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## Homework 5 problem 1 c

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Juan Alejandro Ormaza September 28 2021

```
format long e
clear all;clc;
```

## problem 1

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```
A=rand(3,3);
fprintf("the condition umber for the matrix above with norm 2 is %1.5f\n",cond(A,2));
fprintf("the condition number for the matrix above with norm 2 is %1.5f\n",cond(A,1));
```

A

```
the condition umber for the matrix above with norm 2 is 9.10721
the condition number for the matrix above with norm 2 is 14.01477
```

A =

1.781169538867664e-01	5.218856736612792e-01	2.089466739931354e-01
3.596349134820803e-01	3.358489746769245e-01	9.051535590044640e-01
5.670468906829118e-02	1.756690296756608e-01	6.753911773362469e-01

