2.5

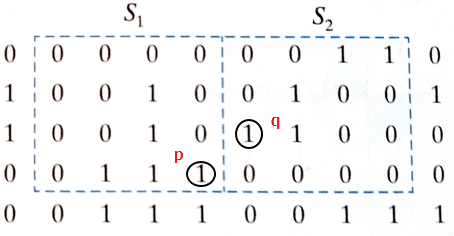
2.10

One solution to this project is to have 3 monochromic cameras which only covered one of blue, green, red filters on each lens. Theses 3 cameras should just focus on part of vehicle that presents single color to avoid noise. The vehicle color can be recognized by the strongest response of the camera, e.g. when the green vehicle passed the camera area, camera with green filter can receive light while other two is black. When three cameras all receive light then the vehicle is white.

2.16

S1 and S2 is 8-adjacent and m-adjacent.

1. P is not in , vise versa, S1 and S2 is not 4-adjacent
2. P is in , vise versa, S1 and S2 is 8-adjacent.
3. P is in , vise versa; and , S1 and S2 are m-adjacent.



2.23

For elementwise products image f and image g should have identical orientations, e.g. they should all be row vector or column vector.

For matrix products image f and image g should be different orientation, one should be row vector the other should be column vector.

2.39

For Translation

For vertical shear:

For horizontal shear: