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Data Mining HW 8  
Spectral Clustering

I chose the spread of 1000 after running the program 20 times each with different spread values using ratio cut.

```
w/ spread: 1000  
  
F measure score: 0.36236726535117025  
Cluster 0 size: 271  
Cluster 1 size: 205  
Cluster 2 size: 373  
Cluster 3 size: 151
```

Asymmetric

```
w/ spread: 1000  
  
F measure score: 0.37445997604382564  
Cluster 0 size: 247  
Cluster 1 size: 302  
Cluster 2 size: 252  
Cluster 3 size: 199
```

Symmetric

```
w/ spread: 1000  
  
F measure score: 0.37474275100123877  
Cluster 0 size: 206  
Cluster 1 size: 246  
Cluster 2 size: 310  
Cluster 3 size: 238
```

