

```
function [outputMatrix] = Link2Transform(linkMatrix)
% This function is intended to convert a link matrix table to an overall
% transform matrix.
% Detailed explanation goes here
arguments
    linkMatrix (:,4)
end

for i = 1:size(linkMatrix,1)

    alpha_i_minus_1 = linkMatrix(i,1);
    a_i_minus_1 = linkMatrix(i,2);
    d_i = linkMatrix(i,3);
    theta_i = linkMatrix(i,4);

    transformMatrix = ...
        [cos(theta_i), -sin(theta_i), 0, a_i_minus_1; ...
         sin(theta_i)*cos(alpha_i_minus_1), cos(theta_i)*cos(alpha_i_minus_1), -sin(alpha_i_minus_1), -d_i*sin(alpha_i_minus_1); ...
         sin(theta_i)*sin(alpha_i_minus_1), cos(theta_i)*sin(alpha_i_minus_1), cos(alpha_i_minus_1), d_i*cos(alpha_i_minus_1); ...
         0, 0, 0, 1];
    if i > 1
        tempMatrix = tempMatrix*transformMatrix;
    else
        tempMatrix = transformMatrix;
    end
end
outputMatrix = tempMatrix;
end
```