```matlab
%Juan Alejandro Ormaza
% Algorithm based on Burden's Numerical Analysis 9th edition

function [eval, evec] = power_method(A,x,tol)

    k=1;
    N=1e100;

    x=x/norm(x,inf); %normalized

    while k<N
        y=A*x;

        lambda=norm(y,inf);

        error=norm((x-(y/norm(y,inf))),2);
        x=y/norm(y,inf);

        if error<tol
            break;
        end

        k=k+1;
    end

    eval=lambda;
    evec=x;



end
```

```
Not enough input arguments.

Error in power_method (line 9)
    x=x/norm(x,inf); %normalized
```