ejercicio_clase_marzo13

March 13, 2019

0.1 Ejercicio 2:

0.2 Algoritmo de factorización LU en su versión outer product

```
In [620]: A=np.matrix([[1.0,2.0,1.0],[2.0,2.0,3.0],[-1.0,-3.0,0.0]])
Out[620]: matrix([[ 1., 2., 1.],
                  [2., 2., 3.],
                  [-1., -3., 0.]])
In [621]: n= A.shape[0]
          print(n)
3
In [622]: for k in range(0,n-1):
              print(k)
              print("k+1=",k+1)
              print("n+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]
              #print(A)
k+1=1
n+1=4
k+1=2
n+1=4
In [623]: A
```

COMPROBACION