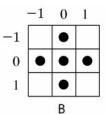
Homework 9 (Due: 5/16)

(A) Implement the Lantuejoul's skeletonization

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



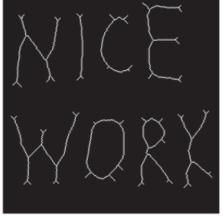
Apply the method to the following input image

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)		