## **DATA Structure Remaining Completed**

```
In [1]: l=[]
 In [3]: 1.append(10)
         1.append(20)
         1.append(30)
         1.append(40)
         1.append(50)
         1.append(60)
         1.append(70)
         1.append(80)
         1.append(90)
         1.append(10)
 In [4]: 1
 Out[4]: [10, 10, 10, 10, 20, 30, 40, 50, 60, 70, 80, 90, 10]
 In [5]: | 11=[]
 In [6]: 11
Out[6]: []
In [13]: l1.append(10)
         11.append(20)
         11.append(30)
         11.append(40)
         11.append(50)
         11.append(60)
         11.append(2.3)
         11.append('nit')
         11.append((1+2j))
         11.append([1,2,3])
In [10]: 11
Out[10]: [10, 20, 30, 40, 50, 60, 2.3, (1+2j), [1, 2, 3]]
In [11]: 11
Out[11]: [10, 20, 30, 40, 50, 60, 2.3, (1+2j), [1, 2, 3]]
In [12]: 11
Out[12]: [10, 20, 30, 40, 50, 60, 2.3, (1+2j), [1, 2, 3]]
In [14]: 11
```

```
Out[14]: [10,
           20,
            30,
           40,
            50,
           60,
            2.3,
            (1+2j),
           [1, 2, 3],
           10,
            20,
            30,
           40,
           50,
           60,
           2.3,
            'nit',
            (1+2j),
           [1, 2, 3]]
In [15]: 11
Out[15]: [10,
           20,
            30,
           40,
            50,
            60,
            2.3,
            (1+2j),
           [1, 2, 3],
           10,
            20,
            30,
           40,
           50,
           60,
           2.3,
            'nit',
            (1+2j),
            [1, 2, 3]]
In [16]:
         11.count(10)
Out[16]: 2
         11.remove(10)
In [17]:
In [18]: 11
```

```
Out[18]: [20,
           30,
           40,
           50,
           60,
           2.3,
            (1+2j),
           [1, 2, 3],
           10,
           20,
            30,
           40,
           50,
           60,
           2.3,
           'nit',
            (1+2j),
           [1, 2, 3]]
In [19]:
          11.remove(2.3)
In [20]: 11
Out[20]: [20,
           30,
           40,
            50,
           60,
            (1+2j),
           [1, 2, 3],
           10,
           20,
           30,
           40,
           50,
           60,
           2.3,
           'nit',
           (1+2j),
           [1, 2, 3]]
In [21]: 11.insert(2,35)
          11
In [22]: 11
```

```
Out[22]: [20,
           30,
            35,
           40,
            50,
           60,
            (1+2j),
           [1, 2, 3],
           10,
           20,
           30,
           40,
           50,
           60,
           2.3,
           'nit',
            (1+2j),
           [1, 2, 3]]
In [23]: 11.insert(2,35)
In [24]: 11
Out[24]: [20,
           30,
           35,
           35,
           40,
           50,
           60,
           (1+2j),
           [1, 2, 3],
           10,
           20,
           30,
           40,
           50,
           60,
           2.3,
           'nit',
            (1+2j),
           [1, 2, 3]]
In [25]: 11.pop()
Out[25]: [1, 2, 3]
In [26]: 11
```

```
Out[26]: [20,
           30,
            35,
            35,
           40,
            50,
            60,
            (1+2j),
           [1, 2, 3],
           10,
            20,
            30,
           40,
           50,
           60,
           2.3,
            'nit',
            (1+2j)]
In [27]: 11.remove(30)
          11
In [28]:
          11
Out[28]: [20,
           35,
            35,
           40,
            50,
           60,
            (1+2j),
            [1, 2, 3],
           10,
            20,
            30,
           40,
           50,
           60,
           2.3,
            'nit',
            (1+2j)]
In [29]:
         1.pop(30)
                                                      Traceback (most recent call last)
         IndexError
        Cell In[29], line 1
         ----> 1 1.pop(30)
        IndexError: pop index out of range
In [30]: 11.pop(30)
```

```
IndexError
                                                   Traceback (most recent call last)
        Cell In[30], line 1
        ----> 1 11.pop(30)
        IndexError: pop index out of range
In [31]: 11.pop(1)
Out[31]: 35
         11
In [32]: 11
Out[32]: [20,
           35,
           40,
           50,
           60,
           (1+2j),
           [1, 2, 3],
           10,
           20,
           30,
           40,
           50,
          60,
           2.3,
           'nit',
           (1+2j)]
In [35]: 13=[]
         13
In [36]: 13
Out[36]: []
In [37]: 13.append(10)
In [38]: 13
Out[38]: [10]
In [39]: 13.extend(11)
In [40]: 13
```

```
Out[40]: [10,
           20,
           35,
           40,
           50,
           60,
           (1+2j),
           [1, 2, 3],
           10,
           20,
           30,
           40,
           50,
           60,
           2.3,
           'nit',
           (1+2j)]
In [41]: | 11.reverse()
In [42]: 11
Out[42]: [(1+2j),
           'nit',
           2.3,
           60,
           50,
           40,
           30,
           20,
           10,
           [1, 2, 3],
           (1+2j),
           60,
           50,
           40,
           35,
           20]
In [43]: 110=[5,2,8,10,12]
          110
In [44]:
         110
Out[44]: [5, 2, 8, 10, 12]
In [45]:
         110.sort()
In [46]: 110
Out[46]: [2, 5, 8, 10, 12]
In [47]: 110.sort(reverse=True)
In [48]: 110
```

Out[48]: [12, 10, 8, 5, 2]

Tn [ ]