CS 110 Loop Tables

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What will this print?

```
one = 'the lost world'
two = 'the last stride'
i = min(len(one), len(two)) - 1
count = 0
while i >= 0:
    if one[i] == two[i]:
        count += 1
    i -= 1
print('tally:', count)
```

Loop Table for LOCATION

```
one = 'the lost world'
two = 'the last stride'
i = min(len(one), len(two)) - 1
count = 0
while i >= 0:
    if one[i] == two[i]:
        count += 1
    i -= 1
    # LOCATION
print('tally:', count)
```

i	count
12	1
11	1
10	2
9	2
8	2

```
password = input('Enter a password:\n')
has upper = False
has special = False
i = 0
while i < len(password):</pre>
    if password[i].isupper():
        has upper = True
    if password[i] == '!' or password[i] == '?' or password[i] == ';':
        has special = True
    # LOCATION

    Write down the value of variables i,

    i += 1
                                      has_upper, and has_special for this
                                      location.
if has upper and has special:
    print("Valid Password")
                                      Do so using a loop table
else:
    print("Invalid password.")
```

```
password = input('Enter a password:\n')
has_upper = False
has special = False
i = 0
while i < len(password):</pre>
    if password[i].isupper():
        has_upper = True
    if password[i] == '!' or password[i] == '?' or password[i] == ';':
        has special = True
    # LOCATION
    i += 1
if has_upper and has_special:
    print("Valid Password")
else:
    print("Invalid password.")
```

```
letters = ''
a = 0
b = 8
c = 'r'
while a < b:
    if a > 2:
        letters = letters + c
    else:
        letters = letters + 'e'
    a += 1
    b = 1
    # LOCATION
```

Write down the value of variables a, b, and letters when the body of the loop ends each iteration

Do so using a loop table

```
letters = ''
a = 0
b = 8
c = 'r'
while a < b:
    if a > 2:
        letters = letters + c
    else:
        letters = letters + 'e'
    a += 1
    b = 1
    # LOCATION
```

а	b	letters
1	7	'e'
2	6	'ee'
3	5	'eee'
4	4	'eeer'

LOCATION -

j += 1

i += 1

print(i, j, other)

print('other > i')
 other += 4

j = 0
while j < 2:</pre>
Write down the value of
variables i, j and other
when the body of the loop
ends each iteration

Do so using a loop table

```
i = 0
other = 100
while i < 3:
    if other > i:
        print('other > i')
        other += 4
```

j = 0

i += 1

while j < 2:

j += 1

LOCATION

print(i, j, other)

```
i = 0
                                                       other
other = 100
while i < 3:
                                                        104
    if other > i:
         print('other > i')
                                                        104
        other += 4
                                                        108
    j = 0
    while j < 2:
                                                        108
        # LOCATION
         print(i, j, other)
                                                        112
        j += 1
                                                        112
    i += 1
```