In [1]:

```
import cv2
import numpy as np
import imutils
```

In [2]:

```
src = cv2.imread('./data/lena.jpg', cv2.IMREAD_GRAYSCALE)

edges1 = cv2.Canny(src, 50, 100)
edges2 = cv2.Canny(src, 50, 200)

cv2.imshow('src',  src)
cv2.imshow('edges1',  edges1)
cv2.imshow('edges2',  edges2)
cv2.waitKey()
cv2.destroyAllWindows()
```

In [4]:

```
gray = cv2.imread('./data/coins.png', cv2.IMREAD_GRAYSCALE)
blurred = cv2.GaussianBlur(gray, (5, 5), 0)

wide = cv2.Canny(blurred, 10, 200)
mid = cv2.Canny(blurred, 30, 150)
tight = cv2.Canny(blurred, 240, 250)

cv2.imshow("Original", gray)
cv2.imshow("Blurred", blurred)
cv2.imshow("Wide Edge Map", wide)
cv2.imshow("Mid Edge Map", mid)
cv2.imshow("Tight Edge Map", tight)
cv2.waitKey()
cv2.destroyAllWindows()
```

In [6]:

```
gray = cv2.imread('./data/teacup.jpg', cv2.IMREAD_GRAYSCALE)
blurred = cv2.GaussianBlur(gray, (3, 3), 0)

wide = cv2.Canny(blurred, 10, 200)
tight = cv2.Canny(blurred, 225, 250)
auto = imutils.auto_canny(blurred)

# show the images
cv2.imshow("Original", gray)
cv2.imshow("Wide", wide)
cv2.imshow("Tight", tight)
cv2.imshow("Auto", auto)
cv2.waitKey()
cv2.destroyAllWindows()
```

In [ ]:

```

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