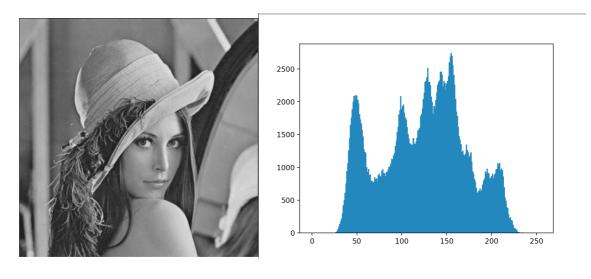
(a) Original image and its histogram

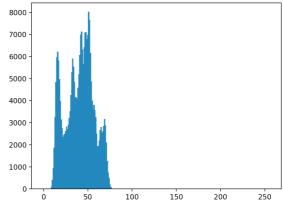
```
def make_histogram(img):
    res = np.zeros(256)
    for i in range(img.shape[0]):
        for j in range(img.shape[1]):
            res[int(img[i][j])] += 1
    plt.bar(range(len(res)), res, width = 2)
    plt.show()
```



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

```
img2 = img1 / 3
cv2.imwrite('devided_by_3.bmp', img2)
make_histogram(img2)
```





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



