```
import numpy as np
# 과제 2 번의 histogram equalization 함수
def histogram equalization(img):
def histogram equalization color(img):
   # Yi에 histogram equalization 적용
         # 결과 pixel 값이 255를 초과하는 경우 255로 pixel 값 설정
```

```
out_pixel_B = 255
if out_pixel_G > 255:
    out_pixel_R = 255
if out pixel_R > 255:
    out_pixel_R = 255

#결과 pixel 값 각 channel 별로 저장

B[y, x] = out_pixel_B
    G[y, x] = out_pixel_G
    R[y, x] = out_pixel_R

# img 재결합
img = cv2.merge([B, G, R])
return img

in_image = cv2.imread('dgu_night_color.png', 1) # img2numpy
out_image = histogram_equalization_color(in_image)
cv2.imshow('dgu_night_in', in_image)
cv2.imshow('dgu_night_out', out_image)
cv2.waitKey()
```

