Homework 9 (Due: 5/16)

(A) Implement the Lantuejoul's skeletonization

method using the structuring element B:

Apply the method to the following input image

Input image   Experimental results

○ Lantuejoul's method

Erosions	Openings	Differences
A	$A \circ B$	$A - (A \circ B)$
$A \ominus B$	$(A \ominus B) \circ B$	$(A \ominus B) - ((A \ominus B) \circ B)$
$A \ominus 2B$	$(A \ominus 2B) \circ B$	$(A \ominus 2B) - ((A \ominus 2B) \circ B)$
$A \ominus 3B$	$(A \ominus 3B) \circ B$	$(A \ominus 3B) - ((A \ominus 3B) \circ B)$
M	M	M
$A \ominus kB$	$(A \ominus kB) \circ B$	$(A \ominus kB) - ((A \ominus kB) \circ B)$

Until $(A \ominus kB) \circ B = \phi$

Skeleton $= \cup(\text{Differences})$

(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).