CV HW3

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Usage:
python3 main.py
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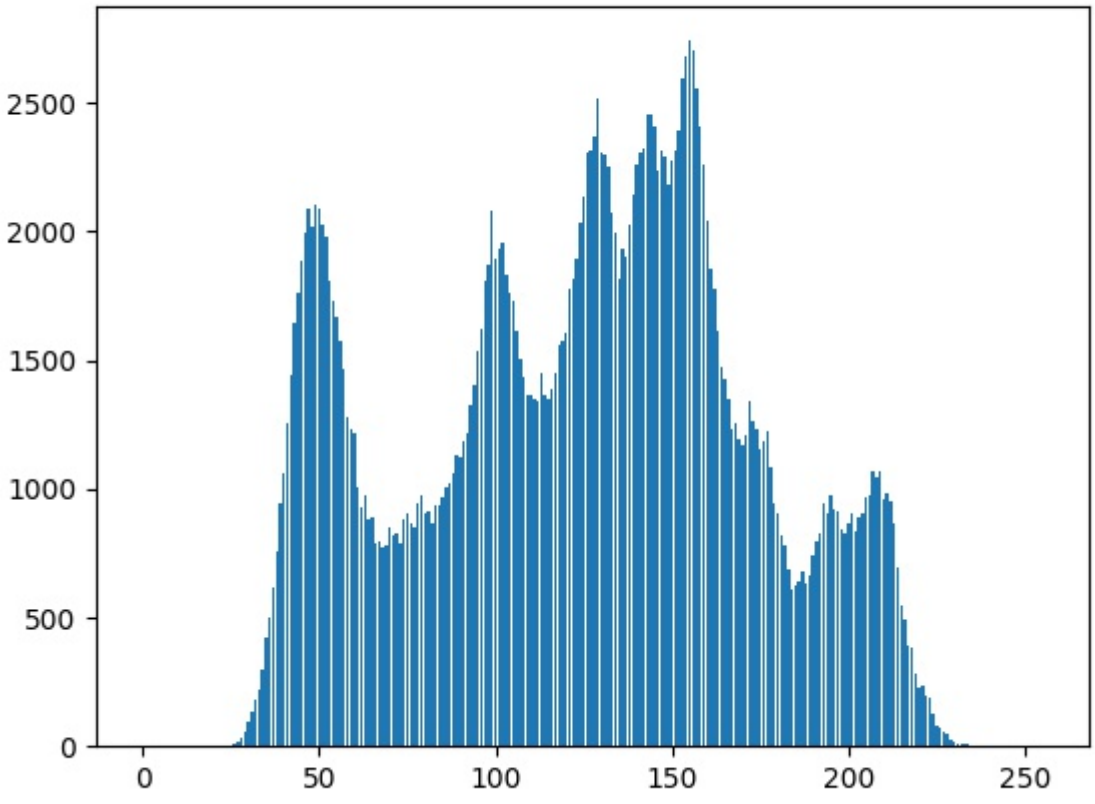
(a) original image and its histogram

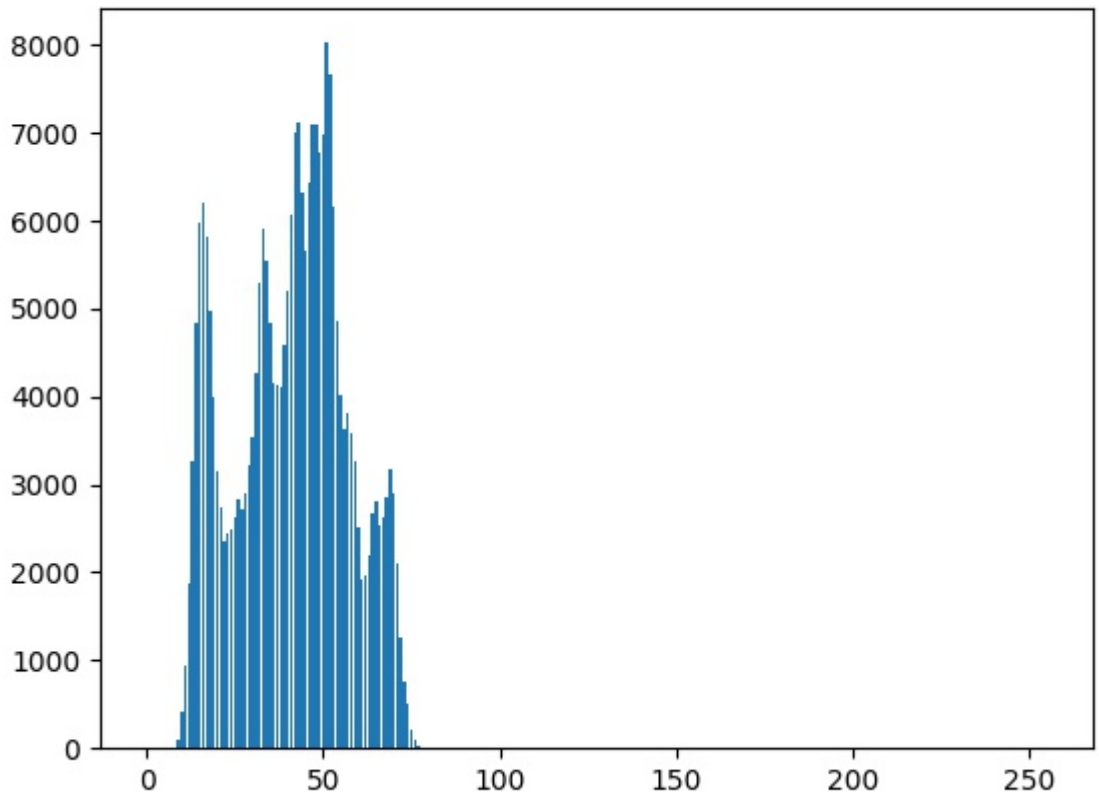
做法:
建立一個長度256的陣列Y，去儲存影像中每個像素的intensity次數，並用matplotlib.pyplot做histogram



