

55-COMPL-lprun-mprun

December 3, 2017

```
In [1]: def cadena(N):  
        C1 = 'ESTA ES NUESTRA CADENA DE PRUEBA '  
        C = ''  
        for j in range(N):  
            C += C1*100  
        return C
```

```
In [2]: %time C = cadena(10)
```

```
CPU times: user 0 ns, sys: 0 ns, total: 0 ns  
Wall time: 357 µs
```

```
In [3]: %time C = cadena(106)
```

```
CPU times: user 2.15 s, sys: 1.96 s, total: 4.1 s  
Wall time: 3.82 s
```

```
In [4]: %load_ext line_profiler
```

```
In [5]: %lprun -T lprofiler1.txt -f cadena cadena(106)
```

```
*** Profile printout saved to text file u'lprofiler1.txt'.
```

```
In [6]: %load_ext memory_profiler
```

```
In [7]: from foo import cadena  
        %mprun -T mprofiler1.txt -f cadena cadena(106)
```

```
('',)
```

```
*** Profile printout saved to text file mprofiler1.txt.
```

Otro ejemplo Hay que reiniciar la hoja antes de ejecutar esta parte. Si no se reinicia suma responde con la memoria en uso que incluye la memoria utilizada en lo ejecutado en la parte de arriba.

```
In [1]: import numpy as np
        %load_ext memory_profiler
```

```
def func(x):
    y = x**2.0
    z = np.exp(y)
    return z
```

```
In [2]: from foo2 import func
```

```
A = np.random.randn(1000,1000)
%mprun -T mprofiler2.txt -f func func(A)
```

```
('',)
```

```
*** Profile printout saved to text file mprofiler2.txt.
```

```
In [ ]:
```