```
function DCM = Euler2DCM( seq_string, angle_vector )
%Euler2DCM Turn an Euler Angle set into a DCM
    Angle vector in radians
fcnPrintQueue(mfilename('fullpath'))
DCM = eye(3);
%get the trig functions
num_rot = length(seq_string);
c = zeros(num_rot,1);
s = zeros(num rot, 1);
for idx = 1:num rot
c(idx) = cos(angle_vector(idx));
s(idx) = sin(angle_vector(idx));
end
for idx = num_rot:-1:1
    if strcmp(seq_string(idx),'1')
        M = [1 \ 0 \ 0; \ 0 \ c(idx) \ s(idx); \ 0 \ -s(idx) \ c(idx)];
        DCM = DCM*M;
    elseif strcmp(seq_string(idx),'2')
        M = [c(idx) \ 0 \ -s(idx); \ 0 \ 1 \ 0; \ s(idx) \ 0 \ c(idx)];
        DCM = DCM*M;
    elseif strcmp(seq_string(idx),'3')
        M = [c(idx) \ s(idx) \ 0; \ -s(idx) \ c(idx) \ 0; \ 0 \ 0 \ 1];
        DCM = DCM*M;
    else
        fprintf('%s is not a valid axis\n', seq_string(idx))
    end
end
end
```

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