

1. What is the output of the following Python code?

```
listA = [4, "cow", -10, [1,2,3], -54.9]
listA.append("hat")
listA[2] = "dog"
listA[3][2] = 999
print(listA)
```

Output of the Code Above:

[4, "cow", "dog", [1,2,999], -54.9, "hat"]

2. What is the output of the following Python code?

```
listB = [34, -9, 10, 18, 5, -2]

print(listB[1:4])
print(listB[-1])

listB.sort()
listC = listB + list(range(2,7))

print(listC)
```

Output of the Code Above:

[-9, 10, 18]

-2

[-9, -2, 5, 10, 18, 34, 2, 3, 4, 5, 6]

sorted
listB

1

range part

3. Write Python code that uses the **range** function to fill a list with the integers 1, 2, ..., 3000. Then use a slice of your list to print the odd integers. (Note: this should be two short lines of code.)

```
listD = list(range(1, 3001))  
print(listD[::2])
```

whole
list

step size 2