Problem 2a

```
clear all
clc
u = [98 0 2 0]';
A = [3/5 1/5 1/10 0; 1/5 2/5 0 0; 0 1/5 8/10 1/10; 1/5 1/5 1/10 9/10];

for i = 1:42
    u = A * u;
end

diary vj_problem2a.txt
echo on

disp('Steady State u:');
u

disp('It took k = 42 iterations to reach 4-decimal convergence.');

[V, LAMBDA] = eig(A);


echo off
```

```
disp('Steady State u:');
Steady State u:
u

u =

    9.3750
    3.1250
   31.2500
   56.2500


disp('It took k = 42 iterations to reach 4-decimal convergence.');
It took k = 42 iterations to reach 4-decimal convergence.

[V, LAMBDA] = eig(A);


echo off
```

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