

# Bubble sort in python

```
Unsorted list is: [9, 8, 2, 55, 3, 2, 6, 3, 0]
The sorted list is: [0, 2, 2, 3, 3, 6, 8, 9, 55]
```

```
Continue? (y/n)|
```

```
#Bubble Sort
def func_bubblesort(list01):

    for i in range (0, len(list01)): #This means that the loop will continue until all items are in correct place rather than just looping once

        for x in range(0, len(list01) -1): #IN PSEUDOCODE PUT -2
            if list01[x] > list01[x+1]: # equal items not re-ordered # swaps positions of right is greater than left
                temp = list01[x] # temporary variable as it is to be overwritten
                list01[x] = list01[x+1]
                list01[x+1] = temp

            #When no more swaps are made the sorting is complete
    return list01

def main_proc():
    list01 = [9,8,2,55,3,2,6,3,0]
    print("Unsorted list is: " , list01)

    sorted_list = func_bubblesort(list01)
    print("The sorted list is:", sorted_list)

#loops program
response = "y"
while response == "Y":
    main_proc()
    response = input("\nContinue? (y/n)")
    response = response.upper()
```