

1. List the members of your group below:

2. Sort the following array in ascending order using *insertion sort*.¹ Depict the state of the array after each insertion operation.

i:	0	1	2	3	4	5	6	7	8	9	10	11	12	13
a[i]:	50	40	60	70	65	75	62	63	41	42	51	52	53	54

¹Mark Allen Weiss, *Data Structures and Problem Solving Using Java*, 3rd edition (Addison-Wesley, 2006), §8.3.

- Sort the array of Question 2 in ascending order using *selection sort*. Depict the state of the array after each selection operation.

4. Sort the array of Question 2 in ascending order using in-place heapsort.² Depict intermediate states of the array, and the corresponding binary heaps in the usual graphical notation, including at least the states after the initial *buildHeap* operation and each *deleteMax* operation. Note that the first data item is in `a[0]` and not `a[1]` as in the previous class.

²*Idem*, §21.5.

[additional space for answering the earlier question]