

Homework 9

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Homework 9.1:

a) A9.py

To time the methods, the call of the stack must be done like this:

```
sta = my_stack(-1, True)
```

b) A9.py

Homework 9.2:

a)

```
function in_situ_reverse(lst)
    n = A.length()
    for i = 0 to n//2:      #integer quotient
        swap( lst[i], lst[n-1-i] )
    return lst
```

Since this algorithm only uses swaps to reverse our list, (swapping the first element to the left (that wasn't swapped yet) with the last element to the right (that wasn't swapped yet), it is therefore an in-situ algorithm.

b) A9.py

c) A9.py