10.17 Exercises

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1) Yes

2) It starts from the last element to the beginning element

3) lst = [45, -3, 16, 8]

4)

a. lst[0]

b. lst[3]

c. 10

d. 29

e. -4

f. 29

g. 10

h. List indices cannot be float

5)

a. 3

b. 5

c. 1

d. 5

e. 5

f. 2

g. 0

h. 3

6) len function

7) []

8)

a. [20, 1, -34, 40, -8, 60, 1, 3]

b. [20, 1, -34]

c. [-8, 60, 1, 3]

d. [-8, 60, 1, 3]

e. [40, -8]

f. [20, 1, -34]

g. [-8, 60, 1, 3]

h. [20, 1, -34, 40, -8, 60, 1, 3]

i. [20, 1, -34, 40]

j. [1, -34, 40, -8]

k. True

l. False

m. 8

9)

1. Not possible

2. Not possible

3. Not possible

4. Not possible

5. m=(empty), n=(empty)

6. m=0, n=0

7. Not possible (without indicating steps)

8. m=0, n=3

9. m=2, n=(empty)

10. Not possible

11. m=1, n=4

10)

a. [8, 8, 8, 8]

b. [2, 7, 2, 7, 2, 7, 2, 7, 2, 7, 2, 7]

c. [1, 2, 3, 'a', 'b', 'c', 'd']

d. [1, 2, 1, 2, 1, 2, 4, 2]

e. [1, 2, 4, 2, 1, 2, 4, 2, 1, 2, 4, 2]

11)

a. [3, 5, 7, 9]

b. [50, 60, 70, 80, 90]

c. [12, 15, 18]

d. [(0, 0), (0, 1), (0, 2), (0, 3), (1, 0), (1, 1), (1, 2), (1, 3), (2, 0), (2, 1), (2, 2), (2, 3)]

e. [(0, 0), (0, 2), (1, 1), (1, 3), (2, 0), (2, 2)]

12)

a. [x**2 for x in range(1, 6)]

b. [x/4 for x in range(1, 7)]

c. [(x, y) for x in ['a', 'b'] for y in range(3)]

13) x in lst

14) It's a function that iterates over list elements from back to front

15 – 23) Answer in python file