ESCOMbayesian_SR.R

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```
## ANALYSIS REPLICATION FILE
# Paper: Coethnicity and Corruption: Field Experimental Evidence from Public Officials in Malawi
# Authors: Brigitte Seim and Amanda Lea Robinson
# Journal: Journal of Experimental Political Science

## FILE INFO
# This R code performs analyses reported in the appendix.
# Place this file in the same folder as the ESCOMdata_SR.csv data file and set that file as your workin

############################################################

## Data Input and Preparation ##

rm(list = ls())
options(stringsAsFactors = FALSE)
data2 <- read.csv("ESCOMdata_SR.csv")
library(rstan)
```

```
## Loading required package: ggplot2
```

```
## Loading required package: StanHeaders
```

```
## rstan (Version 2.17.3, GitRev: 2e1f913d3ca3)
```

```
## For execution on a local, multicore CPU with excess RAM we recommend calling
## options(mc.cores = parallel::detectCores()).
## To avoid recompilation of unchanged Stan programs, we recommend calling
## rstan_options(auto_write = TRUE)
```

```
library(brms)
```

```
## Loading required package: Rcpp
```

```
## Loading 'brms' package (version 2.4.0). Useful instructions
## can be found by typing help('brms'). A more detailed introduction
## to the package is available through vignette('brms_overview').
## Run theme_set(theme_default()) to use the default bayesplot theme.
```

```
library(coda)
```

```
##
## Attaching package: 'coda'
```

```
## The following object is masked from 'package:rstan':
##
##     traceplot
```

```
rstan_options(auto_write = TRUE)
options(mc.cores = parallel::detectCores())
library(brms)
data2$outcome2 <- "Normal"
data2$outcome2[data2$outcome==0] <- "Bribery"
```

```r
data2$outcome2[data2$outcome==2] <- "Expedited"
data2$outcome2 <- as.factor(data2$outcome2)
data2$outcome2 <- relevel(data2$outcome2, "Normal")
data2$SES <- data2$ses
data2$Power <- data2$power
data2$Coethnic <- data2$coreg
data2$NumberOfficials <- data2$numofficials
data2$OtherCustomers <- data2$other_customers

## Main Model ##

bayesescom3<-brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2, fa
```

```
## Compiling the C++ model
```

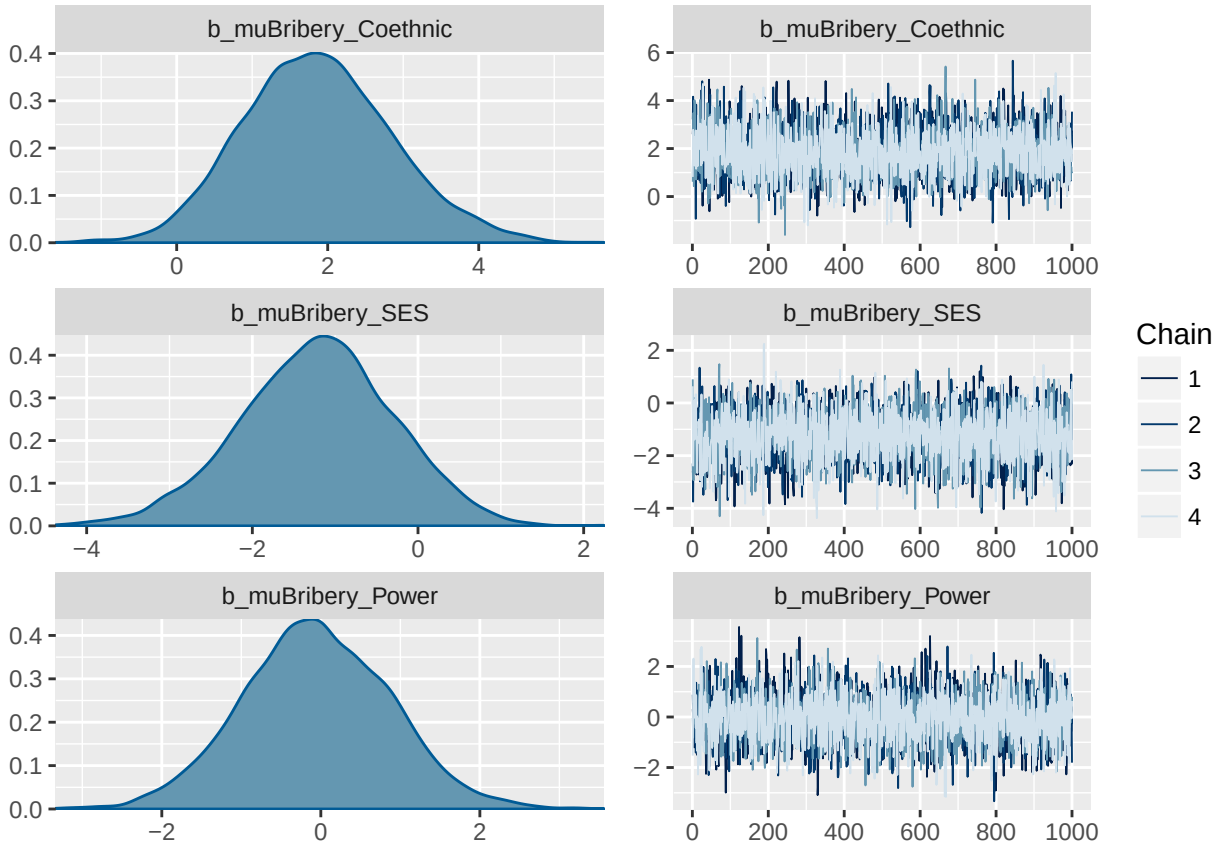
```
## Start sampling
```

```r
summary(bayesescom3)
```

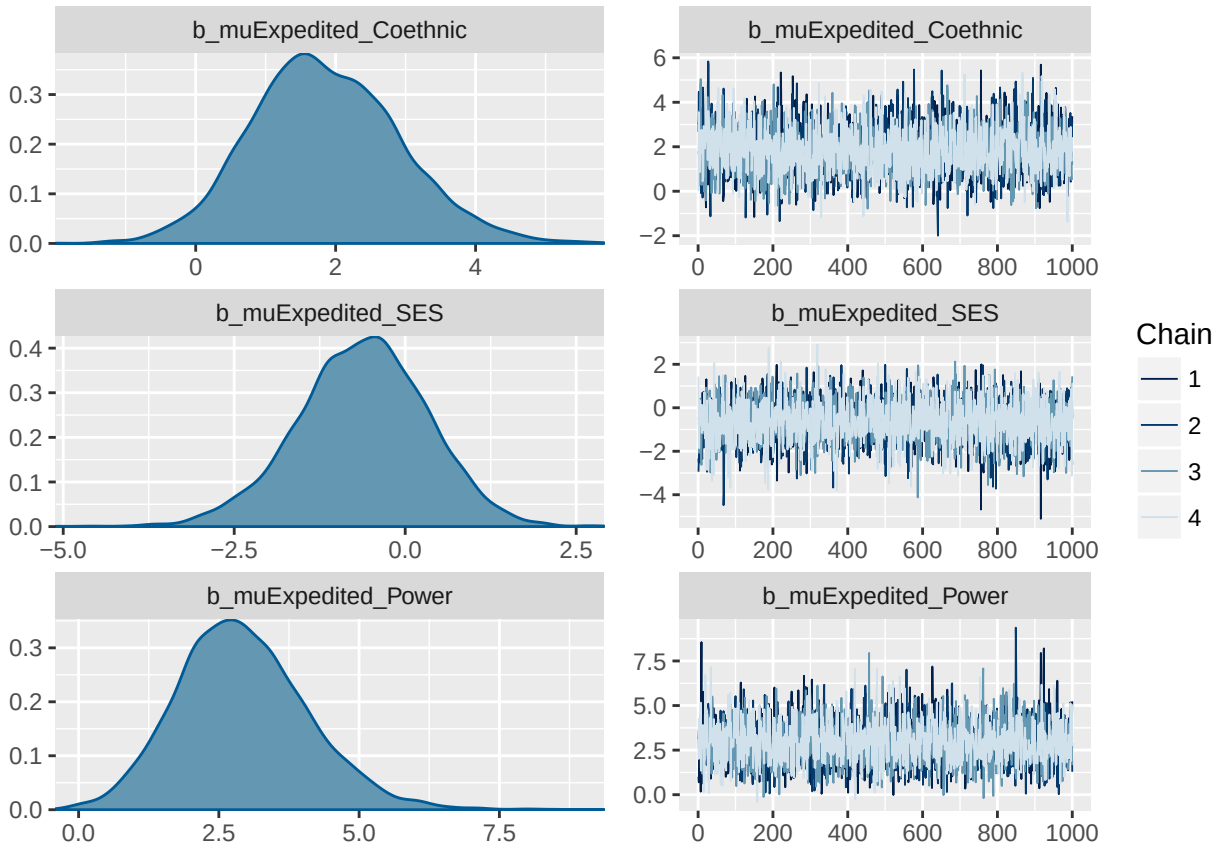
```
##  Family: categorical
##   Links: muBribery = identity; muExpedited = identity
## Formula: outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers
##    Data: data2 (Number of observations: 52)
## Samples: 4 chains, each with iter = 2000; warmup = 1000; thin = 1;
##          total post-warmup samples = 4000
##
## Population-Level Effects:
##                             Estimate Est.Error l-95% CI u-95% CI
## muBribery_Intercept            -2.07      0.99    -4.14    -0.22
## muExpedited_Intercept          -3.89      1.34    -6.70    -1.37
## muBribery_Coethnic              1.87      0.99     0.04     3.93
## muBribery_SES                  -1.22      0.92    -3.10     0.53
## muBribery_Power                -0.05      0.93    -1.87     1.77
## muBribery_NumberOfficials       0.94      0.34     0.35     1.66
## muBribery_OtherCustomers       -1.34      1.22    -3.77     0.98
## muExpedited_Coethnic            1.86      1.05    -0.09     4.04
## muExpedited_SES                -0.63      0.95    -2.57     1.17
## muExpedited_Power               2.92      1.16     0.86     5.38
## muExpedited_NumberOfficials     0.68      0.33     0.08     1.40
## muExpedited_OtherCustomers      1.07      1.23    -1.24     3.59
##                             Eff.Sample Rhat
## muBribery_Intercept               4000 1.00
## muExpedited_Intercept             2961 1.00
## muBribery_Coethnic                3469 1.00
## muBribery_SES                     4000 1.00
## muBribery_Power                   3229 1.00
## muBribery_NumberOfficials         2688 1.00
## muBribery_OtherCustomers          4000 1.00
## muExpedited_Coethnic              3082 1.00
## muExpedited_SES                   4000 1.00
## muExpedited_Power                 2676 1.00
## muExpedited_NumberOfficials       2817 1.00
## muExpedited_OtherCustomers        3496 1.00
##
## Samples were drawn using sampling(NUTS). For each parameter, Eff.Sample
```

```
## is a crude measure of effective sample size, and Rhat is the potential
## scale reduction factor on split chains (at convergence, Rhat = 1).
```

```
plot(bayesescom3,pars=parnames(bayesescom3)[3:5])
```




```
plot(bayesescom3,pars=parnames(bayesescom3)[8:10])
```




```
x3<-as.mcmc(bayesescom3)
HPDinterval(x3,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.8061952  -0.6115923
## b_muExpedited_Intercept        -6.0458798  -1.8667429
## b_muBribery_Coethnic            0.2189084   3.4997459
## b_muBribery_SES                -2.7210891   0.3036618
## b_muBribery_Power              -1.6801684   1.5150515
## b_muBribery_NumberOfficials     0.3813940   1.4694555
## b_muBribery_OtherCustomers     -3.2560163   0.8812626
## b_muExpedited_Coethnic          0.2072100   3.6141111
## b_muExpedited_SES              -2.0503836   0.9367287
## b_muExpedited_Power             1.1446656   5.0235291
## b_muExpedited_NumberOfficials   0.1431899   1.2600724
## b_muExpedited_OtherCustomers   -0.9879873   2.8975511
## lp__                         -88.9063865 -80.8566345
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                     lower       upper
## b_muBribery_Intercept          -3.53427796  -0.5182073
## b_muExpedited_Intercept        -6.30536234  -1.9785236
## b_muBribery_Coethnic            0.36951740   3.6902441
## b_muBribery_SES                -2.67144394   0.3175996
```

```
## b_muBribery_Power              -1.53658410   1.4301520
## b_muBribery_NumberOfficials     0.42952553   1.4758041
## b_muBribery_OtherCustomers     -3.37727048   0.3623916
## b_muExpedited_Coethnic          0.03607018   3.5628180
## b_muExpedited_SES              -2.00149271   0.9713997
## b_muExpedited_Power             1.14379374   4.8406039
## b_muExpedited_NumberOfficials   0.17782982   1.2023992
## b_muExpedited_OtherCustomers   -0.94198954   3.1499030
## lp__                         -88.46148255 -80.1542317
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                     lower       upper
## b_muBribery_Intercept          -3.6248780  -0.4351561
## b_muExpedited_Intercept        -5.8552551  -1.6193327
## b_muBribery_Coethnic            0.1777860   3.2720162
## b_muBribery_SES                -2.4965139   0.4676384
## b_muBribery_Power              -1.5699012   1.3106969
## b_muBribery_NumberOfficials     0.4232158   1.4614060
## b_muBribery_OtherCustomers     -3.1708116   0.8664462
## b_muExpedited_Coethnic          0.2086041   3.5876924
## b_muExpedited_SES              -1.9634686   1.0240248
## b_muExpedited_Power             0.9194793   4.6660109
## b_muExpedited_NumberOfficials   0.1465208   1.1780819
## b_muExpedited_OtherCustomers   -1.0723161   2.7920443
## lp__                         -88.8389567 -80.6972775
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                     lower       upper
## b_muBribery_Intercept          -3.7890899  -0.5638057
## b_muExpedited_Intercept        -6.1057216  -1.8032366
## b_muBribery_Coethnic            0.1244000   3.2348366
## b_muBribery_SES                -2.7242003   0.4366251
## b_muBribery_Power              -1.5304514   1.3780656
## b_muBribery_NumberOfficials     0.3920533   1.4992355
## b_muBribery_OtherCustomers     -3.2703380   0.5910008
## b_muExpedited_Coethnic          0.3232213   3.5627620
## b_muExpedited_SES              -2.2705419   1.0468511
## b_muExpedited_Power             1.2109445   4.8581729
## b_muExpedited_NumberOfficials   0.1088527   1.2366062
## b_muExpedited_OtherCustomers   -0.9029346   3.1722941
## lp__                         -88.7138415 -80.6931414
## attr(,"Probability")
## [1] 0.9
```

```
xall3<-do.call(rbind,x3)
HPDinterval(mcmc(xall3),0.9)
```

```
##                                     lower       upper
## b_muBribery_Intercept          -3.6967879  -0.5142787
## b_muExpedited_Intercept        -6.1431018  -1.8322220
## b_muBribery_Coethnic            0.1777860   3.3967211
```

```
## b_muBribery_SES                -2.6882201   0.3587330
## b_muBribery_Power              -1.5830728   1.4301520
## b_muBribery_NumberOfficials     0.4064578   1.4876723
## b_muBribery_OtherCustomers     -3.2964624   0.6716547
## b_muExpedited_Coethnic          0.2072100   3.5998961
## b_muExpedited_SES              -2.1511132   0.9449207
## b_muExpedited_Power             1.1019774   4.8662431
## b_muExpedited_NumberOfficials   0.1514124   1.2256080
## b_muExpedited_OtherCustomers   -0.9741130   3.0385536
## lp__                         -88.8681222 -80.6859957
## attr(,"Probability")
## [1] 0.9
```

```
## Prior Sensitivity Analysis ##

# Models #
bayesescom4 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2, i

## Compiling the C++ model
## Start sampling
bayesescom5 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2, i

## Compiling the C++ model
## Start sampling
bayesescom6 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2, i

## Compiling the C++ model
## Start sampling
bayesescom7 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2, i

## Compiling the C++ model
## Start sampling
bayesescom8 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2, i

## Compiling the C++ model
## Start sampling
bayesescom9 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2, i

## Compiling the C++ model
## Start sampling
bayesescom10 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom11 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom12 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
```

```
bayesescom13 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom14 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom15 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom16 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom17 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom18 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom19 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom20 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom21 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom22 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom23 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom24 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom25 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,
```

```
## Compiling the C++ model
## Start sampling
bayesescom26 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom27 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom28 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom29 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom30 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom31 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom32 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom33 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom34 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom35 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom36 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom37 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
```

```
bayesescom38 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom39 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom40 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom41 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom42 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom43 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom44 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom45 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom46 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom47 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom48 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom49 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,

## Compiling the C++ model
## Start sampling
bayesescom50 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,
```

```
## Compiling the C++ model
## Start sampling
```

```
bayesescom51 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,
```

```
## Compiling the C++ model
## Start sampling
```

```
bayesescom52 <- brm(outcome2 ~ Coethnic + SES + Power + NumberOfficials + OtherCustomers, data = data2,
```

```
## Compiling the C++ model
## Start sampling
```

```
# 90% Intervals #

x3<-as.mcmc(bayesescom3)
HPDinterval(x3,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -3.8061952  -0.6115923
## b_muExpedited_Intercept        -6.0458798  -1.8667429
## b_muBribery_Coethnic            0.2189084   3.4997459
## b_muBribery_SES                -2.7210891   0.3036618
## b_muBribery_Power              -1.6801684   1.5150515
## b_muBribery_NumberOfficials     0.3813940   1.4694555
## b_muBribery_OtherCustomers     -3.2560163   0.8812626
## b_muExpedited_Coethnic          0.2072100   3.6141111
## b_muExpedited_SES              -2.0503836   0.9367287
## b_muExpedited_Power             1.1446656   5.0235291
## b_muExpedited_NumberOfficials   0.1431899   1.2600724
## b_muExpedited_OtherCustomers   -0.9879873   2.8975511
## lp__                         -88.9063865 -80.8566345
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.53427796  -0.5182073
## b_muExpedited_Intercept        -6.30536234  -1.9785236
## b_muBribery_Coethnic            0.36951740   3.6902441
## b_muBribery_SES                -2.67144394   0.3175996
## b_muBribery_Power              -1.53658410   1.4301520
## b_muBribery_NumberOfficials     0.42952553   1.4758041
## b_muBribery_OtherCustomers     -3.37727048   0.3623916
## b_muExpedited_Coethnic          0.03607018   3.5628180
## b_muExpedited_SES              -2.00149271   0.9713997
## b_muExpedited_Power             1.14379374   4.8406039
## b_muExpedited_NumberOfficials   0.17782982   1.2023992
## b_muExpedited_OtherCustomers   -0.94198954   3.1499030
## lp__                         -88.46148255 -80.1542317
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                     lower       upper
```

```
## b_muBribery_Intercept          -3.6248780  -0.4351561
## b_muExpedited_Intercept        -5.8552551  -1.6193327
## b_muBribery_Coethnic            0.1777860   3.2720162
## b_muBribery_SES                -2.4965139   0.4676384
## b_muBribery_Power              -1.5699012   1.3106969
## b_muBribery_NumberOfficials     0.4232158   1.4614060
## b_muBribery_OtherCustomers     -3.1708116   0.8664462
## b_muExpedited_Coethnic          0.2086041   3.5876924
## b_muExpedited_SES              -1.9634686   1.0240248
## b_muExpedited_Power             0.9194793   4.6660109
## b_muExpedited_NumberOfficials   0.1465208   1.1780819
## b_muExpedited_OtherCustomers   -1.0723161   2.7920443
## lp__                         -88.8389567 -80.6972775
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                    lower       upper
## b_muBribery_Intercept          -3.7890899  -0.5638057
## b_muExpedited_Intercept        -6.1057216  -1.8032366
## b_muBribery_Coethnic            0.1244000   3.2348366
## b_muBribery_SES                -2.7242003   0.4366251
## b_muBribery_Power              -1.5304514   1.3780656
## b_muBribery_NumberOfficials     0.3920533   1.4992355
## b_muBribery_OtherCustomers     -3.2703380   0.5910008
## b_muExpedited_Coethnic          0.3232213   3.5627620
## b_muExpedited_SES              -2.2705419   1.0468511
## b_muExpedited_Power             1.2109445   4.8581729
## b_muExpedited_NumberOfficials   0.1088527   1.2366062
## b_muExpedited_OtherCustomers   -0.9029346   3.1722941
## lp__                         -88.7138415 -80.6931414
## attr(,"Probability")
## [1] 0.9
```

```
xall3<-do.call(rbind,x3)
HPDinterval(mcmc(xall3),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.6967879  -0.5142787
## b_muExpedited_Intercept        -6.1431018  -1.8322220
## b_muBribery_Coethnic            0.1777860   3.3967211
## b_muBribery_SES                -2.6882201   0.3587330
## b_muBribery_Power              -1.5830728   1.4301520
## b_muBribery_NumberOfficials     0.4064578   1.4876723
## b_muBribery_OtherCustomers     -3.2964624   0.6716547
## b_muExpedited_Coethnic          0.2072100   3.5998961
## b_muExpedited_SES              -2.1511132   0.9449207
## b_muExpedited_Power             1.1019774   4.8662431
## b_muExpedited_NumberOfficials   0.1514124   1.2256080
## b_muExpedited_OtherCustomers   -0.9741130   3.0385536
## lp__                         -88.8681222 -80.6859957
## attr(,"Probability")
## [1] 0.9
```

```r
x4<-as.mcmc(bayesescom4)
HPDinterval(x4,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -3.8466329  -0.4581297
## b_muExpedited_Intercept        -6.1039049  -1.7779136
## b_muBribery_Coethnic            0.3394676   3.3704922
## b_muBribery_SES                -2.7159142   0.2649861
## b_muBribery_Power              -1.6806395   1.3259932
## b_muBribery_NumberOfficials     0.4337362   1.4829702
## b_muBribery_OtherCustomers     -3.3938180   0.5191723
## b_muExpedited_Coethnic          0.2895031   3.4830725
## b_muExpedited_SES              -2.0244524   0.9149783
## b_muExpedited_Power             1.1916098   4.8746239
## b_muExpedited_NumberOfficials   0.1459587   1.1590649
## b_muExpedited_OtherCustomers   -0.8838502   3.1968015
## lp__                         -87.9527244 -80.2777184
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                     lower       upper
## b_muBribery_Intercept          -3.5273635  -0.2633618
## b_muExpedited_Intercept        -6.0279825  -1.7420946
## b_muBribery_Coethnic            0.2627677   3.5965578
## b_muBribery_SES                -2.6648656   0.2852825
## b_muBribery_Power              -1.6302047   1.4431620
## b_muBribery_NumberOfficials     0.3818796   1.5037101
## b_muBribery_OtherCustomers     -3.3641888   0.7478529
## b_muExpedited_Coethnic          0.1551474   3.4388481
## b_muExpedited_SES              -2.1460549   0.8066089
## b_muExpedited_Power             1.1448111   4.8430366
## b_muExpedited_NumberOfficials   0.1604618   1.2544135
## b_muExpedited_OtherCustomers   -1.0340973   3.0189516
## lp__                         -88.7081022 -80.4818965
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                     lower       upper
## b_muBribery_Intercept          -3.866651253  -0.4054249
## b_muExpedited_Intercept        -5.749027074  -1.5246941
## b_muBribery_Coethnic            0.254862845   3.4835767
## b_muBribery_SES                -2.734289147   0.3309341
## b_muBribery_Power              -1.595638930   1.4215583
## b_muBribery_NumberOfficials     0.423223508   1.5362051
## b_muBribery_OtherCustomers     -3.498703682   0.6879441
## b_muExpedited_Coethnic         -0.006048778   3.5649187
## b_muExpedited_SES              -2.207416069   0.8408851
## b_muExpedited_Power             0.875073631   4.4845063
## b_muExpedited_NumberOfficials   0.161959500   1.2867175
## b_muExpedited_OtherCustomers   -1.070831852   2.7851454
## lp__                         -88.371123771 -80.3678638
```

```
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                       lower       upper
## b_muBribery_Intercept          -3.69976621  -0.5918451
## b_muExpedited_Intercept        -5.93823725  -1.5612584
## b_muBribery_Coethnic            0.41951173   3.4720362
## b_muBribery_SES                -2.72968140   0.2438331
## b_muBribery_Power              -1.46747572   1.5180958
## b_muBribery_NumberOfficials     0.34392376   1.4282371
## b_muBribery_OtherCustomers     -3.35008748   0.5980615
## b_muExpedited_Coethnic          0.06348722   3.4719503
## b_muExpedited_SES              -2.00485233   0.8904376
## b_muExpedited_Power             1.03418138   4.8321185
## b_muExpedited_NumberOfficials   0.19504887   1.2230100
## b_muExpedited_OtherCustomers   -0.74543673   3.1227716
## lp__                         -87.99248938 -79.6786213
## attr(,"Probability")
## [1] 0.9
```

```
xall4<-do.call(rbind,x4)
HPDinterval(mcmc(xall4),0.9)
```

```
##                                       lower       upper
## b_muBribery_Intercept          -3.69543996  -0.3611646
## b_muExpedited_Intercept        -6.06155399  -1.7352106
## b_muBribery_Coethnic            0.29151038   3.4727930
## b_muBribery_SES                -2.74852180   0.2454965
## b_muBribery_Power              -1.59563893   1.4489369
## b_muBribery_NumberOfficials     0.38844304   1.4866387
## b_muBribery_OtherCustomers     -3.45762496   0.6000051
## b_muExpedited_Coethnic          0.08367783   3.4650755
## b_muExpedited_SES              -2.05392935   0.9163992
## b_muExpedited_Power             1.04735879   4.7853651
## b_muExpedited_NumberOfficials   0.17951484   1.2479868
## b_muExpedited_OtherCustomers   -0.85880949   3.1367338
## lp__                         -88.46675149 -80.3935803
## attr(,"Probability")
## [1] 0.9
```

```
x5<-as.mcmc(bayesescom5)
HPDinterval(x5,0.9)
```

```
## [[1]]
##                                       lower       upper
## b_muBribery_Intercept          -3.6936664  -0.3809749
## b_muExpedited_Intercept        -6.3239971  -1.9212563
## b_muBribery_Coethnic            0.3697337   3.2917867
## b_muBribery_SES                -2.6358166   0.3540925
## b_muBribery_Power              -1.3998319   1.4109546
## b_muBribery_NumberOfficials     0.3774792   1.5077216
## b_muBribery_OtherCustomers     -3.4280758   0.5865858
## b_muExpedited_Coethnic          0.3013585   3.5427451
## b_muExpedited_SES              -2.2641253   0.8903271
```

```
## b_muExpedited_Power             1.1031265   4.8730703
## b_muExpedited_NumberOfficials   0.1578763   1.2674867
## b_muExpedited_OtherCustomers   -0.7495817   2.9966971
## lp__                         -88.6128720 -80.4444256
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.7147040  -0.5207252
## b_muExpedited_Intercept        -6.1275364  -1.6591399
## b_muBribery_Coethnic            0.2391763   3.4719369
## b_muBribery_SES                -2.7577200   0.2495620
## b_muBribery_Power              -1.4248400   1.4676115
## b_muBribery_NumberOfficials     0.4510055   1.5259300
## b_muBribery_OtherCustomers     -3.1731268   0.9727326
## b_muExpedited_Coethnic          0.1748892   3.6767721
## b_muExpedited_SES              -2.1752024   0.8299603
## b_muExpedited_Power             1.0346945   4.8864467
## b_muExpedited_NumberOfficials   0.0970974   1.1883203
## b_muExpedited_OtherCustomers   -1.0585300   2.9339462
## lp__                         -88.3158100 -80.1827226
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -3.5826115  -0.4614134
## b_muExpedited_Intercept        -6.2650801  -1.7952914
## b_muBribery_Coethnic            0.3409961   3.2697812
## b_muBribery_SES                -2.6200792   0.3458448
## b_muBribery_Power              -1.5962420   1.5474333
## b_muBribery_NumberOfficials     0.3845254   1.4866582
## b_muBribery_OtherCustomers     -3.4584723   0.7146098
## b_muExpedited_Coethnic          0.2827296   3.3721542
## b_muExpedited_SES              -1.9005416   0.9760006
## b_muExpedited_Power             1.0034728   4.8937739
## b_muExpedited_NumberOfficials   0.0950130   1.1939320
## b_muExpedited_OtherCustomers   -0.8857673   3.0908598
## lp__                         -88.4335348 -80.1200758
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                    lower       upper
## b_muBribery_Intercept          -3.6873581  -0.4840503
## b_muExpedited_Intercept        -5.9741996  -1.5016591
## b_muBribery_Coethnic            0.2330825   3.4069506
## b_muBribery_SES                -2.5968159   0.4355816
## b_muBribery_Power              -1.6139746   1.3354852
## b_muBribery_NumberOfficials     0.3768290   1.4318197
## b_muBribery_OtherCustomers     -3.2896409   0.6157185
## b_muExpedited_Coethnic          0.2380858   3.6781679
## b_muExpedited_SES              -1.9691786   1.0442652
```

```
## b_muExpedited_Power             1.0710688   4.8299234
## b_muExpedited_NumberOfficials   0.1408470   1.2458076
## b_muExpedited_OtherCustomers   -1.0432309   3.0437872
## lp__                         -88.7591588 -80.1337202
## attr(,"Probability")
## [1] 0.9
```

```
xall5<-do.call(rbind,x5)
HPDinterval(mcmc(xall5),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.6873581  -0.4477140
## b_muExpedited_Intercept        -6.3551022  -1.8595098
## b_muBribery_Coethnic            0.2832410   3.3346897
## b_muBribery_SES                -2.6701685   0.3458448
## b_muBribery_Power              -1.4309789   1.5498674
## b_muBribery_NumberOfficials     0.3871419   1.4888318
## b_muBribery_OtherCustomers     -3.4280758   0.6575578
## b_muExpedited_Coethnic          0.2017099   3.5462683
## b_muExpedited_SES              -2.0759246   0.9733317
## b_muExpedited_Power             1.0024517   4.8299234
## b_muExpedited_NumberOfficials   0.1341642   1.2458076
## b_muExpedited_OtherCustomers   -0.9316430   3.0454561
## lp__                         -88.4710459 -80.1200758
## attr(,"Probability")
## [1] 0.9
```

```
x6<-as.mcmc(bayesescom6)
HPDinterval(x6,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -3.69860282  -0.3624069
## b_muExpedited_Intercept        -5.87050026  -1.6836725
## b_muBribery_Coethnic            0.28892821   3.4003237
## b_muBribery_SES                -2.64041655   0.3660585
## b_muBribery_Power              -1.56452774   1.6584760
## b_muBribery_NumberOfficials     0.36569205   1.4327586
## b_muBribery_OtherCustomers     -3.32178360   0.5000419
## b_muExpedited_Coethnic          0.09043917   3.3531920
## b_muExpedited_SES              -2.24557279   0.8619265
## b_muExpedited_Power             1.09791100   4.6812843
## b_muExpedited_NumberOfficials   0.12233472   1.2199341
## b_muExpedited_OtherCustomers   -0.72284081   2.9723656
## lp__                         -88.37665407 -79.8824268
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                     lower       upper
## b_muBribery_Intercept          -3.8055017  -0.4243819
## b_muExpedited_Intercept        -6.2213227  -1.8128821
## b_muBribery_Coethnic            0.3568721   3.3846122
## b_muBribery_SES                -2.6983736   0.3026170
## b_muBribery_Power              -1.4129012   1.6079614
```

