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① s = " Complicated "
0 1 2 3 4 5 6 7 8 9 10

g = [[0, 1], [1, 7], [10, 11]]

def f(x, y, z):
    return x + y + z

x = f(s[g[0][0]], s[g[1][1] : g[1][1]+3], "r")

g[0][0] = 0

g[1][1] = 7

s[g[0][0]] = s[0] = "C"

s[g[1][1] : g[1][1]+3] = s[7 : 10] = "ate"

x = f("C", "ate", "r")

x = "Cater"

② d = {"name": "expectation", "type": 14, "n": 8}
0 1 2 3 4 5 6 7 8 9 10

z = 7

s = "before"

d["name"][2:-3] = "pectat"

d["type"] = 14

(d["n"] + z) = 8 + 7 = 15

x = d["name"][2:-3] + str(d["type"]) + str(d["n"] + z)

x = "pectat" + "14" + "15"

x = "pectat1415"

③ d = {"n": 0, "p": 6, "z": 3, "r": 3, "e": 2}

s = "never"
0 1 2 3 4

s[1] = "e"
s[0] = "n"
s[4] = "r"

d[s[1]] = d["e"] = 2

d[s[0]] = d["n"] = 0

d[s[4]] = d["r"] = 3

x = str(2) + s[0:3]

x = "2" + "nev"

x = 2nev

④ a = [[5, 6, 5], [1, 7, 3], [9, 4, 6]]

b = [1, 0, 3, 2, 0, 4, 3, 3, 2, 4]
0 1 2 3 4 5 6 7 8 9

c = 7

b[1] = 0
b[3] = 2

a[2][1] =

x = a[0][2] * c + b[4]

x = 5 * 7 + 0

x = 35

⑤ a = 4
b = a
c = 3

X = str(a * b) * c = str(36) * 3

x = 363636

6 def f(a, b, c):
    return a + c - b

f(9, 4, 3) = 8
f(4, 4, 3) = 3
f(3, 5, 6) = 4
x = 8 - 3 + 4 = 9

7 def f(pos, L):
    return L[pos] + 3

P[4, 8, 2, 9]
0 1 2 3

g[4, 8, 0, 2, 2, 4, 3]
0 1 2 3 4 5 6

a = 2

f(2, P) = P[2] + 3 = 5

f(g[a], g) = f(g[2], g) = f(0, g) = g[0] + 3 = 7

x = 5 + 7 = 12

(8) import pandas as pd
dF = pd.read_csv('datos.csv')
dF.head(10)

(9) import pandas as pd
dF = pd.read_excel('datos.xlsx')
dF.tail(10)

(10) - import pandas as pd # importa la libreria
- inla = Pd.read_csv('.....', parse_dates["regdate", "last login"])
#genera el data frame y indica que las columnas regdate y last login son fechas

- insta["gender"] = insta["gender"].astype("category")
- insta["Country"] = insta["Country"].astype("category")
- insta["Influencer"] = insta["Influencer"].astype("bool")
- # Cambian el tipo de dato de los elementos de cada columna y lo almacenan en la misma.
- insta.head(7)
  # muestra las 7 primeras filas.