```
function [ state_dot ] = SatelliteDynamics( t, x, parameters )
    % Code your equations here...
    % The code must return in the order you selected, e.g.:
         state_dot = [velocity;
    응
                        orientation_dot;
    응
                        acceleration (ac);
                        angular acceleration (omega dot)];
    응
    응
         state
                    = [position; 1:3
    왕
                        orientation; 4:7
    응
                        velocity; 8:10
    응
                        angular velocity]; 11:13
    R = quat2rot(x(4:7));
    p_{dot} = R*x(8:10);
    q_{dot} = 0.5 * quatProd(x(4:7), x(11:13));
    v_{dot} = R'*(-(parameters.K / norm(x(1:3))^2) * (x(1:3) / (x(1:3))^2)
 norm(x(1:3)));
    w_{dot} = zeros(3, 1);
    state_dot = [p_dot;
                 q_dot;
                 v_dot;
                 w_dot];
end
Not enough input arguments.
Error in SatelliteDynamics (line 15)
    R = quat2rot(x(4:7));
```

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