```
## b_muBribery_NumberOfficials     0.4134211   1.5540227
## b_muBribery_OtherCustomers     -3.5723490   0.4912281
## b_muExpedited_Coethnic          0.1184106   3.5960403
## b_muExpedited_SES              -2.1628660   0.9404853
## b_muExpedited_Power             1.0138532   4.7767529
## b_muExpedited_NumberOfficials   0.1367433   1.2787640
## b_muExpedited_OtherCustomers   -1.0064577   3.0307109
## lp__                         -88.3600456 -80.0153254
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.70386457  -0.3715550
## b_muExpedited_Intercept        -6.06867865  -1.7217564
## b_muBribery_Coethnic            0.20924978   3.4099033
## b_muBribery_SES                -2.68181686   0.2780475
## b_muBribery_Power              -1.54724152   1.4752280
## b_muBribery_NumberOfficials     0.36889574   1.4557746
## b_muBribery_OtherCustomers     -3.49356869   0.4831275
## b_muExpedited_Coethnic          0.01758335   3.4881588
## b_muExpedited_SES              -2.20650749   0.8079182
## b_muExpedited_Power             0.99888252   4.7990941
## b_muExpedited_NumberOfficials   0.02857584   1.1535502
## b_muExpedited_OtherCustomers   -0.94622242   2.9692615
## lp__                         -87.77463730 -80.1371342
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.72838995  -0.4443720
## b_muExpedited_Intercept        -6.12422797  -1.6468726
## b_muBribery_Coethnic            0.27785622   3.6340959
## b_muBribery_SES                -2.74952775   0.2167786
## b_muBribery_Power              -1.62307828   1.3263268
## b_muBribery_NumberOfficials     0.42932972   1.5198486
## b_muBribery_OtherCustomers     -3.51823070   0.5990760
## b_muExpedited_Coethnic         -0.08741799   3.4943576
## b_muExpedited_SES              -2.30436134   0.7797412
## b_muExpedited_Power             1.24371578   5.0583149
## b_muExpedited_NumberOfficials   0.17506245   1.2434024
## b_muExpedited_OtherCustomers   -0.84387724   3.0042270
## lp__                         -88.00468524 -79.4903212
## attr(,"Probability")
## [1] 0.9
```

```
xall6<-do.call(rbind,x6)
HPDinterval(mcmc(xall6),0.9)
```

```
##                                      lower       upper
## b_muBribery_Intercept          -3.70433655  -0.3693463
## b_muExpedited_Intercept        -6.03166190  -1.6533024
## b_muBribery_Coethnic            0.21902168   3.4127780
## b_muBribery_SES                -2.67398784   0.3255531
```

```
## b_muBribery_Power              -1.60061407   1.4736405
## b_muBribery_NumberOfficials     0.42597176   1.5326117
## b_muBribery_OtherCustomers     -3.52639476   0.4831275
## b_muExpedited_Coethnic          0.09569933   3.5544491
## b_muExpedited_SES              -2.25340342   0.8318357
## b_muExpedited_Power             1.02726349   4.8057449
## b_muExpedited_NumberOfficials   0.15700506   1.2773374
## b_muExpedited_OtherCustomers   -0.91101819   2.9845115
## lp__                         -87.97249960 -79.7002300
## attr(,"Probability")
## [1] 0.9
```

```
x7<-as.mcmc(bayesescom7)
HPDinterval(x7,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.5107901  -0.3856451
## b_muExpedited_Intercept        -6.0318612  -1.7253610
## b_muBribery_Coethnic            0.4472402   3.4638344
## b_muBribery_SES                -2.6215552   0.3347841
## b_muBribery_Power              -1.5819127   1.4152559
## b_muBribery_NumberOfficials     0.3864986   1.4810061
## b_muBribery_OtherCustomers     -3.4758258   0.5829430
## b_muExpedited_Coethnic          0.2605420   3.3866175
## b_muExpedited_SES              -2.0589287   0.8852505
## b_muExpedited_Power             0.9812934   4.6302297
## b_muExpedited_NumberOfficials   0.1119795   1.1994729
## b_muExpedited_OtherCustomers   -1.0460380   2.8473781
## lp__                         -87.4815211 -79.5167320
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.58606057  -0.3082884
## b_muExpedited_Intercept        -5.99258541  -1.6688120
## b_muBribery_Coethnic            0.14153729   3.3724163
## b_muBribery_SES                -2.77566840   0.1551091
## b_muBribery_Power              -1.51059332   1.4987351
## b_muBribery_NumberOfficials     0.37444846   1.5002314
## b_muBribery_OtherCustomers     -3.36830227   0.6681957
## b_muExpedited_Coethnic          0.13943116   3.4351457
## b_muExpedited_SES              -2.05570980   0.8873096
## b_muExpedited_Power             1.03533092   4.6017694
## b_muExpedited_NumberOfficials   0.03127027   1.1867317
## b_muExpedited_OtherCustomers   -1.07022232   2.8110138
## lp__                         -87.71597161 -79.4903936
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -3.49256333  -0.4353908
## b_muExpedited_Intercept        -5.85100753  -1.5482543
```

```
## b_muBribery_Coethnic            0.33119471   3.3823345
## b_muBribery_SES                -2.47217310   0.3227378
## b_muBribery_Power              -1.63402323   1.5173225
## b_muBribery_NumberOfficials     0.40734981   1.4118819
## b_muBribery_OtherCustomers     -3.22848683   0.6304180
## b_muExpedited_Coethnic          0.21473853   3.6996385
## b_muExpedited_SES              -2.10858492   0.8103382
## b_muExpedited_Power             1.04840491   4.7222528
## b_muExpedited_NumberOfficials   0.09311451   1.1301059
## b_muExpedited_OtherCustomers   -0.86326245   3.0530960
## lp__                         -87.91564148 -79.6062011
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                    lower       upper
## b_muBribery_Intercept          -3.5827255  -0.3305294
## b_muExpedited_Intercept        -5.8991982  -1.5896306
## b_muBribery_Coethnic            0.2127830   3.4574182
## b_muBribery_SES                -2.6466996   0.3430158
## b_muBribery_Power              -1.5399494   1.4792448
## b_muBribery_NumberOfficials     0.3660941   1.4270169
## b_muBribery_OtherCustomers     -3.4314850   0.5775242
## b_muExpedited_Coethnic         -0.0136676   3.5307809
## b_muExpedited_SES              -1.9762036   0.9236189
## b_muExpedited_Power             0.8545577   4.7066246
## b_muExpedited_NumberOfficials   0.1497305   1.1984661
## b_muExpedited_OtherCustomers   -1.0273736   2.8860422
## lp__                         -87.9628035 -79.4686752
## attr(,"Probability")
## [1] 0.9
```

```
xall7<-do.call(rbind,x7)
HPDinterval(mcmc(xall7),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.7122942  -0.5102691
## b_muExpedited_Intercept        -5.8835114  -1.5482543
## b_muBribery_Coethnic            0.2214746   3.3951163
## b_muBribery_SES                -2.5997451   0.3430158
## b_muBribery_Power              -1.6062257   1.4448848
## b_muBribery_NumberOfficials     0.3785049   1.4617561
## b_muBribery_OtherCustomers     -3.4287574   0.5829430
## b_muExpedited_Coethnic          0.2334883   3.6550374
## b_muExpedited_SES              -2.0829578   0.8601176
## b_muExpedited_Power             0.9592056   4.6816934
## b_muExpedited_NumberOfficials   0.1118034   1.2008688
## b_muExpedited_OtherCustomers   -0.8647111   3.0592783
## lp__                         -87.9431616 -79.6446239
## attr(,"Probability")
## [1] 0.9
```

```
x8<-as.mcmc(bayesescom8)
HPDinterval(x8,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.6775292  -0.4395028
## b_muExpedited_Intercept        -5.9134790  -1.7026257
## b_muBribery_Coethnic            0.2528812   3.2720319
## b_muBribery_SES                -2.6764604   0.2693203
## b_muBribery_Power              -1.5300471   1.4746663
## b_muBribery_NumberOfficials     0.4146823   1.4842732
## b_muBribery_OtherCustomers     -3.2987488   0.6986569
## b_muExpedited_Coethnic          0.1300284   3.3804717
## b_muExpedited_SES              -2.0003772   0.8761431
## b_muExpedited_Power             0.9802406   4.7682952
## b_muExpedited_NumberOfficials   0.1179078   1.2035746
## b_muExpedited_OtherCustomers   -1.0586725   2.9915108
## lp__                         -87.4880651 -79.3064131
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.746245920  -0.7013596
## b_muExpedited_Intercept        -6.079276303  -1.8346447
## b_muBribery_Coethnic            0.042335904   3.2399147
## b_muBribery_SES                -2.783140137   0.3144532
## b_muBribery_Power              -1.679410696   1.4764343
## b_muBribery_NumberOfficials     0.343651551   1.4549187
## b_muBribery_OtherCustomers     -3.281792178   0.6536577
## b_muExpedited_Coethnic          0.001311671   3.5903318
## b_muExpedited_SES              -2.250949843   0.7463159
## b_muExpedited_Power             1.114726120   4.8136828
## b_muExpedited_NumberOfficials   0.096278884   1.2023448
## b_muExpedited_OtherCustomers   -0.808939425   3.1265448
## lp__                         -88.221299812 -79.7868134
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -3.4786790  -0.3793526
## b_muExpedited_Intercept        -5.7830263  -1.7969181
## b_muBribery_Coethnic            0.3151531   3.4611103
## b_muBribery_SES                -2.7736078   0.3112500
## b_muBribery_Power              -1.4312822   1.4342651
## b_muBribery_NumberOfficials     0.3923589   1.4261907
## b_muBribery_OtherCustomers     -3.3638587   0.4673513
## b_muExpedited_Coethnic          0.2207377   3.3782705
## b_muExpedited_SES              -2.0977016   0.8789345
## b_muExpedited_Power             1.0530349   4.7068798
## b_muExpedited_NumberOfficials   0.1109829   1.1737929
## b_muExpedited_OtherCustomers   -0.9452280   3.0299928
## lp__                         -87.4188524 -79.3866971
## attr(,"Probability")
## [1] 0.9
##
```

```
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.71228464  -0.4798388
## b_muExpedited_Intercept        -6.13013103  -1.7446423
## b_muBribery_Coethnic            0.14440299   3.3472703
## b_muBribery_SES                -2.81784571   0.2643373
## b_muBribery_Power              -1.50666811   1.6376443
## b_muBribery_NumberOfficials     0.38862426   1.5427621
## b_muBribery_OtherCustomers     -3.51833824   0.5593299
## b_muExpedited_Coethnic          0.03976216   3.6487738
## b_muExpedited_SES              -2.24620817   0.7009207
## b_muExpedited_Power             1.08791869   4.8233648
## b_muExpedited_NumberOfficials   0.18686193   1.2932920
## b_muExpedited_OtherCustomers   -1.40879770   2.8464999
## lp__                         -88.05831911 -79.4606059
## attr(,"Probability")
## [1] 0.9
```

```
xall8<-do.call(rbind,x8)
HPDinterval(mcmc(xall8),0.9)
```

```
##                                      lower       upper
## b_muBribery_Intercept          -3.64764110  -0.4692765
## b_muExpedited_Intercept        -6.02031118  -1.7718864
## b_muBribery_Coethnic            0.30493407   3.4709241
## b_muBribery_SES                -2.78314014   0.2838580
## b_muBribery_Power              -1.60237453   1.4558003
## b_muBribery_NumberOfficials     0.39088200   1.4815544
## b_muBribery_OtherCustomers     -3.37071328   0.6221881
## b_muExpedited_Coethnic          0.07543009   3.4959999
## b_muExpedited_SES              -2.09770156   0.8816095
## b_muExpedited_Power             1.08673438   4.8233648
## b_muExpedited_NumberOfficials   0.10960198   1.2104748
## b_muExpedited_OtherCustomers   -0.96880696   3.0933510
## lp__                         -87.69496560 -79.3610376
## attr(,"Probability")
## [1] 0.9
```

```
x9<-as.mcmc(bayesescom9)
HPDinterval(x9,0.9)
```

```
## [[1]]
##                                      lower       upper
## b_muBribery_Intercept          -3.78951975  -0.4820939
## b_muExpedited_Intercept        -6.14095605  -1.7093068
## b_muBribery_Coethnic            0.27772343   3.3985463
## b_muBribery_SES                -2.51506661   0.2647246
## b_muBribery_Power              -1.52752849   1.4987896
## b_muBribery_NumberOfficials     0.44385053   1.5960874
## b_muBribery_OtherCustomers     -3.43897611   0.3981042
## b_muExpedited_Coethnic          0.07850706   3.5010823
## b_muExpedited_SES              -1.90076654   1.1778316
## b_muExpedited_Power             0.97600344   4.6847700
## b_muExpedited_NumberOfficials   0.11363833   1.2924156
## b_muExpedited_OtherCustomers   -1.05274213   2.9266288
```

```
## lp__                           -87.16103053 -78.7988128
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.6032771  -0.5241207
## b_muExpedited_Intercept        -6.0047389  -1.8116607
## b_muBribery_Coethnic            0.2484765   3.4311152
## b_muBribery_SES                -2.5115427   0.3471633
## b_muBribery_Power              -1.6310932   1.3362254
## b_muBribery_NumberOfficials     0.3775650   1.4562333
## b_muBribery_OtherCustomers     -3.2537224   0.5882807
## b_muExpedited_Coethnic          0.1381970   3.4924725
## b_muExpedited_SES              -2.0347122   0.9414738
## b_muExpedited_Power             1.0584505   4.7533905
## b_muExpedited_NumberOfficials   0.1146519   1.1739798
## b_muExpedited_OtherCustomers   -0.7789177   2.9942550
## lp__                           -87.2059475 -79.2239383
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                       lower       upper
## b_muBribery_Intercept          -3.66742970  -0.2294365
## b_muExpedited_Intercept        -6.15938182  -1.6620010
## b_muBribery_Coethnic            0.17211373   3.3429168
## b_muBribery_SES                -2.72375529   0.2351081
## b_muBribery_Power              -1.60234746   1.3639917
## b_muBribery_NumberOfficials     0.42987513   1.4719825
## b_muBribery_OtherCustomers     -3.18293198   0.7462328
## b_muExpedited_Coethnic         -0.01241095   3.4248009
## b_muExpedited_SES              -2.08321375   0.8643528
## b_muExpedited_Power             1.22646591   4.8046574
## b_muExpedited_NumberOfficials   0.20383059   1.2836150
## b_muExpedited_OtherCustomers   -0.77815607   2.8606473
## lp__                           -87.46952180 -79.1913306
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.9356400  -0.6437317
## b_muExpedited_Intercept        -5.8777469  -1.6183958
## b_muBribery_Coethnic            0.3911310   3.4121969
## b_muBribery_SES                -2.6954572   0.2654031
## b_muBribery_Power              -1.7805668   1.3838971
## b_muBribery_NumberOfficials     0.3836893   1.4192468
## b_muBribery_OtherCustomers     -3.0856799   0.9564591
## b_muExpedited_Coethnic          0.2611583   3.5936855
## b_muExpedited_SES              -2.1401568   0.7815740
## b_muExpedited_Power             1.0401028   4.8916389
## b_muExpedited_NumberOfficials   0.1578396   1.1621997
## b_muExpedited_OtherCustomers   -0.8118451   3.1023526
```

```
## lp__                           -87.0428225 -78.8593333
## attr(,"Probability")
## [1] 0.9
```

```
xall9<-do.call(rbind,x9)
HPDinterval(mcmc(xall9),0.9)
```

```
##                                      lower       upper
## b_muBribery_Intercept          -3.79141089  -0.4924726
## b_muExpedited_Intercept        -6.13850257  -1.7769547
## b_muBribery_Coethnic            0.30614035   3.4536711
## b_muBribery_SES                -2.66636983   0.2607373
## b_muBribery_Power              -1.65891622   1.3838971
## b_muBribery_NumberOfficials     0.37565304   1.4627527
## b_muBribery_OtherCustomers     -3.26904517   0.6692894
## b_muExpedited_Coethnic          0.06515924   3.4597194
## b_muExpedited_SES              -2.10624263   0.8897700
## b_muExpedited_Power             1.05217046   4.7996178
## b_muExpedited_NumberOfficials   0.12227047   1.2150572
## b_muExpedited_OtherCustomers   -0.78035935   3.0757061
## lp__                          -87.32415758 -79.0339181
## attr(,"Probability")
## [1] 0.9
```

```
x10<-as.mcmc(bayesescom10)
HPDinterval(x10,0.9)
```

```
## [[1]]
##                                      lower       upper
## b_muBribery_Intercept          -3.5789956  -0.2475473
## b_muExpedited_Intercept        -6.2267004  -1.7544609
## b_muBribery_Coethnic            0.3312069   3.5154334
## b_muBribery_SES                -2.8019684   0.1605207
## b_muBribery_Power              -1.4918718   1.6035759
## b_muBribery_NumberOfficials     0.3963968   1.4946685
## b_muBribery_OtherCustomers     -3.3956055   0.5954510
## b_muExpedited_Coethnic          0.1054645   3.5611831
## b_muExpedited_SES              -2.1417022   0.8076119
## b_muExpedited_Power             1.0329684   4.8587038
## b_muExpedited_NumberOfficials   0.1221588   1.2271553
## b_muExpedited_OtherCustomers   -0.9048756   3.1129322
## lp__                          -87.3799700 -79.0613943
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.7117176  -0.5149449
## b_muExpedited_Intercept        -5.7782666  -1.7054577
## b_muBribery_Coethnic            0.1702548   3.5363396
## b_muBribery_SES                -2.6692554   0.2921189
## b_muBribery_Power              -1.4326968   1.5039708
## b_muBribery_NumberOfficials     0.3996246   1.4105492
## b_muBribery_OtherCustomers     -3.4092881   0.5374398
## b_muExpedited_Coethnic          0.2600856   3.5479167
```

```
## b_muExpedited_SES              -2.0337487   0.9793053
## b_muExpedited_Power             1.1806212   4.7618552
## b_muExpedited_NumberOfficials   0.1707003   1.1862562
## b_muExpedited_OtherCustomers   -0.8818267   2.9236563
## lp__                         -86.9002614 -79.3360396
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                     lower       upper
## b_muBribery_Intercept          -3.5915685  -0.5230782
## b_muExpedited_Intercept        -6.1174567  -1.7383955
## b_muBribery_Coethnic            0.2442698   3.3398549
## b_muBribery_SES                -2.6445203   0.2078796
## b_muBribery_Power              -1.5989181   1.4617944
## b_muBribery_NumberOfficials     0.3698060   1.4384681
## b_muBribery_OtherCustomers     -2.9952539   0.4858788
## b_muExpedited_Coethnic          0.1370034   3.5374539
## b_muExpedited_SES              -2.0929094   0.8578828
## b_muExpedited_Power             1.0465729   4.8211746
## b_muExpedited_NumberOfficials   0.1184301   1.2610021
## b_muExpedited_OtherCustomers   -0.9733819   2.8873246
## lp__                         -87.0963045 -79.0374419
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                     lower       upper
## b_muBribery_Intercept          -3.8741587  -0.5828612
## b_muExpedited_Intercept        -6.0315270  -1.7014132
## b_muBribery_Coethnic            0.3021505   3.5027720
## b_muBribery_SES                -2.5397391   0.4499422
## b_muBribery_Power              -1.4577912   1.4495087
## b_muBribery_NumberOfficials     0.4087386   1.4475922
## b_muBribery_OtherCustomers     -3.3548131   0.6231332
## b_muExpedited_Coethnic          0.1512372   3.5124797
## b_muExpedited_SES              -1.9889281   0.9974805
## b_muExpedited_Power             1.1319414   4.7514591
## b_muExpedited_NumberOfficials   0.1565561   1.1877748
## b_muExpedited_OtherCustomers   -1.0803881   2.9051136
## lp__                         -87.4674189 -79.1778108
## attr(,"Probability")
## [1] 0.9
```

```
xall10<-do.call(rbind,x10)
HPDinterval(mcmc(xall10),0.9)
```

```
##                                     lower       upper
## b_muBribery_Intercept          -3.6130903  -0.3584652
## b_muExpedited_Intercept        -6.0588311  -1.7046290
## b_muBribery_Coethnic            0.1780351   3.4155208
## b_muBribery_SES                -2.7573912   0.2274481
## b_muBribery_Power              -1.5512028   1.4688366
## b_muBribery_NumberOfficials     0.3847632   1.4516716
## b_muBribery_OtherCustomers     -3.1614458   0.6846729
```

```
## b_muExpedited_Coethnic          0.1640790   3.5625554
## b_muExpedited_SES              -2.0859944   0.9212251
## b_muExpedited_Power             1.0317048   4.7618552
## b_muExpedited_NumberOfficials   0.1147030   1.1943046
## b_muExpedited_OtherCustomers   -0.8644159   3.1015065
## lp__                         -87.1379472 -79.0374419
## attr(,"Probability")
## [1] 0.9
```

```
x11<-as.mcmc(bayesescom11)
HPDinterval(x11,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.715550730  -0.4618728
## b_muExpedited_Intercept        -5.946448390  -1.5737655
## b_muBribery_Coethnic            0.162899720   3.3837542
## b_muBribery_SES                -2.653737262   0.3098081
## b_muBribery_Power              -1.527933749   1.4593653
## b_muBribery_NumberOfficials     0.401349196   1.5447366
## b_muBribery_OtherCustomers     -3.471139683   0.5389717
## b_muExpedited_Coethnic         -0.005986596   3.3572509
## b_muExpedited_SES              -2.296838395   0.6629544
## b_muExpedited_Power             0.924120970   4.7493043
## b_muExpedited_NumberOfficials   0.127062193   1.2103623
## b_muExpedited_OtherCustomers   -0.814433152   3.0547277
## lp__                         -87.061532419 -78.8331389
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.5925509  -0.2596034
## b_muExpedited_Intercept        -5.8915911  -1.8783569
## b_muBribery_Coethnic            0.3553137   3.4657728
## b_muBribery_SES                -2.8375748   0.3446541
## b_muBribery_Power              -1.4019000   1.5822873
## b_muBribery_NumberOfficials     0.3813249   1.4754325
## b_muBribery_OtherCustomers     -3.5572333   0.5933573
## b_muExpedited_Coethnic          0.1675157   3.6024532
## b_muExpedited_SES              -2.0075679   1.0323864
## b_muExpedited_Power             1.1130895   4.4644728
## b_muExpedited_NumberOfficials   0.1896200   1.2809391
## b_muExpedited_OtherCustomers   -0.7001104   3.1012338
## lp__                         -86.7640169 -78.5577190
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -3.7240203  -0.4036764
## b_muExpedited_Intercept        -5.8897579  -1.5105492
## b_muBribery_Coethnic            0.2651380   3.2231884
## b_muBribery_SES                -2.8960438   0.2318686
## b_muBribery_Power              -1.7358247   1.3020701
```

```
## b_muBribery_NumberOfficials     0.4460138   1.5543822
## b_muBribery_OtherCustomers     -3.6232624   0.5272543
## b_muExpedited_Coethnic          0.1777456   3.3635767
## b_muExpedited_SES              -2.0479563   0.7832602
## b_muExpedited_Power             0.8511057   4.5889972
## b_muExpedited_NumberOfficials   0.1409791   1.2206218
## b_muExpedited_OtherCustomers   -0.8762123   2.9554876
## lp__                         -87.2350659 -79.1280050
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                     lower       upper
## b_muBribery_Intercept          -3.6781411  -0.4200322
## b_muExpedited_Intercept        -6.1503335  -1.6754265
## b_muBribery_Coethnic            0.3352426   3.4287782
## b_muBribery_SES                -2.7770163   0.2677755
## b_muBribery_Power              -1.4234914   1.4863393
## b_muBribery_NumberOfficials     0.3584787   1.4252452
## b_muBribery_OtherCustomers     -3.2036462   0.6499885
## b_muExpedited_Coethnic          0.1197719   3.3742516
## b_muExpedited_SES              -2.0406821   0.8292539
## b_muExpedited_Power             1.0390066   4.8095818
## b_muExpedited_NumberOfficials   0.1171313   1.1937966
## b_muExpedited_OtherCustomers   -0.7693859   2.9621173
## lp__                         -86.7887827 -78.6598463
## attr(,"Probability")
## [1] 0.9
```

```
xall11<-do.call(rbind,x11)
HPDinterval(mcmc(xall11),0.9)
```

```
##                                     lower       upper
## b_muBribery_Intercept          -3.69143087  -0.3825910
## b_muExpedited_Intercept        -5.96125929  -1.6187477
## b_muBribery_Coethnic            0.26010335   3.3770510
## b_muBribery_SES                -2.79366759   0.3190300
## b_muBribery_Power              -1.55664161   1.4537339
## b_muBribery_NumberOfficials     0.36602237   1.4874730
## b_muBribery_OtherCustomers     -3.50476385   0.5529851
## b_muExpedited_Coethnic          0.05324079   3.3973620
## b_muExpedited_SES              -2.04931480   0.8789826
## b_muExpedited_Power             0.89796698   4.5805845
## b_muExpedited_NumberOfficials   0.11903348   1.2145942
## b_muExpedited_OtherCustomers   -0.85620896   2.9752797
## lp__                         -86.80079650 -78.5945121
## attr(,"Probability")
## [1] 0.9
```

```
x12<-as.mcmc(bayesescom12)
HPDinterval(x12,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -3.5983422  -0.3890942
```

```
## b_muExpedited_Intercept        -5.8000794  -1.5049991
## b_muBribery_Coethnic            0.1609624   3.2451794
## b_muBribery_SES                -2.8975571   0.1935969
## b_muBribery_Power              -1.5186428   1.4809421
## b_muBribery_NumberOfficials     0.4373757   1.5675442
## b_muBribery_OtherCustomers     -3.4983153   0.7643037
## b_muExpedited_Coethnic          0.0845423   3.4633807
## b_muExpedited_SES              -2.1426632   0.8154845
## b_muExpedited_Power             1.0584280   4.6229394
## b_muExpedited_NumberOfficials   0.1632530   1.2826447
## b_muExpedited_OtherCustomers   -1.0456203   2.9621473
## lp__                         -86.7523473 -78.4978809
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.64679263  -0.6583376
## b_muExpedited_Intercept        -6.02616950  -1.7217553
## b_muBribery_Coethnic            0.05574387   3.2714222
## b_muBribery_SES                -2.75926566   0.1763585
## b_muBribery_Power              -1.46091431   1.5046788
## b_muBribery_NumberOfficials     0.44122570   1.4556279
## b_muBribery_OtherCustomers     -3.22163011   0.5698630
## b_muExpedited_Coethnic          0.05691892   3.5622590
## b_muExpedited_SES              -2.17322184   0.7082317
## b_muExpedited_Power             1.12349112   4.8178188
## b_muExpedited_NumberOfficials   0.19225071   1.2601492
## b_muExpedited_OtherCustomers   -1.04237417   3.0050167
## lp__                         -86.05540779 -78.3471320
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.5656336  -0.5781880
## b_muExpedited_Intercept        -5.9769948  -1.7026032
## b_muBribery_Coethnic            0.3204303   3.5177810
## b_muBribery_SES                -2.7082354   0.2875777
## b_muBribery_Power              -1.4312094   1.4915645
## b_muBribery_NumberOfficials     0.4069490   1.4275285
## b_muBribery_OtherCustomers     -3.3967393   0.5405828
## b_muExpedited_Coethnic          0.1233552   3.3326238
## b_muExpedited_SES              -2.1677058   0.7358607
## b_muExpedited_Power             1.0326762   4.6384583
## b_muExpedited_NumberOfficials   0.1581058   1.2375141
## b_muExpedited_OtherCustomers   -0.8515310   2.9794060
## lp__                         -86.4190033 -78.6286106
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.64983121  -0.2452125
```

```
## b_muExpedited_Intercept        -5.79074383  -1.8518297
## b_muBribery_Coethnic            0.35518948   3.5914200
## b_muBribery_SES                -2.67022930   0.2894083
## b_muBribery_Power              -1.54455183   1.4360597
## b_muBribery_NumberOfficials     0.39833027   1.5144146
## b_muBribery_OtherCustomers     -3.31704521   0.5758699
## b_muExpedited_Coethnic         -0.01711195   3.4510001
## b_muExpedited_SES              -2.11897199   0.8689299
## b_muExpedited_Power             1.11757849   4.7036318
## b_muExpedited_NumberOfficials   0.16089341   1.2964187
## b_muExpedited_OtherCustomers   -0.85809452   3.2372025
## lp__                         -86.80982757 -78.5039662
## attr(,"Probability")
## [1] 0.9
```

```
xall12<-do.call(rbind,x12)
HPDinterval(mcmc(xall12),0.9)
```

```
##                                      lower       upper
## b_muBribery_Intercept          -3.65432714  -0.4578054
## b_muExpedited_Intercept        -5.87879811  -1.6366402
## b_muBribery_Coethnic            0.30342514   3.5196630
## b_muBribery_SES                -2.78647338   0.2153098
## b_muBribery_Power              -1.49292810   1.4895384
## b_muBribery_NumberOfficials     0.39166044   1.4811091
## b_muBribery_OtherCustomers     -3.39673928   0.5814676
## b_muExpedited_Coethnic          0.06498469   3.4910520
## b_muExpedited_SES              -2.12163469   0.8223026
## b_muExpedited_Power             1.07229926   4.7002377
## b_muExpedited_NumberOfficials   0.15724487   1.2574532
## b_muExpedited_OtherCustomers   -1.01173606   2.9854848
## lp__                         -86.55525972 -78.4888990
## attr(,"Probability")
## [1] 0.9
```

```
x13<-as.mcmc(bayesescom13)
HPDinterval(x13,0.9)
```

```
## [[1]]
##                                      lower       upper
## b_muBribery_Intercept          -3.61000873  -0.3276965
## b_muExpedited_Intercept        -5.97243930  -1.6365097
## b_muBribery_Coethnic            0.15823229   3.1935380
## b_muBribery_SES                -2.54085391   0.4117767
## b_muBribery_Power              -1.46657952   1.5322766
## b_muBribery_NumberOfficials     0.38327431   1.5004006
## b_muBribery_OtherCustomers     -3.51833744   0.7659292
## b_muExpedited_Coethnic          0.08681971   3.5629731
## b_muExpedited_SES              -1.96878304   0.9727943
## b_muExpedited_Power             0.92651858   4.6721793
## b_muExpedited_NumberOfficials   0.12624473   1.2628903
## b_muExpedited_OtherCustomers   -0.87972436   2.9885853
## lp__                         -87.06527164 -78.4439623
## attr(,"Probability")
## [1] 0.9
```

```
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.60956532  -0.3480387
## b_muExpedited_Intercept        -6.01354056  -1.3998660
## b_muBribery_Coethnic            0.20408463   3.3680061
## b_muBribery_SES                -2.66038783   0.2704368
## b_muBribery_Power              -1.62226270   1.4170050
## b_muBribery_NumberOfficials     0.38661316   1.4726087
## b_muBribery_OtherCustomers     -3.39454135   0.7053103
## b_muExpedited_Coethnic          0.01054068   3.3763378
## b_muExpedited_SES              -2.00608900   0.9345351
## b_muExpedited_Power             0.99071742   4.7621417
## b_muExpedited_NumberOfficials   0.18865260   1.3581222
## b_muExpedited_OtherCustomers   -0.82500721   3.1200587
## lp__                         -86.76023636 -78.1507504
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.6680851  -0.2862841
## b_muExpedited_Intercept        -6.3154863  -1.7098278
## b_muBribery_Coethnic            0.3124601   3.4244651
## b_muBribery_SES                -2.6576888   0.4899057
## b_muBribery_Power              -1.7671485   1.3890336
## b_muBribery_NumberOfficials     0.4280939   1.5588473
## b_muBribery_OtherCustomers     -3.3940507   0.6657604
## b_muExpedited_Coethnic          0.1938763   3.5748716
## b_muExpedited_SES              -2.0684913   0.9371841
## b_muExpedited_Power             1.2192028   4.9378687
## b_muExpedited_NumberOfficials   0.1056769   1.3040883
## b_muExpedited_OtherCustomers   -1.2504521   2.6551369
## lp__                         -86.4703948 -78.2380528
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.8088861  -0.4474268
## b_muExpedited_Intercept        -6.3942710  -1.8719462
## b_muBribery_Coethnic            0.3715058   3.5132748
## b_muBribery_SES                -2.7930672   0.2625433
## b_muBribery_Power              -1.6120982   1.4079446
## b_muBribery_NumberOfficials     0.3523955   1.4807700
## b_muBribery_OtherCustomers     -3.0073629   0.8152511
## b_muExpedited_Coethnic          0.2523742   3.6938977
## b_muExpedited_SES              -2.0625489   0.8736138
## b_muExpedited_Power             1.1436300   5.0606387
## b_muExpedited_NumberOfficials   0.1302924   1.2417729
## b_muExpedited_OtherCustomers   -0.9465650   3.1217707
## lp__                         -86.5601927 -78.1877919
## attr(,"Probability")
## [1] 0.9
```

