sum(lst) | sum of the elements in lst
---|---
max(lst) | maximum value of lst
min(lst) | minimum value of lst
.append(elm) | Mutates the list by adding elm to the end of the list
.count(elm) | Number of times see elm in the list
Announcements

• Assignment 1 Totem due today, Feb 11, 11:30pm
  • Also REFLECT Form due same time
  • Get one grace day, but no consulting hours on Friday

• APT-2 out Tues, Feb 16

• Exam on Tuesday!, Feb 16

• Exam 1 Question session – Sunday Feb 14, 4pm
  • Use lecture zoom link, recorded
  • Bring questions, if no questions, it will be short!
PFTD

- Lists continued
- String methods and more
- Exam 1
Exam 1 Rules

- This is your own work, no collaboration
- Open book, Open notes

- Do not search for answers on the internet
- Do not type in code where it can be compiled and run
  - Do not use PyCharm, textbook code boxes, Python tutor or any other place the code can be run
- Do not talk to anyone about the exam during the exam, and until it is handed back!
Exam 1 Logistics

• Take on Tues. Feb 16 between 7am and 11pm
• You pick the start time
  • Must start by 9:15pm
• You get 1 hour 45 min
  • Longer if you have accommodations
• Once you start, your timer starts and you must finish in 1 hour, 45 minutes
• You cannot pause the timer
Exam 1 Logistics (2)

- Go to Gradescope to start
  - login with your netid
  - select the CompSci 101 Exam site
    - Different site than where you turn in assignments
- Click on Exam 1 to start
- Gradescope saves answers as you type them in
  - Type 4 spaces to indent code
- Disconnected? Just log back in to Gradescope
- Question? Post a private post on Piazza
Don’t go to Gradescope site until you are ready to start!

You click it, you have started!

We do not restart it!
WOTO-1 Cloning
List Concatenation Steps

1. Calculate the \textit{length} of the new list
2. \underline{Create} list of that length
3. \underline{Copy} values from first list
4. \underline{Copy} values from second list
5. \underline{Assign the variable to the new list}
List Mutation: `.append(…)`

- `.append()` – list function that adds element to end of list
  - Mutates list to left of “.”
  - “.” – call function to the right of the dot on the thing to the left of the dot (LEFT. RIGHT)
WOTO-3– List Append


• Try drawing it out if you aren’t sure!
String’s split(…)

- Strings have functions too!
- **TYPE STRING.FUNCTION(PARAMETERS)**
  - “.” means apply function to what is on the left
String’s join(…)  

- **TYPE_STRING.join(SEQ_OF_STRINGS)**   
  - Opposite of .split()  
  - Creates string from sequence’s items separated by the string to the left of join
WOTO-4 – Split and Join
# More Methods

## String

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>find(s)</code></td>
<td>Index of first occurrence of s</td>
</tr>
<tr>
<td><code>rfind(s)</code></td>
<td>Index of last occurrence of s (from Right)</td>
</tr>
<tr>
<td><code>upper()</code></td>
<td>Uppercase version of string</td>
</tr>
<tr>
<td><code>lower()</code></td>
<td>Lowercase version of string</td>
</tr>
<tr>
<td><code>strip()</code></td>
<td>Remove leading/trailing whitespace</td>
</tr>
<tr>
<td><code>count(s)</code></td>
<td>Number of times see s in string</td>
</tr>
<tr>
<td><code>startswith(s)</code></td>
<td>Bool of whether the string begins with s</td>
</tr>
<tr>
<td><code>endswith(s)</code></td>
<td>Bool of whether the string ends with s</td>
</tr>
</tbody>
</table>

## List

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<td><code>append(elm)</code></td>
<td>Mutates the list by adding elm to the end of the list</td>
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<td><code>count(elm)</code></td>
<td>Number of times see elm in the list</td>
</tr>
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</table>