for-loops

To loop over each integer value in the range 0..(n-1):

```python
for <loop_index> in range(n):
    <statements>
```

For example:

```python
for x in range(3):
    print(2*x+1)
```

produces output

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

Strings

- `str(object)`: Converts object, e.g. int or float to a string
- `string1 + string2`: Returns a new string that is the concatenation of `string1` and `string2`
- `string * int`: Returns a new string that is `string` repeated `int` times

**random module**

- `randint(a, b)`: Return a random integer `N` such that `a ≤ N ≤ b`
- `uniform(a, b)`: Return a random floating point number `N` such that `a ≤ N ≤ b`

For example:

```python
import random
n = random.randint(0,3)
for i in range(n):
    s = str(i)+' hi'
    print(s)
```

might sometimes produce the output

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>hi</td>
</tr>
<tr>
<td>1</td>
<td>hi</td>
</tr>
<tr>
<td>2</td>
<td>hi</td>
</tr>
</tbody>
</table>

or it might produce just the first 2 lines, or just the first line, or no output at all.