```
xall13<-do.call(rbind,x13)
HPDinterval(mcmc(xall13),0.9)
```

```
##                                     lower       upper
## b_muBribery_Intercept          -3.61000873  -0.2818098
## b_muExpedited_Intercept        -6.04834203  -1.4917156
## b_muBribery_Coethnic            0.23890789   3.3801526
## b_muBribery_SES                -2.70864705   0.3266151
## b_muBribery_Power              -1.62226270   1.4515077
## b_muBribery_NumberOfficials     0.37097214   1.5019334
## b_muBribery_OtherCustomers     -3.23399771   0.8808451
## b_muExpedited_Coethnic          0.08420953   3.5360190
## b_muExpedited_SES              -2.03374818   0.9345351
## b_muExpedited_Power             0.92757636   4.7478987
## b_muExpedited_NumberOfficials   0.13024309   1.2929155
## b_muExpedited_OtherCustomers   -0.90619786   3.0800803
## lp__                         -86.76023636 -78.2759958
## attr(,"Probability")
## [1] 0.9
```

```
x14<-as.mcmc(bayesescom14)
HPDinterval(x14,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -3.4518068  -0.3559948
## b_muExpedited_Intercept        -5.9058575  -1.5755362
## b_muBribery_Coethnic            0.1971906   3.3477882
## b_muBribery_SES                -2.5236972   0.3863394
## b_muBribery_Power              -1.6259759   1.3960982
## b_muBribery_NumberOfficials     0.3923261   1.4295179
## b_muBribery_OtherCustomers     -3.4516841   0.6460244
## b_muExpedited_Coethnic          0.1927430   3.4411063
## b_muExpedited_SES              -2.2019450   0.8209376
## b_muExpedited_Power             1.1402014   4.7518776
## b_muExpedited_NumberOfficials   0.1682697   1.1618482
## b_muExpedited_OtherCustomers   -1.0215545   2.7598539
## lp__                         -86.2724529 -77.8508915
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                     lower       upper
## b_muBribery_Intercept          -3.52738479  -0.4649906
## b_muExpedited_Intercept        -5.76708516  -1.4004101
## b_muBribery_Coethnic            0.14802403   3.2388772
## b_muBribery_SES                -2.58478248   0.2603344
## b_muBribery_Power              -1.64586041   1.2798337
## b_muBribery_NumberOfficials     0.39289787   1.4109896
## b_muBribery_OtherCustomers     -3.33300270   0.6316807
## b_muExpedited_Coethnic          0.09858118   3.4174437
## b_muExpedited_SES              -2.06435813   0.7582939
## b_muExpedited_Power             0.88977702   4.6050811
## b_muExpedited_NumberOfficials   0.21717102   1.3361712
```

```
## b_muExpedited_OtherCustomers   -0.75700750   2.9720280
## lp__                          -85.93802848 -78.0559947
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                     lower       upper
## b_muBribery_Intercept          -3.6145320  -0.6018723
## b_muExpedited_Intercept        -5.8933148  -1.6638351
## b_muBribery_Coethnic            0.2966608   3.3711515
## b_muBribery_SES                -2.6904665   0.2592840
## b_muBribery_Power              -1.5402372   1.3208196
## b_muBribery_NumberOfficials     0.4019925   1.4599062
## b_muBribery_OtherCustomers     -3.3087786   0.5216353
## b_muExpedited_Coethnic          0.1929745   3.5330734
## b_muExpedited_SES              -1.9129563   0.9645376
## b_muExpedited_Power             0.9493007   4.6646198
## b_muExpedited_NumberOfficials   0.0854605   1.1892063
## b_muExpedited_OtherCustomers   -0.9764844   2.9770319
## lp__                          -86.4273050 -77.9587173
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                     lower       upper
## b_muBribery_Intercept          -3.6074122  -0.5319570
## b_muExpedited_Intercept        -5.7703578  -1.5841385
## b_muBribery_Coethnic            0.3809015   3.3523426
## b_muBribery_SES                -2.6928475   0.2883199
## b_muBribery_Power              -1.6146174   1.4769271
## b_muBribery_NumberOfficials     0.4193694   1.5168549
## b_muBribery_OtherCustomers     -3.2956313   0.8657708
## b_muExpedited_Coethnic         -0.0887163   3.3674676
## b_muExpedited_SES              -1.8041906   0.9942101
## b_muExpedited_Power             0.7918906   4.4795401
## b_muExpedited_NumberOfficials   0.1387018   1.2050087
## b_muExpedited_OtherCustomers   -0.9412690   2.9911188
## lp__                          -86.1880929 -78.0491262
## attr(,"Probability")
## [1] 0.9
```

```
xall14<-do.call(rbind,x14)
HPDinterval(mcmc(xall14),0.9)
```

```
##                                     lower       upper
## b_muBribery_Intercept          -3.6193517  -0.5137585
## b_muExpedited_Intercept        -5.9058575  -1.6175201
## b_muBribery_Coethnic            0.2917957   3.3711515
## b_muBribery_SES                -2.5847825   0.3528903
## b_muBribery_Power              -1.6308086   1.3574210
## b_muBribery_NumberOfficials     0.3899692   1.4490179
## b_muBribery_OtherCustomers     -3.3687967   0.6478950
## b_muExpedited_Coethnic          0.1530616   3.5163162
## b_muExpedited_SES              -2.0835727   0.8299691
## b_muExpedited_Power             0.9593806   4.6646198
```

```
## b_muExpedited_NumberOfficials   0.1193343   1.2045978
## b_muExpedited_OtherCustomers   -0.9043885   2.9720280
## lp__                         -86.2732504 -78.0075311
## attr(,"Probability")
## [1] 0.9
```

```
x15<-as.mcmc(bayesescom15)
HPDinterval(x15,0.9)
```

```
## [[1]]
##                                    lower        upper
## b_muBribery_Intercept          -3.6765541  -0.36767098
## b_muExpedited_Intercept        -6.1032776  -1.74644593
## b_muBribery_Coethnic            0.3795877   3.57290095
## b_muBribery_SES                -2.7555834   0.09214702
## b_muBribery_Power              -1.6830255   1.44880401
## b_muBribery_NumberOfficials     0.3853824   1.46646077
## b_muBribery_OtherCustomers     -3.2532988   0.62093633
## b_muExpedited_Coethnic          0.1937035   3.58272819
## b_muExpedited_SES              -2.0336509   0.77102910
## b_muExpedited_Power             1.1640555   4.84960591
## b_muExpedited_NumberOfficials   0.1365359   1.25416548
## b_muExpedited_OtherCustomers   -0.7934974   3.14522957
## lp__                         -86.1735271 -78.28140928
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                     lower       upper
## b_muBribery_Intercept          -3.67416448  -0.6121986
## b_muExpedited_Intercept        -6.18702261  -1.7624064
## b_muBribery_Coethnic            0.04703466   3.2951878
## b_muBribery_SES                -2.85954150   0.1772370
## b_muBribery_Power              -1.78941713   1.3724165
## b_muBribery_NumberOfficials     0.38881113   1.4413029
## b_muBribery_OtherCustomers     -3.31943917   0.5827177
## b_muExpedited_Coethnic         -0.02290147   3.5291776
## b_muExpedited_SES              -2.02958456   1.0139195
## b_muExpedited_Power             1.03584138   4.9625003
## b_muExpedited_NumberOfficials   0.12639336   1.1651370
## b_muExpedited_OtherCustomers   -0.88860376   3.1337489
## lp__                         -86.01987475 -77.9012949
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -3.5110200  -0.5647227
## b_muExpedited_Intercept        -5.8508401  -1.7710197
## b_muBribery_Coethnic            0.3205847   3.2630113
## b_muBribery_SES                -2.6308531   0.2768230
## b_muBribery_Power              -1.4971959   1.3880135
## b_muBribery_NumberOfficials     0.3831576   1.4787484
## b_muBribery_OtherCustomers     -3.5078779   0.5433561
## b_muExpedited_Coethnic          0.1703588   3.6095683
```

```
## b_muExpedited_SES              -1.8620097   1.0432308
## b_muExpedited_Power             1.1555138   4.5544249
## b_muExpedited_NumberOfficials   0.1313776   1.2407438
## b_muExpedited_OtherCustomers   -1.0134402   2.7855087
## lp__                         -85.8724547 -77.7526884
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                    lower       upper
## b_muBribery_Intercept          -3.7860041  -0.6638124
## b_muExpedited_Intercept        -5.9507178  -1.4929071
## b_muBribery_Coethnic            0.2996376   3.3025393
## b_muBribery_SES                -2.8697249   0.1329970
## b_muBribery_Power              -1.6280889   1.4767238
## b_muBribery_NumberOfficials     0.4560156   1.5341731
## b_muBribery_OtherCustomers     -3.5852022   0.6157840
## b_muExpedited_Coethnic          0.2135915   3.4854493
## b_muExpedited_SES              -2.1737663   0.8736537
## b_muExpedited_Power             1.0688163   5.0072229
## b_muExpedited_NumberOfficials   0.1307138   1.2099404
## b_muExpedited_OtherCustomers   -0.9747996   3.1382103
## lp__                         -86.5135412 -77.8739220
## attr(,"Probability")
## [1] 0.9
```

```
xall15<-do.call(rbind,x15)
HPDinterval(mcmc(xall15),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.5578805  -0.4197669
## b_muExpedited_Intercept        -6.1053481  -1.7242594
## b_muBribery_Coethnic            0.2881941   3.4401063
## b_muBribery_SES                -2.7143824   0.2527821
## b_muBribery_Power              -1.6282273   1.4497108
## b_muBribery_NumberOfficials     0.3831576   1.4669381
## b_muBribery_OtherCustomers     -3.2663225   0.7839367
## b_muExpedited_Coethnic          0.1703588   3.5913134
## b_muExpedited_SES              -2.0784394   0.8944535
## b_muExpedited_Power             1.0859741   4.8618519
## b_muExpedited_NumberOfficials   0.1286358   1.2175225
## b_muExpedited_OtherCustomers   -0.8524851   3.1702789
## lp__                         -86.0518635 -77.8342514
## attr(,"Probability")
## [1] 0.9
```

```
x16<-as.mcmc(bayesescom16)
HPDinterval(x16,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.5427121  -0.3811429
## b_muExpedited_Intercept        -5.8940502  -1.8988541
## b_muBribery_Coethnic            0.3497089   3.4558126
## b_muBribery_SES                -2.6113454   0.1954367
```

```
## b_muBribery_Power              -1.5679209   1.3229120
## b_muBribery_NumberOfficials     0.4119590   1.5080425
## b_muBribery_OtherCustomers     -3.1761679   0.6570775
## b_muExpedited_Coethnic          0.1301337   3.4897281
## b_muExpedited_SES              -2.1005671   0.8373838
## b_muExpedited_Power             1.0907851   4.6207410
## b_muExpedited_NumberOfficials   0.1207504   1.2490856
## b_muExpedited_OtherCustomers   -0.8508758   2.8997784
## lp__                         -85.7473699 -77.7449447
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.9170424  -0.5843144
## b_muExpedited_Intercept        -6.0291203  -1.6399145
## b_muBribery_Coethnic            0.3386165   3.4977419
## b_muBribery_SES                -2.6808191   0.4019945
## b_muBribery_Power              -1.5605741   1.5142153
## b_muBribery_NumberOfficials     0.4241855   1.5445245
## b_muBribery_OtherCustomers     -3.3957234   0.5400498
## b_muExpedited_Coethnic          0.2344705   3.6909223
## b_muExpedited_SES              -1.9566813   0.9970190
## b_muExpedited_Power             1.0497781   4.8524891
## b_muExpedited_NumberOfficials   0.1049650   1.2051721
## b_muExpedited_OtherCustomers   -0.8976833   3.0185157
## lp__                         -86.2225910 -78.1172467
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -3.8054082  -0.4713311
## b_muExpedited_Intercept        -5.9648352  -1.5046216
## b_muBribery_Coethnic            0.2512623   3.1909269
## b_muBribery_SES                -2.5547803   0.3342768
## b_muBribery_Power              -1.5354625   1.4107078
## b_muBribery_NumberOfficials     0.3878183   1.4228773
## b_muBribery_OtherCustomers     -3.3378936   0.4876055
## b_muExpedited_Coethnic          0.2664037   3.4567618
## b_muExpedited_SES              -1.8900932   0.9732978
## b_muExpedited_Power             0.9526108   4.6343771
## b_muExpedited_NumberOfficials   0.1473253   1.1756167
## b_muExpedited_OtherCustomers   -0.8055164   3.1191885
## lp__                         -85.4377093 -77.8349749
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                    lower       upper
## b_muBribery_Intercept          -3.67511192  -0.4909413
## b_muExpedited_Intercept        -5.85431252  -1.4944746
## b_muBribery_Coethnic            0.27073720   3.5059931
## b_muBribery_SES                -2.60903857   0.3679251
```

```
## b_muBribery_Power              -1.60979823   1.3861888
## b_muBribery_NumberOfficials     0.45864069   1.5064588
## b_muBribery_OtherCustomers     -3.25996260   0.8038371
## b_muExpedited_Coethnic          0.02381242   3.5125824
## b_muExpedited_SES              -1.95245568   0.9792091
## b_muExpedited_Power             1.06181268   4.7102009
## b_muExpedited_NumberOfficials   0.15273184   1.2433460
## b_muExpedited_OtherCustomers   -1.02038498   2.9879239
## lp__                         -86.03595196 -77.8696482
## attr(,"Probability")
## [1] 0.9
```

```
xall16<-do.call(rbind,x16)
HPDinterval(mcmc(xall16),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.75701982  -0.4710178
## b_muExpedited_Intercept        -5.98669572  -1.6542930
## b_muBribery_Coethnic            0.33333031   3.4564612
## b_muBribery_SES                -2.61660795   0.3288824
## b_muBribery_Power              -1.59360861   1.3832869
## b_muBribery_NumberOfficials     0.43949015   1.5232235
## b_muBribery_OtherCustomers     -3.32632250   0.6122837
## b_muExpedited_Coethnic          0.07455029   3.4835671
## b_muExpedited_SES              -1.96036403   0.9732978
## b_muExpedited_Power             1.03668245   4.7044050
## b_muExpedited_NumberOfficials   0.13201937   1.2237027
## b_muExpedited_OtherCustomers   -0.96607624   2.9627494
## lp__                         -85.87493272 -77.8349749
## attr(,"Probability")
## [1] 0.9
```

```
x17<-as.mcmc(bayesescom17)
HPDinterval(x17,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.49593703  -0.2636405
## b_muExpedited_Intercept        -6.00561502  -1.8209152
## b_muBribery_Coethnic            0.27102276   3.3550904
## b_muBribery_SES                -2.62382973   0.3149221
## b_muBribery_Power              -1.57193373   1.3104643
## b_muBribery_NumberOfficials     0.41825000   1.4849785
## b_muBribery_OtherCustomers     -3.30745886   0.6305862
## b_muExpedited_Coethnic          0.09610642   3.3897815
## b_muExpedited_SES              -1.94238165   0.9365855
## b_muExpedited_Power             1.01778471   4.6572553
## b_muExpedited_NumberOfficials   0.13836065   1.2190202
## b_muExpedited_OtherCustomers   -1.04317296   2.8911140
## lp__                         -85.45492175 -77.1786862
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
```

```
## b_muBribery_Intercept          -3.91204857  -0.5081524
## b_muExpedited_Intercept        -6.12359132  -1.7793999
## b_muBribery_Coethnic            0.22728478   3.5976522
## b_muBribery_SES                -2.90109339   0.2422031
## b_muBribery_Power              -1.55704661   1.4108655
## b_muBribery_NumberOfficials     0.40879488   1.5025198
## b_muBribery_OtherCustomers     -3.39409856   0.5776735
## b_muExpedited_Coethnic         -0.02940578   3.4399342
## b_muExpedited_SES              -2.09917529   0.9443071
## b_muExpedited_Power             0.85654235   4.4708942
## b_muExpedited_NumberOfficials   0.13323699   1.2557163
## b_muExpedited_OtherCustomers   -0.91608485   2.9844700
## lp__                         -85.53384683 -77.1828537
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.716783941  -0.4154390
## b_muExpedited_Intercept        -6.007927393  -1.7544366
## b_muBribery_Coethnic            0.247303533   3.4132568
## b_muBribery_SES                -2.670801396   0.2499649
## b_muBribery_Power              -1.750426422   1.2894573
## b_muBribery_NumberOfficials     0.398932795   1.4893286
## b_muBribery_OtherCustomers     -3.242124991   0.6478201
## b_muExpedited_Coethnic         -0.004566061   3.4019018
## b_muExpedited_SES              -1.989019458   0.9384202
## b_muExpedited_Power             0.903570527   4.6416164
## b_muExpedited_NumberOfficials   0.151652162   1.2164052
## b_muExpedited_OtherCustomers   -0.977993879   3.0024736
## lp__                         -85.010401586 -77.2625980
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.63007911  -0.3902835
## b_muExpedited_Intercept        -6.18303792  -1.9198084
## b_muBribery_Coethnic            0.26481114   3.4664371
## b_muBribery_SES                -2.48132944   0.4010501
## b_muBribery_Power              -1.56512543   1.4064281
## b_muBribery_NumberOfficials     0.39072226   1.5317198
## b_muBribery_OtherCustomers     -3.61183247   0.5256087
## b_muExpedited_Coethnic         -0.02030615   3.3774603
## b_muExpedited_SES              -2.07791441   0.8777497
## b_muExpedited_Power             1.14927104   4.8721468
## b_muExpedited_NumberOfficials   0.11930590   1.2387391
## b_muExpedited_OtherCustomers   -0.91472915   3.1188168
## lp__                         -86.00243984 -77.4498061
## attr(,"Probability")
## [1] 0.9
```

```
xall17<-do.call(rbind,x17)
HPDinterval(mcmc(xall17),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.79603771  -0.4618629
## b_muExpedited_Intercept        -6.08319380  -1.7942482
## b_muBribery_Coethnic            0.20187996   3.4183540
## b_muBribery_SES                -2.67339245   0.3208387
## b_muBribery_Power              -1.65180065   1.3367623
## b_muBribery_NumberOfficials     0.39893280   1.5037832
## b_muBribery_OtherCustomers     -3.36474814   0.6380748
## b_muExpedited_Coethnic         -0.04483056   3.3396317
## b_muExpedited_SES              -2.02184463   0.9384202
## b_muExpedited_Power             0.93420774   4.6266390
## b_muExpedited_NumberOfficials   0.13559161   1.2364784
## b_muExpedited_OtherCustomers   -0.97802169   3.0024736
## lp__                         -85.43601436 -77.1786862
## attr(,"Probability")
## [1] 0.9
```

```
x18<-as.mcmc(bayesescom18)
HPDinterval(x18,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept         -3.647153e+00  -0.5371212
## b_muExpedited_Intercept       -5.991425e+00  -1.4282646
## b_muBribery_Coethnic           3.555624e-02   3.1954013
## b_muBribery_SES               -2.447995e+00   0.3213397
## b_muBribery_Power             -1.454215e+00   1.5226884
## b_muBribery_NumberOfficials    3.916022e-01   1.5019849
## b_muBribery_OtherCustomers    -3.358342e+00   0.5846038
## b_muExpedited_Coethnic         9.361677e-04   3.2782897
## b_muExpedited_SES             -1.901764e+00   0.8677901
## b_muExpedited_Power            1.146488e+00   4.9513868
## b_muExpedited_NumberOfficials  2.687589e-02   1.1905641
## b_muExpedited_OtherCustomers  -7.328034e-01   3.3872957
## lp__                          -8.475984e+01 -76.3095601
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.516411720  -0.4401514
## b_muExpedited_Intercept        -5.962797983  -1.7053641
## b_muBribery_Coethnic            0.001849526   3.2664373
## b_muBribery_SES                -2.756772408   0.2691234
## b_muBribery_Power              -1.573521865   1.3587924
## b_muBribery_NumberOfficials     0.320934490   1.4441819
## b_muBribery_OtherCustomers     -3.281442175   0.6797022
## b_muExpedited_Coethnic          0.176749095   3.5811129
## b_muExpedited_SES              -1.911895490   0.9521989
## b_muExpedited_Power             0.969551435   4.6143027
## b_muExpedited_NumberOfficials   0.102887906   1.1911547
## b_muExpedited_OtherCustomers   -1.019568960   3.0549364
## lp__                         -85.347242386 -77.3535685
## attr(,"Probability")
## [1] 0.9
```

```
##
## [[3]]
##                                     lower       upper
## b_muBribery_Intercept          -3.8279010  -0.4981883
## b_muExpedited_Intercept        -5.8942225  -1.6156146
## b_muBribery_Coethnic            0.3097390   3.6288903
## b_muBribery_SES                -2.5457555   0.2763212
## b_muBribery_Power              -1.5582825   1.3841536
## b_muBribery_NumberOfficials     0.4822654   1.5166046
## b_muBribery_OtherCustomers     -3.4766649   0.5167143
## b_muExpedited_Coethnic          0.1552920   3.6454320
## b_muExpedited_SES              -2.0307506   0.8275964
## b_muExpedited_Power             0.8722869   4.5404006
## b_muExpedited_NumberOfficials   0.1530311   1.1443773
## b_muExpedited_OtherCustomers   -0.7701191   3.2198786
## lp__                         -85.3366510 -76.9205862
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                     lower       upper
## b_muBribery_Intercept          -3.65808804  -0.5053726
## b_muExpedited_Intercept        -6.06248436  -1.8478425
## b_muBribery_Coethnic            0.22079958   3.1847844
## b_muBribery_SES                -2.63390291   0.3066441
## b_muBribery_Power              -1.39442497   1.7422656
## b_muBribery_NumberOfficials     0.44900983   1.4854861
## b_muBribery_OtherCustomers     -3.42341740   0.6002321
## b_muExpedited_Coethnic          0.20570307   3.5090779
## b_muExpedited_SES              -2.07029096   0.9346468
## b_muExpedited_Power             0.91464766   4.6773721
## b_muExpedited_NumberOfficials   0.08404403   1.2065920
## b_muExpedited_OtherCustomers   -0.98035927   2.9201739
## lp__                         -85.19164587 -77.2073953
## attr(,"Probability")
## [1] 0.9
```

```
xall18<-do.call(rbind,x18)
HPDinterval(mcmc(xall18),0.9)
```

```
##                                     lower       upper
## b_muBribery_Intercept          -3.6693430  -0.4856989
## b_muExpedited_Intercept        -5.9528102  -1.5765147
## b_muBribery_Coethnic            0.2137229   3.4429750
## b_muBribery_SES                -2.6455361   0.2697305
## b_muBribery_Power              -1.5928351   1.4340511
## b_muBribery_NumberOfficials     0.4249788   1.5045733
## b_muBribery_OtherCustomers     -3.3754680   0.6191412
## b_muExpedited_Coethnic          0.1484186   3.5479136
## b_muExpedited_SES              -2.0103291   0.8709611
## b_muExpedited_Power             0.8846921   4.6524527
## b_muExpedited_NumberOfficials   0.1817675   1.2825887
## b_muExpedited_OtherCustomers   -1.0195690   3.0280913
## lp__                         -85.3068984 -77.0712444
## attr(,"Probability")
```

```
## [1] 0.9
```

```
x19<-as.mcmc(bayesescom19)
HPDinterval(x19,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -3.69402195  -0.3565845
## b_muExpedited_Intercept        -6.06535150  -1.8357599
## b_muBribery_Coethnic           -0.09183527   3.3061228
## b_muBribery_SES                -2.69486486   0.1309471
## b_muBribery_Power              -1.39050579   1.4874731
## b_muBribery_NumberOfficials     0.46467389   1.5258662
## b_muBribery_OtherCustomers     -3.24820553   0.4647232
## b_muExpedited_Coethnic          0.03741124   3.5031094
## b_muExpedited_SES              -1.88613877   0.8899942
## b_muExpedited_Power             1.16142698   4.7516997
## b_muExpedited_NumberOfficials   0.10588452   1.1716168
## b_muExpedited_OtherCustomers   -0.96067720   2.8705898
## lp__                         -84.64515031 -76.4115977
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                     lower       upper
## b_muBribery_Intercept          -3.65905320  -0.3646047
## b_muExpedited_Intercept        -6.08950267  -1.6552881
## b_muBribery_Coethnic            0.01086134   3.1715364
## b_muBribery_SES                -2.76452350   0.1778826
## b_muBribery_Power              -1.40570253   1.5765351
## b_muBribery_NumberOfficials     0.38922022   1.5046540
## b_muBribery_OtherCustomers     -3.27398667   0.5779241
## b_muExpedited_Coethnic         -0.06146591   3.3112495
## b_muExpedited_SES              -2.02213074   0.7221811
## b_muExpedited_Power             1.11831647   4.6720588
## b_muExpedited_NumberOfficials   0.15838974   1.2234377
## b_muExpedited_OtherCustomers   -0.95498439   2.8624422
## lp__                         -84.84167825 -76.3834614
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                     lower       upper
## b_muBribery_Intercept          -3.7662713  -0.4984697
## b_muExpedited_Intercept        -6.0283044  -1.8402072
## b_muBribery_Coethnic            0.2710902   3.4258862
## b_muBribery_SES                -2.7130288   0.2422936
## b_muBribery_Power              -1.8248334   1.3463361
## b_muBribery_NumberOfficials     0.3768508   1.4713016
## b_muBribery_OtherCustomers     -3.2050507   0.6637587
## b_muExpedited_Coethnic          0.1503131   3.4922147
## b_muExpedited_SES              -2.1132976   0.8129588
## b_muExpedited_Power             1.0738133   4.6838929
## b_muExpedited_NumberOfficials   0.1151330   1.2295091
## b_muExpedited_OtherCustomers   -0.7720601   3.1839080
```

```
## lp__                           -84.8841282 -76.7969055
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                       lower       upper
## b_muBribery_Intercept          -3.65719558  -0.5016289
## b_muExpedited_Intercept        -5.72107693  -1.6521059
## b_muBribery_Coethnic            0.08463388   3.3705859
## b_muBribery_SES                -2.67878426   0.3081437
## b_muBribery_Power              -1.38183681   1.6830359
## b_muBribery_NumberOfficials     0.39488102   1.5134551
## b_muBribery_OtherCustomers     -3.55577219   0.4154251
## b_muExpedited_Coethnic         -0.03560801   3.2289857
## b_muExpedited_SES              -2.24453234   0.8088099
## b_muExpedited_Power             1.23898597   4.7783225
## b_muExpedited_NumberOfficials   0.14390252   1.2511977
## b_muExpedited_OtherCustomers   -0.93512431   3.0249903
## lp__                           -85.22690973 -76.8886413
## attr(,"Probability")
## [1] 0.9
```

```
xall19<-do.call(rbind,x19)
HPDinterval(mcmc(xall19),0.9)
```

```
##                                       lower       upper
## b_muBribery_Intercept          -3.662459417  -0.3782949
## b_muExpedited_Intercept        -6.035353400  -1.7857349
## b_muBribery_Coethnic            0.002876169   3.2852786
## b_muBribery_SES                -2.685958812   0.2462745
## b_muBribery_Power              -1.570480096   1.4679928
## b_muBribery_NumberOfficials     0.380170406   1.4865434
## b_muBribery_OtherCustomers     -3.236969514   0.6554483
## b_muExpedited_Coethnic          0.072069500   3.4431773
## b_muExpedited_SES              -2.068439889   0.8088099
## b_muExpedited_Power             1.094678148   4.6860922
## b_muExpedited_NumberOfficials   0.140030198   1.2380531
## b_muExpedited_OtherCustomers   -1.025574825   2.9014090
## lp__                           -84.891247813 -76.5552701
## attr(,"Probability")
## [1] 0.9
```

```
x20<-as.mcmc(bayesescom20)
HPDinterval(x20,0.9)
```

```
## [[1]]
##                                       lower       upper
## b_muBribery_Intercept          -3.853605909  -0.4881457
## b_muExpedited_Intercept        -5.938854279  -1.6552267
## b_muBribery_Coethnic            0.226822846   3.4064938
## b_muBribery_SES                -2.607785331   0.2523346
## b_muBribery_Power              -1.536424166   1.7017017
## b_muBribery_NumberOfficials     0.379197280   1.4551391
## b_muBribery_OtherCustomers     -3.331929233   0.6300965
## b_muExpedited_Coethnic          0.006276684   3.3281138
```

```
## b_muExpedited_SES              -2.122631115   0.7265503
## b_muExpedited_Power             1.174664263   4.7800938
## b_muExpedited_NumberOfficials   0.145001621   1.3045080
## b_muExpedited_OtherCustomers   -0.966505276   3.0560683
## lp__                         -84.848988521 -76.1029222
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.65842013  -0.4200078
## b_muExpedited_Intercept        -5.86331463  -1.5883146
## b_muBribery_Coethnic            0.17734208   3.4854660
## b_muBribery_SES                -2.67693272   0.2467059
## b_muBribery_Power              -1.74611467   1.3516153
## b_muBribery_NumberOfficials     0.38987761   1.4660601
## b_muBribery_OtherCustomers     -3.40009246   0.4837399
## b_muExpedited_Coethnic         -0.12359084   3.4568214
## b_muExpedited_SES              -2.10815761   0.7951072
## b_muExpedited_Power             1.03918017   4.9413730
## b_muExpedited_NumberOfficials   0.09411855   1.1324740
## b_muExpedited_OtherCustomers   -0.96686198   3.0584678
## lp__                         -84.61357228 -76.2101609
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.7984412  -0.4860360
## b_muExpedited_Intercept        -6.0205586  -1.8082315
## b_muBribery_Coethnic            0.2657531   3.2237536
## b_muBribery_SES                -2.7408207   0.1732935
## b_muBribery_Power              -1.6683278   1.2758941
## b_muBribery_NumberOfficials     0.4061603   1.4935445
## b_muBribery_OtherCustomers     -3.4424158   0.4180457
## b_muExpedited_Coethnic          0.1233873   3.4590085
## b_muExpedited_SES              -1.8568196   0.9027395
## b_muExpedited_Power             0.9020495   4.3842261
## b_muExpedited_NumberOfficials   0.1517986   1.2014522
## b_muExpedited_OtherCustomers   -0.6638696   3.1163932
## lp__                         -83.8430006 -76.0726011
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.5507572  -0.4075400
## b_muExpedited_Intercept        -5.9207805  -1.4484266
## b_muBribery_Coethnic            0.3060192   3.3807555
## b_muBribery_SES                -2.8247645   0.2812782
## b_muBribery_Power              -1.4949542   1.4349599
## b_muBribery_NumberOfficials     0.3673672   1.4225902
## b_muBribery_OtherCustomers     -3.4283288   0.5199891
## b_muExpedited_Coethnic          0.2884403   3.3089684
```

```
## b_muExpedited_SES              -1.9103727   0.9183720
## b_muExpedited_Power             1.0107156   4.6991968
## b_muExpedited_NumberOfficials   0.1468731   1.1754196
## b_muExpedited_OtherCustomers   -1.1679373   2.9539877
## lp__                          -84.3521979 -76.1739811
## attr(,"Probability")
## [1] 0.9
```

```
xall20<-do.call(rbind,x20)
HPDinterval(mcmc(xall20),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.66259896  -0.3679371
## b_muExpedited_Intercept        -6.02055860  -1.6898709
## b_muBribery_Coethnic            0.22207582   3.3639231
## b_muBribery_SES                -2.70271147   0.2523346
## b_muBribery_Power              -1.55442849   1.5443690
## b_muBribery_NumberOfficials     0.37808142   1.4551391
## b_muBribery_OtherCustomers     -3.42832881   0.4940228
## b_muExpedited_Coethnic         -0.03825753   3.3157227
## b_muExpedited_SES              -2.09426128   0.7643415
## b_muExpedited_Power             0.98412824   4.6775005
## b_muExpedited_NumberOfficials   0.12212075   1.2030543
## b_muExpedited_OtherCustomers   -0.91498227   3.0741700
## lp__                          -84.57967631 -76.3065791
## attr(,"Probability")
## [1] 0.9
```

```
x21<-as.mcmc(bayesescom21)
HPDinterval(x21,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.6504861  -0.2862705
## b_muExpedited_Intercept        -6.0242452  -1.8117189
## b_muBribery_Coethnic            0.1844071   3.5329179
## b_muBribery_SES                -2.6965192   0.2633601
## b_muBribery_Power              -1.6553379   1.4396794
## b_muBribery_NumberOfficials     0.3717618   1.5007635
## b_muBribery_OtherCustomers     -3.2640999   0.4770224
## b_muExpedited_Coethnic          0.2314244   3.7133933
## b_muExpedited_SES              -2.0411599   0.9138919
## b_muExpedited_Power             1.1838153   4.7529630
## b_muExpedited_NumberOfficials   0.1146937   1.2241737
## b_muExpedited_OtherCustomers   -1.1956987   2.6978401
## lp__                          -84.1113560 -75.9234038
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.71518512  -0.3368712
## b_muExpedited_Intercept        -6.03097765  -1.6821703
## b_muBribery_Coethnic            0.13040350   3.1836257
## b_muBribery_SES                -2.57307899   0.2968338
```

