a few seconds ago C

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Runtime: 55 ms
Beats: 98.42%
Memory: 11.2 MB
Beats: 11.52%

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```

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    int m = matrixSize;
    int n = *matrixColSize;

    int firstRowZero = 0;
    int firstColZero = 0;

    // Check if the first row has any zeros
    for (int j = 0; j < n; j++) {
        if (matrix[0][j] == 0) {

```

Console Run Submit

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