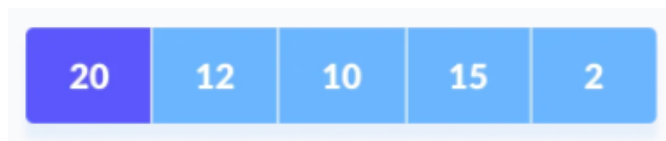
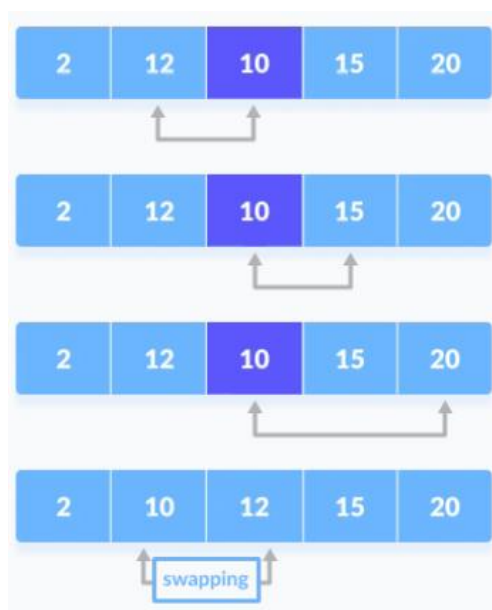
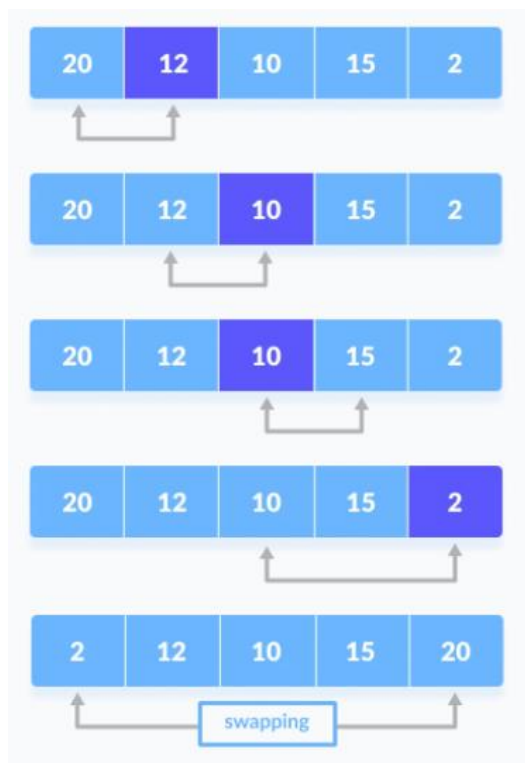


Q) Selection Sort

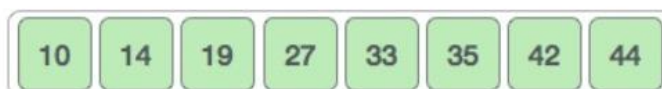
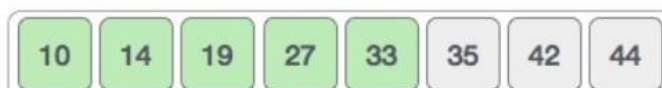
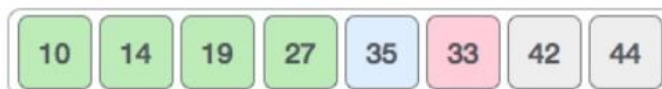
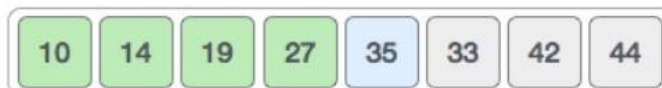
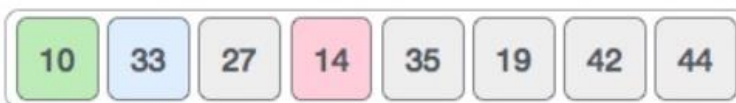


Soln :