```
## b_muBribery_Power              -1.49814756   1.4326078
## b_muBribery_NumberOfficials     0.38228481   1.5220775
## b_muBribery_OtherCustomers     -3.53037798   0.6722121
## b_muExpedited_Coethnic          0.18425599   3.3984431
## b_muExpedited_SES              -1.98698728   0.9159231
## b_muExpedited_Power             0.95710425   4.6242119
## b_muExpedited_NumberOfficials   0.09437054   1.2228337
## b_muExpedited_OtherCustomers   -0.75613435   3.0754125
## lp__                         -84.43798291 -76.1878352
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.62672901  -0.4420437
## b_muExpedited_Intercept        -5.88949723  -1.7028608
## b_muBribery_Coethnic            0.06456274   3.1378191
## b_muBribery_SES                -2.70633000   0.2681615
## b_muBribery_Power              -1.39840136   1.5558587
## b_muBribery_NumberOfficials     0.38734200   1.4903839
## b_muBribery_OtherCustomers     -3.25481111   0.6279962
## b_muExpedited_Coethnic          0.21288394   3.4747924
## b_muExpedited_SES              -2.05967206   1.0666016
## b_muExpedited_Power             0.97990165   4.5091520
## b_muExpedited_NumberOfficials   0.09941379   1.2149105
## b_muExpedited_OtherCustomers   -0.84496644   2.8130886
## lp__                         -84.27431083 -76.2581592
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.63619050  -0.6276151
## b_muExpedited_Intercept        -5.68394733  -1.7655433
## b_muBribery_Coethnic            0.13101272   3.1163704
## b_muBribery_SES                -2.50109050   0.3847341
## b_muBribery_Power              -1.59784209   1.1526854
## b_muBribery_NumberOfficials     0.38320548   1.4415678
## b_muBribery_OtherCustomers     -3.26609994   0.5064489
## b_muExpedited_Coethnic          0.05682164   3.3009439
## b_muExpedited_SES              -2.04255025   0.7941420
## b_muExpedited_Power             1.18790675   4.5819672
## b_muExpedited_NumberOfficials   0.09747805   1.1719742
## b_muExpedited_OtherCustomers   -0.73583608   2.9932820
## lp__                         -83.93606758 -76.2411802
## attr(,"Probability")
## [1] 0.9
```

```
xall21<-do.call(rbind,x21)
HPDinterval(mcmc(xall21),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.6794235  -0.4188299
## b_muExpedited_Intercept        -5.8764832  -1.6821703
## b_muBribery_Coethnic            0.1729929   3.3153868
```

```
## b_muBribery_SES                -2.7063300   0.2302743
## b_muBribery_Power              -1.5503888   1.4228121
## b_muBribery_NumberOfficials     0.3812629   1.4911711
## b_muBribery_OtherCustomers     -3.3601435   0.5561597
## b_muExpedited_Coethnic          0.0699167   3.3921996
## b_muExpedited_SES              -2.0462063   0.9159231
## b_muExpedited_Power             1.0913685   4.6356171
## b_muExpedited_NumberOfficials   0.1059843   1.2192172
## b_muExpedited_OtherCustomers   -0.8657027   2.9523262
## lp__                         -84.3485299 -76.2350425
## attr(,"Probability")
## [1] 0.9
```

```
x22<-as.mcmc(bayesescom22)
HPDinterval(x22,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.558322731  -0.4466525
## b_muExpedited_Intercept        -5.775106203  -1.6952706
## b_muBribery_Coethnic           -0.009885789   3.1481165
## b_muBribery_SES                -2.751796838   0.2010575
## b_muBribery_Power              -1.574077941   1.3974605
## b_muBribery_NumberOfficials     0.397324125   1.4938684
## b_muBribery_OtherCustomers     -3.068932639   0.7781152
## b_muExpedited_Coethnic          0.042135579   3.3613432
## b_muExpedited_SES              -1.907906830   0.8978012
## b_muExpedited_Power             1.006673164   4.4854705
## b_muExpedited_NumberOfficials   0.109924357   1.1973152
## b_muExpedited_OtherCustomers   -1.033425980   2.9931033
## lp__                         -83.754173257 -75.6391656
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.7258060  -0.5406995
## b_muExpedited_Intercept        -5.8518036  -1.7195181
## b_muBribery_Coethnic            0.3816863   3.4357865
## b_muBribery_SES                -2.7224740   0.3401874
## b_muBribery_Power              -1.5836311   1.3345190
## b_muBribery_NumberOfficials     0.4250464   1.5815084
## b_muBribery_OtherCustomers     -3.2131904   0.6502521
## b_muExpedited_Coethnic          0.3270453   3.4824636
## b_muExpedited_SES              -1.9816827   0.8046517
## b_muExpedited_Power             0.9886157   4.5093098
## b_muExpedited_NumberOfficials   0.1200329   1.2726298
## b_muExpedited_OtherCustomers   -1.1949915   2.7318354
## lp__                         -83.9172540 -75.6827299
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -3.54883971  -0.3777364
```

```
## b_muExpedited_Intercept        -5.75238248  -1.5420874
## b_muBribery_Coethnic            0.17337125   3.3927054
## b_muBribery_SES                -2.73726734   0.3209578
## b_muBribery_Power              -1.55175968   1.3485847
## b_muBribery_NumberOfficials     0.40734341   1.4908950
## b_muBribery_OtherCustomers     -3.32879002   0.6873314
## b_muExpedited_Coethnic          0.04226985   3.2555633
## b_muExpedited_SES              -2.09306724   0.8735850
## b_muExpedited_Power             1.04717825   4.7561445
## b_muExpedited_NumberOfficials   0.14416611   1.1772327
## b_muExpedited_OtherCustomers   -0.84506867   3.1376452
## lp__                         -84.08761159 -76.1243538
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.72406169  -0.5049007
## b_muExpedited_Intercept        -5.95428847  -1.9196491
## b_muBribery_Coethnic            0.11944663   3.3579381
## b_muBribery_SES                -2.61476099   0.3081639
## b_muBribery_Power              -1.56014381   1.4606902
## b_muBribery_NumberOfficials     0.46388518   1.5655956
## b_muBribery_OtherCustomers     -3.36809223   0.6445597
## b_muExpedited_Coethnic          0.03623215   3.4709638
## b_muExpedited_SES              -2.04317727   0.8963186
## b_muExpedited_Power             1.05482343   4.5866737
## b_muExpedited_NumberOfficials   0.16286571   1.2485458
## b_muExpedited_OtherCustomers   -1.02790604   2.8014176
## lp__                         -83.97550192 -75.9314251
## attr(,"Probability")
## [1] 0.9
```

```
xall22<-do.call(rbind,x22)
HPDinterval(mcmc(xall22),0.9)
```

```
##                                      lower       upper
## b_muBribery_Intercept          -3.61420833  -0.4241327
## b_muExpedited_Intercept        -5.83493053  -1.7043073
## b_muBribery_Coethnic            0.11944663   3.3192101
## b_muBribery_SES                -2.67325064   0.3429787
## b_muBribery_Power              -1.61743561   1.3456926
## b_muBribery_NumberOfficials     0.37324742   1.4976517
## b_muBribery_OtherCustomers     -3.30561852   0.6502521
## b_muExpedited_Coethnic          0.04145145   3.3433105
## b_muExpedited_SES              -2.02154301   0.8668993
## b_muExpedited_Power             0.98861572   4.6087398
## b_muExpedited_NumberOfficials   0.12914483   1.2313090
## b_muExpedited_OtherCustomers   -1.05980531   2.8931646
## lp__                         -84.03786878 -75.8907647
## attr(,"Probability")
## [1] 0.9
```

```
x23<-as.mcmc(bayesescom23)
HPDinterval(x23,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.57639890  -0.4929883
## b_muExpedited_Intercept        -5.93948902  -1.6280863
## b_muBribery_Coethnic            0.20696164   3.2328915
## b_muBribery_SES                -2.66658725   0.4387535
## b_muBribery_Power              -1.52312075   1.4902651
## b_muBribery_NumberOfficials     0.42692901   1.4775250
## b_muBribery_OtherCustomers     -3.16962015   0.7627798
## b_muExpedited_Coethnic          0.18561206   3.1740523
## b_muExpedited_SES              -1.95071014   1.0284831
## b_muExpedited_Power             0.84050059   4.5405287
## b_muExpedited_NumberOfficials   0.06673513   1.1372425
## b_muExpedited_OtherCustomers   -0.81337296   3.3208265
## lp__                          -83.82940019 -75.3119965
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.48520247  -0.3555683
## b_muExpedited_Intercept        -5.95039531  -1.7395625
## b_muBribery_Coethnic            0.11643909   3.1574570
## b_muBribery_SES                -2.66181581   0.3058282
## b_muBribery_Power              -1.56757721   1.3750647
## b_muBribery_NumberOfficials     0.37320155   1.4541041
## b_muBribery_OtherCustomers     -3.25849975   0.7137299
## b_muExpedited_Coethnic         -0.13122762   3.1745647
## b_muExpedited_SES              -2.15776546   0.8059122
## b_muExpedited_Power             0.99985457   4.5663360
## b_muExpedited_NumberOfficials   0.08054621   1.1779159
## b_muExpedited_OtherCustomers   -0.77954051   3.1816152
## lp__                          -83.67149649 -75.5268732
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -3.7011997  -0.5802702
## b_muExpedited_Intercept        -5.7154636  -1.5184741
## b_muBribery_Coethnic            0.3029981   3.3150855
## b_muBribery_SES                -2.7465331   0.1860491
## b_muBribery_Power              -1.6696800   1.2765231
## b_muBribery_NumberOfficials     0.4699424   1.5821667
## b_muBribery_OtherCustomers     -3.2185309   0.6458100
## b_muExpedited_Coethnic          0.2312929   3.3447126
## b_muExpedited_SES              -1.8219424   1.1038877
## b_muExpedited_Power             1.0965508   4.8001385
## b_muExpedited_NumberOfficials   0.1189749   1.2334474
## b_muExpedited_OtherCustomers   -0.9779623   2.6863454
## lp__                          -83.3920484 -75.5220609
## attr(,"Probability")
## [1] 0.9
##
```

```
## [[4]]
##                                     lower       upper
## b_muBribery_Intercept          -3.5213465  -0.3424230
## b_muExpedited_Intercept        -5.7757977  -1.6206847
## b_muBribery_Coethnic            0.3055974   3.3883505
## b_muBribery_SES                -2.4542741   0.6148473
## b_muBribery_Power              -1.5481058   1.5158220
## b_muBribery_NumberOfficials     0.3577137   1.4695689
## b_muBribery_OtherCustomers     -3.2196497   0.5874666
## b_muExpedited_Coethnic          0.1122293   3.5311735
## b_muExpedited_SES              -2.0403014   0.9532200
## b_muExpedited_Power             1.0466455   4.5462855
## b_muExpedited_NumberOfficials   0.1151884   1.2139197
## b_muExpedited_OtherCustomers   -0.8741015   3.0282868
## lp__                         -83.4566950 -75.5506590
## attr(,"Probability")
## [1] 0.9
```

```
xall23<-do.call(rbind,x23)
HPDinterval(mcmc(xall23),0.9)
```

```
##                                     lower       upper
## b_muBribery_Intercept          -3.5763989  -0.4186506
## b_muExpedited_Intercept        -5.9399520  -1.6942313
## b_muBribery_Coethnic            0.3253566   3.3940039
## b_muBribery_SES                -2.5970614   0.4413385
## b_muBribery_Power              -1.5275200   1.5042113
## b_muBribery_NumberOfficials     0.3814515   1.4788777
## b_muBribery_OtherCustomers     -3.2584997   0.6458100
## b_muExpedited_Coethnic          0.1429872   3.3710301
## b_muExpedited_SES              -2.0788946   0.9077777
## b_muExpedited_Power             0.9194393   4.5514914
## b_muExpedited_NumberOfficials   0.1151884   1.2243881
## b_muExpedited_OtherCustomers   -1.0608894   2.8595269
## lp__                         -83.6836838 -75.5220609
## attr(,"Probability")
## [1] 0.9
```

```
x24<-as.mcmc(bayesescom24)
HPDinterval(x24,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -3.6796622  -0.4485589
## b_muExpedited_Intercept        -5.9069317  -1.7164885
## b_muBribery_Coethnic            0.2037394   3.2805430
## b_muBribery_SES                -2.5692990   0.4195918
## b_muBribery_Power              -1.6197473   1.3398848
## b_muBribery_NumberOfficials     0.3796918   1.4340191
## b_muBribery_OtherCustomers     -3.1942999   0.6565698
## b_muExpedited_Coethnic          0.1913288   3.4655296
## b_muExpedited_SES              -1.9446548   0.9586597
## b_muExpedited_Power             0.9466319   4.5645522
## b_muExpedited_NumberOfficials   0.1934142   1.1828658
## b_muExpedited_OtherCustomers   -1.0362628   3.0276604
```

```
## lp__                           -83.3529961 -75.2218862
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.7502647  -0.4411477
## b_muExpedited_Intercept        -6.1931273  -1.9484860
## b_muBribery_Coethnic            0.3908580   3.4430053
## b_muBribery_SES                -2.6770141   0.2521482
## b_muBribery_Power              -1.5856623   1.3512745
## b_muBribery_NumberOfficials     0.3947793   1.5605748
## b_muBribery_OtherCustomers     -3.1125735   0.7723826
## b_muExpedited_Coethnic          0.1925029   3.4234146
## b_muExpedited_SES              -2.0385499   0.8600368
## b_muExpedited_Power             1.0380870   4.8779520
## b_muExpedited_NumberOfficials   0.0805745   1.2198489
## b_muExpedited_OtherCustomers   -0.9395263   3.1274479
## lp__                           -83.3476299 -75.2015994
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.6559242  -0.4085502
## b_muExpedited_Intercept        -5.7824159  -1.6791201
## b_muBribery_Coethnic            0.1983513   3.3039250
## b_muBribery_SES                -2.7851132   0.2251478
## b_muBribery_Power              -1.7059682   1.4199085
## b_muBribery_NumberOfficials     0.3251315   1.4258401
## b_muBribery_OtherCustomers     -3.2671239   0.9880994
## b_muExpedited_Coethnic          0.1715496   3.4619368
## b_muExpedited_SES              -1.9690870   0.9098426
## b_muExpedited_Power             0.9997935   4.6117323
## b_muExpedited_NumberOfficials   0.1333088   1.2000531
## b_muExpedited_OtherCustomers   -0.8363566   2.8454934
## lp__                           -83.5647573 -75.4982369
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                       lower       upper
## b_muBribery_Intercept          -3.67225551  -0.4500516
## b_muExpedited_Intercept        -6.08144913  -1.4704548
## b_muBribery_Coethnic            0.39553874   3.2976990
## b_muBribery_SES                -2.87213809   0.1503570
## b_muBribery_Power              -1.58053940   1.4773385
## b_muBribery_NumberOfficials     0.38847643   1.5096926
## b_muBribery_OtherCustomers     -3.28009687   0.7808401
## b_muExpedited_Coethnic          0.08248996   3.4373780
## b_muExpedited_SES              -1.93940776   0.9447785
## b_muExpedited_Power             1.00278261   4.6644220
## b_muExpedited_NumberOfficials   0.17113092   1.2754070
## b_muExpedited_OtherCustomers   -0.88175925   2.9763306
```

```
## lp__                           -83.40419034 -75.2443121
## attr(,"Probability")
## [1] 0.9
```

```
xall24<-do.call(rbind,x24)
HPDinterval(mcmc(xall24),0.9)
```

```
##                                     lower       upper
## b_muBribery_Intercept          -3.6722555  -0.4168579
## b_muExpedited_Intercept        -5.9663643  -1.6791201
## b_muBribery_Coethnic            0.2578048   3.3200348
## b_muBribery_SES                -2.6816707   0.3275583
## b_muBribery_Power              -1.6749730   1.3603087
## b_muBribery_NumberOfficials     0.3603678   1.4797466
## b_muBribery_OtherCustomers     -3.2818551   0.7627135
## b_muExpedited_Coethnic          0.1520847   3.4373890
## b_muExpedited_SES              -2.0664900   0.8379526
## b_muExpedited_Power             0.9466319   4.6682017
## b_muExpedited_NumberOfficials   0.1432975   1.2358627
## b_muExpedited_OtherCustomers   -0.9410634   2.9867787
## lp__                          -83.3531564 -75.1946926
## attr(,"Probability")
## [1] 0.9
```

```
x25<-as.mcmc(bayesescom25)
HPDinterval(x25,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -3.63379499  -0.4626438
## b_muExpedited_Intercept        -5.77899859  -1.5380990
## b_muBribery_Coethnic            0.21511743   3.2409378
## b_muBribery_SES                -2.46996038   0.4345890
## b_muBribery_Power              -1.48743497   1.3334061
## b_muBribery_NumberOfficials     0.37677598   1.4044856
## b_muBribery_OtherCustomers     -3.43831787   0.4529387
## b_muExpedited_Coethnic          0.07207633   3.4025290
## b_muExpedited_SES              -2.14783339   0.8188437
## b_muExpedited_Power             1.04693360   4.6941578
## b_muExpedited_NumberOfficials   0.14066794   1.1624443
## b_muExpedited_OtherCustomers   -1.00403965   2.8543203
## lp__                          -82.74694351 -75.0135188
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.685288558  -0.6131505
## b_muExpedited_Intercept        -5.855802636  -1.6651059
## b_muBribery_Coethnic           -0.008214094   3.3346205
## b_muBribery_SES                -2.588106846   0.3258164
## b_muBribery_Power              -1.394656783   1.3120486
## b_muBribery_NumberOfficials     0.349299382   1.4319763
## b_muBribery_OtherCustomers     -3.433795033   0.5112993
## b_muExpedited_Coethnic          0.118983867   3.5391327
```

```
## b_muExpedited_SES              -2.029241122   0.9789537
## b_muExpedited_Power             0.982392847   4.4278479
## b_muExpedited_NumberOfficials   0.101231001   1.2006618
## b_muExpedited_OtherCustomers   -0.852637256   3.1006096
## lp__                         -82.895404926 -74.7332150
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                     lower       upper
## b_muBribery_Intercept          -3.6970383  -0.5308708
## b_muExpedited_Intercept        -5.9672551  -1.6885250
## b_muBribery_Coethnic            0.1869954   3.3939547
## b_muBribery_SES                -2.6238162   0.3194751
## b_muBribery_Power              -1.7592607   1.2266654
## b_muBribery_NumberOfficials     0.4168215   1.4525948
## b_muBribery_OtherCustomers     -3.2980836   0.5091008
## b_muExpedited_Coethnic          0.2230360   3.5551526
## b_muExpedited_SES              -1.9425487   0.9381040
## b_muExpedited_Power             0.9399024   4.5025476
## b_muExpedited_NumberOfficials   0.1228283   1.1687083
## b_muExpedited_OtherCustomers   -0.7546760   2.9115179
## lp__                         -83.1974788 -74.9554711
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                     lower       upper
## b_muBribery_Intercept          -3.6681888  -0.5784038
## b_muExpedited_Intercept        -5.6700367  -1.4951158
## b_muBribery_Coethnic            0.1427123   3.3293771
## b_muBribery_SES                -2.6404215   0.1865359
## b_muBribery_Power              -1.6760493   1.4190536
## b_muBribery_NumberOfficials     0.4112953   1.5141391
## b_muBribery_OtherCustomers     -3.4522686   0.6143746
## b_muExpedited_Coethnic         -0.1567608   3.3138690
## b_muExpedited_SES              -2.1405175   0.9931577
## b_muExpedited_Power             0.9711369   4.4880986
## b_muExpedited_NumberOfficials   0.1223863   1.2101182
## b_muExpedited_OtherCustomers   -0.8595995   2.8852840
## lp__                         -83.5707468 -75.0354487
## attr(,"Probability")
## [1] 0.9
```

```
xall25<-do.call(rbind,x25)
HPDinterval(mcmc(xall25),0.9)
```

```
##                                      lower       upper
## b_muBribery_Intercept          -3.67013461  -0.5368710
## b_muExpedited_Intercept        -5.72484246  -1.4678068
## b_muBribery_Coethnic            0.07040299   3.2670553
## b_muBribery_SES                -2.60427917   0.3205450
## b_muBribery_Power              -1.56429383   1.3538812
## b_muBribery_NumberOfficials     0.38036370   1.4548780
## b_muBribery_OtherCustomers     -3.35431805   0.5706354
```

```
## b_muExpedited_Coethnic          0.09636117   3.5087915
## b_muExpedited_SES              -1.98423655   1.0347088
## b_muExpedited_Power             0.97507043   4.5323936
## b_muExpedited_NumberOfficials   0.12572186   1.1908225
## b_muExpedited_OtherCustomers   -0.92167242   2.9397322
## lp__                         -83.09920802 -74.8611728
## attr(,"Probability")
## [1] 0.9
```

```
x26<-as.mcmc(bayesescom26)
HPDinterval(x26,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.55359936  -0.3088338
## b_muExpedited_Intercept        -5.72498638  -1.5316243
## b_muBribery_Coethnic            0.11826802   3.1485868
## b_muBribery_SES                -2.53366953   0.3275061
## b_muBribery_Power              -1.56004883   1.3937757
## b_muBribery_NumberOfficials     0.37678655   1.4844194
## b_muBribery_OtherCustomers     -3.12059997   0.7497185
## b_muExpedited_Coethnic          0.30650494   3.3338373
## b_muExpedited_SES              -2.12756612   0.8073333
## b_muExpedited_Power             0.74308749   4.5232653
## b_muExpedited_NumberOfficials   0.08694473   1.1904373
## b_muExpedited_OtherCustomers   -0.63847387   2.9896791
## lp__                         -82.40288230 -74.4777242
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.71433318  -0.4367383
## b_muExpedited_Intercept        -5.80994396  -1.4969219
## b_muBribery_Coethnic            0.18686674   3.1604563
## b_muBribery_SES                -2.33086244   0.3491843
## b_muBribery_Power              -1.42292681   1.3597770
## b_muBribery_NumberOfficials     0.38217163   1.5119867
## b_muBribery_OtherCustomers     -3.09184396   0.6862811
## b_muExpedited_Coethnic          0.02796722   3.1932078
## b_muExpedited_SES              -1.86738993   1.0416468
## b_muExpedited_Power             1.02424532   4.6589528
## b_muExpedited_NumberOfficials   0.12998732   1.2710082
## b_muExpedited_OtherCustomers   -0.83051471   3.1462309
## lp__                         -82.60593052 -74.4568515
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -3.5961220  -0.5499312
## b_muExpedited_Intercept        -5.8158348  -1.7801602
## b_muBribery_Coethnic            0.1484267   3.2761507
## b_muBribery_SES                -2.7691099   0.1364036
## b_muBribery_Power              -1.7064693   1.4184541
```

```
## b_muBribery_NumberOfficials     0.3592538   1.4008789
## b_muBribery_OtherCustomers     -3.2711315   0.7775121
## b_muExpedited_Coethnic          0.2561140   3.4413815
## b_muExpedited_SES              -2.0991708   0.9099483
## b_muExpedited_Power             1.0234054   4.5546652
## b_muExpedited_NumberOfficials   0.2134961   1.2439956
## b_muExpedited_OtherCustomers   -1.1003369   2.7492023
## lp__                         -82.5460814 -74.2762151
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                     lower       upper
## b_muBribery_Intercept          -3.66935123  -0.4490340
## b_muExpedited_Intercept        -5.80557219  -1.6320528
## b_muBribery_Coethnic            0.01306540   3.2018100
## b_muBribery_SES                -2.63708908   0.2492173
## b_muBribery_Power              -1.71045735   1.3569510
## b_muBribery_NumberOfficials     0.35956084   1.4885662
## b_muBribery_OtherCustomers     -3.16443021   0.7792293
## b_muExpedited_Coethnic         -0.07345838   3.1775881
## b_muExpedited_SES              -1.97375106   0.8887325
## b_muExpedited_Power             1.07986824   4.6550079
## b_muExpedited_NumberOfficials   0.15671766   1.2529973
## b_muExpedited_OtherCustomers   -0.98159764   2.9250621
## lp__                         -82.72315764 -74.6368593
## attr(,"Probability")
## [1] 0.9
```

```
xall26<-do.call(rbind,x26)
HPDinterval(mcmc(xall26),0.9)
```

```
##                                     lower       upper
## b_muBribery_Intercept          -3.6082324  -0.3717869
## b_muExpedited_Intercept        -5.8099440  -1.6242226
## b_muBribery_Coethnic            0.1424135   3.2410484
## b_muBribery_SES                -2.6157942   0.2558523
## b_muBribery_Power              -1.5838720   1.4184541
## b_muBribery_NumberOfficials     0.3805951   1.4910260
## b_muBribery_OtherCustomers     -3.2656933   0.6615187
## b_muExpedited_Coethnic          0.1782772   3.3616120
## b_muExpedited_SES              -2.1037726   0.8306000
## b_muExpedited_Power             1.0234054   4.6647190
## b_muExpedited_NumberOfficials   0.1519793   1.2484579
## b_muExpedited_OtherCustomers   -0.8824322   2.9896791
## lp__                         -82.6113211 -74.4699735
## attr(,"Probability")
## [1] 0.9
```

```
x27<-as.mcmc(bayesescom27)
HPDinterval(x27,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -3.5817348  -0.3440426
```

```
## b_muExpedited_Intercept        -5.6178176  -1.7049805
## b_muBribery_Coethnic            0.2086955   3.2285888
## b_muBribery_SES                -2.6063739   0.3750646
## b_muBribery_Power              -1.5275665   1.3655402
## b_muBribery_NumberOfficials     0.4072401   1.5231340
## b_muBribery_OtherCustomers     -3.1338518   0.8260936
## b_muExpedited_Coethnic          0.1217781   3.4495149
## b_muExpedited_SES              -2.0017084   0.9143682
## b_muExpedited_Power             0.7831484   4.2445177
## b_muExpedited_NumberOfficials   0.1103806   1.1809721
## b_muExpedited_OtherCustomers   -0.6762584   3.3519977
## lp__                         -82.0958324 -74.1126685
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.62345744  -0.3443637
## b_muExpedited_Intercept        -5.99312460  -1.6842741
## b_muBribery_Coethnic            0.34673665   3.4459604
## b_muBribery_SES                -2.77457617   0.1608973
## b_muBribery_Power              -1.44243447   1.5105026
## b_muBribery_NumberOfficials     0.37044336   1.5095507
## b_muBribery_OtherCustomers     -3.13296740   0.7207542
## b_muExpedited_Coethnic          0.07357748   3.4995785
## b_muExpedited_SES              -2.08945183   0.8471983
## b_muExpedited_Power             1.06975270   4.5671889
## b_muExpedited_NumberOfficials   0.20515543   1.3008005
## b_muExpedited_OtherCustomers   -0.75244310   2.9328587
## lp__                         -82.56819852 -74.1220443
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.5324136  -0.4070662
## b_muExpedited_Intercept        -5.6373617  -1.6736202
## b_muBribery_Coethnic            0.4344844   3.3693322
## b_muBribery_SES                -2.5455887   0.3458436
## b_muBribery_Power              -1.4903282   1.3219977
## b_muBribery_NumberOfficials     0.4158605   1.4432447
## b_muBribery_OtherCustomers     -3.1307177   0.5245307
## b_muExpedited_Coethnic          0.2825686   3.4902507
## b_muExpedited_SES              -2.0083472   0.7773111
## b_muExpedited_Power             1.0609947   4.6294635
## b_muExpedited_NumberOfficials   0.1529084   1.1625068
## b_muExpedited_OtherCustomers   -1.0265338   2.6467096
## lp__                         -81.3632628 -73.8979588
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                       lower       upper
## b_muBribery_Intercept          -3.577508682  -0.4064754
```

```
## b_muExpedited_Intercept        -5.825733155  -1.7075441
## b_muBribery_Coethnic            0.002045037   3.1653067
## b_muBribery_SES                -2.454239492   0.3972042
## b_muBribery_Power              -1.565200869   1.3500319
## b_muBribery_NumberOfficials     0.380023685   1.4565690
## b_muBribery_OtherCustomers     -3.185101324   0.5355880
## b_muExpedited_Coethnic          0.104270777   3.3546554
## b_muExpedited_SES              -2.085953720   0.9073653
## b_muExpedited_Power             1.093482066   4.4471297
## b_muExpedited_NumberOfficials   0.176732668   1.2558748
## b_muExpedited_OtherCustomers   -1.102622533   2.7071600
## lp__                         -81.907466945 -73.9645601
## attr(,"Probability")
## [1] 0.9
```

```
xall27<-do.call(rbind,x27)
HPDinterval(mcmc(xall27),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.5822697  -0.3811950
## b_muExpedited_Intercept        -5.8145758  -1.6932724
## b_muBribery_Coethnic            0.3118713   3.3797115
## b_muBribery_SES                -2.5743931   0.3750646
## b_muBribery_Power              -1.5120639   1.4025470
## b_muBribery_NumberOfficials     0.3686034   1.4651501
## b_muBribery_OtherCustomers     -3.1912547   0.6203854
## b_muExpedited_Coethnic          0.1251299   3.4399940
## b_muExpedited_SES              -2.0887338   0.8403139
## b_muExpedited_Power             1.0609947   4.5671889
## b_muExpedited_NumberOfficials   0.1473070   1.2191832
## b_muExpedited_OtherCustomers   -0.8668419   2.9811768
## lp__                         -81.9145518 -73.8874437
## attr(,"Probability")
## [1] 0.9
```

```
x28<-as.mcmc(bayesescom28)
HPDinterval(x28,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -3.52224200  -0.2660243
## b_muExpedited_Intercept        -5.70095952  -1.7710755
## b_muBribery_Coethnic            0.26959230   3.2252784
## b_muBribery_SES                -2.75060166   0.1456845
## b_muBribery_Power              -1.62950381   1.1949210
## b_muBribery_NumberOfficials     0.36213302   1.4785388
## b_muBribery_OtherCustomers     -3.24942569   0.4685214
## b_muExpedited_Coethnic         -0.05755562   3.2874069
## b_muExpedited_SES              -2.01216349   0.8453521
## b_muExpedited_Power             1.07887385   4.4934816
## b_muExpedited_NumberOfficials   0.14361448   1.1870768
## b_muExpedited_OtherCustomers   -1.02349932   2.7225021
## lp__                         -82.45920560 -73.9806100
## attr(,"Probability")
## [1] 0.9
```

```
##
## [[2]]
##                                      lower        upper
## b_muBribery_Intercept          -3.62128268  -0.59048198
## b_muExpedited_Intercept        -5.74243946  -1.70193417
## b_muBribery_Coethnic            0.29792780   3.20234323
## b_muBribery_SES                -2.54968117   0.09536498
## b_muBribery_Power              -1.54730669   1.31731680
## b_muBribery_NumberOfficials     0.37758913   1.44378032
## b_muBribery_OtherCustomers     -3.04184511   0.65812768
## b_muExpedited_Coethnic          0.22336737   3.62210821
## b_muExpedited_SES              -1.93037348   0.90488195
## b_muExpedited_Power             0.94396632   4.46806640
## b_muExpedited_NumberOfficials   0.09954381   1.14744003
## b_muExpedited_OtherCustomers   -0.94852673   2.90643620
## lp__                         -81.90095365 -74.23231586
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.3902530  -0.3254788
## b_muExpedited_Intercept        -5.6873032  -1.7800245
## b_muBribery_Coethnic            0.3722179   3.2031201
## b_muBribery_SES                -2.4630285   0.3873538
## b_muBribery_Power              -1.5383101   1.2477691
## b_muBribery_NumberOfficials     0.3672726   1.4285560
## b_muBribery_OtherCustomers     -3.1833879   0.5585535
## b_muExpedited_Coethnic          0.2779857   3.3033851
## b_muExpedited_SES              -2.2449613   0.8407843
## b_muExpedited_Power             1.2108965   4.4918791
## b_muExpedited_NumberOfficials   0.1234935   1.1585996
## b_muExpedited_OtherCustomers   -0.7890133   2.8237950
## lp__                         -81.9458090 -73.6081317
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.4778001  -0.4600817
## b_muExpedited_Intercept        -5.8221670  -1.6417951
## b_muBribery_Coethnic            0.3136584   3.2449767
## b_muBribery_SES                -2.6385110   0.2645646
## b_muBribery_Power              -1.3704331   1.4943715
## b_muBribery_NumberOfficials     0.4303191   1.4396334
## b_muBribery_OtherCustomers     -3.4415361   0.5122788
## b_muExpedited_Coethnic          0.1791076   3.3621806
## b_muExpedited_SES              -1.9682449   1.0423891
## b_muExpedited_Power             0.8320494   4.4315128
## b_muExpedited_NumberOfficials   0.1217419   1.1739027
## b_muExpedited_OtherCustomers   -0.9688157   3.0411795
## lp__                         -81.8469227 -73.6034927
## attr(,"Probability")
## [1] 0.9
```

