```
>> clear
>> hw9_demo
****************Our workhorse QR algorithm demo*************

matlabEvals =

    9.0000         0         0
         0   10.0000         0
         0         0    1.0000


matlabEvecs =

   -0.5571   -0.4082    0.5345
    0.3714    0.4082   -0.2673
   -0.7428   -0.8165    0.8018


myEvals =

    9.0000         0         0
         0   10.0000         0
         0         0    1.0000


myEvecs =

   -0.5571    0.4082    0.5345
    0.3714   -0.4082   -0.2673
   -0.7428    0.8165    0.8018



*******************My svd program demo*******************

U =

    0.5256    0.8506    0.0151
   -0.3933    0.2273    0.8909
    0.7543   -0.4742    0.4540


S =

   68.4147         0         0
         0    9.8190         0
         0         0    0.1340


V =
```

```
   -0.0018     0.8458     0.5334
   -0.9543     0.1579    -0.2537
   -0.2988    -0.5095     0.8069


myU =

    0.8506    -0.0151    -0.5256
    0.2273    -0.8909     0.3933
   -0.4742    -0.4540    -0.7543


myS =

    9.8190          0          0
         0     0.1340          0
         0          0    68.4147


myV =

    0.8458    -0.5334     0.0018
    0.1579     0.2537     0.9543
   -0.5095    -0.8069     0.2988

>>
```