

```
% Calculates the commutation matrix Kmn such that:  
%  
%  $K_{mn} \cdot \text{vec}(A) = \text{vec}(A')$  where A is dimension m x n  
%  
% Based on http://m.feng.li/r-tips/r-commutation-matrix  
function K = Kmn(m,n)
```

```
K = zeros(m*n, m*n);  
m0 = 1:(m*n);
```

```
N = reshape(m0, m,n)';  
n0 = N(:);
```

```
for i = 1:(m*n)  
    K(m0(i), n0(i)) = 1;  
end
```