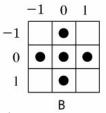
Homework 9 (Due: 5/16)

(A) Implement the Lantuejoul's skeletonization

method using the structuring element $B: \begin{bmatrix} -1 \\ 0 \end{bmatrix}$



Apply the method to the following input image

Input image



Experimental results





Lantuejoul's method

Erosions	Openings	Differences
A	$A \circ B$	$A - (A \circ B)$
$A\Theta B$	$(A\Theta B)$ o B	$(A\Theta B) - ((A\Theta B) \circ B)$
$A\Theta 2B$	$(A\Theta 2B)$ o B	$(A\Theta 2B) - ((A\Theta 2B) \circ B)$
$A\Theta 3B$	$(A\Theta 3B)$ o B	$(A\Theta 3B) - ((A\Theta 3B) \circ B)$
M	M	M
$A\Theta kB$	$(A\Theta kB)$ o B	$(A\Theta kB) - ((A\Theta kB) \circ B)$
Until $(A\Theta kB)$ o $B = \phi$		
Skeleton = U(Differences)		

- (B) 每人交一份 Presentation report
 - (a) PDF file of the selected paper
 - (b) Contents of the paper report, including
 - (i) Journal, Conference, Year
 - (ii) Brief review (techniques, applications)
 - (iii) Comments
 - (c) Word format of the report:
 - (i) Number of pages <= 3;
 - (ii) Word size = 14, Line interval = 1.5;
 - (iii) Chinese (細明體);

English (Times New Roman).