In [1]: ▶

```
import cv2
import numpy as np
from matplotlib import pyplot as plt
```

```
In [2]:
```

```
hist1 = [[9.]

[3.]

[2.]

[2.]]

hist2 = [[4.]

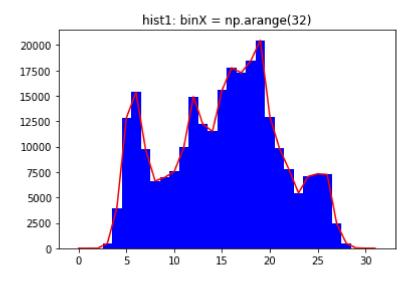
[5.]

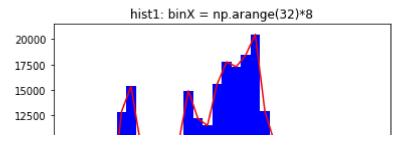
[0.]

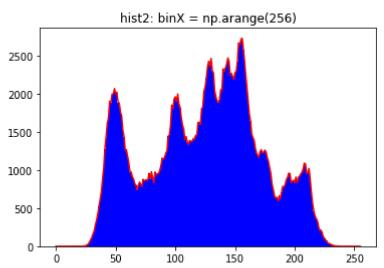
[3.]]
```

In [3]:

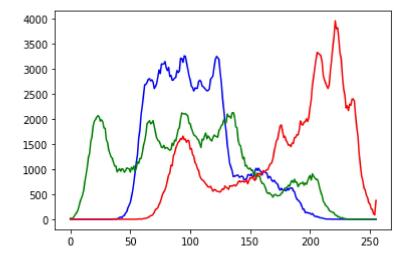
```
src = cv2.imread('./data/lena.jpg', cv2.IMREAD_GRAYSCALE)
hist1 = cv2.calcHist(images=[src], channels=[0], mask=None,
                     histSize=[32], ranges=[0, 256])
hist2 = cv2.calcHist(images=[src], channels=[0], mask=None,
                     histSize=[256], ranges=[0, 256])
#1
hist1 = hist1.flatten()
hist2 = hist2.flatten()
plt.title('hist1: binX = np.arange(32)')
plt.plot(hist1, color='r')
binX = np.arange(32)
plt.bar(binX, hist1, width=1, color='b')
plt.show()
#3
plt.title('hist1: binX = np.arange(32)*8')
binX = np.arange(32)*8
plt.plot(binX, hist1, color='r')
plt.bar(binX, hist1, width=8, color='b')
plt.show()
plt.title('hist2: binX = np.arange(256)')
plt.plot(hist2, color='r')
binX = np.arange(256)
plt.bar(binX, hist2, width=1, color='b')
plt.show()
```







In [4]:



In []: ▶