## Question 7 [12 marks]:

The following is a sequence of five numbers:

30	20	10	40	50

Use Bubble Sort to sort the five numbers in the sequence into **ascending** order. Show the result of each pass by showing the whole sequence in a new line with sorted numbers underlined.

	0	1	2	3	4
	30	20	10	40	50
Pass 1	20	10	30	40	50
Pass 2	10	20	30	40	50
Pass 3	10	20	30	40	50

1st pass	0	1	2	3	4		
	30	20	10	40	50		
1st comp	20	30	10	40	50		
2nd comp	20	10	30	40	50		
3rd comp	20	10	30	40	50		
4th comp	20	10	30	40	50		
Swap = yes							
and noss	0	1	2	3	4		
2nd pass	20	10	30	40	50		
1st comp	10	20	30	40	50		
2nd comp	10	20	30	40	50		
3rd comp	10	20	30	40	50		
Swap = yes							
Ord pace	0	1	2	3	4		
3rd pass	10	20	30	40	50		
1st comp	10	20	30	40	50		
2nd comp	10	20	30	40	50		
Swap = no							