NOTE: This file is for reference only. It is NOT intended as a sample of what a solution / published PDF should look like.

If you run each step of the assignment on the "test" matrix (instead of map), you should get the following results:

%% Part 2: Finding pits & peaks

% Pits and peaks are not output as part of the assignment;

% they are just included here for reference.

pits =

    6   3

    3   6

    6   6

peaks =

    5   5

    8   5

% The order of the rows of pits and peaks doesn't matter, as long as you find the correct points.

% For example, peaks could be either [5,5;8,5] or [8,5;5,5]. Both are equally valid,

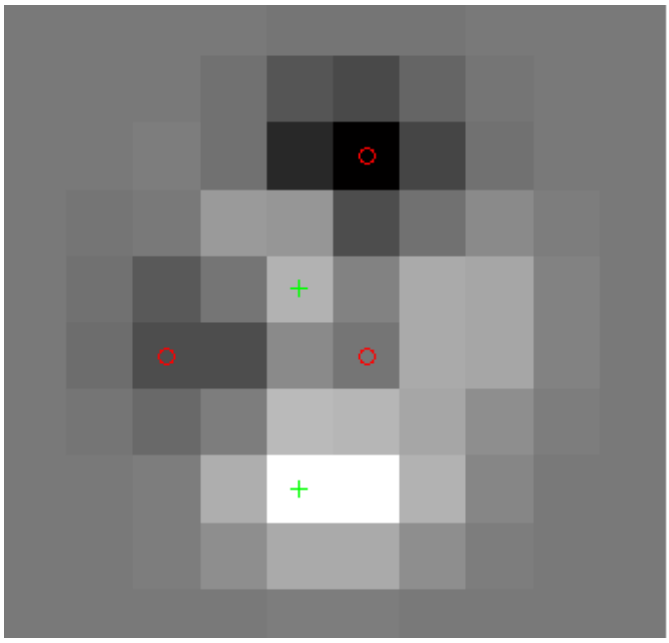
% but there must be exactly one row that is [5,5], and exactly one row that is [8,5], and no more.

% The following graphs and values are output:

Number of pits: 3

Number of peaks: 2

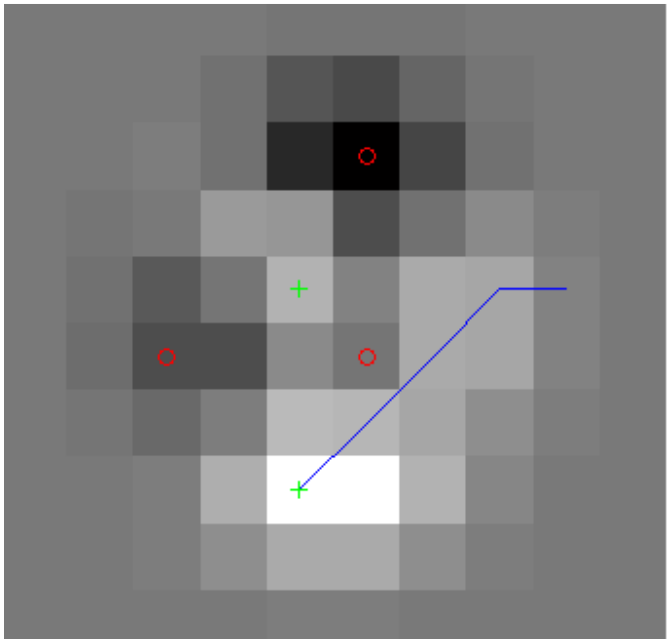
% Graph of pits and peaks:



%% Part 3: Path to high ground

% I left the pits & peaks up for reference.

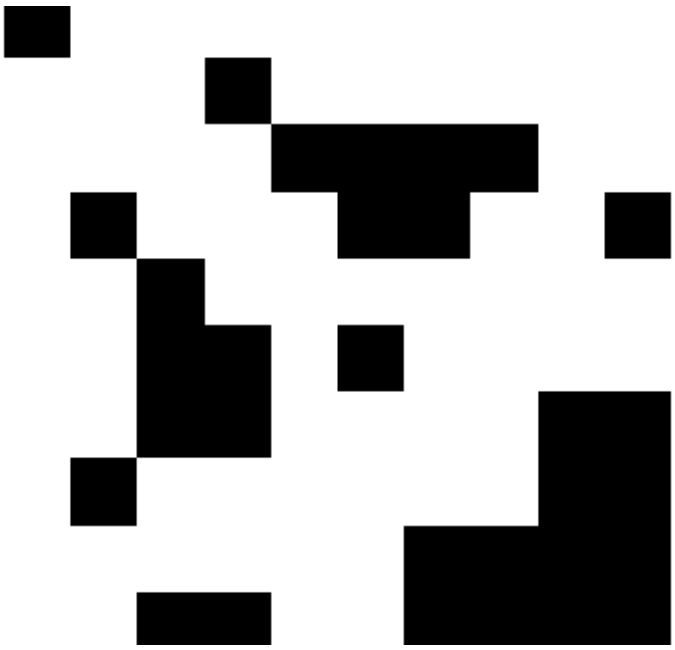
% You don't have to leave pits & peaks up in the actual assignment.



%% Part 4: Rivers

% Rivers with threshold 2:

% rivers = flow(test); imagesc(rivers < 2); axis equal; colormap gray;



% Rivers with threshold 3:

% rivers = flow(test); imagesc(rivers < 3); axis equal; colormap gray;