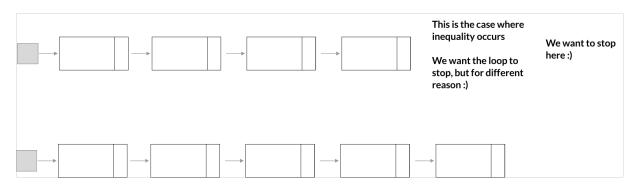
CSC148 Worksheet 13 Solution

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Question 1

a. The following diagram tells us the stopping condition occurs when both *curr1* and *curr2* is *None*.



Using this fact, the python expression involving curr1 and curr2 that expresses the stopping condition is

```
(curr1 is not None) and (curr2 is not None)
```

b. Python expression for the while loop condition is

```
while (curr1 is not None) and (curr2 is not None):
...
```

c. The code for traversing two list is

```
while (curr1 is not None) and (curr2 is not None):
    if curr1 is None or curr2 is None:
        return False

if curr1.item != curr2.item:
        return False

curr1 = curr1.next
curr2 = curr2.next
```

- d. After the loop ends, we know all items in curr1 and curr2 are identical.
- e. Because we know on successful loop termination, all items in curr1 and curr2 are the same, we can use this information to conclude the two linked lists have the same length.

Question 2