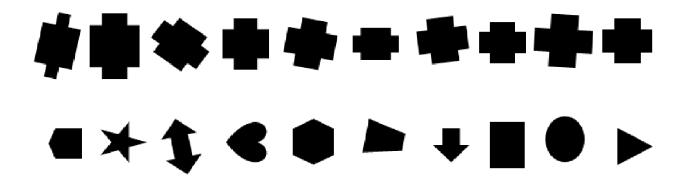
Lab 9

Matching

```
BW = rgb2gray(imread("creus_no_creus (1).png"));
imshow(BW);
```



```
BW = BW < 200;
BWU = BW; BWU(end/2:end, :) = 0;
BWD = BW; BWD(1:end/2, :) = 0;

CCU = bwconncomp(BWU);
CCD = bwconncomp(BWD);

propsU = regionprops('table', CCU, 'Centroid', 'BoundingBox', 'Perimeter', 'Circularity', 'Sol: propsD = regionprops('table', CCD, 'Centroid', 'BoundingBox', 'Perimeter', 'Circularity', 'Sol: NumObj = CCD.NumObjects</pre>
NumObj = 10
```

FU = [propsU.Perimeter ./ propsU.MinFeretDiameter, propsU.Circularity, propsU.Solidity, propsU
FD = [propsD.Perimeter ./ propsD.MinFeretDiameter, propsD.Circularity, propsD.Solidity, propsD
Features = [FU ; FD];
Output = false([2*NumObj, 1]);
Output(1:NumObj) = true;
out = trainedModel.predictFcn(Features)

```
out = 20×1 logical array
    1
    1
    1
    1
```