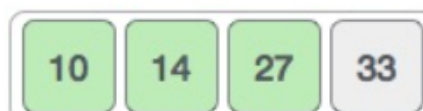
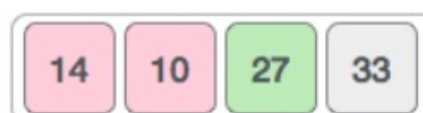
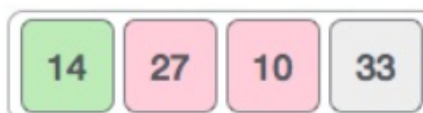
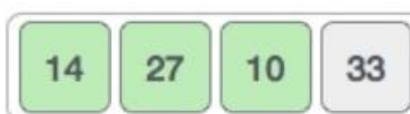
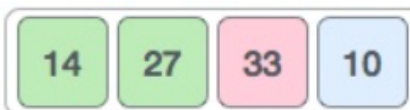
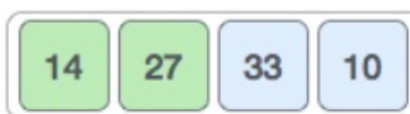
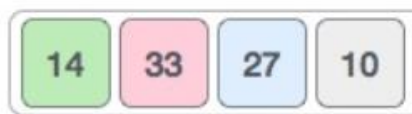
Q) Selection Sort



Q) Insertion Sort



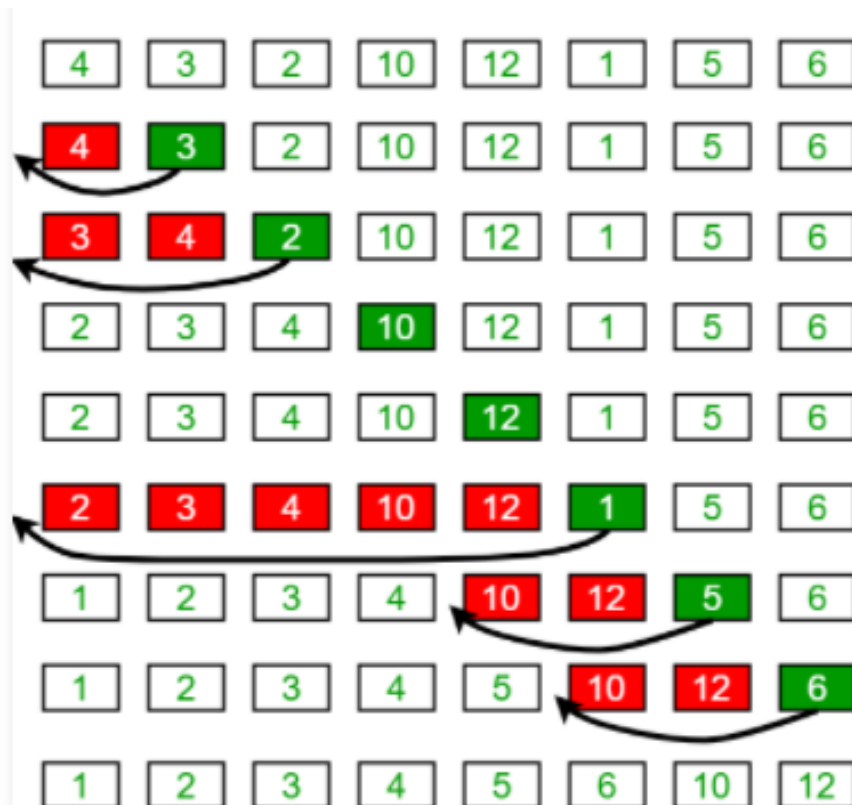
Soln :



Q) Insertion sort



Soln :



Q) Bubble Sort

5 1 4 2 8

Soln :

First Pass

(5 1 4 2 8) \rightarrow (1 5 4 2 8)

(1 5 4 2 8) \rightarrow (1 4 5 2 8)

(1 4 5 2 8) \rightarrow (1 4 2 5 8)

(1 4 2 5 8) \rightarrow (1 4 2 5 8)

Second Pass

(1 4 2 5 8) \rightarrow (1 4 2 5 8)

(1 4 2 5 8) \rightarrow (1 2 4 5 8)

(1 2 4 5 8) \rightarrow (1 2 4 5 8)

(1 2 4 5 8) \rightarrow (1 2 4 5 8)

Now, the array is already sorted

Third Pass

(1 2 4 5 8) \rightarrow (1 2 4 5 8)

(1 2 4 5 8) \rightarrow (1 2 4 5 8)

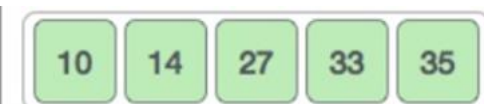
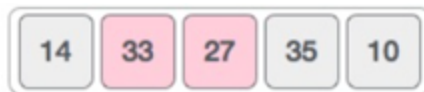
(1 2 4 5 8) \rightarrow (1 2 4 5 8)

(1 2 4 5 8) \rightarrow (1 2 4 5 8)

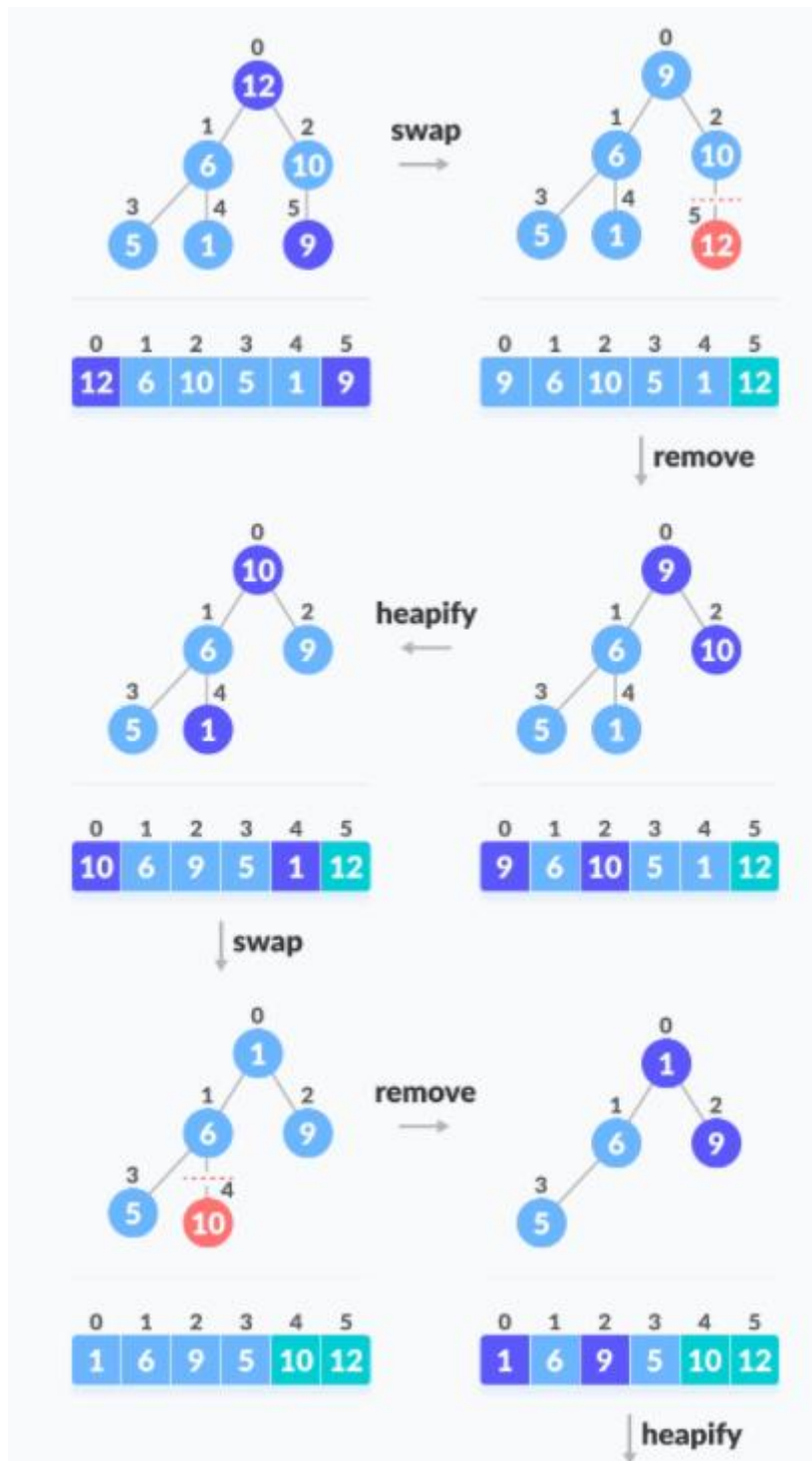
Q) Bubble Sort

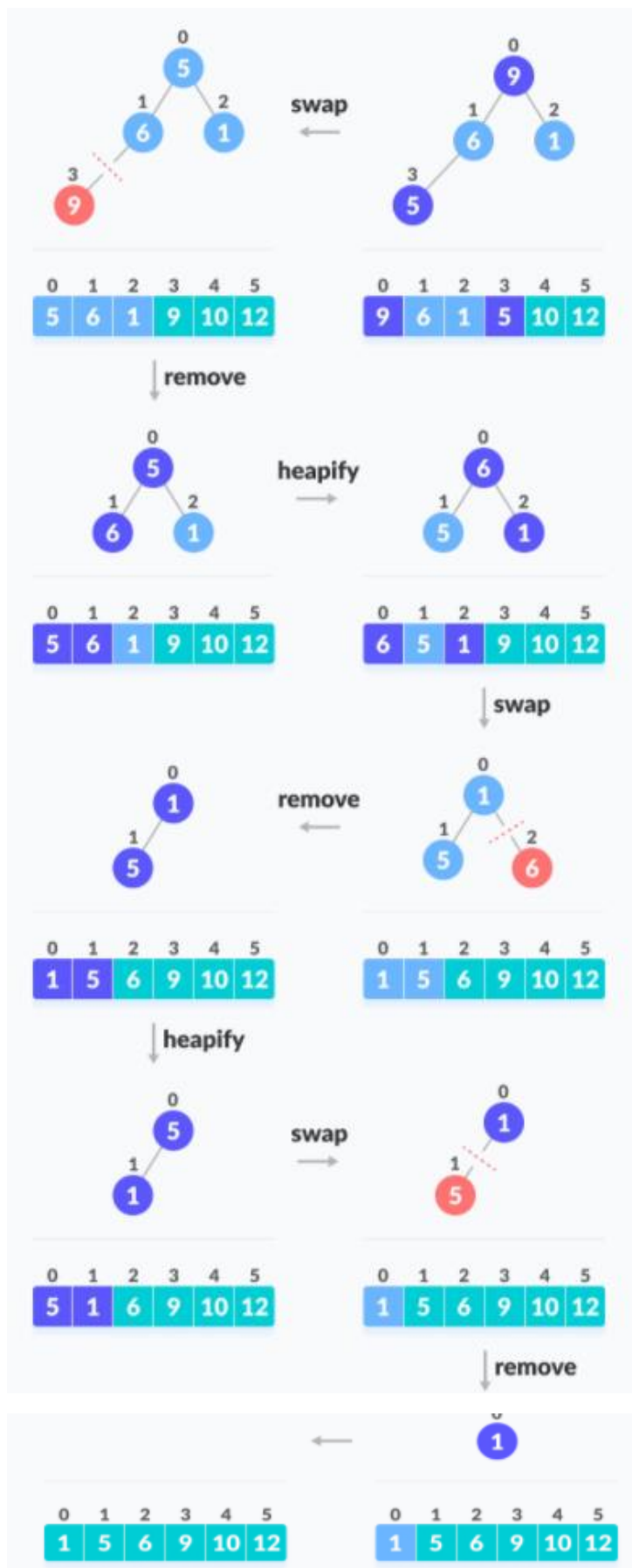


Soln :

