```
class Solution {
   public int numIslands(char[][] grid) {
      if (grid == null || grid.length == 0 || grid[0].length == 0)
         return 0;
      int cnt = 0;
     for (int i = 0; i < grid.length; i++) {
         for (int j = 0; j < grid[0].length; j++) {
            if (grid[i][j] == '1') {
               cnt++;
               helper(grid, i, j);
            }
         }
      return cnt;
   }
  public void helper(char[][] grid, int r, int c) {
     if (r < 0 \parallel r) = grid.length \parallel c < 0 \parallel c) = grid[0].length \parallel grid[r][c] == '0'
         return;
      grid[r][c] = '0';
      helper(grid, r, c-1);
      helper(grid, r, c+1);
      helper(grid, r+1, c);
      helper(grid, r-1, c);
}
```