NOTE: Both iris-slwc.txt and iris-PC.txt were retrieved from http://www.cs.rpi.edu/~zaki/www-new/uploads/Dmcourse/Assign3/ and reshaped to be comma-delimited with 1/-1 as the class labels.

Each support vector is listed with the item number, x values, y classes, and respective alphas.

```
1) Iris-SLWC with linear kernel
[yx5@pegasus hw5]$ ./assign5.py -i inputs/iris-slwc.txt -k linear | tee out/iris-slwc_linear.out
       x:[ 4.9 2.5]
                               a:9.17846165748
                       y:1
       x:[ 5.4 3.4]
55
                       y:-1
                               a:2.26408152452
       x:[ 5.4 3. ]
66
                       y:1
                               a:10.0
       x:[ 4.9 3. ]
                               a:10.0
107
                       y:-1
109
       x:[ 4.5 2.3]
                       y:-1
                               a:10.0
       x:[ 5. 3.]
122
                       y:-1
                               a:10.0
138
       x:[ 6. 3.4]
                       y:1
                               a:10.0
Iterations: 3473
Number of Support Vectors: 7
Weight vector (w): [ 2.74842189 -3.75172304]
Bias (b): -3.08561986704
2) Iris-SLWC with quadratic kernel
[yx5@pegasus hw5]$ ./assign5.py -i inputs/iris-slwc.txt -k quad | tee out/iris-slwc_quad.out
       x:[ 4.9 2.5] y:1 a:5.13769977739
        x:[ 5.5 3.5] y:-1
74
                             a:0.195297587238
109
       x:[ 4.5 2.3] y:-1
                             a:5.7346121391
Iterations: 9551
Number of Support Vectors: 3
Weight vector (w): [-1.70516245 -1.02890003]
Bias (b): -0.792209948943
3) Iris-PC with quadratic kernel
[yx5@pegasus hw5]$ ./assign5.py -i inputs/iris-PC.txt -k quad | tee out/iris-PC_quad.out
        x:[-0.81286779 -0.370679 ]
                                    y:-1
                                              a:2.00019335526
13
        x:[-1.55739627 0.26739258]
27
                                       y:-1
                                               a:10.0
       x:[ 0.5110862 -1.26249195]
28
                                       y:-1
                                              a:1.93752795521
29
       x:[-1.11624072 -0.08421401]
                                             a:10.0
                                       y:-1
30
       x:[-0.94236171 -0.54182226]
                                               a:10.0
                                       y:-1
35
       x:[-1.33104142 0.24466952]
                                       y:-1
                                               a:9.0604539672
       x:[-1.29646885 -0.32756152]
41
                                       y:-1
                                               a:10.0
       x:[-1.37873698 -0.42120514]
43
                                       y:-1
                                               a:10.0
       x:[-1.29066965 -0.11642525]
59
                                       y:1
                                               a:10.0
       x:[-0.51938325 -1.19135169]
68
                                       y:1
                                               a:6.71456224266
       x:[-1.25762518 -0.179137 ]
105
                                       y:1
                                               a:10.0
       x:[-1.38766825 -0.20403099]
                                               a:10.0
111
                                       y:1
117
       x:[-1.66193495 0.2420384]
                                       y:1
                                               a:10.0
                                       y:1
                                               a:3.03704383493
128
       x:[-1.4431026 -0.14380129]
146
       x:[-1.16885347 -0.1645025 ]
                                               a:10.0
                                       y:1
Iterations: 666
Number of Support Vectors: 15
Weight vector (w): [ 0.06982186 -0.61187959]
```

Bias (b): -3.24656920008