

CSE 160 26wi Midterm Exam Reference Sheet

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# if / elif / else syntax          # for loop syntax
if condition1:                  for i in sequence:
    # statements                  # statements
elif condition2:                # function definition syntax
    # other statements           def function_name(param1, param2, ...):
else:                           # statements
    # more 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

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