```
Amatrix <- c(1, 2, 2,
             0, 2, 1,
            -1, 2, 2)

A <- matrix(data = Amatrix, ncol = 3, byrow = TRUE)
A

solve(A)
det(A)
eigen(A)
A%*%solve(A)
t(A)
sum(diag(A))

library(matlib)
R(A)

library(MASS)
ginv(A)
```