

Consider the following code for all of the questions.

```
L0 = [1, 2, 3, 4]
L1 = ['a', 'b', 'c', 'd']
A = L0+L1
B = L1+L0
C = [L0,L1]
D = [L1,L0]
```

Circle the output of each of the following Python commands.

1.

`print(A == B, C == D, A == C, B == D)`

- (a) True True False False
- (b) False False False False
- (c) False False True True
- (d) True True True True

2.

`print((len(A)*len(B))/len(C)+len(D))`

- (a) 16
- (b) 16.0
- (c) 34
- (d) 34.0

3.

`print(A[2],B[len(B)-1],C[-1],D[0])`

- (a) 3 4 ['a', 'b', 'c', 'd'] ['a', 'b', 'c', 'd']
- (b) 2 3 ['a', 'b', 'c', 'd'] [1, 2, 3, 4]
- (c) 3 4 'd' 'a'
- (d) Error

4. _____
`print(C[0][-1], C[1][3], D[0][2], D[1][-1])`

(a) 4 d c 4
(b) d 4 3 d
(c) [1, 2, 3, 4][-1] ['a', 'b', 'c', 'd'][3] ['a', 'b', 'c', 'd'][2] [1, 2, 3, 4][-1]
(d) Error

Write the output of each of the following Python for-loops.

5. _____
`for x in L0:
 for y in C:
 print(x,y)`

6. _____
`for L in D:
 for x in L:
 print(x*2)`
