```
x<-rnorm(100)
par(mfrow=c(2,1))
theta=0.5
z<-rep(0,101)
for (i in 1:100) {z[i+1]<-(theta*z[i]+x[i])}; plot(z,type='l')
theta=-theta
z<-rep(0,101)
for (i in 1:100) {z[i+1]<-(theta*z[i]+x[i])}; plot(z,type='l')
```