```r
xall28<-do.call(rbind,x28)
HPDinterval(mcmc(xall28),0.9)
```

```
##                                     lower       upper
## b_muBribery_Intercept          -3.49041379  -0.3379770
## b_muExpedited_Intercept        -5.70607416  -1.7019342
## b_muBribery_Coethnic            0.32443813   3.2449767
## b_muBribery_SES                -2.63672147   0.2050036
## b_muBribery_Power              -1.50490697   1.3627946
## b_muBribery_NumberOfficials     0.36640649   1.4356572
## b_muBribery_OtherCustomers     -3.28963347   0.5270854
## b_muExpedited_Coethnic          0.04654654   3.3058184
## b_muExpedited_SES              -2.03877044   0.9048820
## b_muExpedited_Power             1.04237166   4.5027896
## b_muExpedited_NumberOfficials   0.10513996   1.1542481
## b_muExpedited_OtherCustomers   -0.94852673   2.8789399
## lp__                         -82.00087524 -73.7254588
## attr(,"Probability")
## [1] 0.9
```

```r
x29<-as.mcmc(bayesescom29)
HPDinterval(x29,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -3.69952867  -0.4975977
## b_muExpedited_Intercept        -5.92338256  -1.7642368
## b_muBribery_Coethnic            0.07561271   3.1467243
## b_muBribery_SES                -2.61214217   0.3439275
## b_muBribery_Power              -1.50042419   1.5191841
## b_muBribery_NumberOfficials     0.34231655   1.4943771
## b_muBribery_OtherCustomers     -3.15770363   0.6156051
## b_muExpedited_Coethnic         -0.01109764   3.1626955
## b_muExpedited_SES              -1.85171295   1.0838469
## b_muExpedited_Power             1.07287024   4.5265832
## b_muExpedited_NumberOfficials   0.14438378   1.2534943
## b_muExpedited_OtherCustomers   -0.78739177   2.8832784
## lp__                         -81.42952775 -73.1660263
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                     lower       upper
## b_muBribery_Intercept          -3.5819908  -0.3846051
## b_muExpedited_Intercept        -5.8615075  -1.6908827
## b_muBribery_Coethnic            0.1825390   3.3211993
## b_muBribery_SES                -2.6353982   0.2455766
## b_muBribery_Power              -1.5071839   1.3298357
## b_muBribery_NumberOfficials     0.3266519   1.4713472
## b_muBribery_OtherCustomers     -3.1819489   0.5321684
## b_muExpedited_Coethnic          0.1244565   3.4271093
## b_muExpedited_SES              -2.0635908   0.9420907
## b_muExpedited_Power             1.0909293   4.5950375
## b_muExpedited_NumberOfficials   0.1320249   1.2573860
```

```
## b_muExpedited_OtherCustomers   -0.6965203   3.0352938
## lp__                          -81.7176977 -73.4573387
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.49306944  -0.5519075
## b_muExpedited_Intercept        -5.90971559  -1.8187598
## b_muBribery_Coethnic            0.21954815   3.2796126
## b_muBribery_SES                -2.60280212   0.3944872
## b_muBribery_Power              -1.54215915   1.3143986
## b_muBribery_NumberOfficials     0.35410483   1.4154268
## b_muBribery_OtherCustomers     -3.20105884   0.7425609
## b_muExpedited_Coethnic          0.09376819   3.3021325
## b_muExpedited_SES              -1.91214503   0.9825879
## b_muExpedited_Power             1.11324972   4.4024986
## b_muExpedited_NumberOfficials   0.10355508   1.1957720
## b_muExpedited_OtherCustomers   -0.87741974   2.9173800
## lp__                          -81.75029945 -73.3105812
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.5760620  -0.2445857
## b_muExpedited_Intercept        -5.8911712  -1.4697315
## b_muBribery_Coethnic            0.2888522   3.3011374
## b_muBribery_SES                -2.6113059   0.1158892
## b_muBribery_Power              -1.5140810   1.3517072
## b_muBribery_NumberOfficials     0.4677894   1.5350183
## b_muBribery_OtherCustomers     -3.2588179   0.7544028
## b_muExpedited_Coethnic          0.1541449   3.2520884
## b_muExpedited_SES              -1.9866534   1.0550373
## b_muExpedited_Power             0.8194143   4.5664234
## b_muExpedited_NumberOfficials   0.1732528   1.2010155
## b_muExpedited_OtherCustomers   -1.0650627   2.8337025
## lp__                          -81.7932368 -73.5608412
## attr(,"Probability")
## [1] 0.9
```

```
xall29<-do.call(rbind,x29)
HPDinterval(mcmc(xall29),0.9)
```

```
##                                      lower       upper
## b_muBribery_Intercept          -3.57176802  -0.3755099
## b_muExpedited_Intercept        -5.91628736  -1.7001200
## b_muBribery_Coethnic            0.20720037   3.3068379
## b_muBribery_SES                -2.61138147   0.2974284
## b_muBribery_Power              -1.51412872   1.3857310
## b_muBribery_NumberOfficials     0.38330311   1.4902490
## b_muBribery_OtherCustomers     -3.20323266   0.6937861
## b_muExpedited_Coethnic          0.09376819   3.3293505
## b_muExpedited_SES              -2.00687048   0.9832049
## b_muExpedited_Power             1.04307711   4.5664234
```

```
## b_muExpedited_NumberOfficials   0.14387573   1.2423615
## b_muExpedited_OtherCustomers   -0.92946832   2.8832784
## lp__                         -81.77429074 -73.4386597
## attr(,"Probability")
## [1] 0.9
```

```
x30<-as.mcmc(bayesescom30)
HPDinterval(x30,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.533442294  -0.3670375
## b_muExpedited_Intercept        -5.984842887  -1.6547935
## b_muBribery_Coethnic            0.006307404   3.0862099
## b_muBribery_SES                -2.461755749   0.3420302
## b_muBribery_Power              -1.531460199   1.4156361
## b_muBribery_NumberOfficials     0.335037816   1.3581561
## b_muBribery_OtherCustomers     -3.275542844   0.4430563
## b_muExpedited_Coethnic         -0.159795863   3.2058777
## b_muExpedited_SES              -1.899143969   0.9122648
## b_muExpedited_Power             0.935177560   4.5687501
## b_muExpedited_NumberOfficials   0.122603395   1.1717341
## b_muExpedited_OtherCustomers   -1.039777423   2.7108319
## lp__                         -81.186448172 -72.9139837
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.37743223  -0.1963827
## b_muExpedited_Intercept        -5.53344917  -1.6623570
## b_muBribery_Coethnic            0.06892009   3.0756846
## b_muBribery_SES                -2.50686419   0.3715546
## b_muBribery_Power              -1.46752635   1.4878168
## b_muBribery_NumberOfficials     0.39490659   1.4609996
## b_muBribery_OtherCustomers     -3.16932814   0.5525795
## b_muExpedited_Coethnic         -0.05390819   3.1116174
## b_muExpedited_SES              -1.92412866   0.9488650
## b_muExpedited_Power             0.88705673   4.3975989
## b_muExpedited_NumberOfficials   0.12054013   1.1877963
## b_muExpedited_OtherCustomers   -0.97191603   2.6380334
## lp__                         -81.01317903 -73.0456079
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -3.40981433  -0.2980225
## b_muExpedited_Intercept        -5.71597142  -1.7065012
## b_muBribery_Coethnic            0.26922562   3.2239647
## b_muBribery_SES                -2.43023396   0.3364013
## b_muBribery_Power              -1.50516972   1.4240663
## b_muBribery_NumberOfficials     0.35008770   1.4329805
## b_muBribery_OtherCustomers     -3.20374854   0.7188169
## b_muExpedited_Coethnic          0.12971867   3.2146620
```

```
## b_muExpedited_SES              -1.90741515   0.9748798
## b_muExpedited_Power             1.05193130   4.4514563
## b_muExpedited_NumberOfficials   0.09823697   1.1712757
## b_muExpedited_OtherCustomers   -0.89376602   2.8643070
## lp__                         -80.81113731 -72.9646898
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                    lower       upper
## b_muBribery_Intercept          -3.5729662  -0.4528691
## b_muExpedited_Intercept        -6.0512709  -1.7627252
## b_muBribery_Coethnic            0.3485009   3.4077139
## b_muBribery_SES                -2.6156780   0.4285936
## b_muBribery_Power              -1.5017373   1.4400714
## b_muBribery_NumberOfficials     0.3862610   1.3782924
## b_muBribery_OtherCustomers     -3.1268895   0.7487476
## b_muExpedited_Coethnic          0.1681868   3.3383288
## b_muExpedited_SES              -2.0608982   0.9126533
## b_muExpedited_Power             0.9474360   4.3897764
## b_muExpedited_NumberOfficials   0.1739459   1.2013156
## b_muExpedited_OtherCustomers   -0.6214552   3.0022686
## lp__                         -81.0548676 -72.9290547
## attr(,"Probability")
## [1] 0.9
```

```
xall30<-do.call(rbind,x30)
HPDinterval(mcmc(xall30),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.5359577  -0.3644414
## b_muExpedited_Intercept        -5.8120330  -1.6367937
## b_muBribery_Coethnic            0.1683321   3.2265076
## b_muBribery_SES                -2.4929513   0.3884473
## b_muBribery_Power              -1.5000702   1.4511068
## b_muBribery_NumberOfficials     0.3862610   1.4351038
## b_muBribery_OtherCustomers     -3.1268895   0.7053677
## b_muExpedited_Coethnic         -0.0552373   3.1623055
## b_muExpedited_SES              -1.9548644   0.9376453
## b_muExpedited_Power             0.9330417   4.4624624
## b_muExpedited_NumberOfficials   0.1141977   1.1716366
## b_muExpedited_OtherCustomers   -0.9071811   2.8229656
## lp__                         -81.0306932 -72.9506368
## attr(,"Probability")
## [1] 0.9
```

```
x31<-as.mcmc(bayesescom31)
HPDinterval(x31,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -3.55036311  -0.3680354
## b_muExpedited_Intercept        -5.37230341  -1.4533954
## b_muBribery_Coethnic            0.18387445   3.3780870
## b_muBribery_SES                -2.63165017   0.1583298
```

```
## b_muBribery_Power              -1.55220423   1.3300741
## b_muBribery_NumberOfficials     0.33827335   1.3729109
## b_muBribery_OtherCustomers     -3.13289835   0.4833582
## b_muExpedited_Coethnic          0.02472305   3.1972951
## b_muExpedited_SES              -1.75343392   1.0131883
## b_muExpedited_Power             1.02420827   4.2873776
## b_muExpedited_NumberOfficials   0.03739092   1.1373236
## b_muExpedited_OtherCustomers   -0.93561147   2.7055202
## lp__                         -80.47275328 -73.0913552
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.56032251  -0.3158697
## b_muExpedited_Intercept        -5.53177390  -1.2813608
## b_muBribery_Coethnic            0.19275603   3.2278951
## b_muBribery_SES                -2.57189700   0.2973594
## b_muBribery_Power              -1.69446250   1.3931585
## b_muBribery_NumberOfficials     0.29024223   1.4096859
## b_muBribery_OtherCustomers     -3.14550584   0.5384465
## b_muExpedited_Coethnic          0.01608221   3.2478624
## b_muExpedited_SES              -1.92922521   0.9598920
## b_muExpedited_Power             0.75477989   4.3199261
## b_muExpedited_NumberOfficials   0.06428614   1.1529646
## b_muExpedited_OtherCustomers   -0.74441414   2.8306058
## lp__                         -80.59563045 -72.6541719
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.54192801  -0.3982941
## b_muExpedited_Intercept        -5.83313411  -1.5638404
## b_muBribery_Coethnic            0.36856095   3.4529540
## b_muBribery_SES                -2.49679938   0.1870393
## b_muBribery_Power              -1.52465149   1.3023914
## b_muBribery_NumberOfficials     0.34180508   1.3804029
## b_muBribery_OtherCustomers     -3.50316621   0.3790095
## b_muExpedited_Coethnic          0.06692938   3.2245027
## b_muExpedited_SES              -2.09930089   0.8015685
## b_muExpedited_Power             0.85786085   4.4655593
## b_muExpedited_NumberOfficials   0.08546270   1.1414566
## b_muExpedited_OtherCustomers   -1.06121165   2.7476908
## lp__                         -80.68756895 -72.4132595
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.56519511  -0.2621846
## b_muExpedited_Intercept        -5.39655954  -1.3231505
## b_muBribery_Coethnic           -0.05093482   3.0073665
## b_muBribery_SES                -2.39662785   0.5233866
```

```
## b_muBribery_Power              -1.49991894   1.4669184
## b_muBribery_NumberOfficials     0.38070384   1.4671560
## b_muBribery_OtherCustomers     -3.18977689   0.3700407
## b_muExpedited_Coethnic          0.17210974   3.2593121
## b_muExpedited_SES              -1.92380798   0.9883596
## b_muExpedited_Power             0.86349503   4.2534523
## b_muExpedited_NumberOfficials   0.10460477   1.1840309
## b_muExpedited_OtherCustomers   -0.97098880   2.6794549
## lp__                         -80.82471751 -72.7031284
## attr(,"Probability")
## [1] 0.9
```

```
xall31<-do.call(rbind,x31)
HPDinterval(mcmc(xall31),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.56560588  -0.3393213
## b_muExpedited_Intercept        -5.54634347  -1.4041584
## b_muBribery_Coethnic            0.24607164   3.3609664
## b_muBribery_SES                -2.55851351   0.2841621
## b_muBribery_Power              -1.55611236   1.4119008
## b_muBribery_NumberOfficials     0.33357950   1.4069057
## b_muBribery_OtherCustomers     -3.17404798   0.5298009
## b_muExpedited_Coethnic          0.06202895   3.2350760
## b_muExpedited_SES              -1.91669907   0.9758680
## b_muExpedited_Power             0.78859453   4.2778194
## b_muExpedited_NumberOfficials   0.07099777   1.1532835
## b_muExpedited_OtherCustomers   -0.96493820   2.7089586
## lp__                         -80.78241968 -72.7975015
## attr(,"Probability")
## [1] 0.9
```

```
x32<-as.mcmc(bayesescom32)
HPDinterval(x32,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.58579845  -0.4669945
## b_muExpedited_Intercept        -5.69322756  -1.6141062
## b_muBribery_Coethnic            0.35292637   3.2820054
## b_muBribery_SES                -2.69159871   0.2824431
## b_muBribery_Power              -1.57382946   1.4607495
## b_muBribery_NumberOfficials     0.40906553   1.4450193
## b_muBribery_OtherCustomers     -3.15440201   0.4441538
## b_muExpedited_Coethnic          0.07109434   3.1832933
## b_muExpedited_SES              -1.95003465   0.8418373
## b_muExpedited_Power             1.08505133   4.5141216
## b_muExpedited_NumberOfficials   0.14607510   1.2085149
## b_muExpedited_OtherCustomers   -0.89800336   2.6794347
## lp__                         -80.38801361 -72.3128047
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
```

```
## b_muBribery_Intercept          -3.56078610  -0.3312683
## b_muExpedited_Intercept        -5.83913685  -1.7865717
## b_muBribery_Coethnic            0.15615110   3.2400632
## b_muBribery_SES                -2.50700809   0.3508510
## b_muBribery_Power              -1.67500977   1.3472442
## b_muBribery_NumberOfficials     0.46010667   1.5077131
## b_muBribery_OtherCustomers     -3.25856320   0.4617336
## b_muExpedited_Coethnic          0.03257736   3.2650475
## b_muExpedited_SES              -2.08123273   0.9058512
## b_muExpedited_Power             1.09701931   4.3787570
## b_muExpedited_NumberOfficials   0.14359732   1.1894865
## b_muExpedited_OtherCustomers   -0.93930944   2.7981900
## lp__                         -80.21090902 -72.3135423
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                     lower       upper
## b_muBribery_Intercept          -3.6001393  -0.3713710
## b_muExpedited_Intercept        -5.5965381  -1.5404937
## b_muBribery_Coethnic            0.2165314   3.2119669
## b_muBribery_SES                -2.6094668   0.3431057
## b_muBribery_Power              -1.4892924   1.4511231
## b_muBribery_NumberOfficials     0.3929749   1.4622479
## b_muBribery_OtherCustomers     -3.0588210   0.7352059
## b_muExpedited_Coethnic          0.2065161   3.3229325
## b_muExpedited_SES              -2.1157399   0.7585100
## b_muExpedited_Power             0.9208190   4.3014372
## b_muExpedited_NumberOfficials   0.1355493   1.2170075
## b_muExpedited_OtherCustomers   -0.8593225   2.6849516
## lp__                         -80.1625106 -71.8327814
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                     lower       upper
## b_muBribery_Intercept          -3.37220735  -0.3493927
## b_muExpedited_Intercept        -5.64422622  -1.6103484
## b_muBribery_Coethnic            0.29566905   3.1985402
## b_muBribery_SES                -2.48905911   0.4472948
## b_muBribery_Power              -1.60284418   1.1626044
## b_muBribery_NumberOfficials     0.42195656   1.4416948
## b_muBribery_OtherCustomers     -3.29183894   0.5651063
## b_muExpedited_Coethnic          0.15594236   3.1236343
## b_muExpedited_SES              -1.86316819   0.8904246
## b_muExpedited_Power             0.90090811   4.3183887
## b_muExpedited_NumberOfficials   0.03139857   1.0918499
## b_muExpedited_OtherCustomers   -0.92408444   2.7554093
## lp__                         -80.09700204 -71.7341069
## attr(,"Probability")
## [1] 0.9
```

```
xall32<-do.call(rbind,x32)
HPDinterval(mcmc(xall32),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.4762310  -0.3016179
## b_muExpedited_Intercept        -5.6531047  -1.5759491
## b_muBribery_Coethnic            0.2098492   3.2038451
## b_muBribery_SES                -2.4919494   0.4553735
## b_muBribery_Power              -1.6313182   1.3303537
## b_muBribery_NumberOfficials     0.3896750   1.4424934
## b_muBribery_OtherCustomers     -3.2691586   0.4970794
## b_muExpedited_Coethnic          0.1046420   3.2285222
## b_muExpedited_SES              -1.9867474   0.8928870
## b_muExpedited_Power             0.9622603   4.3787570
## b_muExpedited_NumberOfficials   0.1455841   1.2098860
## b_muExpedited_OtherCustomers   -0.9119472   2.7431359
## lp__                         -80.1133909 -71.8909173
## attr(,"Probability")
## [1] 0.9
```

```
x33<-as.mcmc(bayesescom33)
HPDinterval(x33,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.46057935  -0.2881418
## b_muExpedited_Intercept        -5.97225041  -1.7504182
## b_muBribery_Coethnic            0.26295178   3.2088500
## b_muBribery_SES                -2.53401040   0.2617483
## b_muBribery_Power              -1.69719797   1.3180496
## b_muBribery_NumberOfficials     0.41901972   1.5224336
## b_muBribery_OtherCustomers     -3.26111873   0.4018006
## b_muExpedited_Coethnic          0.08274368   3.2010863
## b_muExpedited_SES              -1.87240705   0.9934183
## b_muExpedited_Power             0.96266690   4.4773716
## b_muExpedited_NumberOfficials   0.12348823   1.2309356
## b_muExpedited_OtherCustomers   -0.74828857   2.7370439
## lp__                         -79.90144859 -71.5151754
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.6325813  -0.5747999
## b_muExpedited_Intercept        -5.6905567  -1.8630164
## b_muBribery_Coethnic            0.2766483   3.1495487
## b_muBribery_SES                -2.5210805   0.3824076
## b_muBribery_Power              -1.5764500   1.2202648
## b_muBribery_NumberOfficials     0.4130918   1.4962901
## b_muBribery_OtherCustomers     -3.0864217   0.6063763
## b_muExpedited_Coethnic         -0.1956611   2.9545444
## b_muExpedited_SES              -1.8751427   0.9501184
## b_muExpedited_Power             0.9220706   4.1778496
## b_muExpedited_NumberOfficials   0.1300154   1.1649325
## b_muExpedited_OtherCustomers   -1.1208383   2.4360107
## lp__                         -79.8114439 -71.7168667
## attr(,"Probability")
## [1] 0.9
```

```
##
## [[3]]
##                                     lower       upper
## b_muBribery_Intercept          -3.52157400  -0.5165663
## b_muExpedited_Intercept        -5.55074784  -1.5955221
## b_muBribery_Coethnic            0.06062504   3.1928095
## b_muBribery_SES                -2.55051909   0.3301453
## b_muBribery_Power              -1.36854461   1.3681660
## b_muBribery_NumberOfficials     0.35656303   1.3717419
## b_muBribery_OtherCustomers     -2.90566554   0.6893139
## b_muExpedited_Coethnic          0.19349400   3.2065786
## b_muExpedited_SES              -1.84093921   0.9250051
## b_muExpedited_Power             1.16668257   4.3298414
## b_muExpedited_NumberOfficials   0.13410433   1.1813092
## b_muExpedited_OtherCustomers   -0.96615880   2.6682831
## lp__                         -79.80456891 -71.3213405
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                     lower       upper
## b_muBribery_Intercept          -3.3857609  -0.2813137
## b_muExpedited_Intercept        -5.5016654  -1.5668516
## b_muBribery_Coethnic            0.1782886   3.1537967
## b_muBribery_SES                -2.4688157   0.4553145
## b_muBribery_Power              -1.5325567   1.5290064
## b_muBribery_NumberOfficials     0.3310656   1.4288341
## b_muBribery_OtherCustomers     -3.0778634   0.7849843
## b_muExpedited_Coethnic          0.1793431   3.4373497
## b_muExpedited_SES              -1.9691307   0.7961657
## b_muExpedited_Power             0.9057068   4.3518098
## b_muExpedited_NumberOfficials   0.1053945   1.1487598
## b_muExpedited_OtherCustomers   -1.0706747   2.5284851
## lp__                         -79.9383331 -71.7594221
## attr(,"Probability")
## [1] 0.9
```

```
xall33<-do.call(rbind,x33)
HPDinterval(mcmc(xall33),0.9)
```

```
##                                     lower       upper
## b_muBribery_Intercept          -3.42049056  -0.3073714
## b_muExpedited_Intercept        -5.59405049  -1.5836170
## b_muBribery_Coethnic            0.17828862   3.1639496
## b_muBribery_SES                -2.52798435   0.3732240
## b_muBribery_Power              -1.56683214   1.3642445
## b_muBribery_NumberOfficials     0.34040702   1.4253959
## b_muBribery_OtherCustomers     -3.26111873   0.4884640
## b_muExpedited_Coethnic          0.07805925   3.2292280
## b_muExpedited_SES              -1.84169410   0.9934183
## b_muExpedited_Power             1.03849708   4.4067073
## b_muExpedited_NumberOfficials   0.11243410   1.1768390
## b_muExpedited_OtherCustomers   -0.95765802   2.6686070
## lp__                         -80.02444212 -71.7256518
## attr(,"Probability")
```

```
## [1] 0.9
```

```
x34<-as.mcmc(bayesescom34)
HPDinterval(x34,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.7863745  -0.5106070
## b_muExpedited_Intercept        -5.6335856  -1.6801148
## b_muBribery_Coethnic            0.3159068   3.2950321
## b_muBribery_SES                -2.6036532   0.2996640
## b_muBribery_Power              -1.4776667   1.4617241
## b_muBribery_NumberOfficials     0.3964401   1.4978804
## b_muBribery_OtherCustomers     -3.3866711   0.4976629
## b_muExpedited_Coethnic         -0.1640236   3.1052268
## b_muExpedited_SES              -1.9069600   0.8227164
## b_muExpedited_Power             0.9947182   4.3296306
## b_muExpedited_NumberOfficials   0.1186151   1.2228675
## b_muExpedited_OtherCustomers   -0.9208281   2.6604133
## lp__                         -79.2377985 -71.1679668
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.55999865  -0.4184115
## b_muExpedited_Intercept        -5.49860409  -1.5354424
## b_muBribery_Coethnic            0.25374695   3.1448172
## b_muBribery_SES                -2.60085493   0.3159742
## b_muBribery_Power              -1.52358408   1.2421017
## b_muBribery_NumberOfficials     0.41486610   1.4906659
## b_muBribery_OtherCustomers     -3.09586995   0.5062298
## b_muExpedited_Coethnic          0.15324396   3.2918970
## b_muExpedited_SES              -2.09298499   0.9304577
## b_muExpedited_Power             1.04959892   4.3949489
## b_muExpedited_NumberOfficials   0.07342943   1.1343992
## b_muExpedited_OtherCustomers   -0.86526081   2.6581191
## lp__                         -79.24575180 -71.2048339
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -3.5065687  -0.2886481
## b_muExpedited_Intercept        -5.4583356  -1.5200733
## b_muBribery_Coethnic            0.1244649   3.1606956
## b_muBribery_SES                -2.6396655   0.3465891
## b_muBribery_Power              -1.5779906   1.2813748
## b_muBribery_NumberOfficials     0.3554293   1.3867316
## b_muBribery_OtherCustomers     -3.1703830   0.4765417
## b_muExpedited_Coethnic         -0.1226958   2.8737179
## b_muExpedited_SES              -1.9432860   0.8248346
## b_muExpedited_Power             0.9144812   4.2621285
## b_muExpedited_NumberOfficials   0.1259982   1.1830997
## b_muExpedited_OtherCustomers   -0.8597342   2.6978121
```

```
## lp__                           -78.9636455 -70.9898635
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                       lower       upper
## b_muBribery_Intercept          -3.57841817  -0.3595634
## b_muExpedited_Intercept        -5.69559941  -1.6276989
## b_muBribery_Coethnic            0.09903050   2.8993277
## b_muBribery_SES                -2.68569749   0.0823715
## b_muBribery_Power              -1.63098390   1.2663945
## b_muBribery_NumberOfficials     0.37930070   1.4405216
## b_muBribery_OtherCustomers     -3.28847248   0.5451327
## b_muExpedited_Coethnic         -0.08997115   3.0840860
## b_muExpedited_SES              -1.81253919   1.0303399
## b_muExpedited_Power             0.95324075   4.2049399
## b_muExpedited_NumberOfficials   0.13679430   1.2441944
## b_muExpedited_OtherCustomers   -0.97847890   2.7218622
## lp__                           -79.73137825 -71.2785017
## attr(,"Probability")
## [1] 0.9
```

```
xall34<-do.call(rbind,x34)
HPDinterval(mcmc(xall34),0.9)
```

```
##                                       lower       upper
## b_muBribery_Intercept          -3.57841817  -0.3399602
## b_muExpedited_Intercept        -5.66494710  -1.6477415
## b_muBribery_Coethnic            0.22781264   3.1824797
## b_muBribery_SES                -2.60293713   0.3101333
## b_muBribery_Power              -1.55245812   1.3278977
## b_muBribery_NumberOfficials     0.37417471   1.4473148
## b_muBribery_OtherCustomers     -3.28847248   0.4765417
## b_muExpedited_Coethnic          0.02629842   3.1977069
## b_muExpedited_SES              -1.95340947   0.8791973
## b_muExpedited_Power             1.04919755   4.4038544
## b_muExpedited_NumberOfficials   0.09540637   1.1834020
## b_muExpedited_OtherCustomers   -0.90678658   2.6999224
## lp__                           -79.35045321 -71.1492769
## attr(,"Probability")
## [1] 0.9
```

```
x35<-as.mcmc(bayesescom35)
HPDinterval(x35,0.9)
```

```
## [[1]]
##                                       lower       upper
## b_muBribery_Intercept          -3.40741087  -0.3941433
## b_muExpedited_Intercept        -5.44472334  -1.5084257
## b_muBribery_Coethnic            0.17707521   3.0479963
## b_muBribery_SES                -2.51741671   0.3763968
## b_muBribery_Power              -1.46847522   1.3621107
## b_muBribery_NumberOfficials     0.38019252   1.4044746
## b_muBribery_OtherCustomers     -2.91248076   0.6955318
## b_muExpedited_Coethnic         -0.04717851   3.0328150
```

```
## b_muExpedited_SES              -1.83621188   0.8306568
## b_muExpedited_Power             0.99002099   4.2843927
## b_muExpedited_NumberOfficials   0.10521605   1.0974958
## b_muExpedited_OtherCustomers   -0.82586751   2.8729116
## lp__                         -78.38283938 -70.7107002
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.57800241  -0.5153127
## b_muExpedited_Intercept        -5.60890844  -1.7693459
## b_muBribery_Coethnic            0.19603299   2.9746573
## b_muBribery_SES                -2.43056354   0.4000650
## b_muBribery_Power              -1.56198810   1.2396294
## b_muBribery_NumberOfficials     0.33454029   1.3895605
## b_muBribery_OtherCustomers     -3.20233588   0.6445918
## b_muExpedited_Coethnic          0.02787665   3.1341627
## b_muExpedited_SES              -1.76392305   1.0749903
## b_muExpedited_Power             1.08911112   4.1816010
## b_muExpedited_NumberOfficials   0.13342263   1.1925973
## b_muExpedited_OtherCustomers   -0.85404973   2.6842206
## lp__                         -78.94869917 -70.6381468
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                       lower       upper
## b_muBribery_Intercept          -3.714394199  -0.4685013
## b_muExpedited_Intercept        -5.453006664  -1.6676035
## b_muBribery_Coethnic            0.230683124   3.2025192
## b_muBribery_SES                -2.524286953   0.3049069
## b_muBribery_Power              -1.611018464   1.1646793
## b_muBribery_NumberOfficials     0.396007531   1.4676784
## b_muBribery_OtherCustomers     -3.011293881   0.6227997
## b_muExpedited_Coethnic          0.001309936   2.9912067
## b_muExpedited_SES              -1.929989173   0.8388552
## b_muExpedited_Power             1.138313526   4.3603592
## b_muExpedited_NumberOfficials   0.124364259   1.1694718
## b_muExpedited_OtherCustomers   -0.825901236   2.7107553
## lp__                         -78.743556488 -70.9069910
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.4232553  -0.4120468
## b_muExpedited_Intercept        -5.6567294  -1.7693440
## b_muBribery_Coethnic            0.1737505   3.2382721
## b_muBribery_SES                -2.3254738   0.2999231
## b_muBribery_Power              -1.5862932   1.3363103
## b_muBribery_NumberOfficials     0.4079502   1.4540337
## b_muBribery_OtherCustomers     -3.0883637   0.5903570
## b_muExpedited_Coethnic         -0.1776631   3.0515767
```

```
## b_muExpedited_SES              -1.8120197   0.8900747
## b_muExpedited_Power             0.7621038   4.2465199
## b_muExpedited_NumberOfficials   0.1993784   1.2693987
## b_muExpedited_OtherCustomers   -0.7775646   2.7905692
## lp__                          -78.5677973 -70.8210176
## attr(,"Probability")
## [1] 0.9
```

```
xall35<-do.call(rbind,x35)
HPDinterval(mcmc(xall35),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.5030999  -0.3941433
## b_muExpedited_Intercept        -5.4566266  -1.5705600
## b_muBribery_Coethnic            0.1718962   3.1110556
## b_muBribery_SES                -2.4915000   0.3164254
## b_muBribery_Power              -1.6117819   1.2396294
## b_muBribery_NumberOfficials     0.3722068   1.4300673
## b_muBribery_OtherCustomers     -2.9575632   0.7434201
## b_muExpedited_Coethnic         -0.0658068   3.0653540
## b_muExpedited_SES              -1.8569072   0.9200710
## b_muExpedited_Power             1.0169959   4.3302789
## b_muExpedited_NumberOfficials   0.1243643   1.1709374
## b_muExpedited_OtherCustomers   -0.8454887   2.7768787
## lp__                          -78.6347080 -70.7340609
## attr(,"Probability")
## [1] 0.9
```

