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(2) Count islands of 1's in a given 2D matrix.

```
int countIslands(int[][] m) {  
    int count = 0;  
    for(int i=0; i<m.length; i++){  
        for(int j=0; j<m[0].length; j++){  
            if(m[i][j] == 1) { // found 1, now explore the island.  
                dfs(m, i, j)  
                count++;  
            }  
        }  
    }  
    return count;  
}
```