FL#1
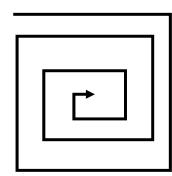
1. Convert RGB color image to gray.

    A.   Y = 0.3R + 0.5G + 0.2B

2. Change the input image intensity.

    A.   Input : image, offset

    B.   Output : image

3. Generate the video by cropping 128x128 block from 512x512 image using the following order.

    (512x512 크기의 입력 영상을 128x128 크기로 나선 스캔하여 동영상으로 만들기)

    A.   From (0,0), scan rightward.

    B.   When it reaches the end, then scan downward.

    C.   When it reaches the end, then scan leftward.

    D.   Input : 512x512 image

    E.   Output : 128x128 video

4. Find the histogram for given input gray image.

    A.   Input : image, number of bins (N)

    B.   Output : histogram (Nx1 vector)

5. Binarize the input image using Otsu method

    A.   Input : image

    B.   Output : binarized image