Check Beta

```
# This file is used to
# 1.check beta
# Last updated date: 7/11/2017
##set other parameters equal their true values
eta=eta_sim
v=v\_sim
M=M sim
sgmr2=sgmr2_sim
sgm2=sgm2\_sim
E=E_sim
c=c_sim
b=b_sim
e=e_sim
           \verb|##rename| the simulated compelete data X_{\{it\}}
X=X_sim
##sample beta from its posterior distribution
var_beta=solve((1/beta_pri)*diag(2)+(1/sgm2)*sum_D)
sum_beta=rep(0, 2)
for (i in 1:n){
  sum_beta=sum_beta+t(D[1:T[i],c(2*i-1, 2*i)])%*%(X[1:T[i], i]-D_star[1:T[i],i]*M[c[i]]-D_dstar[1:T[i],
}
mean_beta=(1/sgm2)*var_beta%*%sum_beta
beta=mvrnorm(n=1000, mu=mean_beta, Sigma = var_beta)
posterior.mean.beta=c(mean(beta[,1]), mean(beta[,2]))
posterior.mean.beta
## [1] -0.3713706 0.4685139
##traceplot
traceplot(x=as.mcmc(beta[ ,1]), ylab="beta_1")
```





