```
for( k in 1:K )
       pi k \leftarrow 1 / n * sum(c ik[,k])
       mu k \leftarrow ( t(c ik[,k]) %*% donnees ) / sum(c ik[,k])
       sigma k \leftarrow sqrt((t(c_ik[,k])) %*% (donnees - mu_k)^2) / sum(c_ik[,k]))
       param[[k]] <-list(p=pi k, mu=as.numeric(mu k), sigma=as.numeric(sigma k))</pre>
   # Calcul de la nouvelle vraissemblance
     fk \leftarrow matrix(0,n)
     for( k in 1:K)
          fk=fk+ param[[k]]$p*dnorm(donnees,param[[k]]$mu,param[[k]]$sigma)
     nL = sum(log(fk))
# Classification des donnees selon les c ik
clu <- matrix(rep(1:K,1), ncol = K, nrow = n, byrow = T)</pre>
mat <- c ik * clu
cluster <- apply(mat,1,sum)
param[[K+1]] <- cluster</pre>
param[[K+2]] <- nbiteration</pre>
return(param)
```