commandwindow

clear

clc

a=[1,-2,-1,3;2,3,0,1;1,-4,0,-2;0,-1,3,1]

eig(a)

OUTPUT

a =

1 -2 -1 3

2 3 0 1

1 -4 0 -2

0 -1 3 1

ans =

-0.5639 + 2.9212i

-0.5639 - 2.9212i

3.0639 + 2.7698i

3.0639 - 2.7698i

>>

THIS SYSTEM OF EIGEN VALUES IS UNSTBLE.

THIS IS BECAUSE NOT ALL THE EIGEN VALUES ARE OF THE SAME OPERATION(SIGN)