*[There are no exam questions beyond this point. This page will **not** be marked, unless you clearly indicate the part of your work that you want us to mark.]*

Python Lists "Cheat Sheet"

Assume that `x` is a python list in the following.

Operation	Explanation
`x.append(elt)`	Append `elt` to the end of `x`.
`x.insert(i,elt)`	Insert `elt` at index `i` in `x`.
`x.pop()`	Remove and return the last item in `x`.
`x.pop(i)`	Remove and return the `i`'th item in `x`.
`len(x)`	Return the number of elements in `x`.
`x[i]`	Return the `i`'th item in `x`.
`x[i:j]`	Slice of `x` from `i` to `j`. (Slice includes item `i`, but excludes item `j`.)
`x[:j]`	Slice of `x` from 0 to `j`.
`x[i:]`	Slice of `x` from `i` to the end of `x`.
`x[:]`	Copy of x.
`[y]*n`	Return a list containing `n` copies of `y`.

You may assume the following time complexities for python operations:

Operation	Time Complexity
Appending an item to the **end** of a python list.	O(1)
Removing an item from the **end** of a python list.	O(1)
Inserting an item at the **front** of a python list of length n.	O(n)
Removing an item from the **front** of a python list of length n.	O(n)
Creating a slice with k elements from a python list of length n.	O(k)
`len` function.	O(1)

[Use the space below for rough work.]