```
x36<-as.mcmc(bayesescom36)
HPDinterval(x36,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -3.74121225  -0.4089953
## b_muExpedited_Intercept        -5.77690308  -1.5401184
## b_muBribery_Coethnic            0.19037944   3.0936121
## b_muBribery_SES                -2.68783691   0.3277061
## b_muBribery_Power              -1.63975860   1.1800568
## b_muBribery_NumberOfficials     0.38368547   1.4305850
## b_muBribery_OtherCustomers     -2.93376106   0.6873309
## b_muExpedited_Coethnic          0.06932894   3.0502018
## b_muExpedited_SES              -1.88656155   0.8521240
## b_muExpedited_Power             0.92621285   4.2938858
## b_muExpedited_NumberOfficials   0.06184312   1.1273331
## b_muExpedited_OtherCustomers   -0.69849701   2.8258573
## lp__                          -78.72515183 -70.3348082
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.4464494  -0.2511451
## b_muExpedited_Intercept        -5.2262753  -1.3731915
## b_muBribery_Coethnic            0.2355964   3.0610839
## b_muBribery_SES                -2.3715679   0.5613917
```

```
## b_muBribery_Power              -1.5074521   1.4846457
## b_muBribery_NumberOfficials     0.4002919   1.4607591
## b_muBribery_OtherCustomers     -3.0799850   0.6903930
## b_muExpedited_Coethnic         -0.1335342   3.0381818
## b_muExpedited_SES              -2.0697073   0.9582125
## b_muExpedited_Power             0.8879145   4.1143888
## b_muExpedited_NumberOfficials   0.1148994   1.1536698
## b_muExpedited_OtherCustomers   -0.8243391   2.7157390
## lp__                         -78.4867855 -70.0586047
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                     lower       upper
## b_muBribery_Intercept          -3.49115254  -0.3828040
## b_muExpedited_Intercept        -5.53671692  -1.6541288
## b_muBribery_Coethnic            0.08059247   2.9702214
## b_muBribery_SES                -2.45556506   0.2464606
## b_muBribery_Power              -1.39072163   1.4063560
## b_muBribery_NumberOfficials     0.36597634   1.4094304
## b_muBribery_OtherCustomers     -3.23175279   0.5701905
## b_muExpedited_Coethnic          0.02300282   3.1687286
## b_muExpedited_SES              -1.73968377   1.0133958
## b_muExpedited_Power             1.13703373   4.2968871
## b_muExpedited_NumberOfficials   0.08345695   1.1245388
## b_muExpedited_OtherCustomers   -0.81016620   2.5193162
## lp__                         -77.79307267 -70.2234639
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                     lower       upper
## b_muBribery_Intercept          -3.4793996  -0.4261897
## b_muExpedited_Intercept        -5.4837349  -1.6177874
## b_muBribery_Coethnic            0.2046372   2.9927699
## b_muBribery_SES                -2.3873120   0.3490433
## b_muBribery_Power              -1.5171578   1.2433162
## b_muBribery_NumberOfficials     0.4050776   1.4327439
## b_muBribery_OtherCustomers     -3.0211574   0.4605611
## b_muExpedited_Coethnic          0.1633908   3.1631619
## b_muExpedited_SES              -1.8461898   0.8925196
## b_muExpedited_Power             1.0110382   4.3862243
## b_muExpedited_NumberOfficials   0.1890416   1.2181345
## b_muExpedited_OtherCustomers   -1.0502953   2.5783876
## lp__                         -77.9419514 -70.0028406
## attr(,"Probability")
## [1] 0.9
```

```
xall36<-do.call(rbind,x36)
HPDinterval(mcmc(xall36),0.9)
```

```
##                                     lower       upper
## b_muBribery_Intercept          -3.49115254  -0.3126901
## b_muExpedited_Intercept        -5.53573601  -1.5401184
## b_muBribery_Coethnic            0.17224752   3.0396983
```

```
## b_muBribery_SES                -2.53689050   0.3403479
## b_muBribery_Power              -1.50066933   1.3676099
## b_muBribery_NumberOfficials     0.39021434   1.4395464
## b_muBribery_OtherCustomers     -3.19957311   0.4932508
## b_muExpedited_Coethnic          0.08460332   3.1691186
## b_muExpedited_SES              -1.89458501   0.9461036
## b_muExpedited_Power             0.96322549   4.2541298
## b_muExpedited_NumberOfficials   0.07058268   1.1253665
## b_muExpedited_OtherCustomers   -0.81092160   2.7366058
## lp__                         -78.33494222 -70.2035964
## attr(,"Probability")
## [1] 0.9
```

```
x37<-as.mcmc(bayesescom37)
HPDinterval(x37,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.2786830  -0.3559771
## b_muExpedited_Intercept        -5.3366204  -1.6034244
## b_muBribery_Coethnic            0.1382057   3.0602229
## b_muBribery_SES                -2.3914332   0.4333883
## b_muBribery_Power              -1.5089666   1.2050853
## b_muBribery_NumberOfficials     0.3761343   1.3675965
## b_muBribery_OtherCustomers     -2.9358328   0.4847106
## b_muExpedited_Coethnic         -0.0400484   3.0094456
## b_muExpedited_SES              -1.9213802   0.8201090
## b_muExpedited_Power             0.9233650   4.1256672
## b_muExpedited_NumberOfficials   0.1181652   1.0771827
## b_muExpedited_OtherCustomers   -0.9108216   2.5374286
## lp__                         -77.6003336 -69.6587688
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.46620543  -0.3235219
## b_muExpedited_Intercept        -5.20430344  -1.2994156
## b_muBribery_Coethnic            0.14274073   3.1026863
## b_muBribery_SES                -2.46622039   0.1943025
## b_muBribery_Power              -1.57428219   1.3901859
## b_muBribery_NumberOfficials     0.32352586   1.3687594
## b_muBribery_OtherCustomers     -3.19134532   0.3691270
## b_muExpedited_Coethnic         -0.01659222   3.1042092
## b_muExpedited_SES              -1.73712092   0.8947481
## b_muExpedited_Power             0.80101705   3.9498660
## b_muExpedited_NumberOfficials   0.15703249   1.2132811
## b_muExpedited_OtherCustomers   -1.12439555   2.5726249
## lp__                         -77.58032142 -69.6681258
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -3.47695249  -0.4454528
```

```
## b_muExpedited_Intercept        -5.52108104  -1.6422240
## b_muBribery_Coethnic            0.17650945   3.0070913
## b_muBribery_SES                -2.41564102   0.3020527
## b_muBribery_Power              -1.75873238   1.1720938
## b_muBribery_NumberOfficials     0.36039607   1.4229238
## b_muBribery_OtherCustomers     -2.95929161   0.8379186
## b_muExpedited_Coethnic          0.04220941   3.0498038
## b_muExpedited_SES              -1.74232647   0.8555158
## b_muExpedited_Power             0.89543475   4.1674791
## b_muExpedited_NumberOfficials   0.14452940   1.1742408
## b_muExpedited_OtherCustomers   -0.85637931   2.6093095
## lp__                         -78.27220735 -69.8090261
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.24140066  -0.3680907
## b_muExpedited_Intercept        -5.12701556  -1.2731533
## b_muBribery_Coethnic            0.16747281   3.1209525
## b_muBribery_SES                -2.35052941   0.3484224
## b_muBribery_Power              -1.41159466   1.2511082
## b_muBribery_NumberOfficials     0.36920296   1.3719858
## b_muBribery_OtherCustomers     -2.90355148   0.5258864
## b_muExpedited_Coethnic         -0.03593705   3.0901857
## b_muExpedited_SES              -1.75292773   0.8991044
## b_muExpedited_Power             0.84677890   4.1165774
## b_muExpedited_NumberOfficials   0.13399657   1.1029379
## b_muExpedited_OtherCustomers   -0.91192213   2.5562052
## lp__                         -77.98845962 -69.7695195
## attr(,"Probability")
## [1] 0.9
```

```
xall37<-do.call(rbind,x37)
HPDinterval(mcmc(xall37),0.9)
```

```
##                                      lower       upper
## b_muBribery_Intercept          -3.45647466  -0.4454528
## b_muExpedited_Intercept        -5.18153693  -1.2994156
## b_muBribery_Coethnic            0.08868539   3.0163797
## b_muBribery_SES                -2.44946816   0.3020527
## b_muBribery_Power              -1.57428219   1.2750576
## b_muBribery_NumberOfficials     0.38248185   1.4137440
## b_muBribery_OtherCustomers     -2.95044411   0.6615974
## b_muExpedited_Coethnic         -0.04251752   3.0498038
## b_muExpedited_SES              -1.76887909   0.8925465
## b_muExpedited_Power             0.88126352   4.1179517
## b_muExpedited_NumberOfficials   0.14268398   1.1570608
## b_muExpedited_OtherCustomers   -0.88465511   2.6634508
## lp__                         -77.68382593 -69.5403285
## attr(,"Probability")
## [1] 0.9
```

```
x38<-as.mcmc(bayesescom38)
HPDinterval(x38,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.66469461  -0.4155419
## b_muExpedited_Intercept        -5.39295865  -1.5246596
## b_muBribery_Coethnic           -0.01206073   2.8614670
## b_muBribery_SES                -2.31716892   0.5683752
## b_muBribery_Power              -1.57939739   1.2065535
## b_muBribery_NumberOfficials     0.38169073   1.4075774
## b_muBribery_OtherCustomers     -3.08827008   0.6149346
## b_muExpedited_Coethnic          0.05149903   3.1160959
## b_muExpedited_SES              -1.72975842   0.9731567
## b_muExpedited_Power             0.88722307   4.2187037
## b_muExpedited_NumberOfficials   0.15539185   1.2256532
## b_muExpedited_OtherCustomers   -1.02897070   2.3387287
## lp__                         -77.68529972 -69.1301827
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.21368763  -0.1461205
## b_muExpedited_Intercept        -5.13414174  -1.4397611
## b_muBribery_Coethnic            0.13811946   2.9704048
## b_muBribery_SES                -2.45055239   0.2862750
## b_muBribery_Power              -1.51337385   1.2689412
## b_muBribery_NumberOfficials     0.37301531   1.3931126
## b_muBribery_OtherCustomers     -3.05670984   0.5580457
## b_muExpedited_Coethnic          0.01461375   2.8602990
## b_muExpedited_SES              -1.82187377   0.7234617
## b_muExpedited_Power             0.79485808   3.8359665
## b_muExpedited_NumberOfficials   0.10771894   1.1022779
## b_muExpedited_OtherCustomers   -0.86199704   2.6374183
## lp__                         -77.61361840 -69.4473897
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -3.67396456  -0.4712378
## b_muExpedited_Intercept        -5.63148417  -1.6455898
## b_muBribery_Coethnic            0.21472731   3.1402040
## b_muBribery_SES                -2.54519536   0.2447025
## b_muBribery_Power              -1.71176590   1.1765951
## b_muBribery_NumberOfficials     0.30907514   1.4103373
## b_muBribery_OtherCustomers     -3.04963504   0.5855529
## b_muExpedited_Coethnic         -0.01114664   2.9509713
## b_muExpedited_SES              -1.71344575   1.0668004
## b_muExpedited_Power             1.03753937   4.3136570
## b_muExpedited_NumberOfficials   0.14568162   1.2573875
## b_muExpedited_OtherCustomers   -0.88054911   2.6220373
## lp__                         -77.24469536 -68.8908854
## attr(,"Probability")
## [1] 0.9
##
```

```
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.29488612  -0.2977648
## b_muExpedited_Intercept        -5.22455640  -1.5300586
## b_muBribery_Coethnic           -0.06233415   2.9331527
## b_muBribery_SES                -2.38060716   0.3427473
## b_muBribery_Power              -1.41890009   1.2577347
## b_muBribery_NumberOfficials     0.36240552   1.4182144
## b_muBribery_OtherCustomers     -3.07143138   0.4741325
## b_muExpedited_Coethnic          0.03207346   3.1144418
## b_muExpedited_SES              -1.67772410   0.9659374
## b_muExpedited_Power             0.97787426   4.0557210
## b_muExpedited_NumberOfficials   0.10843146   1.1900433
## b_muExpedited_OtherCustomers   -1.05318023   2.4342916
## lp__                         -77.01870490 -68.7980309
## attr(,"Probability")
## [1] 0.9
```

```
xall38<-do.call(rbind,x38)
HPDinterval(mcmc(xall38),0.9)
```

```
##                                       lower       upper
## b_muBribery_Intercept          -3.617015997  -0.4302587
## b_muExpedited_Intercept        -5.293121175  -1.4445086
## b_muBribery_Coethnic           -0.006853826   2.9331527
## b_muBribery_SES                -2.366024771   0.4336770
## b_muBribery_Power              -1.518990986   1.2760304
## b_muBribery_NumberOfficials     0.356198970   1.4075774
## b_muBribery_OtherCustomers     -3.018469802   0.6153348
## b_muExpedited_Coethnic          0.106783419   3.1160959
## b_muExpedited_SES              -1.822672584   0.8651872
## b_muExpedited_Power             0.914657042   4.1310006
## b_muExpedited_NumberOfficials   0.108431462   1.1826503
## b_muExpedited_OtherCustomers   -0.954925426   2.5421172
## lp__                         -77.432330962 -69.0468676
## attr(,"Probability")
## [1] 0.9
```

```
x39<-as.mcmc(bayesescom39)
HPDinterval(x39,0.9)
```

```
## [[1]]
##                                      lower       upper
## b_muBribery_Intercept          -3.46426921  -0.4465515
## b_muExpedited_Intercept        -5.33884937  -1.4584943
## b_muBribery_Coethnic            0.09542759   2.8019192
## b_muBribery_SES                -2.26075088   0.5613497
## b_muBribery_Power              -1.56800491   1.2521731
## b_muBribery_NumberOfficials     0.36464716   1.4315338
## b_muBribery_OtherCustomers     -2.97877811   0.5846488
## b_muExpedited_Coethnic          0.04271127   2.9148233
## b_muExpedited_SES              -1.84846269   0.9398790
## b_muExpedited_Power             0.97049858   4.1301998
## b_muExpedited_NumberOfficials   0.16326254   1.1627430
## b_muExpedited_OtherCustomers   -0.92882057   2.4521542
```

```
## lp__                            -76.66492198 -68.5984752
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                       lower       upper
## b_muBribery_Intercept          -3.63083778  -0.4198168
## b_muExpedited_Intercept        -5.23792027  -1.5208655
## b_muBribery_Coethnic            0.19248098   3.0885789
## b_muBribery_SES                -2.51618274   0.2719087
## b_muBribery_Power              -1.51757917   1.2535353
## b_muBribery_NumberOfficials     0.33400122   1.3850288
## b_muBribery_OtherCustomers     -2.97481162   0.4095944
## b_muExpedited_Coethnic         -0.04533861   2.8716029
## b_muExpedited_SES              -1.79948397   1.0273115
## b_muExpedited_Power             0.96015464   4.0124762
## b_muExpedited_NumberOfficials   0.09776102   1.1425222
## b_muExpedited_OtherCustomers   -0.82940131   2.6222638
## lp__                           -76.12444293 -68.4375075
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                       lower       upper
## b_muBribery_Intercept          -3.33739376  -0.3866419
## b_muExpedited_Intercept        -5.25879574  -1.4980885
## b_muBribery_Coethnic            0.04461868   2.8752664
## b_muBribery_SES                -2.27147052   0.4400467
## b_muBribery_Power              -1.48692939   1.2271538
## b_muBribery_NumberOfficials     0.38881776   1.4074376
## b_muBribery_OtherCustomers     -2.93931700   0.4862721
## b_muExpedited_Coethnic         -0.16827980   2.8401383
## b_muExpedited_SES              -1.60528570   1.0379541
## b_muExpedited_Power             1.01319025   4.0378062
## b_muExpedited_NumberOfficials   0.11861062   1.2169487
## b_muExpedited_OtherCustomers   -1.05951284   2.4444756
## lp__                           -76.40847725 -68.1481879
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                       lower       upper
## b_muBribery_Intercept          -3.47844505  -0.4055788
## b_muExpedited_Intercept        -5.13253085  -1.3779718
## b_muBribery_Coethnic            0.05860707   2.8586329
## b_muBribery_SES                -2.20320676   0.5788748
## b_muBribery_Power              -1.45944539   1.2368019
## b_muBribery_NumberOfficials     0.32932553   1.3674465
## b_muBribery_OtherCustomers     -3.00538265   0.7422309
## b_muExpedited_Coethnic         -0.02194370   3.0273186
## b_muExpedited_SES              -1.69620464   0.7417704
## b_muExpedited_Power             0.81649578   3.9005204
## b_muExpedited_NumberOfficials   0.07658504   1.1494595
## b_muExpedited_OtherCustomers   -0.98378069   2.5321961
```

```
## lp__                           -76.07960749 -68.0219969
## attr(,"Probability")
## [1] 0.9
```

```
xall39<-do.call(rbind,x39)
HPDinterval(mcmc(xall39),0.9)
```

```
##                                      lower       upper
## b_muBribery_Intercept          -3.46790921  -0.4041745
## b_muExpedited_Intercept        -5.24308184  -1.4372805
## b_muBribery_Coethnic            0.16482464   2.9941420
## b_muBribery_SES                -2.38082525   0.4145673
## b_muBribery_Power              -1.45144566   1.3128228
## b_muBribery_NumberOfficials     0.37614805   1.4297867
## b_muBribery_OtherCustomers     -2.98880775   0.5414001
## b_muExpedited_Coethnic          0.02099672   3.0116300
## b_muExpedited_SES              -1.73297135   0.9620590
## b_muExpedited_Power             0.96781941   4.0670495
## b_muExpedited_NumberOfficials   0.13348415   1.1945408
## b_muExpedited_OtherCustomers   -0.95175875   2.5423052
## lp__                          -76.44201066 -68.3974395
## attr(,"Probability")
## [1] 0.9
```

```
x40<-as.mcmc(bayesescom40)
HPDinterval(x40,0.9)
```

```
## [[1]]
##                                      lower       upper
## b_muBribery_Intercept          -3.36964436  -0.3163854
## b_muExpedited_Intercept        -5.17685153  -1.4843370
## b_muBribery_Coethnic           -0.02558336   2.6890712
## b_muBribery_SES                -2.21269782   0.4146769
## b_muBribery_Power              -1.54809773   1.1781818
## b_muBribery_NumberOfficials     0.36405583   1.3717237
## b_muBribery_OtherCustomers     -3.06158043   0.5371376
## b_muExpedited_Coethnic         -0.01470518   2.6866963
## b_muExpedited_SES              -1.76633258   0.9349961
## b_muExpedited_Power             0.77928931   3.8385837
## b_muExpedited_NumberOfficials   0.05593979   1.0550883
## b_muExpedited_OtherCustomers   -0.90977003   2.4550387
## lp__                          -76.00419040 -67.6063683
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.44183274  -0.3545307
## b_muExpedited_Intercept        -5.13313512  -1.2574514
## b_muBribery_Coethnic            0.06399962   2.8654273
## b_muBribery_SES                -2.36607131   0.4662947
## b_muBribery_Power              -1.55661810   1.2208892
## b_muBribery_NumberOfficials     0.37154247   1.3604793
## b_muBribery_OtherCustomers     -3.00237330   0.6232378
## b_muExpedited_Coethnic         -0.01226890   2.7688355
```

```
## b_muExpedited_SES              -1.64056942   0.9954223
## b_muExpedited_Power             0.78531576   3.8398580
## b_muExpedited_NumberOfficials   0.08725483   1.1614180
## b_muExpedited_OtherCustomers   -0.97377006   2.3126602
## lp__                         -76.26703900 -67.6811383
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                     lower       upper
## b_muBribery_Intercept          -3.3956749  -0.2647901
## b_muExpedited_Intercept        -5.0574328  -1.3083240
## b_muBribery_Coethnic            0.1966420   2.9048902
## b_muBribery_SES                -2.3502814   0.3278530
## b_muBribery_Power              -1.5716128   1.2160298
## b_muBribery_NumberOfficials     0.3604050   1.3382171
## b_muBribery_OtherCustomers     -2.8343517   0.5827980
## b_muExpedited_Coethnic         -0.0505561   2.7389202
## b_muExpedited_SES              -1.5505179   1.0209164
## b_muExpedited_Power             0.7489301   3.8353443
## b_muExpedited_NumberOfficials   0.1394611   1.1126174
## b_muExpedited_OtherCustomers   -0.7881663   2.3776649
## lp__                         -75.6913186 -67.5886898
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                     lower       upper
## b_muBribery_Intercept          -3.3376573  -0.4323539
## b_muExpedited_Intercept        -5.0486237  -1.3015456
## b_muBribery_Coethnic           -0.1245749   2.7653745
## b_muBribery_SES                -2.2988319   0.4832979
## b_muBribery_Power              -1.4541594   1.3980731
## b_muBribery_NumberOfficials     0.3282201   1.3518749
## b_muBribery_OtherCustomers     -3.0747430   0.4177801
## b_muExpedited_Coethnic         -0.1709114   2.7836840
## b_muExpedited_SES              -1.5888338   0.8963883
## b_muExpedited_Power             0.9069319   3.8469208
## b_muExpedited_NumberOfficials   0.1321323   1.1595722
## b_muExpedited_OtherCustomers   -0.8780661   2.3952374
## lp__                         -75.7717248 -68.0834484
## attr(,"Probability")
## [1] 0.9
```

```
xall40<-do.call(rbind,x40)
HPDinterval(mcmc(xall40),0.9)
```

```
##                                     lower       upper
## b_muBribery_Intercept          -3.37382353  -0.3111558
## b_muExpedited_Intercept        -5.04862368  -1.2773207
## b_muBribery_Coethnic            0.05703948   2.8497207
## b_muBribery_SES                -2.27866685   0.4732513
## b_muBribery_Power              -1.57161277   1.2208892
## b_muBribery_NumberOfficials     0.32308852   1.3322734
## b_muBribery_OtherCustomers     -2.92334352   0.6327596
```

```
## b_muExpedited_Coethnic         -0.09017102   2.7389312
## b_muExpedited_SES              -1.64302135   0.9705768
## b_muExpedited_Power             0.80190770   3.8469632
## b_muExpedited_NumberOfficials   0.13140730   1.1604074
## b_muExpedited_OtherCustomers   -0.91424476   2.3826217
## lp__                         -75.81658483 -67.6647906
## attr(,"Probability")
## [1] 0.9
```

```
x41<-as.mcmc(bayesescom41)
HPDinterval(x41,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.5028974  -0.3110966
## b_muExpedited_Intercept        -4.8561154  -1.3095213
## b_muBribery_Coethnic            0.1451669   2.9474259
## b_muBribery_SES                -2.2665245   0.4859833
## b_muBribery_Power              -1.5686863   1.1926076
## b_muBribery_NumberOfficials     0.4008170   1.4478945
## b_muBribery_OtherCustomers     -2.6879853   0.6472644
## b_muExpedited_Coethnic         -0.1876790   2.7173132
## b_muExpedited_SES              -1.6386079   1.1165456
## b_muExpedited_Power             0.7413183   3.7448906
## b_muExpedited_NumberOfficials   0.1103573   1.1390827
## b_muExpedited_OtherCustomers   -1.1053733   2.2738430
## lp__                         -75.6305977 -67.5555207
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                     lower       upper
## b_muBribery_Intercept          -3.55970500  -0.4359727
## b_muExpedited_Intercept        -5.34526003  -1.4144450
## b_muBribery_Coethnic           -0.04655057   2.6888124
## b_muBribery_SES                -2.28495731   0.3807432
## b_muBribery_Power              -1.55872050   1.3098865
## b_muBribery_NumberOfficials     0.30275535   1.3535214
## b_muBribery_OtherCustomers     -2.92922027   0.4341341
## b_muExpedited_Coethnic         -0.12839064   2.7016264
## b_muExpedited_SES              -1.78102849   0.9300508
## b_muExpedited_Power             0.82426679   3.9964892
## b_muExpedited_NumberOfficials   0.03365757   1.1299361
## b_muExpedited_OtherCustomers   -0.80296077   2.3689507
## lp__                         -74.71054003 -67.1382079
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.313338752  -0.3694427
## b_muExpedited_Intercept        -4.868807080  -1.2463092
## b_muBribery_Coethnic            0.131080257   2.8165716
## b_muBribery_SES                -2.114079278   0.3007880
## b_muBribery_Power              -1.582934022   1.1801186
```

```
## b_muBribery_NumberOfficials     0.363752356   1.4054484
## b_muBribery_OtherCustomers     -2.872362677   0.5396885
## b_muExpedited_Coethnic         -0.001439328   2.7888924
## b_muExpedited_SES              -1.563887138   1.0664125
## b_muExpedited_Power             0.756070396   3.8721261
## b_muExpedited_NumberOfficials   0.097414739   1.1341781
## b_muExpedited_OtherCustomers   -0.858074694   2.1711119
## lp__                         -75.116237198 -67.2671815
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.44895687  -0.3544587
## b_muExpedited_Intercept        -5.15457777  -1.2860561
## b_muBribery_Coethnic           -0.02245515   2.7202422
## b_muBribery_SES                -2.34973175   0.3507497
## b_muBribery_Power              -1.45990311   1.2032611
## b_muBribery_NumberOfficials     0.35090035   1.3568469
## b_muBribery_OtherCustomers     -2.92522578   0.4428645
## b_muExpedited_Coethnic         -0.13413451   2.9768069
## b_muExpedited_SES              -1.85758552   0.9278087
## b_muExpedited_Power             0.77234810   4.0881975
## b_muExpedited_NumberOfficials   0.10981738   1.0911396
## b_muExpedited_OtherCustomers   -0.70282885   2.6120432
## lp__                         -75.48669306 -67.0981601
## attr(,"Probability")
## [1] 0.9
```

```
xall41<-do.call(rbind,x41)
HPDinterval(mcmc(xall41),0.9)
```

```
##                                      lower       upper
## b_muBribery_Intercept          -3.34985725  -0.2397147
## b_muExpedited_Intercept        -4.99395345  -1.2401754
## b_muBribery_Coethnic            0.09286898   2.8532710
## b_muBribery_SES                -2.22193326   0.4481007
## b_muBribery_Power              -1.55872050   1.2242287
## b_muBribery_NumberOfficials     0.35818791   1.3999126
## b_muBribery_OtherCustomers     -2.85620626   0.5343040
## b_muExpedited_Coethnic         -0.11911491   2.7912984
## b_muExpedited_SES              -1.67427464   1.0595489
## b_muExpedited_Power             0.71046988   3.8772911
## b_muExpedited_NumberOfficials   0.09047199   1.1313834
## b_muExpedited_OtherCustomers   -0.80296077   2.4363794
## lp__                         -75.12103397 -67.0948007
## attr(,"Probability")
## [1] 0.9
```

```
x42<-as.mcmc(bayesescom42)
HPDinterval(x42,0.9)
```

```
## [[1]]
##                                      lower       upper
## b_muBribery_Intercept          -3.44171549  -0.4480423
```

```
## b_muExpedited_Intercept        -4.75810644  -1.2463627
## b_muBribery_Coethnic           -0.01511666   2.6412732
## b_muBribery_SES                -2.26848217   0.4825354
## b_muBribery_Power              -1.48823779   1.0515836
## b_muBribery_NumberOfficials     0.32718530   1.3720277
## b_muBribery_OtherCustomers     -2.74481661   0.3585571
## b_muExpedited_Coethnic         -0.19011552   2.7496221
## b_muExpedited_SES              -1.54623512   1.1291258
## b_muExpedited_Power             0.75309611   3.5534834
## b_muExpedited_NumberOfficials   0.05233099   1.0952414
## b_muExpedited_OtherCustomers   -0.95624418   2.0750365
## lp__                         -74.49646460 -66.4226276
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.28947425  -0.2370537
## b_muExpedited_Intercept        -4.92735698  -1.5124756
## b_muBribery_Coethnic           -0.01068248   2.7777459
## b_muBribery_SES                -2.25474547   0.4214985
## b_muBribery_Power              -1.50331459   1.1034139
## b_muBribery_NumberOfficials     0.32487133   1.3438135
## b_muBribery_OtherCustomers     -2.84355915   0.4688799
## b_muExpedited_Coethnic         -0.20636881   2.6225313
## b_muExpedited_SES              -1.53359862   1.0591949
## b_muExpedited_Power             0.90117382   3.7053552
## b_muExpedited_NumberOfficials   0.11077989   1.1189696
## b_muExpedited_OtherCustomers   -0.78826990   2.3908324
## lp__                         -74.94411592 -66.9500614
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.37950720  -0.3270070
## b_muExpedited_Intercept        -4.72453064  -1.4200346
## b_muBribery_Coethnic            0.09149822   2.6046131
## b_muBribery_SES                -2.12865800   0.3366182
## b_muBribery_Power              -1.47325583   1.0441781
## b_muBribery_NumberOfficials     0.37161314   1.4309239
## b_muBribery_OtherCustomers     -2.81723609   0.4773708
## b_muExpedited_Coethnic          0.02930591   2.8445076
## b_muExpedited_SES              -1.69793010   0.8013099
## b_muExpedited_Power             0.78557015   3.5047045
## b_muExpedited_NumberOfficials   0.09982908   1.0914535
## b_muExpedited_OtherCustomers   -1.00992876   2.1951951
## lp__                         -74.28020762 -66.4423189
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.5183780  -0.4376370
```

```
## b_muExpedited_Intercept        -4.8192237  -1.1676205
## b_muBribery_Coethnic            0.1118904   2.7545659
## b_muBribery_SES                -2.2146081   0.4027263
## b_muBribery_Power              -1.7502621   1.0098457
## b_muBribery_NumberOfficials     0.3724954   1.3602822
## b_muBribery_OtherCustomers     -2.6907376   0.6164872
## b_muExpedited_Coethnic         -0.1575023   2.6179739
## b_muExpedited_SES              -1.5964893   0.9055233
## b_muExpedited_Power             0.7433557   3.7042503
## b_muExpedited_NumberOfficials   0.1879481   1.1577246
## b_muExpedited_OtherCustomers   -0.9715101   2.0819271
## lp__                         -74.1786649 -66.4255838
## attr(,"Probability")
## [1] 0.9
```

```
xall42<-do.call(rbind,x42)
HPDinterval(mcmc(xall42),0.9)
```

```
##                                      lower       upper
## b_muBribery_Intercept          -3.40578416  -0.3285775
## b_muExpedited_Intercept        -4.93207516  -1.4134476
## b_muBribery_Coethnic            0.06481609   2.7455322
## b_muBribery_SES                -2.22954316   0.4176846
## b_muBribery_Power              -1.49393125   1.1166958
## b_muBribery_NumberOfficials     0.32879300   1.3607298
## b_muBribery_OtherCustomers     -2.81275120   0.4688799
## b_muExpedited_Coethnic         -0.21330382   2.6239815
## b_muExpedited_SES              -1.52659258   1.0591949
## b_muExpedited_Power             0.71508288   3.5542064
## b_muExpedited_NumberOfficials   0.11473428   1.1233017
## b_muExpedited_OtherCustomers   -0.99626951   2.1585544
## lp__                         -74.46181102 -66.4397745
## attr(,"Probability")
## [1] 0.9
```

```
x43<-as.mcmc(bayesescom43)
HPDinterval(x43,0.9)
```

```
## [[1]]
##                                      lower       upper
## b_muBribery_Intercept          -3.32646438  -0.3213526
## b_muExpedited_Intercept        -4.76518231  -1.3362047
## b_muBribery_Coethnic           -0.03771319   2.5701974
## b_muBribery_SES                -2.14121070   0.4996427
## b_muBribery_Power              -1.54198593   1.0457251
## b_muBribery_NumberOfficials     0.31883474   1.3013443
## b_muBribery_OtherCustomers     -2.71575303   0.4561674
## b_muExpedited_Coethnic         -0.15523019   2.5530706
## b_muExpedited_SES              -1.40044719   1.0678463
## b_muExpedited_Power             0.95142826   3.5695995
## b_muExpedited_NumberOfficials   0.09260834   1.0769983
## b_muExpedited_OtherCustomers   -1.03187082   2.0494153
## lp__                         -73.42774553 -65.4520034
## attr(,"Probability")
## [1] 0.9
```

