
```
function A = gauss(A)
n = size(A);

    for k=1:n-1
        for i = k+1:n
            A(i,k) = A(i,k)/A(k,k);
            for j = k+1:n
                A(i,j) = A(i,j)-A(i,k)*A(k,j);
            end
        end
    end
end

function A = gaussRank1(A)
n = size(A);

    for k=1:n-1
        A(k+1:n,k) = A(k+1:n,k)/A(k,k);
        A(k+1:n,k+1:n) = A(k+1:n,k+1:n)-A(k+1:n,k)*A(k,k+1:n);
    end
end
```

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