

```
import algolab import sys sys.path.append('../exams/2017-01-26-lab/solutions')
```

```
sys.path.append('past-exams/2017-01-13-  
midterm/solutions')
```

```
algolab.init()
```

```
from exercise1_solution import *
```

1.3) swapsort

When you know how to push a maximum element to the rightmost position of an array, you almost have a sorting algorithm. So now you can try to implement swapsort function, taking inspiration from `max_to_right`. Note swapsort is a function *external* to the class `SwapArray`:

```
def swapsort(sarr):  
    """ Sorts in-place provided SwapArray.  
  
        NOTE: Here you are a user of SwapArray, so you *MUST NOT* access  
            directly the field _arr. To do changes, you can only use  
            the method swap(self, i).  
        NOTE: does *not* return anything!  
    """  
  
    raise Exception("TODO IMPLEMENT ME !")
```

You can run tests only for swapsort with this command:

```
python -m unittest exercise1.SwapSortTest
```

Example usage:

```
sarr = SwapArray([7,8,6, 6]) print sarr
```

```
swapsort(sarr) print sarr
```

In [1]: