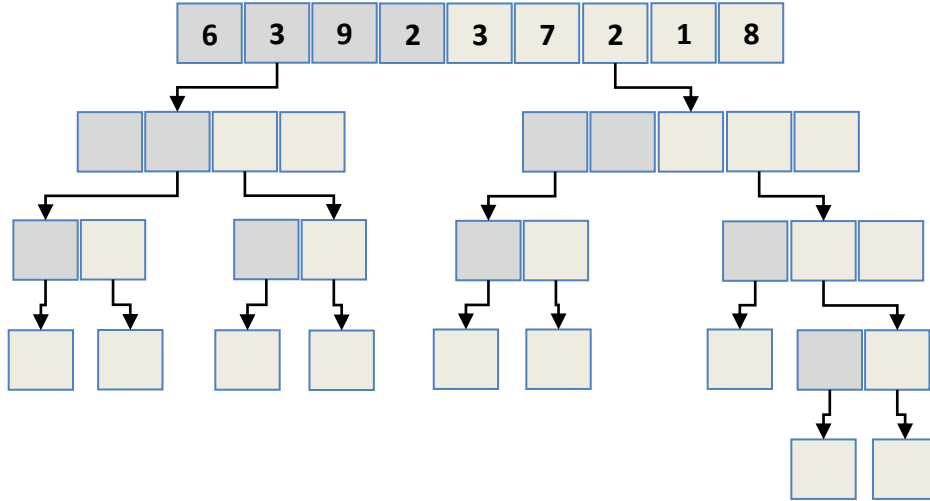




Worksheet 1

Question 1

- a) The diagram below shows phase 1 of the merge sort algorithm. Fill in the values in the boxes to show how this phase operates.

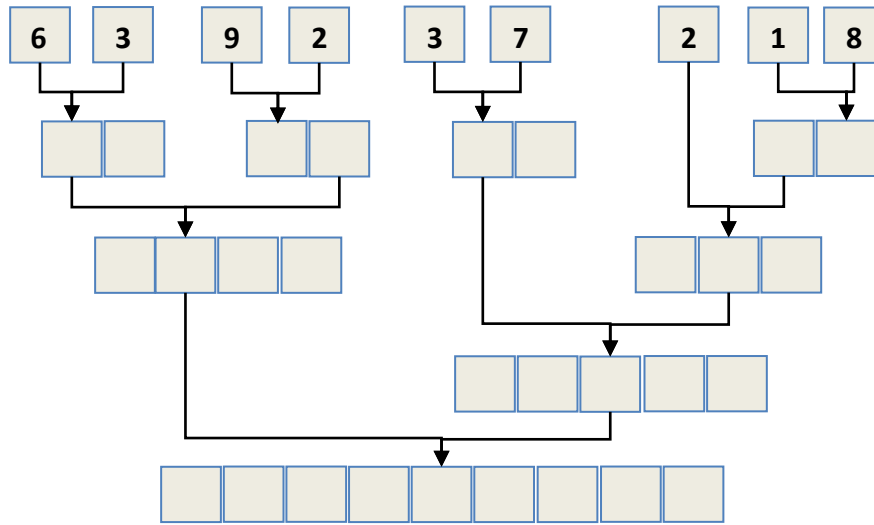


[3 marks]

- b) Explain phase 1 of the merge sort algorithm.

[2 marks]

c) The diagram below shows phase 2 of the merge sort algorithm. Fill in the values in the boxes to show how this phase operates.



[3 marks]

d) Explain phase 2 of the merge sort algorithm.

[2 marks]

State one **advantage** and one **disadvantage** of merge sort when compared to bubble sort.

[2 marks]