1a.R

Toshiba

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library(itsmr)

## Warning: package 'itsmr' was built under R version 3.1.2

ma\_2=arima.sim(1000,model=list(ma=c(1,0.21)))  
arma\_12=arima.sim(1000,model=list(ar=-0.4,ma=c(0.7,0.12)))  
  
ma\_2\_sol=arma(ma\_2)  
arma\_12\_sol=arma(arma\_12)  
  
ma\_sol1=hannan(ma\_2,0,2)  
arma\_sol1=hannan(arma\_12,1,2)