```
     2

     3

     4

     5

       1600

     1

     2

     3

     4

     5

       2500

     1

     2

     3

     4

     5

       3600

     1

     2

     3

     4

     5

>> tiemposTotales

tiemposTotales =
```

```
    0.0099
    0.0194
    0.0304
    0.0476
    0.0756
    0.1064

>> sdt

sdt =

    0.0221
    0.0265
    0.0280
    0.0308
    0.0393
    0.0831

>> [tiempo,iter] = ProliferacionInvasion2D_MetodoImplicito(130,130);
>> tiempo

tiempo =

   11.2253

>> [iteraciones,tamanoProblema,tiemposTotales,sdt] = tiempos(13);
    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

           4900

        1

        2

        3

        4

        5

           6400

        1

        2

        3

        4

        5

           8100

        1

        2

        3

        4

        5

          10000

        1

        2

        3

        4

       5

         12100

       1

       2

       3

       4

       5

         14400

       1

       2

       3

       4

       5

         16900

       1

       2

       3

       4

       5

```
>> tiemposTotales

tiemposTotales =

    0.0107
    0.0229
    0.0364
    0.0551
    0.0883
```

```
    0.1214
    0.1743
    0.2596
    0.4191
    0.8221
    1.2545
    2.5424
    3.2981

>> sdt

sdt =

    0.0239
    0.0315
    0.0336
    0.0344
    0.0459
    0.0910
    0.1626
    0.2845
    0.5474
    1.3749
    1.9387
    4.8292
    5.3667

>> [tiempo,iter] = ProliferacionInvasion2D_MetodoImplicito(30,30);
pcg converged at iteration 2 to a solution with relative residual 2.8e-11.
pcg converged at iteration 2 to a solution with relative residual 2.8e-11.
pcg converged at iteration 2 to a solution with relative residual 2.8e-11.
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pcg converged at iteration 2 to a solution with relative residual 2.8e-11.
pcg converged at iteration 2 to a solution with relative residual 2.8e-11.
pcg converged at iteration 2 to a solution with relative residual 2.8e-11.
>> tiempo

tiempo =

    0.0088

>> [tiempo,iter] = ProliferacionInvasion2D_MetodoImplicito(130,130);
pcg converged at iteration 2 to a solution with relative residual 4.5e-09.
pcg converged at iteration 2 to a solution with relative residual 4.5e-09.
pcg converged at iteration 2 to a solution with relative residual 4.5e-09.
pcg converged at iteration 2 to a solution with relative residual 4.5e-09.
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pcg converged at iteration 2 to a solution with relative residual 4.5e-09.
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pcg converged at iteration 2 to a solution with relative residual 4.5e-09.
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pcg converged at iteration 2 to a solution with relative residual 4.4e-09.
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pcg converged at iteration 2 to a solution with relative residual 4.4e-09.
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pcg converged at iteration 2 to a solution with relative residual 4.4e-09.
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pcg converged at iteration 2 to a solution with relative residual 4.3e-09.
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pcg converged at iteration 2 to a solution with relative residual 4.3e-09.
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pcg converged at iteration 2 to a solution with relative residual 4.3e-09.
pcg converged at iteration 2 to a solution with relative residual 4.2e-09.
pcg converged at iteration 2 to a solution with relative residual 4.2e-09.
pcg converged at iteration 2 to a solution with relative residual 4.2e-09.
pcg converged at iteration 2 to a solution with relative residual 4.2e-09.
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pcg converged at iteration 2 to a solution with relative residual 4.2e-09.
```

```
pcg converged at iteration 2 to a solution with relative residual 4.2e-09.
>> [iteraciones,tamanoProblema,tiemposTotales,sdt] = tiempos(6);
   100


     1


pcg converged at iteration 1 to a solution with relative residual 6.7e-07.
pcg converged at iteration 1 to a solution with relative residual 6.7e-07.
pcg converged at iteration 1 to a solution with relative residual 6.7e-07.
pcg converged at iteration 1 to a solution with relative residual 6.7e-07.
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pcg converged at iteration 2 to a solution with relative residual 6.9e-12.
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pcg converged at iteration 2 to a solution with relative residual 3e-10.
>> tiemposTotales

tiemposTotales =
```

```
        0.0002
        0.0010
        0.0020
        0.0058
        0.0144
        0.0266

>> sdt

sdt =

        0.0006
        0.0016
        0.0022
        0.0076
        0.0175
        0.0337

>>
```