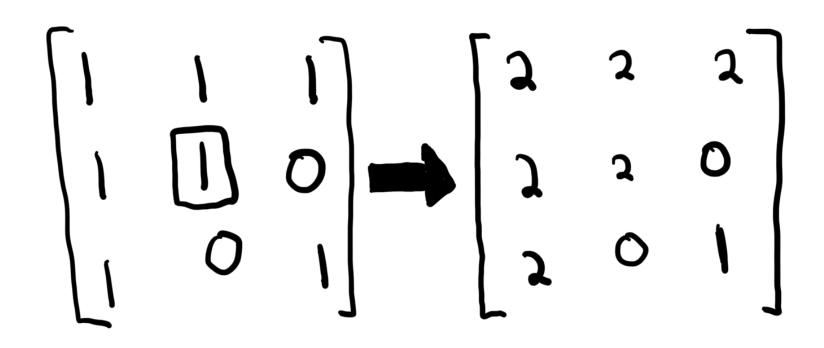
733. Flood Fill

Given: Mxn grid-image
image [i][j] represents
the pixel at that point

Sr- Starting row Sc- Starting column New Color

Perform a flood fill starty from (Sr, Sc)

flood fill: consider the start pixel t any 4 directionally connected Pixels of the same color, t any 4 directionally connected to those. Replace the color of said pixels W/ New Color.



Solution 1: Greadth-First Search

· add (sr, sc) to queue

Time: O(M=N) le queue is not empty:

Time: O(MXN) - Change color of cell

Space: O(MXN) - add neighbors of interest

· return the image

Solution 2: depth-first Search

· Call dfs(sr, sc)

Time: O(M xN) - base case: 00B or Wrong color

Space: O(MXN) - else:

· paint (rov. roll

· call dfs for all neighbors

· Peturn the image

NOTE: no visited recoired Since we are mulating cells as we visit them.