Question 5

(Markov Chain Model for Repeated Categorical Response) For the data in the below.

we discussed the Markov chain model of order 1 (regressive logistic model). Gabdol claimed that the Markov chain model of order 2 is more appropriate.

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| >  > rm(list=ls())  >  > #original data  > c1 = c(237,15,16,7,24,3,6,5)  > c2 = c(10,4,2,3,3,2,2,11)  > c3 = c(118,8,11,6,7,3,4,4)  > c4 = c(6,2,1,4,3,1,2,7)  > df = data.frame(cbind(c1,c2,c3,c4))  >  > #previous1 data  > no = c(283,30,140,21,274,26,134,18,266,32,134,14)  > yes = c(17,20,12,14,24,26,14,21,28,24,12,17)  > previous = c(0,1,0,1,0,1,0,1,0,1,0,1)  > s = c(0,0,1,1,0,0,1,1,0,0,1,1)  > t = c(10,10,10,10,9,9,9,9,8,8,8,8)  > dat = data.frame(cbind(no,yes,previous,s,t))      >  > #previous2 data  > getwd()  [1] "D:/강재훈/연세대학교/석사/2019\_1\_석사\_2학기/수업/중응통/HW/HW2/question\_5"  > setwd("D:/강재훈/연세대학교/석사/2019\_1\_석사\_2학기/수업/중응통/HW/HW2/question\_5/")  > dat2 = read.csv("data.csv")  > colnames(dat2) = c('no','yes','previous1','previous2','s','t') |
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