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03MAIR---Algoritmos-de-Optimizacion---2019 / AG1 / Sort\_test.ipynb

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1242883 2 minutes ago

1 contributor

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History



In [1]: `!pip install sorting`

```
Collecting sorting
  Downloading https://files.pythonhosted.org/packages/5a/a7/97e31ce3b9c16f1041bb94063a2778b666ef8ee5862094c248e9445c454c/sorting-1.0.3.tar.gz
Building wheels for collected packages: sorting
  Building wheel for sorting (setup.py) ... done
  Created wheel for sorting: filename=sorting-1.0.3-cp36-none-any.whl size=5882 sha256=9cfce4c51074db6f42464faa3a8164432bbb0d677d6bd09c7652ele6d328bfcb
  Stored in directory: /root/.cache/pip/wheels/eb/f9/9d/ea128e53c92937b3f10b15f961f100068615df83d0b7c3affc
Successfully built sorting
Installing collected packages: sorting
Successfully installed sorting-1.0.3
```

In [0]: `from functools import wraps
from time import time`

```
def calcular_tiempo(f):
    @wraps(f)
    def cronometro(*args, **kwargs):
        t_inicial = time()
        salida = f(*args, **kwargs)
        t_final = time()
        print('Tiempo transcurrido (en segundos): {}'.format(t_final - t_inicial))
        return salida
    return cronometro
```

In [5]: `import sorting
lista = [4,5,32,2,53,67,23]
@calcular_tiempo
def ordenar(lista):
 lista_ordenada = sorting.bubble(lista)
 return lista_ordenada
print(ordenar(lista))`

```
Tiempo transcurrido (en segundos): 1.2874603271484375e-05  
[2, 4, 5, 23, 32, 53, 67]
```

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