

## Homework 1

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Both parts are done by program written in python. Image is read by opencv.

(a), (b), (c), and (f) is done by looping through each pixel and putting it to desired position or changing it to desired value.

(d) is done by calling two functions, `getRotationMatrix2D()` and `warpAffine()`, of opencv

(e) is done by calling `resize` of opencv.

(a) Upside-down



(b) Right-side-left



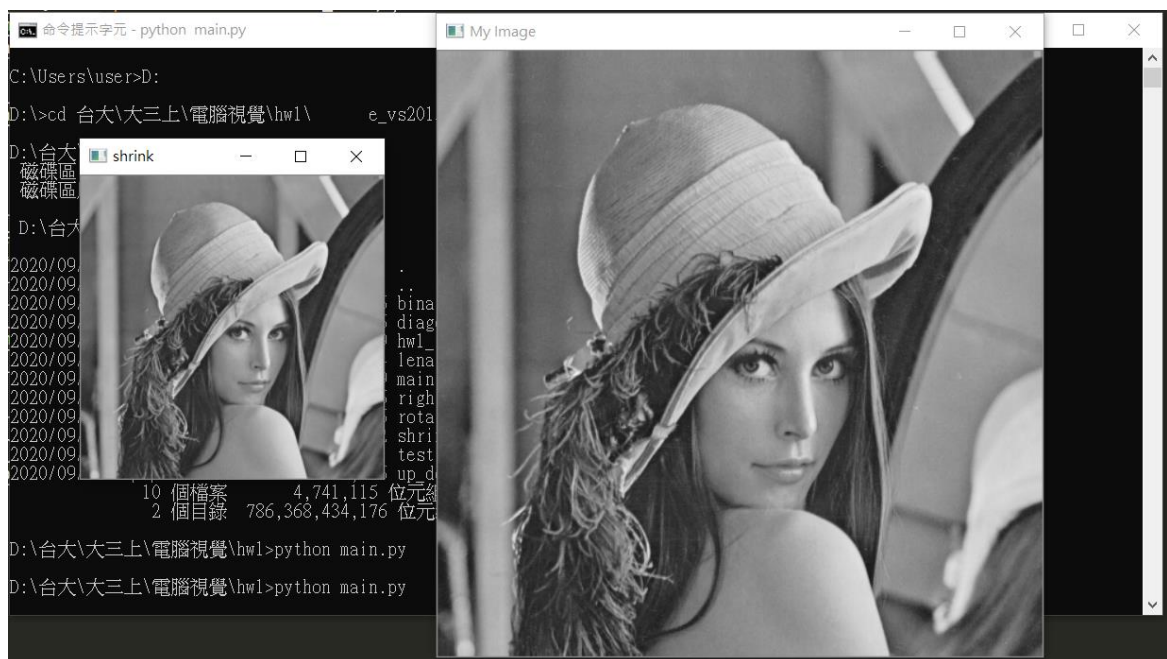
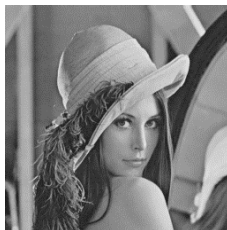
(c) Diagonally flip



(d) Rotate 45 degrees clockwise



(e) Shrink in half



(f) Binarize at 128

