```
clear all; close all; clc

g = 1.4;

load U.mat;

for i=1:size(U,1)
  W(i,:)=U2W(U(i,:),g);
  lambda(i,:)=eigsEuler(U(i,:),g);
  F(i,:)=fluxEuler(U(i,:),g);
end

fprintf('\n\n--- W ----');
for i=1:size(U,1)
  fprintf('\n %12.3e %12.3e %12.3e',W(i,1:3));
end
fprintf('\n');

fprintf('\n\n--- lambda ----');
for i=1:size(U,1)
  fprintf('\n %12.3e %12.3e %12.3e',lambda(i,1:3));
end
fprintf('\n');

fprintf('\n\n--- F ----');
for i=1:size(U,1)
  fprintf('\n %12.3e %12.3e %12.3e',F(i,1:3));
end
fprintf('\n');
```

```
--- W ----
    1.000e+00    7.500e-01    1.000e+00
    1.000e+00   -2.000e+00    4.000e-01
    1.250e-01    0.000e+00    1.000e-01
    5.992e+00   -6.196e+00    4.609e+01
    1.000e+00   -1.960e+01    1.000e-02


--- lambda ----
    1.933e+00    7.500e-01   -4.332e-01
   -1.252e+00   -2.748e+00   -2.000e+00
    0.000e+00    1.058e+00   -1.058e+00
   -9.478e+00   -2.915e+00   -6.196e+00
   -1.948e+01   -1.960e+01   -1.972e+01


--- F ----
    7.500e-01    1.563e+00    2.836e+00
   -2.000e+00    4.400e+00   -6.800e+00
    0.000e+00    1.000e-01    0.000e+00
   -3.713e+01    2.762e+02   -1.712e+03
   -1.960e+01    3.841e+02   -3.764e+03
```

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