

**Q1**Apply selection sort for the following list to sort it in ascending order. Record your answer for the first two passes.

80	29	73	43	97	52	Original
						Pass 1
						Pass 2

How many comparisons and exchanges are done in each pass of the selection sort algorithm?

Passes	Exchanges	Comparisons
Pass 1		
Pass 2		

**Q2**Apply bubble sort to the following list to sort it in ascending order. Record your answer for the first two passes.

80	29	73	43	97	52	Original
						Pass 1
						Pass 2

How many comparisons and exchanges are done in each pass of the bubble sort algorithm?

Passes	Exchanges	Comparisons
Pass 1		
Pass 2		

**Q3** Record the values of the list data EACH TIME it changes

```
def insertionSort(data):
    for index in range(1,len(data)):
        temp = data[index]
        position=index
        while position>0 and data[position-1]>temp:
            data[position]=data[position-1] #if item on left is greater copy right
            position=position-1
        data[position]=temp # insert temp at position
insertionSort([80,29,73,43])
```

index = 1    temp = 29

index = 2    temp = 73

index = 3    temp = 43