In [2]:

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

In [3]:

```
src = cv2.imread('./data/heart10.jpg', cv2.IMREAD_GRAYSCALE)
ret, dst = cv2.threshold(src, 120, 255, cv2.THRESH_BINARY)
print('ret=', ret)

cv2.imshow('src',  src)
cv2.imshow('dst',  dst)
cv2.waitKey()
cv2.destroyAllWindows()
```

```
ret= 120.0
```

In [5]:

```
ret, dst = cv2.threshold(src, 120, 255, cv2.THRESH_BINARY)
ret2, dst2 = cv2.threshold(src, 200, 255, cv2.THRESH_BINARY+cv2.THRESH_OTSU)
print('threshold=', ret2)
cv2.imshow('dst',  dst)
cv2.imshow('dst2',  dst2)
cv2.waitKey()
cv2.destroyAllWindows()
```

```
threshold= 175.0
```

In [ ]:

```
src2 = cv2.imread('./data/srcThreshold.png', cv2.IMREAD_GRAYSCALE)
ret, dst3 = cv2.threshold(src2, 128, 255, cv2.THRESH_BINARY)
ret4, dst4 = cv2.threshold(src2, 0, 255, cv2.THRESH_BINARY+cv2.THRESH_OTSU)
print('threshold=', ret4)

dst5 = cv2.adaptiveThreshold(src2, 255, cv2.ADAPTIVE_THRESH_MEAN_C, cv2.THRESH_BINARY, 51, 7)
dst6 = cv2.adaptiveThreshold(src2, 255, cv2.ADAPTIVE_THRESH_GAUSSIAN_C, cv2.THRESH_BINARY, 51, 7)

cv2.imshow('src2',  src2)
cv2.imshow('dst3',  dst3)
cv2.imshow('dst4',  dst4)
cv2.imshow('dst5',  dst5)
cv2.imshow('dst6',  dst6)
cv2.waitKey()
cv2.destroyAllWindows()
```

```
threshold= 149.0
```

In [ ]:

```

```