[Blocked Gibbs Sampler] data generating

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```
rm(list=ls())
set.seed(1)
p <- 3
N <- 1000
X <- cbind(rep(1,N),matrix(rnorm((p-1)*N),ncol=2))</pre>
typeof(X)
## [1] "double"
beta <-c(1.0, 0.5, -0.5)
kappa <- 2
Y <- X%*%beta+rnorm(N,mean=0,sd=sqrt(kappa))
data <- data.frame(cbind(Y,X))</pre>
colnames(data) <- c('Y', 'intercept', 'X1', 'X2')</pre>
head(data)
          Y intercept
                                      X2
##
                           X1
## 3 3.308177
                 1 -0.8356286 -0.87077763
write.csv(data, 'regression_data.csv', row.names = FALSE)
```