

# Problem 861: Score After Flipping Matrix

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 80.25%

**Paid Only:** No

**Tags:** Array, Greedy, Bit Manipulation, Matrix

## Problem Description

You are given an `m x n` binary matrix `grid`.

A \*\*move\*\* consists of choosing any row or column and toggling each value in that row or column (i.e., changing all `0`'s to `1`'s, and all `1`'s to `0`'s).

Every row of the matrix is interpreted as a binary number, and the \*\*score\*\* of the matrix is the sum of these numbers.

Return \_the highest possible\*\*score\*\* after making any number of \*\*moves\*\* (including zero moves)\_.

**Example 1:**



**Input:** grid = [[0,0,1,1],[1,0,1,0],[1,1,0,0]] **Output:** 39 **Explanation:** 0b1111 + 0b1001 + 0b1111 = 15 + 9 + 15 = 39

**Example 2:**

**Input:** grid = [[0]] **Output:** 1

**Constraints:**

\* `m == grid.length` \* `n == grid[i].length` \* `1 <= m, n <= 20` \* `grid[i][j]` is either `0` or `1`.

## Code Snippets

### C++:

```
class Solution {  
public:  
    int matrixScore(vector<vector<int>>& grid) {  
  
    }  
};
```

### Java:

```
class Solution {  
public int matrixScore(int[][] grid) {  
  
}  
}
```

### Python3:

```
class Solution:  
    def matrixScore(self, grid: List[List[int]]) -> int:
```