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]: