```
%% Section 2: Solving for the steady state
% Initializing errorMes: 0 for no errros, else 1
errorMes = 0;

% The value of technology
A = 1;

% The value of the preference shock
D = 1;

% The rental rate of capital
RK = 1/BETTA - (1-DELTA);

% Capital divided by labor
K_O_N = (RK/(A*(1-ALFA)))^(-1/ALFA);
if K_O_N <= 0
    errorMes = 1;
end

% The wage level
W = A*ALFA*(K_O_N)^(1-ALFA);

% Investment over labor
IV_O_N = DELTA*K_O_N;

% Output over labor
Y_O_N = A*K_O_N^(1-ALFA);

% Consumption over labor
C_O_N = Y_O_N - IV_O_N;
if C_O_N <= 0
    errorMes = 1;
end
```