```
# X is the data matrix
# C is cluster centers from
# the previous iteration.
kmeans <- function(X, C)
 # Compute pair-wise distance
 # between a data point and
 # a center.
 D < -inner.prod(X,t(C),
        "euclidean"."+")
 # Find the closest center
 # to a data point.
 I<-agg.row(D,"which.min")
 # Count the number of data
```

points in each cluster.
one<-rep.int(1,nrow(I))
CNT<-groupby.row(one,I,"+")
Compute new centers.
C<-groupby.row(X,I,"+")
C<-mapply.row(C,CNT,"/")

list(C=C,I=I)