```
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.28970497  -0.2830745
## b_muExpedited_Intercept        -4.88834613  -1.3687372
## b_muBribery_Coethnic            0.08830109   2.7323989
## b_muBribery_SES                -2.07268540   0.5672403
## b_muBribery_Power              -1.53166561   1.0910054
## b_muBribery_NumberOfficials     0.37442328   1.3936654
## b_muBribery_OtherCustomers     -2.59518693   0.6010611
## b_muExpedited_Coethnic         -0.06260908   2.6509605
## b_muExpedited_SES              -1.51344909   0.9896623
## b_muExpedited_Power             0.65727936   3.4306085
## b_muExpedited_NumberOfficials   0.07031248   1.1413985
## b_muExpedited_OtherCustomers   -0.95814561   2.1198980
## lp__                         -73.51908716 -65.6693227
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.42467704  -0.4429301
## b_muExpedited_Intercept        -4.74627498  -1.1642807
## b_muBribery_Coethnic           -0.14230284   2.5907889
## b_muBribery_SES                -2.17022079   0.3684539
## b_muBribery_Power              -1.46905762   1.0566607
## b_muBribery_NumberOfficials     0.41179485   1.4212740
## b_muBribery_OtherCustomers     -2.57246196   0.5905253
## b_muExpedited_Coethnic         -0.08983962   2.6190140
## b_muExpedited_SES              -1.49557454   1.0448521
## b_muExpedited_Power             0.77433248   3.4510908
## b_muExpedited_NumberOfficials   0.06284250   1.1016611
## b_muExpedited_OtherCustomers   -0.77121775   2.2611496
## lp__                         -73.68141914 -66.1282180
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.22873823  -0.2248117
## b_muExpedited_Intercept        -4.63759085  -1.2651325
## b_muBribery_Coethnic            0.07830386   2.6937361
## b_muBribery_SES                -2.18031974   0.3145964
## b_muBribery_Power              -1.49950087   0.9093668
## b_muBribery_NumberOfficials     0.36543674   1.3256486
## b_muBribery_OtherCustomers     -2.69606901   0.5150872
## b_muExpedited_Coethnic         -0.25313797   2.4372690
## b_muExpedited_SES              -1.51295622   1.1170318
## b_muExpedited_Power             0.64185137   3.4347524
## b_muExpedited_NumberOfficials   0.04399587   1.0221022
## b_muExpedited_OtherCustomers   -0.83650931   2.2712471
## lp__                         -73.18851764 -65.6419860
## attr(,"Probability")
## [1] 0.9
```

```
xall43<-do.call(rbind,x43)
HPDinterval(mcmc(xall43),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.30952184  -0.2830745
## b_muExpedited_Intercept        -4.75150779  -1.2459456
## b_muBribery_Coethnic           -0.11394528   2.5688304
## b_muBribery_SES                -2.12998282   0.4628348
## b_muBribery_Power              -1.49701330   1.0603701
## b_muBribery_NumberOfficials     0.35606993   1.3523242
## b_muBribery_OtherCustomers     -2.70100856   0.5024397
## b_muExpedited_Coethnic         -0.16054082   2.5681858
## b_muExpedited_SES              -1.50695230   1.0422498
## b_muExpedited_Power             0.64259939   3.3913838
## b_muExpedited_NumberOfficials   0.04806733   1.0781460
## b_muExpedited_OtherCustomers   -1.04944240   2.0563128
## lp__                         -73.42972332 -65.6147184
## attr(,"Probability")
## [1] 0.9
```

```
x44<-as.mcmc(bayesescom44)
HPDinterval(x44,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.29016858  -0.3742644
## b_muExpedited_Intercept        -4.76419331  -1.2557257
## b_muBribery_Coethnic            0.17001624   2.5132605
## b_muBribery_SES                -2.02224368   0.4574196
## b_muBribery_Power              -1.42231254   1.0846785
## b_muBribery_NumberOfficials     0.34801502   1.3554334
## b_muBribery_OtherCustomers     -2.61733991   0.5530056
## b_muExpedited_Coethnic         -0.15369551   2.4027245
## b_muExpedited_SES              -1.46095380   0.9840733
## b_muExpedited_Power             0.61793214   3.3453747
## b_muExpedited_NumberOfficials   0.08531149   1.1007647
## b_muExpedited_OtherCustomers   -0.90400907   2.0514461
## lp__                         -73.05053187 -64.9164185
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.18926228  -0.1853808
## b_muExpedited_Intercept        -4.54179019  -1.1865217
## b_muBribery_Coethnic           -0.04062039   2.5236786
## b_muBribery_SES                -1.98389734   0.3506293
## b_muBribery_Power              -1.46714562   1.0023363
## b_muBribery_NumberOfficials     0.30149296   1.3573488
## b_muBribery_OtherCustomers     -2.74304922   0.5515242
## b_muExpedited_Coethnic         -0.23726475   2.3767026
## b_muExpedited_SES              -1.37551462   1.1483770
## b_muExpedited_Power             0.68374804   3.4399494
## b_muExpedited_NumberOfficials   0.08323703   1.1293416
```

```
## b_muExpedited_OtherCustomers   -0.89427624   2.0563880
## lp__                          -72.82107134 -65.0863741
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.20172459  -0.2475500
## b_muExpedited_Intercept        -4.74658881  -1.3158581
## b_muBribery_Coethnic           -0.04335581   2.4660976
## b_muBribery_SES                -2.15035508   0.2996574
## b_muBribery_Power              -1.34663919   1.0814189
## b_muBribery_NumberOfficials     0.31453601   1.2682073
## b_muBribery_OtherCustomers     -2.46022873   0.4746099
## b_muExpedited_Coethnic         -0.24438919   2.3791756
## b_muExpedited_SES              -1.55753481   0.9098909
## b_muExpedited_Power             0.48850636   3.3509048
## b_muExpedited_NumberOfficials   0.12299046   1.1162594
## b_muExpedited_OtherCustomers   -0.95916784   2.0804631
## lp__                          -72.76787714 -64.6459256
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.15555357  -0.2397198
## b_muExpedited_Intercept        -4.68143593  -1.3543194
## b_muBribery_Coethnic           -0.09570515   2.5095070
## b_muBribery_SES                -2.17573590   0.4283796
## b_muBribery_Power              -1.53517017   0.9624900
## b_muBribery_NumberOfficials     0.37269406   1.3489316
## b_muBribery_OtherCustomers     -2.71752796   0.4377601
## b_muExpedited_Coethnic         -0.44244096   2.2098155
## b_muExpedited_SES              -1.44870026   0.9071733
## b_muExpedited_Power             0.69880397   3.3986330
## b_muExpedited_NumberOfficials   0.06257950   1.0534194
## b_muExpedited_OtherCustomers   -0.96887063   2.1582400
## lp__                          -72.64145182 -64.5952393
## attr(,"Probability")
## [1] 0.9
```

```
xall44<-do.call(rbind,x44)
HPDinterval(mcmc(xall44),0.9)
```

```
##                                       lower       upper
## b_muBribery_Intercept          -3.234408153  -0.2682950
## b_muExpedited_Intercept        -4.601992445  -1.1739542
## b_muBribery_Coethnic            0.008938663   2.5205053
## b_muBribery_SES                -2.150355081   0.3413302
## b_muBribery_Power              -1.467145618   1.0275223
## b_muBribery_NumberOfficials     0.350511451   1.3584341
## b_muBribery_OtherCustomers     -2.717527963   0.4301425
## b_muExpedited_Coethnic         -0.210573589   2.4101701
## b_muExpedited_SES              -1.494421986   0.9500013
## b_muExpedited_Power             0.562297189   3.3430488
```

```
## b_muExpedited_NumberOfficials   0.083095264   1.1030278
## b_muExpedited_OtherCustomers   -0.951855816   2.0837252
## lp__                         -73.071188306 -65.0494288
## attr(,"Probability")
## [1] 0.9
```

```
x45<-as.mcmc(bayesescom45)
HPDinterval(x45,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -3.15935888  -0.2591832
## b_muExpedited_Intercept        -4.44103721  -1.3150153
## b_muBribery_Coethnic           -0.05778124   2.4235285
## b_muBribery_SES                -1.92748588   0.5851158
## b_muBribery_Power              -1.44317430   0.9304985
## b_muBribery_NumberOfficials     0.25320618   1.2549186
## b_muBribery_OtherCustomers     -2.51004037   0.5635653
## b_muExpedited_Coethnic         -0.44435128   2.1014586
## b_muExpedited_SES              -1.33965979   0.9795883
## b_muExpedited_Power             0.55588147   3.0083432
## b_muExpedited_NumberOfficials   0.08544837   1.0237279
## b_muExpedited_OtherCustomers   -1.03782083   1.8039913
## lp__                         -72.01138608 -63.8653424
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -3.0480634  -0.1893175
## b_muExpedited_Intercept        -4.4830056  -1.2243564
## b_muBribery_Coethnic           -0.1457090   2.3449231
## b_muBribery_SES                -1.9341487   0.4008709
## b_muBribery_Power              -1.4226266   0.8828923
## b_muBribery_NumberOfficials     0.3164729   1.3132661
## b_muBribery_OtherCustomers     -2.3475886   0.4859336
## b_muExpedited_Coethnic         -0.1153472   2.3983747
## b_muExpedited_SES              -1.3356624   0.9162784
## b_muExpedited_Power             0.5692435   3.1442351
## b_muExpedited_NumberOfficials   0.0569438   1.1361570
## b_muExpedited_OtherCustomers   -0.9780850   1.7799438
## lp__                         -71.7309577 -63.7250153
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -3.16005711  -0.2130241
## b_muExpedited_Intercept        -4.54456066  -1.1982365
## b_muBribery_Coethnic           -0.04375984   2.3964325
## b_muBribery_SES                -1.99972214   0.3668877
## b_muBribery_Power              -1.27593380   1.0739782
## b_muBribery_NumberOfficials     0.23821121   1.2695971
## b_muBribery_OtherCustomers     -2.54241818   0.3246536
## b_muExpedited_Coethnic         -0.20923603   2.3103000
```

```
## b_muExpedited_SES              -1.46315602   0.8897928
## b_muExpedited_Power             0.66733039   3.1733535
## b_muExpedited_NumberOfficials   0.04921601   1.0757845
## b_muExpedited_OtherCustomers   -0.86114555   1.9873053
## lp__                         -71.57469753 -63.7804602
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower        upper
## b_muBribery_Intercept          -3.03203113  -0.08268367
## b_muExpedited_Intercept        -4.36544363  -1.18619519
## b_muBribery_Coethnic           -0.16986463   2.27259519
## b_muBribery_SES                -1.86762231   0.48443400
## b_muBribery_Power              -1.47646757   0.96780788
## b_muBribery_NumberOfficials     0.28384363   1.20549620
## b_muBribery_OtherCustomers     -2.34904420   0.42553078
## b_muExpedited_Coethnic         -0.08717662   2.18005001
## b_muExpedited_SES              -1.51767357   0.91601700
## b_muExpedited_Power             0.64820519   3.24928905
## b_muExpedited_NumberOfficials   0.09033473   0.96283570
## b_muExpedited_OtherCustomers   -0.97062393   1.79794127
## lp__                         -72.27663121 -64.28885830
## attr(,"Probability")
## [1] 0.9
```

```
xall45<-do.call(rbind,x45)
HPDinterval(mcmc(xall45),0.9)
```

```
##                                      lower       upper
## b_muBribery_Intercept          -3.14690971  -0.2213159
## b_muExpedited_Intercept        -4.43664913  -1.2030553
## b_muBribery_Coethnic           -0.08010454   2.3964325
## b_muBribery_SES                -1.88792710   0.5258471
## b_muBribery_Power              -1.38851934   1.0004864
## b_muBribery_NumberOfficials     0.31252736   1.3132661
## b_muBribery_OtherCustomers     -2.34962892   0.5499005
## b_muExpedited_Coethnic         -0.20923603   2.2696758
## b_muExpedited_SES              -1.35241812   1.0005560
## b_muExpedited_Power             0.58349201   3.1468013
## b_muExpedited_NumberOfficials   0.06631903   1.0491720
## b_muExpedited_OtherCustomers   -1.01823046   1.7979413
## lp__                         -71.87417714 -63.8524013
## attr(,"Probability")
## [1] 0.9
```

```
x46<-as.mcmc(bayesescom46)
HPDinterval(x46,0.9)
```

```
## [[1]]
##                                      lower       upper
## b_muBribery_Intercept          -3.10194840  -0.2173420
## b_muExpedited_Intercept        -4.15196609  -1.0556086
## b_muBribery_Coethnic           -0.10370959   2.3595624
## b_muBribery_SES                -1.92394390   0.4208113
```

```
## b_muBribery_Power              -1.55820136   0.8219993
## b_muBribery_NumberOfficials     0.24432554   1.2050338
## b_muBribery_OtherCustomers     -2.19765808   0.6495335
## b_muExpedited_Coethnic         -0.21706316   2.1805619
## b_muExpedited_SES              -1.29115992   0.9708411
## b_muExpedited_Power             0.59047537   3.0196930
## b_muExpedited_NumberOfficials   0.06267136   1.0294307
## b_muExpedited_OtherCustomers   -0.94417456   1.7435129
## lp__                         -71.04921903 -62.7487670
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -3.08496492  -0.3604866
## b_muExpedited_Intercept        -4.05076610  -0.9510064
## b_muBribery_Coethnic           -0.13387136   2.1339784
## b_muBribery_SES                -1.86214519   0.4345284
## b_muBribery_Power              -1.39700767   0.7677309
## b_muBribery_NumberOfficials     0.29673040   1.2166384
## b_muBribery_OtherCustomers     -2.04595262   0.7547007
## b_muExpedited_Coethnic         -0.26491056   2.0887668
## b_muExpedited_SES              -1.34043063   1.0064435
## b_muExpedited_Power             0.44121194   2.7693894
## b_muExpedited_NumberOfficials   0.04205705   0.9622578
## b_muExpedited_OtherCustomers   -0.79035761   1.7886992
## lp__                         -70.60913719 -63.1225055
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -3.01818304  -0.2529493
## b_muExpedited_Intercept        -4.23132576  -1.1118467
## b_muBribery_Coethnic           -0.12387258   2.1441533
## b_muBribery_SES                -1.75193994   0.5375535
## b_muBribery_Power              -1.34837627   0.9810126
## b_muBribery_NumberOfficials     0.29016820   1.2044152
## b_muBribery_OtherCustomers     -2.28361706   0.5177735
## b_muExpedited_Coethnic         -0.30756556   2.0853276
## b_muExpedited_SES              -1.35308944   0.9024480
## b_muExpedited_Power             0.53968354   2.9213503
## b_muExpedited_NumberOfficials   0.03400138   0.9933740
## b_muExpedited_OtherCustomers   -0.89119355   1.7911387
## lp__                         -71.07430799 -62.7931833
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -3.0339908  -0.3082991
## b_muExpedited_Intercept        -4.2452450  -1.1318380
## b_muBribery_Coethnic           -0.1855101   2.1608365
## b_muBribery_SES                -1.8522091   0.3653422
```

```
## b_muBribery_Power              -1.4321151   0.8416916
## b_muBribery_NumberOfficials     0.3195932   1.3213137
## b_muBribery_OtherCustomers     -2.3264104   0.5884514
## b_muExpedited_Coethnic         -0.2394971   2.1396628
## b_muExpedited_SES              -1.1295001   1.0321152
## b_muExpedited_Power             0.4424461   2.8902852
## b_muExpedited_NumberOfficials   0.1311497   1.0969047
## b_muExpedited_OtherCustomers   -0.9142350   1.6831294
## lp__                         -71.3792996 -63.2583536
## attr(,"Probability")
## [1] 0.9
```

```
xall46<-do.call(rbind,x46)
HPDinterval(mcmc(xall46),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -3.1036413  -0.3102715
## b_muExpedited_Intercept        -4.1646808  -1.0468732
## b_muBribery_Coethnic           -0.1839831   2.1472420
## b_muBribery_SES                -1.8659841   0.4405447
## b_muBribery_Power              -1.3829192   0.8965547
## b_muBribery_NumberOfficials     0.2854189   1.2354437
## b_muBribery_OtherCustomers     -2.2345578   0.6266721
## b_muExpedited_Coethnic         -0.2594599   2.1396628
## b_muExpedited_SES              -1.2929371   0.9726519
## b_muExpedited_Power             0.4768824   2.8921162
## b_muExpedited_NumberOfficials   0.0655649   1.0308230
## b_muExpedited_OtherCustomers   -0.8545365   1.7940558
## lp__                         -71.0053868 -62.9527715
## attr(,"Probability")
## [1] 0.9
```

```
x47<-as.mcmc(bayesescom47)
HPDinterval(x47,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -2.80711461  -0.2039231
## b_muExpedited_Intercept        -4.02699477  -0.9261066
## b_muBribery_Coethnic           -0.13361913   2.0367389
## b_muBribery_SES                -1.72100202   0.6305680
## b_muBribery_Power              -1.41377278   0.6947294
## b_muBribery_NumberOfficials     0.33232682   1.2123174
## b_muBribery_OtherCustomers     -1.88777372   0.5194685
## b_muExpedited_Coethnic         -0.42286851   1.8351217
## b_muExpedited_SES              -1.27083408   0.8778366
## b_muExpedited_Power             0.41906098   2.6753851
## b_muExpedited_NumberOfficials   0.07965131   1.0643246
## b_muExpedited_OtherCustomers   -0.93593040   1.4877559
## lp__                         -69.67590798 -61.9811493
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                     lower       upper
```

```
## b_muBribery_Intercept          -2.81078607  -0.0461396
## b_muExpedited_Intercept        -4.13810605  -1.0457250
## b_muBribery_Coethnic           -0.16694770   2.0611063
## b_muBribery_SES                -1.62979092   0.4545846
## b_muBribery_Power              -1.48613969   0.7308814
## b_muBribery_NumberOfficials     0.25847786   1.2085274
## b_muBribery_OtherCustomers     -2.00199384   0.6616429
## b_muExpedited_Coethnic         -0.40026005   1.8913868
## b_muExpedited_SES              -1.09588294   1.0163744
## b_muExpedited_Power             0.54322650   2.7386945
## b_muExpedited_NumberOfficials   0.06125721   1.0488252
## b_muExpedited_OtherCustomers   -1.08737780   1.5429927
## lp__                         -69.85102294 -62.0266132
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                     lower       upper
## b_muBribery_Intercept          -2.8546754  -0.3470729
## b_muExpedited_Intercept        -3.9288313  -1.1351038
## b_muBribery_Coethnic           -0.1571601   1.9954464
## b_muBribery_SES                -1.7558843   0.4439075
## b_muBribery_Power              -1.4037791   0.7191467
## b_muBribery_NumberOfficials     0.3000981   1.2121282
## b_muBribery_OtherCustomers     -2.1116299   0.4244736
## b_muExpedited_Coethnic         -0.3803603   1.7742428
## b_muExpedited_SES              -1.0876716   0.9085545
## b_muExpedited_Power             0.3891703   2.6200740
## b_muExpedited_NumberOfficials   0.0850930   0.9833912
## b_muExpedited_OtherCustomers   -0.9918869   1.4671582
## lp__                         -69.3815171 -61.6583418
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                     lower       upper
## b_muBribery_Intercept          -2.7418906  -0.1337380
## b_muExpedited_Intercept        -3.8131901  -1.0680527
## b_muBribery_Coethnic           -0.1110450   1.9876346
## b_muBribery_SES                -1.6467504   0.5131795
## b_muBribery_Power              -1.2826591   0.8973518
## b_muBribery_NumberOfficials     0.2904877   1.1781099
## b_muBribery_OtherCustomers     -1.9914229   0.5157128
## b_muExpedited_Coethnic         -0.3751327   1.8529047
## b_muExpedited_SES              -1.2105743   0.9733969
## b_muExpedited_Power             0.4217580   2.6030565
## b_muExpedited_NumberOfficials   0.1217882   1.0426014
## b_muExpedited_OtherCustomers   -0.8440765   1.6072513
## lp__                         -69.5896591 -61.5650660
## attr(,"Probability")
## [1] 0.9
```

```
xall47<-do.call(rbind,x47)
HPDinterval(mcmc(xall47),0.9)
```

```
##                                    lower       upper
## b_muBribery_Intercept          -2.81668760  -0.1576902
## b_muExpedited_Intercept        -3.90465354  -0.9361879
## b_muBribery_Coethnic           -0.15459131   2.0127675
## b_muBribery_SES                -1.67055495   0.5467564
## b_muBribery_Power              -1.41903774   0.7528810
## b_muBribery_NumberOfficials     0.28776995   1.2006611
## b_muBribery_OtherCustomers     -2.03143574   0.5194685
## b_muExpedited_Coethnic         -0.40092517   1.8419275
## b_muExpedited_SES              -1.14035469   0.9900966
## b_muExpedited_Power             0.40849866   2.6392659
## b_muExpedited_NumberOfficials   0.09687068   1.0448682
## b_muExpedited_OtherCustomers   -0.85665318   1.6436816
## lp__                         -69.82958160 -61.9474614
## attr(,"Probability")
## [1] 0.9
```

```
x48<-as.mcmc(bayesescom48)
HPDinterval(x48,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -2.76699165  -0.1816192
## b_muExpedited_Intercept        -3.44120763  -0.7806030
## b_muBribery_Coethnic           -0.20103854   1.8589031
## b_muBribery_SES                -1.50863282   0.4700791
## b_muBribery_Power              -1.22813204   0.7536497
## b_muBribery_NumberOfficials     0.22926069   1.1142118
## b_muBribery_OtherCustomers     -1.86830922   0.4083793
## b_muExpedited_Coethnic         -0.29957084   1.6280590
## b_muExpedited_SES              -0.94985543   0.9792698
## b_muExpedited_Power             0.29841110   2.1533282
## b_muExpedited_NumberOfficials   0.03626482   0.9146692
## b_muExpedited_OtherCustomers   -0.72852221   1.4934208
## lp__                         -68.07742203 -60.6644515
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                    lower       upper
## b_muBribery_Intercept          -2.67444144  -0.1977292
## b_muExpedited_Intercept        -3.68774533  -0.8774413
## b_muBribery_Coethnic           -0.20843205   1.7580899
## b_muBribery_SES                -1.51022866   0.4701699
## b_muBribery_Power              -1.22301313   0.6956469
## b_muBribery_NumberOfficials     0.24919463   1.1049064
## b_muBribery_OtherCustomers     -1.68680653   0.5467931
## b_muExpedited_Coethnic         -0.31777441   1.6578477
## b_muExpedited_SES              -1.13536867   0.7762504
## b_muExpedited_Power             0.30069741   2.2332853
## b_muExpedited_NumberOfficials   0.06519425   0.9377440
## b_muExpedited_OtherCustomers   -0.89685565   1.3800306
## lp__                         -68.34229323 -60.4304896
## attr(,"Probability")
## [1] 0.9
```

```
##
## [[3]]
##                                       lower       upper
## b_muBribery_Intercept          -2.83573481  -0.2671096
## b_muExpedited_Intercept        -3.80059295  -1.0343424
## b_muBribery_Coethnic           -0.19654812   1.7362423
## b_muBribery_SES                -1.53305698   0.5629054
## b_muBribery_Power              -1.22107980   0.7620163
## b_muBribery_NumberOfficials     0.22400170   1.0961939
## b_muBribery_OtherCustomers     -1.97412561   0.3846176
## b_muExpedited_Coethnic         -0.35041126   1.6640373
## b_muExpedited_SES              -1.04243355   0.9040069
## b_muExpedited_Power             0.40618890   2.4055283
## b_muExpedited_NumberOfficials   0.02028121   0.9303045
## b_muExpedited_OtherCustomers   -0.81182415   1.4697774
## lp__                         -68.67798793 -60.6142077
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                       lower       upper
## b_muBribery_Intercept          -2.69278970  -0.2263259
## b_muExpedited_Intercept        -3.42484712  -0.7816206
## b_muBribery_Coethnic           -0.18231798   1.7313628
## b_muBribery_SES                -1.47788921   0.3986449
## b_muBribery_Power              -1.34830046   0.5953495
## b_muBribery_NumberOfficials     0.20689369   1.0611513
## b_muBribery_OtherCustomers     -1.79404673   0.5044349
## b_muExpedited_Coethnic         -0.58234390   1.5352059
## b_muExpedited_SES              -0.86851968   1.1232540
## b_muExpedited_Power             0.36952386   2.3555001
## b_muExpedited_NumberOfficials   0.03587029   0.8982376
## b_muExpedited_OtherCustomers   -0.92020296   1.3526528
## lp__                         -68.49887214 -60.6915808
## attr(,"Probability")
## [1] 0.9
```

```
xall48<-do.call(rbind,x48)
HPDinterval(mcmc(xall48),0.9)
```

```
##                                       lower       upper
## b_muBribery_Intercept          -2.81436180  -0.2671096
## b_muExpedited_Intercept        -3.57856854  -0.8268471
## b_muBribery_Coethnic           -0.20103854   1.7725895
## b_muBribery_SES                -1.51045960   0.4775727
## b_muBribery_Power              -1.22813204   0.7515742
## b_muBribery_NumberOfficials     0.22645891   1.0948673
## b_muBribery_OtherCustomers     -1.89518057   0.4084113
## b_muExpedited_Coethnic         -0.34985064   1.6656084
## b_muExpedited_SES              -1.04664321   0.9270962
## b_muExpedited_Power             0.29841110   2.2574857
## b_muExpedited_NumberOfficials   0.03029017   0.9187389
## b_muExpedited_OtherCustomers   -0.80006902   1.4934208
## lp__                         -68.50791898 -60.6753831
## attr(,"Probability")
```

```
## [1] 0.9
```

```
x49<-as.mcmc(bayesescom49)
HPDinterval(x49,0.9)
```

```
## [[1]]
##                                     lower       upper
## b_muBribery_Intercept          -2.63355181  -0.1621339
## b_muExpedited_Intercept        -3.19055634  -0.7088254
## b_muBribery_Coethnic           -0.25334503   1.6013942
## b_muBribery_SES                -1.25094004   0.4830145
## b_muBribery_Power              -1.07162054   0.7090692
## b_muBribery_NumberOfficials     0.20811037   1.0671552
## b_muBribery_OtherCustomers     -1.35904367   0.6235651
## b_muExpedited_Coethnic         -0.54591173   1.2664233
## b_muExpedited_SES              -0.86880747   0.9465529
## b_muExpedited_Power             0.28646814   1.9554514
## b_muExpedited_NumberOfficials   0.06568408   0.9178885
## b_muExpedited_OtherCustomers   -0.70426217   1.1960961
## lp__                         -67.25032906 -59.6009295
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower       upper
## b_muBribery_Intercept          -2.604783395  -0.1769018
## b_muExpedited_Intercept        -3.330546184  -0.6555346
## b_muBribery_Coethnic           -0.217902381   1.4892612
## b_muBribery_SES                -1.304105232   0.4110495
## b_muBribery_Power              -1.173837794   0.5837005
## b_muBribery_NumberOfficials     0.190502781   1.0726243
## b_muBribery_OtherCustomers     -1.461780595   0.5772490
## b_muExpedited_Coethnic         -0.469650641   1.4587612
## b_muExpedited_SES              -0.834592709   0.8355771
## b_muExpedited_Power             0.235336620   2.0431582
## b_muExpedited_NumberOfficials  -0.007779076   0.8880467
## b_muExpedited_OtherCustomers   -0.727482348   1.2955497
## lp__                         -66.952553379 -59.2452397
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                     lower       upper
## b_muBribery_Intercept          -2.71132533  -0.1153151
## b_muExpedited_Intercept        -3.20840126  -0.6543185
## b_muBribery_Coethnic           -0.33368016   1.4368025
## b_muBribery_SES                -1.32913914   0.5096756
## b_muBribery_Power              -1.21799325   0.6172190
## b_muBribery_NumberOfficials     0.23135445   1.0683740
## b_muBribery_OtherCustomers     -1.40644716   0.5659349
## b_muExpedited_Coethnic         -0.46594842   1.3397932
## b_muExpedited_SES              -0.90363952   0.8605673
## b_muExpedited_Power             0.17442716   2.0072530
## b_muExpedited_NumberOfficials   0.07177676   0.9056499
## b_muExpedited_OtherCustomers   -0.69180546   1.2793324
```

```
## lp__                           -67.53987213 -59.4074959
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                       lower       upper
## b_muBribery_Intercept          -2.74165627  -0.2915763
## b_muExpedited_Intercept        -3.12200160  -0.6812425
## b_muBribery_Coethnic           -0.28161087   1.4762196
## b_muBribery_SES                -1.27366412   0.5913748
## b_muBribery_Power              -1.20830045   0.5840251
## b_muBribery_NumberOfficials     0.25124532   1.0775097
## b_muBribery_OtherCustomers     -1.50365094   0.3820398
## b_muExpedited_Coethnic         -0.50253943   1.3680052
## b_muExpedited_SES              -0.99456622   0.8121784
## b_muExpedited_Power             0.19645635   1.9987874
## b_muExpedited_NumberOfficials   0.07630727   0.9188799
## b_muExpedited_OtherCustomers   -0.70975727   1.1706351
## lp__                           -67.07491473 -59.4898047
## attr(,"Probability")
## [1] 0.9
```

```
xall49<-do.call(rbind,x49)
HPDinterval(mcmc(xall49),0.9)
```

```
##                                       lower       upper
## b_muBribery_Intercept          -2.62060797  -0.1153151
## b_muExpedited_Intercept        -3.22305907  -0.6742913
## b_muBribery_Coethnic           -0.26064872   1.5263160
## b_muBribery_SES                -1.30661619   0.5044658
## b_muBribery_Power              -1.21799325   0.5863262
## b_muBribery_NumberOfficials     0.20105196   1.0568639
## b_muBribery_OtherCustomers     -1.43717680   0.5494977
## b_muExpedited_Coethnic         -0.50629386   1.3591058
## b_muExpedited_SES              -0.87858298   0.8915467
## b_muExpedited_Power             0.15810557   1.9500082
## b_muExpedited_NumberOfficials   0.06538036   0.9226608
## b_muExpedited_OtherCustomers   -0.69324834   1.2683666
## lp__                           -67.07491473 -59.3174685
## attr(,"Probability")
## [1] 0.9
```

```
x50<-as.mcmc(bayesescom50)
HPDinterval(x50,0.9)
```

```
## [[1]]
##                                       lower       upper
## b_muBribery_Intercept          -2.31313602  -0.1141396
## b_muExpedited_Intercept        -2.69137954  -0.3915040
## b_muBribery_Coethnic           -0.35542854   1.2149699
## b_muBribery_SES                -0.96373915   0.5024434
## b_muBribery_Power              -0.91331354   0.5516205
## b_muBribery_NumberOfficials     0.16500060   0.8803838
## b_muBribery_OtherCustomers     -1.09784970   0.5450453
## b_muExpedited_Coethnic         -0.46478367   1.0063578
```

```
## b_muExpedited_SES              -0.74586192   0.8703862
## b_muExpedited_Power            -0.02232192   1.4458824
## b_muExpedited_NumberOfficials  -0.02042680   0.7495920
## b_muExpedited_OtherCustomers   -0.67410405   0.9192736
## lp__                          -64.92694868 -57.4076059
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower        upper
## b_muBribery_Intercept          -2.33168653  -0.03069807
## b_muExpedited_Intercept        -2.78721283  -0.54408163
## b_muBribery_Coethnic           -0.37518109   1.13242390
## b_muBribery_SES                -1.17905758   0.38322257
## b_muBribery_Power              -1.02396541   0.46322515
## b_muBribery_NumberOfficials     0.15379179   0.92498351
## b_muBribery_OtherCustomers     -1.11900399   0.54549322
## b_muExpedited_Coethnic         -0.41012442   1.09612571
## b_muExpedited_SES              -0.62273990   0.83198641
## b_muExpedited_Power             0.07274572   1.54241584
## b_muExpedited_NumberOfficials   0.01359648   0.80613372
## b_muExpedited_OtherCustomers   -0.70327212   0.98289239
## lp__                          -65.15282265 -57.60330494
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower       upper
## b_muBribery_Intercept          -2.44378129  -0.2216558
## b_muExpedited_Intercept        -2.65457776  -0.4282590
## b_muBribery_Coethnic           -0.37758088   1.1466843
## b_muBribery_SES                -1.01935108   0.4526682
## b_muBribery_Power              -0.86555023   0.5679404
## b_muBribery_NumberOfficials     0.19245072   0.9226359
## b_muBribery_OtherCustomers     -1.09639631   0.5310345
## b_muExpedited_Coethnic         -0.53085488   0.9872831
## b_muExpedited_SES              -0.71680282   0.7082776
## b_muExpedited_Power             0.07020973   1.5048421
## b_muExpedited_NumberOfficials   0.04603100   0.7646931
## b_muExpedited_OtherCustomers   -0.64288434   0.9356975
## lp__                          -65.06246654 -57.6417683
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -2.32632674  -0.1355843
## b_muExpedited_Intercept        -2.75373675  -0.5283757
## b_muBribery_Coethnic           -0.28543321   1.2911092
## b_muBribery_SES                -1.02392646   0.5495892
## b_muBribery_Power              -0.95706792   0.4824091
## b_muBribery_NumberOfficials     0.17444319   0.9368715
## b_muBribery_OtherCustomers     -0.99808727   0.5650451
## b_muExpedited_Coethnic         -0.38844906   1.1337343
```

