

CSE 160 26wi Midterm Exam Reference Sheet

```
# if / elif / else syntax
if condition1:
    # statements
elif condition2:
    # other statements
else:
    # more statements
```

```
# for loop syntax
for i in sequence:
    # statements

# function definition syntax
def function_name(param1, param2, ...):
    # statements
```

Sequences and Lists

<code>range([start,] stop [, step])</code>	Returns a sequence of numbers from start (inclusive) to stop (exclusive) incrementing by step
<code>len(lst)</code>	Returns the number of elements in lst
<code>lst = []</code>	Creates an empty list
<code>lst[idx]</code>	Returns the element in lst at index idx
<code>lst[start:end:step]</code>	Returns a slice of lst from index start (optional) to index end (exclusive), incrementing by step (optional)
<code>lst.append(elmt)</code>	Adds the elmt to the end of lst , returns None
<code>lst.extend(sequence)</code>	Adds each of the elements in sequence to the end of lst , returns None
<code>lst.index(elmt)</code>	Returns the index of the first occurrence of elmt in lst , errors if elmt is not in lst
<code>lst.count(elmt)</code>	Returns the number of times elmt occurs in lst
<code>lst.remove(elmt)</code>	Removes the first occurrence of elmt from lst , errors if elmt is not in lst , returns None
<code>lst.pop(idx)</code> <code>lst.pop()</code>	Removes and returns the element at index idx in lst With no parameter, removes the last element in lst
<code>lst.insert(idx, elmt)</code>	Inserts elmt into lst at index idx , returns None

File I/O

<pre>file = open(filepath, "r") # read entire file at once file.read() file.close()</pre>	<pre>file = open(filepath, "r") # read line by line for line in file: # process line</pre>	<pre>file = open(filepath, "w") # write entire file at once file.write(string_to_write) file.close()</pre>
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