

Question 6 [12 marks]:

The following is a sequence of six numbers:

0	1	2	3	4	5
14	71	52	25	36	17

Use Selection Sort to sort the seven numbers in the sequence into **descending** order. Show the result of each step by showing the whole sequence in a new line with sorted numbers underlined.

	0	1	2	3	4	5
	14	71	52	25	36	17
Step 1	71	14	52	25	36	17
Step 2	71	52	14	25	36	17
Step 3	71	52	36	25	14	17
Step 4	71	52	36	25	14	17
Step 5	71	52	36	25	17	14
Step 6	71	52	36	25	17	14
Final Result	71	52	36	25	17	14