```
## b_muExpedited_SES              -0.72868217   0.7010691
## b_muExpedited_Power             0.03769374   1.4803433
## b_muExpedited_NumberOfficials   0.03472869   0.7876849
## b_muExpedited_OtherCustomers   -0.76973559   0.9267853
## lp__                         -65.81936792 -57.8145765
## attr(,"Probability")
## [1] 0.9
```

```
xall50<-do.call(rbind,x50)
HPDinterval(mcmc(xall50),0.9)
```

```
##                                      lower       upper
## b_muBribery_Intercept          -2.442525913  -0.1874835
## b_muExpedited_Intercept        -2.661975415  -0.3915040
## b_muBribery_Coethnic           -0.369358992   1.1838369
## b_muBribery_SES                -1.071638639   0.4665880
## b_muBribery_Power              -0.916774894   0.5524483
## b_muBribery_NumberOfficials     0.173928547   0.9242598
## b_muBribery_OtherCustomers     -1.057290359   0.5749219
## b_muExpedited_Coethnic         -0.508373775   1.0092973
## b_muExpedited_SES              -0.661294235   0.8253648
## b_muExpedited_Power             0.021014057   1.4813775
## b_muExpedited_NumberOfficials   0.005188411   0.7698886
## b_muExpedited_OtherCustomers   -0.701687727   0.9472050
## lp__                         -65.124804711 -57.4382724
## attr(,"Probability")
## [1] 0.9
```

```
x51<-as.mcmc(bayesescom51)
HPDinterval(x51,0.9)
```

```
## [[1]]
##                                      lower        upper
## b_muBribery_Intercept          -1.98441800   0.01694375
## b_muExpedited_Intercept        -2.09558406  -0.09241852
## b_muBribery_Coethnic           -0.33648873   0.83202491
## b_muBribery_SES                -0.72247341   0.42299145
## b_muBribery_Power              -0.71875631   0.37521663
## b_muBribery_NumberOfficials     0.11773328   0.73585080
## b_muBribery_OtherCustomers     -0.73258300   0.46734502
## b_muExpedited_Coethnic         -0.43854352   0.70622488
## b_muExpedited_SES              -0.53262427   0.59215326
## b_muExpedited_Power            -0.10221395   1.01484527
## b_muExpedited_NumberOfficials  -0.06878986   0.59444731
## b_muExpedited_OtherCustomers   -0.53875799   0.60323236
## lp__                         -63.37393987 -55.38786571
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                      lower        upper
## b_muBribery_Intercept          -1.99938331   0.02302037
## b_muExpedited_Intercept        -2.00189657   0.11862558
## b_muBribery_Coethnic           -0.41849798   0.72043629
## b_muBribery_SES                -0.66974067   0.42913369
```

```
## b_muBribery_Power              -0.67046436   0.39077876
## b_muBribery_NumberOfficials     0.08640683   0.71761586
## b_muBribery_OtherCustomers     -0.76407823   0.35306928
## b_muExpedited_Coethnic         -0.41460563   0.67085597
## b_muExpedited_SES              -0.61124856   0.56621759
## b_muExpedited_Power            -0.07618907   1.06015489
## b_muExpedited_NumberOfficials  -0.07193665   0.60166370
## b_muExpedited_OtherCustomers   -0.46370880   0.71979874
## lp__                          -62.59776241 -54.92523904
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                      lower        upper
## b_muBribery_Intercept          -1.98672042   0.04475669
## b_muExpedited_Intercept        -2.15834749  -0.09288994
## b_muBribery_Coethnic           -0.36147581   0.82174837
## b_muBribery_SES                -0.69707144   0.45617211
## b_muBribery_Power              -0.79396132   0.37263330
## b_muBribery_NumberOfficials     0.12033083   0.75199016
## b_muBribery_OtherCustomers     -0.73347231   0.42441802
## b_muExpedited_Coethnic         -0.40687942   0.76244194
## b_muExpedited_SES              -0.48616339   0.58263072
## b_muExpedited_Power            -0.12836148   1.00389243
## b_muExpedited_NumberOfficials  -0.05266813   0.58974185
## b_muExpedited_OtherCustomers   -0.56892327   0.66672140
## lp__                          -63.07468068 -55.10054892
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -2.11917611  -0.0870884
## b_muExpedited_Intercept        -2.11818261  -0.1742415
## b_muBribery_Coethnic           -0.35361023   0.7954903
## b_muBribery_SES                -0.74374006   0.4227450
## b_muBribery_Power              -0.72635481   0.3535091
## b_muBribery_NumberOfficials     0.08391596   0.6825837
## b_muBribery_OtherCustomers     -0.82051620   0.3873338
## b_muExpedited_Coethnic         -0.40949636   0.7052226
## b_muExpedited_SES              -0.53352155   0.6166999
## b_muExpedited_Power            -0.13419873   0.9929834
## b_muExpedited_NumberOfficials  -0.02448044   0.5814122
## b_muExpedited_OtherCustomers   -0.52736500   0.6985923
## lp__                          -62.63515582 -55.1776819
## attr(,"Probability")
## [1] 0.9
```

```
xall51<-do.call(rbind,x51)
HPDinterval(mcmc(xall51),0.9)
```

```
##                                      lower        upper
## b_muBribery_Intercept          -2.01082120   0.02004613
## b_muExpedited_Intercept        -2.11518710  -0.07908363
## b_muBribery_Coethnic           -0.35361023   0.81538533
```

```
## b_muBribery_SES                -0.71511436   0.43036183
## b_muBribery_Power              -0.72294565   0.39298624
## b_muBribery_NumberOfficials     0.10540793   0.73148700
## b_muBribery_OtherCustomers     -0.74554822   0.43550751
## b_muExpedited_Coethnic         -0.43032616   0.70524433
## b_muExpedited_SES              -0.56600382   0.56755605
## b_muExpedited_Power            -0.08873922   1.05149911
## b_muExpedited_NumberOfficials  -0.05964687   0.59246033
## b_muExpedited_OtherCustomers   -0.53939743   0.66437706
## lp__                          -62.88502659 -55.09788367
## attr(,"Probability")
## [1] 0.9
```

```
x52<-as.mcmc(bayesescom52)
HPDinterval(x52,0.9)
```

```
## [[1]]
##                                    lower       upper
## b_muBribery_Intercept          -1.46472549   0.1273517
## b_muExpedited_Intercept        -1.36816395   0.2439220
## b_muBribery_Coethnic           -0.24673725   0.3700277
## b_muBribery_SES                -0.33347068   0.2714740
## b_muBribery_Power              -0.38461870   0.2746498
## b_muBribery_NumberOfficials     0.02439885   0.4553819
## b_muBribery_OtherCustomers     -0.32594515   0.2988953
## b_muExpedited_Coethnic         -0.30062362   0.3879296
## b_muExpedited_SES              -0.29025069   0.3250314
## b_muExpedited_Power            -0.16704487   0.4533303
## b_muExpedited_NumberOfficials  -0.11548754   0.3553996
## b_muExpedited_OtherCustomers   -0.28388833   0.3334947
## lp__                          -57.87587381 -50.4031173
## attr(,"Probability")
## [1] 0.9
##
## [[2]]
##                                     lower       upper
## b_muBribery_Intercept          -1.532652577   0.1547888
## b_muExpedited_Intercept        -1.328343218   0.1943003
## b_muBribery_Coethnic           -0.245465013   0.3791317
## b_muBribery_SES                -0.341967297   0.2705636
## b_muBribery_Power              -0.384053805   0.2457124
## b_muBribery_NumberOfficials     0.009094779   0.4489719
## b_muBribery_OtherCustomers     -0.349697549   0.2913005
## b_muExpedited_Coethnic         -0.281197139   0.3778713
## b_muExpedited_SES              -0.307250690   0.3095835
## b_muExpedited_Power            -0.183077784   0.4348043
## b_muExpedited_NumberOfficials  -0.130226151   0.3326471
## b_muExpedited_OtherCustomers   -0.336200575   0.3165922
## lp__                          -58.092115513 -50.0625276
## attr(,"Probability")
## [1] 0.9
##
## [[3]]
##                                    lower       upper
## b_muBribery_Intercept          -1.3888439   0.2092662
```

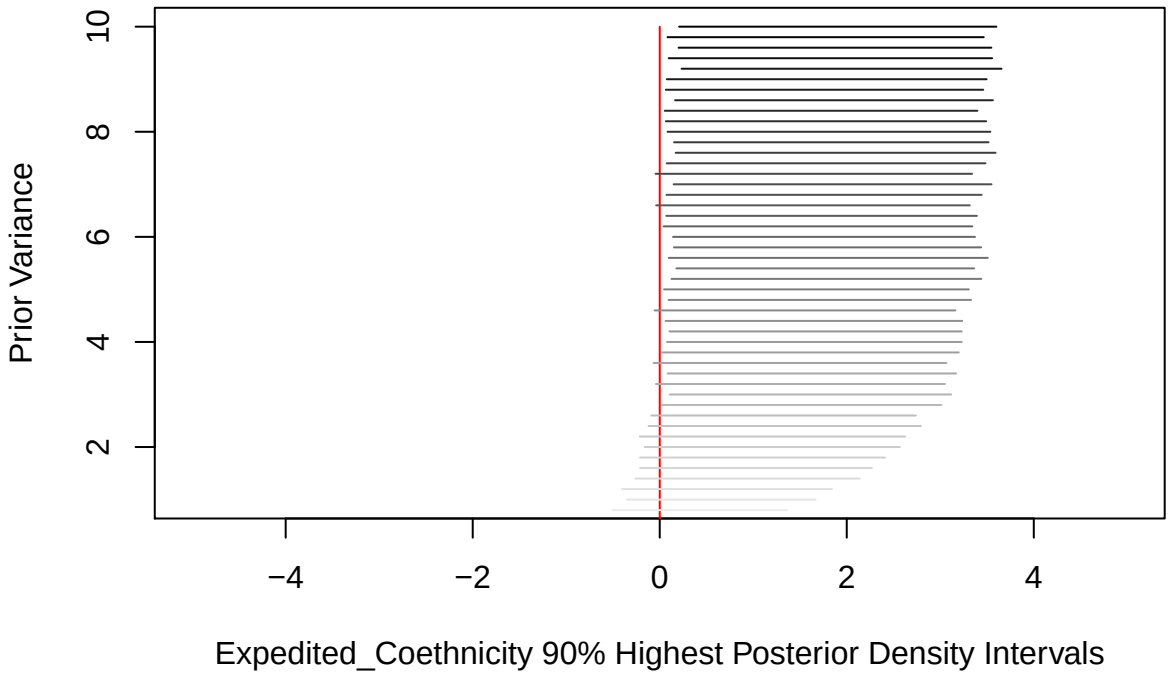
```
## b_muExpedited_Intercept        -1.4110918   0.1716809
## b_muBribery_Coethnic           -0.2551430   0.3756154
## b_muBribery_SES                -0.3658253   0.2941870
## b_muBribery_Power              -0.3448760   0.2688210
## b_muBribery_NumberOfficials     0.0298202   0.4590293
## b_muBribery_OtherCustomers     -0.3859619   0.2674513
## b_muExpedited_Coethnic         -0.2676931   0.3195326
## b_muExpedited_SES              -0.2796955   0.3375354
## b_muExpedited_Power            -0.1644512   0.4550714
## b_muExpedited_NumberOfficials  -0.1236380   0.3140962
## b_muExpedited_OtherCustomers   -0.3470421   0.3142057
## lp__                          -57.8993058 -50.4250172
## attr(,"Probability")
## [1] 0.9
##
## [[4]]
##                                      lower       upper
## b_muBribery_Intercept          -1.59295867   0.1683764
## b_muExpedited_Intercept        -1.36815821   0.2511223
## b_muBribery_Coethnic           -0.24220606   0.3982941
## b_muBribery_SES                -0.34101234   0.3095361
## b_muBribery_Power              -0.33405594   0.2367427
## b_muBribery_NumberOfficials     0.01866701   0.4619097
## b_muBribery_OtherCustomers     -0.31828948   0.2519851
## b_muExpedited_Coethnic         -0.24229762   0.3745513
## b_muExpedited_SES              -0.25177636   0.3533621
## b_muExpedited_Power            -0.12425219   0.4845528
## b_muExpedited_NumberOfficials  -0.10138528   0.3359278
## b_muExpedited_OtherCustomers   -0.29097273   0.3283821
## lp__                          -57.50740642 -50.3548253
## attr(,"Probability")
## [1] 0.9
```

```
xall52<-do.call(rbind,x52)
HPDinterval(mcmc(xall52),0.9)
```

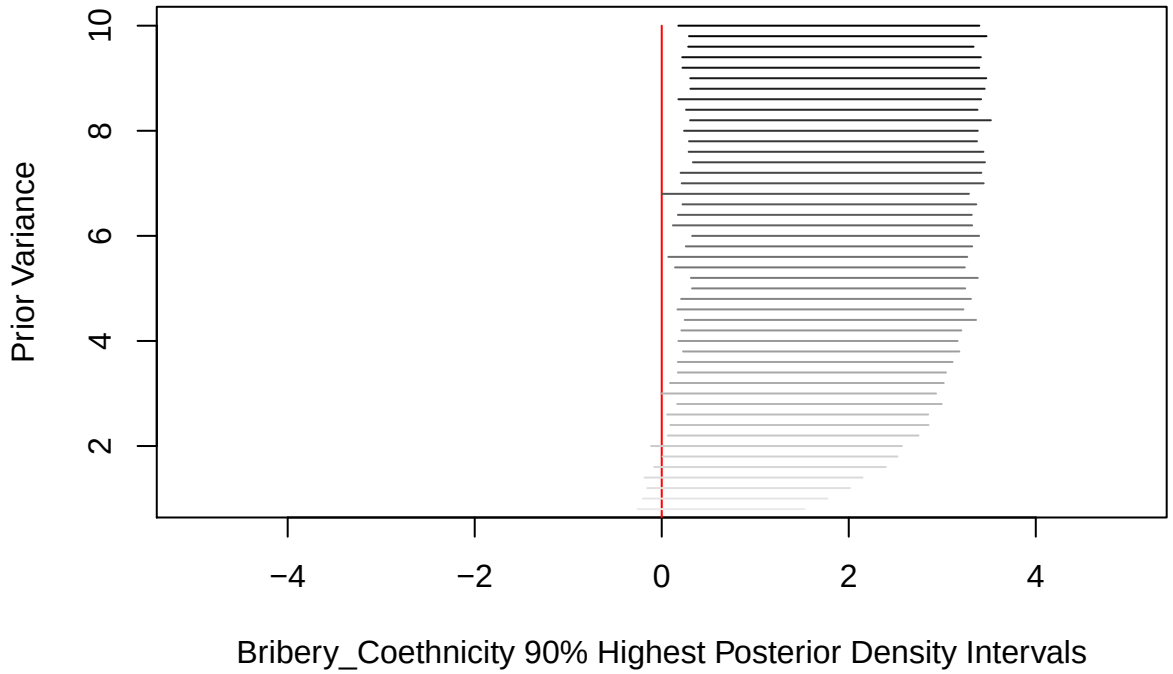
```
##                                       lower       upper
## b_muBribery_Intercept          -1.515472629   0.1594281
## b_muExpedited_Intercept        -1.322422238   0.2710950
## b_muBribery_Coethnic           -0.246705633   0.3845239
## b_muBribery_SES                -0.348302899   0.2830432
## b_muBribery_Power              -0.378065803   0.2457124
## b_muBribery_NumberOfficials     0.009276801   0.4485324
## b_muBribery_OtherCustomers     -0.326517399   0.2913005
## b_muExpedited_Coethnic         -0.275506731   0.3627050
## b_muExpedited_SES              -0.291776849   0.3250314
## b_muExpedited_Power            -0.167406290   0.4515326
## b_muExpedited_NumberOfficials  -0.115931624   0.3384205
## b_muExpedited_OtherCustomers   -0.326720573   0.3140108
## lp__                          -57.947875612 -50.3853364
## attr(,"Probability")
## [1] 0.9
```

```
# Line 8 for Expedited Coethnicity #
```

```
plot(NA, xlim=c(-5,5), ylim=c(1,10), xlab="Expedited_Coethnicity 90% Highest Posterior Density Intervals
segments(0,0,0,10,col=c("red"))
segments(HPDinterval(mcmc(xall3),.9)[8,1],10,HPDinterval(mcmc(xall3),.9)[8,2],10,col=c("grey0"))
segments(HPDinterval(mcmc(xall4),.9)[8,1],9.8,HPDinterval(mcmc(xall4),.9)[8,2],9.8,col=c("grey2"))
segments(HPDinterval(mcmc(xall5),.9)[8,1],9.6,HPDinterval(mcmc(xall5),.9)[8,2],9.6,col=c("grey 4"))
segments(HPDinterval(mcmc(xall6),.9)[8,1],9.4,HPDinterval(mcmc(xall6),.9)[8,2],9.4,col=c("grey6"))
segments(HPDinterval(mcmc(xall7),.9)[8,1],9.2,HPDinterval(mcmc(xall7),.9)[8,2],9.2,col=c("grey8"))
segments(HPDinterval(mcmc(xall8),.9)[8,1],9,HPDinterval(mcmc(xall8),.9)[8,2],9,col=c("grey10"))
segments(HPDinterval(mcmc(xall9),.9)[8,1],8.8,HPDinterval(mcmc(xall9),.9)[8,2],8.8,col=c("grey12"))
segments(HPDinterval(mcmc(xall10),.9)[8,1],8.6,HPDinterval(mcmc(xall10),.9)[8,2],8.6,col=c("grey14"))
segments(HPDinterval(mcmc(xall11),.9)[8,1],8.40000000000001,HPDinterval(mcmc(xall11),.9)[8,2],8.4000000
segments(HPDinterval(mcmc(xall12),.9)[8,1],8.20000000000001,HPDinterval(mcmc(xall12),.9)[8,2],8.2000000
segments(HPDinterval(mcmc(xall13),.9)[8,1],8.00000000000001,HPDinterval(mcmc(xall13),.9)[8,2],8.0000000
segments(HPDinterval(mcmc(xall14),.9)[8,1],7.80000000000001,HPDinterval(mcmc(xall14),.9)[8,2],7.8000000
segments(HPDinterval(mcmc(xall15),.9)[8,1],7.60000000000001,HPDinterval(mcmc(xall15),.9)[8,2],7.6000000
segments(HPDinterval(mcmc(xall16),.9)[8,1],7.40000000000001,HPDinterval(mcmc(xall16),.9)[8,2],7.4000000
segments(HPDinterval(mcmc(xall17),.9)[8,1],7.20000000000001,HPDinterval(mcmc(xall17),.9)[8,2],7.2000000
segments(HPDinterval(mcmc(xall18),.9)[8,1],7.00000000000001,HPDinterval(mcmc(xall18),.9)[8,2],7.0000000
segments(HPDinterval(mcmc(xall19),.9)[8,1],6.80000000000001,HPDinterval(mcmc(xall19),.9)[8,2],6.8000000
segments(HPDinterval(mcmc(xall20),.9)[8,1],6.60000000000001,HPDinterval(mcmc(xall20),.9)[8,2],6.6000000
segments(HPDinterval(mcmc(xall21),.9)[8,1],6.40000000000001,HPDinterval(mcmc(xall21),.9)[8,2],6.4000000
segments(HPDinterval(mcmc(xall22),.9)[8,1],6.20000000000001,HPDinterval(mcmc(xall22),.9)[8,2],6.2000000
segments(HPDinterval(mcmc(xall23),.9)[8,1],6.00000000000001,HPDinterval(mcmc(xall23),.9)[8,2],6.0000000
segments(HPDinterval(mcmc(xall24),.9)[8,1],5.80000000000001,HPDinterval(mcmc(xall24),.9)[8,2],5.8000000
segments(HPDinterval(mcmc(xall25),.9)[8,1],5.60000000000002,HPDinterval(mcmc(xall25),.9)[8,2],5.6000000
segments(HPDinterval(mcmc(xall26),.9)[8,1],5.40000000000002,HPDinterval(mcmc(xall26),.9)[8,2],5.4000000
segments(HPDinterval(mcmc(xall27),.9)[8,1],5.20000000000002,HPDinterval(mcmc(xall27),.9)[8,2],5.2000000
segments(HPDinterval(mcmc(xall28),.9)[8,1],5.00000000000002,HPDinterval(mcmc(xall28),.9)[8,2],5.0000000
segments(HPDinterval(mcmc(xall29),.9)[8,1],4.80000000000002,HPDinterval(mcmc(xall29),.9)[8,2],4.8000000
segments(HPDinterval(mcmc(xall30),.9)[8,1],4.60000000000002,HPDinterval(mcmc(xall30),.9)[8,2],4.6000000
segments(HPDinterval(mcmc(xall31),.9)[8,1],4.40000000000002,HPDinterval(mcmc(xall31),.9)[8,2],4.4000000
segments(HPDinterval(mcmc(xall32),.9)[8,1],4.20000000000002,HPDinterval(mcmc(xall32),.9)[8,2],4.2000000
segments(HPDinterval(mcmc(xall33),.9)[8,1],4.00000000000002,HPDinterval(mcmc(xall33),.9)[8,2],4.0000000
segments(HPDinterval(mcmc(xall34),.9)[8,1],3.80000000000002,HPDinterval(mcmc(xall34),.9)[8,2],3.8000000
segments(HPDinterval(mcmc(xall35),.9)[8,1],3.60000000000002,HPDinterval(mcmc(xall35),.9)[8,2],3.6000000
segments(HPDinterval(mcmc(xall36),.9)[8,1],3.40000000000002,HPDinterval(mcmc(xall36),.9)[8,2],3.4000000
segments(HPDinterval(mcmc(xall37),.9)[8,1],3.20000000000002,HPDinterval(mcmc(xall37),.9)[8,2],3.2000000
segments(HPDinterval(mcmc(xall38),.9)[8,1],3.00000000000002,HPDinterval(mcmc(xall38),.9)[8,2],3.0000000
segments(HPDinterval(mcmc(xall39),.9)[8,1],2.80000000000003,HPDinterval(mcmc(xall39),.9)[8,2],2.8000000
segments(HPDinterval(mcmc(xall40),.9)[8,1],2.60000000000003,HPDinterval(mcmc(xall40),.9)[8,2],2.6000000
segments(HPDinterval(mcmc(xall41),.9)[8,1],2.40000000000003,HPDinterval(mcmc(xall41),.9)[8,2],2.4000000
segments(HPDinterval(mcmc(xall42),.9)[8,1],2.20000000000003,HPDinterval(mcmc(xall42),.9)[8,2],2.2000000
segments(HPDinterval(mcmc(xall43),.9)[8,1],2.00000000000003,HPDinterval(mcmc(xall43),.9)[8,2],2.0000000
segments(HPDinterval(mcmc(xall44),.9)[8,1],1.80000000000003,HPDinterval(mcmc(xall44),.9)[8,2],1.8000000
segments(HPDinterval(mcmc(xall45),.9)[8,1],1.60000000000003,HPDinterval(mcmc(xall45),.9)[8,2],1.6000000
segments(HPDinterval(mcmc(xall46),.9)[8,1],1.40000000000003,HPDinterval(mcmc(xall46),.9)[8,2],1.4000000
segments(HPDinterval(mcmc(xall47),.9)[8,1],1.20000000000003,HPDinterval(mcmc(xall47),.9)[8,2],1.2000000
segments(HPDinterval(mcmc(xall48),.9)[8,1],1.00000000000003,HPDinterval(mcmc(xall48),.9)[8,2],1.0000000
segments(HPDinterval(mcmc(xall49),.9)[8,1],0.800000000000029,HPDinterval(mcmc(xall49),.9)[8,2],0.800000
segments(HPDinterval(mcmc(xall50),.9)[8,1],0.60000000000003,HPDinterval(mcmc(xall50),.9)[8,2],0.6000000
segments(HPDinterval(mcmc(xall51),.9)[8,1],0.400000000000031,HPDinterval(mcmc(xall51),.9)[8,2],0.400000
segments(HPDinterval(mcmc(xall52),.9)[8,1],0.200000000000029,HPDinterval(mcmc(xall52),.9)[8,2],0.200000
```




```
# Line 3 for Bribery Coethnicity #

plot(NA, xlim=c(-5,5), ylim=c(1,10), xlab="Bribery_Coethnicity 90% Highest Posterior Density Intervals"
segments(0,0,0,10,col=c("red"))
segments(HPDinterval(mcmc(xall3),.9)[3,1],10,HPDinterval(mcmc(xall3),.9)[3,2],10,col=c("grey0"))
segments(HPDinterval(mcmc(xall4),.9)[3,1],9.8,HPDinterval(mcmc(xall4),.9)[3,2],9.8,col=c("grey2"))
segments(HPDinterval(mcmc(xall5),.9)[3,1],9.6,HPDinterval(mcmc(xall5),.9)[3,2],9.6,col=c("grey 4"))
segments(HPDinterval(mcmc(xall6),.9)[3,1],9.4,HPDinterval(mcmc(xall6),.9)[3,2],9.4,col=c("grey6"))
segments(HPDinterval(mcmc(xall7),.9)[3,1],9.2,HPDinterval(mcmc(xall7),.9)[3,2],9.2,col=c("grey8"))
segments(HPDinterval(mcmc(xall8),.9)[3,1],9,HPDinterval(mcmc(xall8),.9)[3,2],9,col=c("grey10"))
segments(HPDinterval(mcmc(xall9),.9)[3,1],8.8,HPDinterval(mcmc(xall9),.9)[3,2],8.8,col=c("grey12"))
segments(HPDinterval(mcmc(xall10),.9)[3,1],8.6,HPDinterval(mcmc(xall10),.9)[3,2],8.6,col=c("grey14"))
segments(HPDinterval(mcmc(xall11),.9)[3,1],8.40000000000001,HPDinterval(mcmc(xall11),.9)[3,2],8.4000000
segments(HPDinterval(mcmc(xall12),.9)[3,1],8.20000000000001,HPDinterval(mcmc(xall12),.9)[3,2],8.2000000
segments(HPDinterval(mcmc(xall13),.9)[3,1],8.00000000000001,HPDinterval(mcmc(xall13),.9)[3,2],8.0000000
segments(HPDinterval(mcmc(xall14),.9)[3,1],7.80000000000001,HPDinterval(mcmc(xall14),.9)[3,2],7.8000000
segments(HPDinterval(mcmc(xall15),.9)[3,1],7.60000000000001,HPDinterval(mcmc(xall15),.9)[3,2],7.6000000
segments(HPDinterval(mcmc(xall16),.9)[3,1],7.40000000000001,HPDinterval(mcmc(xall16),.9)[3,2],7.4000000
segments(HPDinterval(mcmc(xall17),.9)[3,1],7.20000000000001,HPDinterval(mcmc(xall17),.9)[3,2],7.2000000
segments(HPDinterval(mcmc(xall18),.9)[3,1],7.00000000000001,HPDinterval(mcmc(xall18),.9)[3,2],7.0000000
segments(HPDinterval(mcmc(xall19),.9)[3,1],6.80000000000001,HPDinterval(mcmc(xall19),.9)[3,2],6.8000000
segments(HPDinterval(mcmc(xall20),.9)[3,1],6.60000000000001,HPDinterval(mcmc(xall20),.9)[3,2],6.6000000
segments(HPDinterval(mcmc(xall21),.9)[3,1],6.40000000000001,HPDinterval(mcmc(xall21),.9)[3,2],6.4000000
segments(HPDinterval(mcmc(xall22),.9)[3,1],6.20000000000001,HPDinterval(mcmc(xall22),.9)[3,2],6.2000000
segments(HPDinterval(mcmc(xall23),.9)[3,1],6.00000000000001,HPDinterval(mcmc(xall23),.9)[3,2],6.0000000
segments(HPDinterval(mcmc(xall24),.9)[3,1],5.80000000000001,HPDinterval(mcmc(xall24),.9)[3,2],5.8000000
segments(HPDinterval(mcmc(xall25),.9)[3,1],5.60000000000002,HPDinterval(mcmc(xall25),.9)[3,2],5.6000000
segments(HPDinterval(mcmc(xall26),.9)[3,1],5.40000000000002,HPDinterval(mcmc(xall26),.9)[3,2],5.4000000
segments(HPDinterval(mcmc(xall27),.9)[3,1],5.20000000000002,HPDinterval(mcmc(xall27),.9)[3,2],5.2000000
segments(HPDinterval(mcmc(xall28),.9)[3,1],5.00000000000002,HPDinterval(mcmc(xall28),.9)[3,2],5.0000000
segments(HPDinterval(mcmc(xall29),.9)[3,1],4.80000000000002,HPDinterval(mcmc(xall29),.9)[3,2],4.8000000
segments(HPDinterval(mcmc(xall30),.9)[3,1],4.60000000000002,HPDinterval(mcmc(xall30),.9)[3,2],4.6000000
```

```
segments(HPDinterval(mcmc(xall31),.9)[3,1],4.40000000000002,HPDinterval(mcmc(xall31),.9)[3,2],4.4000000
segments(HPDinterval(mcmc(xall32),.9)[3,1],4.20000000000002,HPDinterval(mcmc(xall32),.9)[3,2],4.2000000
segments(HPDinterval(mcmc(xall33),.9)[3,1],4.00000000000002,HPDinterval(mcmc(xall33),.9)[3,2],4.0000000
segments(HPDinterval(mcmc(xall34),.9)[3,1],3.80000000000002,HPDinterval(mcmc(xall34),.9)[3,2],3.8000000
segments(HPDinterval(mcmc(xall35),.9)[3,1],3.60000000000002,HPDinterval(mcmc(xall35),.9)[3,2],3.6000000
segments(HPDinterval(mcmc(xall36),.9)[3,1],3.40000000000002,HPDinterval(mcmc(xall36),.9)[3,2],3.4000000
segments(HPDinterval(mcmc(xall37),.9)[3,1],3.20000000000002,HPDinterval(mcmc(xall37),.9)[3,2],3.2000000
segments(HPDinterval(mcmc(xall38),.9)[3,1],3.00000000000002,HPDinterval(mcmc(xall38),.9)[3,2],3.0000000
segments(HPDinterval(mcmc(xall39),.9)[3,1],2.80000000000003,HPDinterval(mcmc(xall39),.9)[3,2],2.8000000
segments(HPDinterval(mcmc(xall40),.9)[3,1],2.60000000000003,HPDinterval(mcmc(xall40),.9)[3,2],2.6000000
segments(HPDinterval(mcmc(xall41),.9)[3,1],2.40000000000003,HPDinterval(mcmc(xall41),.9)[3,2],2.4000000
segments(HPDinterval(mcmc(xall42),.9)[3,1],2.20000000000003,HPDinterval(mcmc(xall42),.9)[3,2],2.2000000
segments(HPDinterval(mcmc(xall43),.9)[3,1],2.00000000000003,HPDinterval(mcmc(xall43),.9)[3,2],2.0000000
segments(HPDinterval(mcmc(xall44),.9)[3,1],1.80000000000003,HPDinterval(mcmc(xall44),.9)[3,2],1.8000000
segments(HPDinterval(mcmc(xall45),.9)[3,1],1.60000000000003,HPDinterval(mcmc(xall45),.9)[3,2],1.6000000
segments(HPDinterval(mcmc(xall46),.9)[3,1],1.40000000000003,HPDinterval(mcmc(xall46),.9)[3,2],1.4000000
segments(HPDinterval(mcmc(xall47),.9)[3,1],1.20000000000003,HPDinterval(mcmc(xall47),.9)[3,2],1.2000000
segments(HPDinterval(mcmc(xall48),.9)[3,1],1.00000000000003,HPDinterval(mcmc(xall48),.9)[3,2],1.0000000
segments(HPDinterval(mcmc(xall49),.9)[3,1],0.800000000000029,HPDinterval(mcmc(xall49),.9)[3,2],0.8000000
segments(HPDinterval(mcmc(xall50),.9)[3,1],0.60000000000003,HPDinterval(mcmc(xall50),.9)[3,2],0.6000000
segments(HPDinterval(mcmc(xall51),.9)[3,1],0.400000000000031,HPDinterval(mcmc(xall51),.9)[3,2],0.4000000
segments(HPDinterval(mcmc(xall52),.9)[3,1],0.200000000000029,HPDinterval(mcmc(xall52),.9)[3,2],0.2000000
```