1 IRIS DATA

Table 1: OOB error for PP.bagging with bootstrap samples without strata and with strata

	aux	error	error.st
1	5.00000	0.07200	0.06667
2	10.00000	0.05970	0.03704
3	50.00000	0.04444	0.04444
4	100.00000	0.05185	0.03704
5	500.00000	0.04444	0.03704

Ussing PPtree with LDA the error is 0

```
library(PPtree)
Tree.result <- PP.Tree("LDA",iris[training,5],iris[training,1:4])
test <- iris[-training,]
res<-PP.classify(test[,1:4],test[,5],Tree.result,1)
print(res[[1]]/length(res[[2]]))
## [1] 0</pre>
```

Ussing the same data we run a random forest and the oob error is around 5%.

```
##
## Call:
   randomForest(formula = Species ~ ., data = iris[training, ],
##
                 Type of random forest: classification
##
                       Number of trees: 500
## No. of variables tried at each split: 2
##
          OOB estimate of error rate: 5.19%
##
## Confusion matrix:
##
           setosa versicolor virginica class.error
            45
                    0
                                   0
                                            0.00000
## setosa
## versicolor
                 0
                                      2
                            43
                                            0.04444
## virginica
                0
                            5
                                     40
                                            0.11111
```

importance = TRUE, pro

2 OLIVE DATA

Table 2: OOB error for PP.bagging with bootstrap samples without strata and with strata

	aux	error	error.st
1	5.00000	0.00000	0.00583
2	10.00000	0.00535	0.00000
3	50.00000	0.00000	0.00000
4	100.00000	0.00000	0.00000
5	500.00000	0.00000	0.00000

```
## [1] 0
```

Using random forest the OOb error us 0%

```
##
## Call:
   randomForest(formula = Region ~ ., data = d.olive2[training,
##
                  Type of random forest: classification
                        Number of trees: 500
##
## No. of variables tried at each split: 2
##
##
           OOB estimate of error rate: 0%
  Confusion matrix:
       1 2 class.error
## 1 290
                      0
## 2 0 88
```

], importance = TRUE,

Basic Output of PPforest for ntree=50

```
## Using as id variables
## Using as id variables
## $`OOB estimate or error rate`
## [1] 0
##
## $`Training error`
## [1] 0
##
## $Predicted
```

```
## [421] 2
##
## $`Confusion matrix`
## 1 2 class.error
## 1 1 0 0
       0
## 2 0 1
##
## $`OOB error Tree`
## [1] 0.000000 0.000000 0.000000 0.000000 0.007353 0.000000 0.000000
## [8] 0.000000 0.000000 0.006711 0.000000 0.000000 0.000000 0.000000
## [22] 0.000000 0.014286 0.000000 0.000000 0.000000 0.000000 0.021127
## [43] 0.021429 0.000000 0.000000 0.007634 0.000000 0.000000 0.000000
## [50] 0.000000
```