

```
function [Q, R] = mgs(A)

[m, n] = size(A);

Q = zeros(m, n);
R = zeros(n, n);

v = A;

for i = 1:n
    R(i,i) = norm(v(:,i));
    Q(:,i) = v(:,i) / R(i,i);

    for j = i+1:n
        R(i,j) = conj(Q(:,i))' * v(:,j);
        v(:,j) = v(:,j) - R(i,j) * Q(:,i);
    end
end

Q, R
end
```

Not enough input arguments.

Error in mgs (line 3)
[m, n] = size(A);