```
>> A = [1 4; 2 5; 3 6];
>> A = [1 4; 2 5; 3 6]

A =

     1     4
     2     5
     3     6

>> Grafica_LUvsGaussSeidel
>> Grafica_LUvsGaussSeidel
Error using plot
Invalid data argument.

Error in Grafica_LUvsGaussSeidel (line 10)
plot(x,y1,':','r',x,y2,'--','b');

>> Grafica_LUvsGaussSeidel
>> Grafica_LUvsGaussSeidel
Error using plot
Invalid data argument.

Error in Grafica_LUvsGaussSeidel (line 10)
plot(x,y1,'r-.','LineWindth',2,x,y2,'b--','LineWindth',2);

>> Grafica_LUvsGaussSeidel
Error using plot
Invalid data argument.

Error in Grafica_LUvsGaussSeidel (line 10)
plot(x,y1,'r-.','LineWindth',2,x,y2,'b--');

>> Grafica_LUvsGaussSeidel
Error using plot
Invalid data argument.

Error in Grafica_LUvsGaussSeidel (line 10)
plot(x,y1,'r-.','LineWidth',2,x,y2,'b--','LineWidth',2);

>> Grafica_LUvsGaussSeidel
At least one index is required.

Error in Grafica_LUvsGaussSeidel (line 11)
p().LineWidth = 2;

>> Grafica_LUvsGaussSeidel
>> Grafica_LUvsGaussSeidel
>> Grafica_LUvsGaussSeidel
```

```
>> Grafica_LUvsGaussSeidel
>> Grafica_LUvsGaussSeidel
>> [tx,tiempo_Prom_explicit,tiempo_Prom_implicit,sdt] = implict_vs_explicit↙
(3)
    100


      1


Index in position 2 exceeds array bounds (must not exceed 11).

Error in ProliferacionInvasion2D_MetodoExplicito (line 71)
        c(i,j) = h(x(i,j),y(i,j));

Error in implict_vs_explicit (line 18)
        [tiempoe] = ProliferacionInvasion2D_MetodoExplicito(m,m);

>> [tx,tiempo_Prom_explicit,tiempo_Prom_implicit,sdt] = implict_vs_explicit↙
(3)
    100


      1


      2


      3


      4


      5


Unrecognized function or variable 'tiemp'.

Error in implict_vs_explicit (line 27)
     sdt(i) = std(tiemp);

>> [tx,tiempo_Prom_explicit,tiempo_Prom_implicit,sdt] = implict_vs_explicit↙
(3)
    100


      1


      2


      3


      4


      5
```

Unrecognized function or variable 'tiemp_Prom_explicit'.

Error in implict_vs_explicit (line 28)
    sdte(i) = std(tiemp_Prom_explicit);

>> [tx,tiempo_Prom_explicit,tiempo_Prom_implicit,sdt] = implict_vs_explicit↙
(3)
    100

       1

       2

       3

       4

       5

    400

       1

       2

       3

       4

       5

    900

       1

       2

       3

       4

       5

tx =

    100

```
     400
     900


tiempo_Prom_explicit =

         0
    0.0125
    0.0281


tiempo_Prom_implicit =

    7.3094
    8.0719
    9.6781


sdt =

         0
    0.0131
    0.0131

>> [tx,tiempo_Prom_explicit,tiempo_Prom_implicit,sdte,sdti] =↙
implict_vs_explicit(3)
    100

      1

Unrecognized function or variable 'num_iter'.

Error in ProliferacionInvasion2D_MetodoImplicito (line 205)
    iteraTotal(t_aux) = num_iter;

Error in implict_vs_explicit (line 21)
        [tiempoi,iter,error] = ProliferacionInvasion2D_MetodoImplicito(m,↙
m);

>> [tx,tiempo_Prom_explicit,tiempo_Prom_implicit,sdte,sdti] =↙
implict_vs_explicit(3)
    100

      1

      2

      3
```

```
     4

     5

   400

     1

     2

     3

     4

     5

   900

     1

     2

     3

     4

     5


tx =

   100
   400
   900


tiempo_Prom_explicit =

    0.0406
    0.1281
    0.2687


tiempo_Prom_implicit =

    0.0187
    0.5719
```

```
    4.4500


sdte =

    0.0237
    0.0356
    0.0728


sdti =

    0.0171
    0.0570
    0.1262

>> [tx,tiempo_Prom_explicit,tiempo_Prom_implicit,sdte,sdti] =↙
implict_vs_explicit(6)
    100

      1

      2

      3

      4

      5

    400

      1

      2

      3

      4

      5

    900

      1

      2
```

       3

       4

       5

          1600

       1

       2

       3

       4

       5

          2500

       1

       2

       3

       4

       5

          3600

       1

       2

       3

       4

       5

tx =

          100
          400
          900

```
         1600
         2500
         3600


tiempo_Prom_explicit =

     0.0406
     0.1125
     0.2875
     0.4313
     0.7125
     1.0594


tiempo_Prom_implicit =

     0.0125
     0.5031
     4.2313
    15.9375
    49.9844
   153.9906


sdte =

     0.0237
     0.0257
     0.0888
     0.0601
     0.0513
     0.0474


sdti =

     0.0171
     0.0447
     0.0728
     0.1563
     1.1843
     8.3246

>> [tiempo] = ProliferacionInvasion2D_MetodoExplicito(130,130)

tiempo =
```

```
    4.4688

>> [tiempo_sum,iter,error] = ProliferacionInvasion2D_MetodoImplicito↙
(130,130)
Out of memory.

Error in ProliferacionInvasion2D_MetodoImplicito (line 196)
    [L,U,P] = lu(A_izq);            % Factorizamos la matriz en una↙
triangular inferior y una superior

Related documentation

>> clear
>> [tiempo_sum,iter,error] = ProliferacionInvasion2D_MetodoImplicito↙
(120,120)
197     vM = L\(P*vector_b);              % Resolvemos la matriz↙
inferior

tiempo_sum =

    1.0344e+04


iter =

      0


error =

      0

>>
```