

First Look: Lists & Strings

20.code/lists_intro.py

```
1  # What does this program output?
2
3  my_list = ["one", "two", "three", "four", "five"]
4
5  print(my_list[0])           "one"
6  print(my_list[-1])         "five"
7  print(my_list[2:4])         ["three", "four"]
8
9  for num in my_list:         "one"
10     if num.count("o") > 0:   "two"
11         print(num)           "four"
12
13  phrase = "Green Eggs & Ham"
14  print("green" in phrase)     False
15  print("Green" in phrase)     True
16  print("two" in my_list)      True
17
18  phrase = "Monty Python"
19  for letter in phrase:
20     print(letter, end="-")    M-o-n-t-y- -P-y-t-h-o-n-
21  print()
22
23  # Assume the user enters the following numbers:
24  # 5 10 15 20 25
25  numbers = []
26  for i in range(5):
27     numbers.append(eval(input("Please enter a number: ")))
28  print(sum(numbers))          75
```

In the code above, identify the following:

1. Loop variables **num, letter, i**
2. List initializations **my_list =**
numbers =
3. Function definitions **None**
4. Function calls **print, string.count,**
list.append, eval, input, sum
5. Conditions **if num.count("o") > 0**
6. Boolean Expressions **"green" in phrase, "Green" in phrase, "two" in my_list, num.count("o") > 0**
7. String Literals **anything in ""**