

```

misclass=function(classes,clusters){
d=as.vector(table(classes))
require(gtools)
t=permutations(length(d),length(d))
tt=c()
for(i in 1:nrow(t)){
tt[i]=mean(clusters!=rep(t[i,],d))
}
min(tt)
}
tlab=c(rep(1,14),rep(2,11),rep(3,18))
labb=c( 1, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1, 2, 1, 2, 2, 3, 3, 3, 3, 1, 3, 3, 2, 2, 3, 3,
        2, 2, 3, 3, 3, 2, 2, 3, 2, 3, 2, 3, 3, 3, 3, 3, 3, 2, 2)
misclass(tlab,labb)
dd=table(tlab)

```