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Programming and Data Structures with Python

Quiz 1, 3 September 2026, I Semester, 2026–2027

Note: There were three questions, with four variants of each question. There were multiple question papers with different combinations of variants.

1. One of the following 10 statements generates an error. Which one? (Your answer should be a number between 1 and 10.)

```

x = [1,[7,8],2,"efgh",(3,4)]    # Line 1
y = x[0:6]                       # Line 2
z = x                            # Line 3
w = y                            # Line 4
x[1] = x[4][0:3] + (3,)          # Line 5
y[2] = 4                         # Line 6
z[1][1] = 8                      # Line 7
z[0] = 0                         # Line 8
w[4][0] = 1000                   # Line 9
a = (x[4][1] == 4)               # Line 10

```

2. One of the following 10 statements generates an error. Which one? (Your answer should be a number between 1 and 10.)

```

x = [1,[7,3,4,1],2,"efgh",(3,4)] # Line 1
y = x[0:50]                       # Line 2
z = y                             # Line 3
w = x                             # Line 4
x[1] = x[4] + (2,)                # Line 5
w[1][1] = 6                       # Line 6
y[2] = 4                          # Line 7
z[0] = 0                          # Line 8
w[4][0] = 1000                    # Line 9
a = (x[4][1] == 4)                # Line 10

```

3. One of the following 10 statements generates an error. Which one? (Your answer should be a number between 1 and 10.)

```

x = [[7,8],3,"ding",[8,16],"ling",17] # Line 1
z = [x[0],x[3]]                      # Line 2
y = x[2:50]                          # Line 3
w = x                                # Line 4
w[3][1] = 7                          # Line 5
a = z[0][1] + z[1][1]                 # Line 6
x[3] = (1,13)                         # Line 7
y[1] = [y[1][0] + y[1][1]]            # Line 8
w[3][1] = 7                          # Line 9
y[1][0] = 7                          # Line 10

```

4. One of the following 10 statements generates an error. Which one? (Your answer should be a number between 1 and 10.)

```
z = ["cat",[17,8],3,"cap",[6,8],17]    # Line 1
x = [z[4],z[1]]                        # Line 2
w = z[1:50]                            # Line 3
y = z                                  # Line 4
y[4][1] = 7                            # Line 5
z[4] = (17,2)                          # Line 6
w[0] = w[0][1] + w[3][1]               # Line 7
y[4][1] = 7                            # Line 8
a = x[0][1] + x[1][1]                  # Line 9
w[3][1] = 7                            # Line 10
```

5. What is the value of `len(range(39,-4,-4))`?

6. What is the value of `len(range(31,-5,-3))`?

7. What is the value of `len(range(43,-5,-4))`?

8. What is the value of `len(range(37,-7,-4))`?

9. What is the value of `l[14]` at the end of the following statements?

```
l = list(range(1,20))
l[4:8] = list(range(11,2,-2))
```

10. What is the value of `l[8]` at the end of the following statements?

```
l = list(range(20,2,-1))
l[3:7] = list(range(2,11,3))
```

11. What is the value of `l[13]` at the end of the following statements?

```
l = list(range(1,20))
l[3:7] = list(range(13,4,-2))
```

12. What is the value of `l[9]` at the end of the following statements?

```
l = list(range(20,3,-1))
l[1:5] = list(range(3,13,2))
```