```
#########################################################################
#
#         summarize results for BEGD
#
#########################################################################
postfile <- "sim1.out"
postdist <- read.table(postfile, header=T, skip = 1)

#plot log likelihoods for convergence diagnosis. if the chain did get converged, you need to run a longer analysis
plot(postdist[,1])

#assume that the chain converged at the 50th iteration
burnin <- 50
niteration <- dim(postdist)[1]

#summarize the posterior distribution in each column
mean(postdist[burnin:niteration, ])

#95% credible region for each parameter
nparameter <- dim(postdist)[2]
result <- matrix(0, nrow=nparameter, ncol=3)

for(i in 1:nparameter){
        result[i,2:3] <- quantile(postdist[, i], prob=c(0.025, 0.975))
}

result[,1] <- names(postdist)
colnames(result)<-c("parameter", "2.5%", "97.5%")

result
```