(b) image with intensity divided by 3 and its histogram

做法:

把每個像素的intensity除以3然後用長度為256的陣列Y儲存次數，最後做histogram

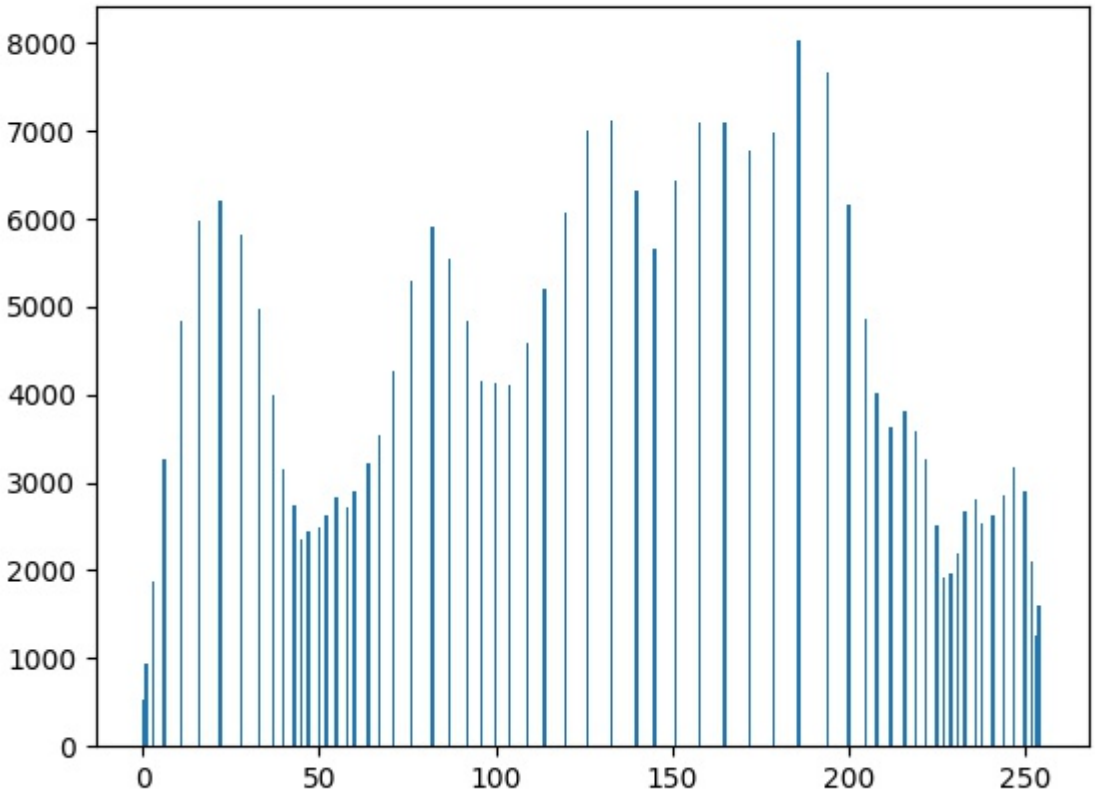


(c) image after applying histogram equalization to (b) and its histogram

做法:
利用histogram equalization的公式

$$s_k = 255 \sum_{j=0}^{k} \frac{n_j}{n}$$

把(b)的histogram轉換成新的分佈，然後按照新的分佈去更新影像，再計算更新後影像像素的intensity次數


8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250