

7.) Shake sort (lista):

inicio, final = 0, len(lista) - 1

while inicio < final:

print(lista)

intercambiado = False

for i in range(inicio, final):

if lista[i] > lista[i+1]:

lista[i], lista[i+1] = lista[i+1], lista[i]

intercambio = True

if not intercambio:

break

final = final - 1

for i in range(final, inicio, -1):

if lista[i] < lista[i-1]:

lista[i], lista[i-1] = lista[i-1], lista[i]

intercambio = True

if not intercambio:

break

inicio += 1

While

inicio	final	lista
0	8	[100, 22, 95, 1, 23, 45, 450, 18, 35]
1	7	[1, 22, 95, 18, 23, 45, 100, 35, 450]
2	6	[1, 18, 22, 23, 35, 45, 95, 100, 450]

Primera pasada primer for

i	Lista	Intercambio
0	[100, 22, 95, 1, 23, 45, 450, 18, 35]	False
1	[22, 100, 95, 1, 23, 45, 450, 18, 35]	True
2	[22, 95, 100, 1, 23, 45, 450, 18, 35]	True
3	[22, 95, 1, 100, 23, 45, 450, 18, 35]	True
4	[22, 95, 1, 23, 100, 45, 450, 18, 35]	True
5	[22, 95, 1, 23, 45, 100, 450, 18, 35]	True
6	[22, 95, 1, 23, 45, 100, 450, 18, 35]	True
7	[22, 95, 1, 23, 45, 100, 18, 450, 35]	True

final = 7

Primera pasada segundo for

i	lista	Intercambio
7	[22, 95, 1, 23, 45, 100, 18, 35, 450]	True
6	[22, 95, 1, 23, 45, 100, 18, 35, 450]	True
5	[22, 95, 1, 23, 45, 18, 100, 35, 450]	True
4	[22, 95, 1, 23, 18, 45, 100, 35, 450]	True
3	[22, 95, 1, 18, 23, 45, 100, 35, 450]	True
2	[22, 95, 1, 18, 23, 45, 100, 35, 450]	True
1	[22, 1, 95, 18, 23, 45, 100, 35, 450]	True

inicio = 1

intercambio = False

Segunda pasada primer for

lista

Intercambio

False

False

True

True

True

True

final = 6

Segunda pasada segundo for

lista

Intercambio

True

True

True

True

True

inicio = 2

intercambio = False

Tercera pasada primer for

lista

Intercambio

False

False

False

False