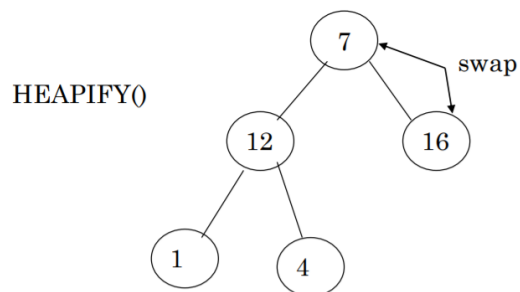
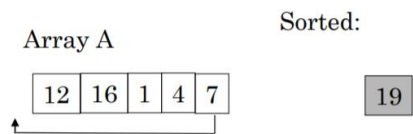
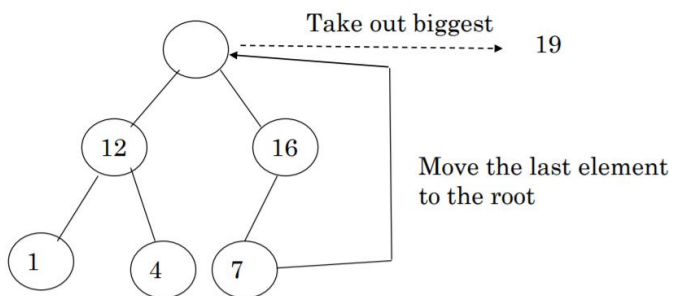
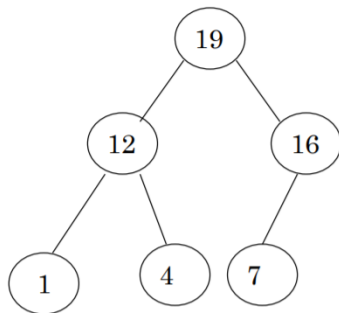


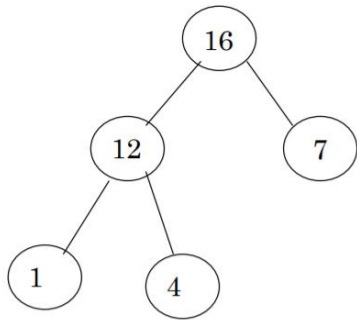
Q) heap sort





Q) heap sort



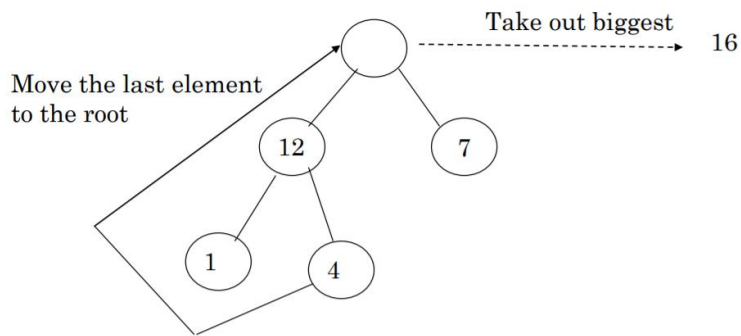


Array A

16	12	7	1	4
----	----	---	---	---

Sorted:

19

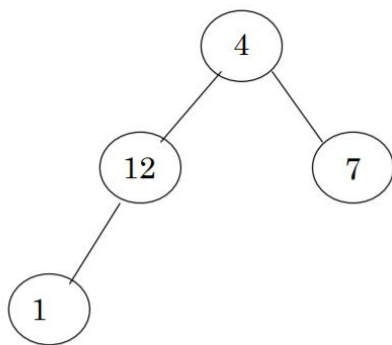


Array A

12	7	1	4
----	---	---	---

Sorted:

16	19
----	----

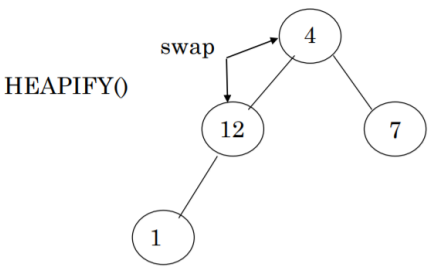


Array A

4	12	7	1
---	----	---	---

Sorted:

16	19
----	----

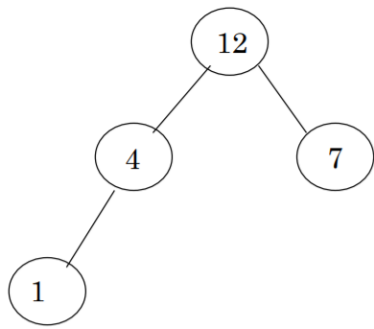


Array A

4	12	7	1
---	----	---	---

Sorted:

16	19
----	----

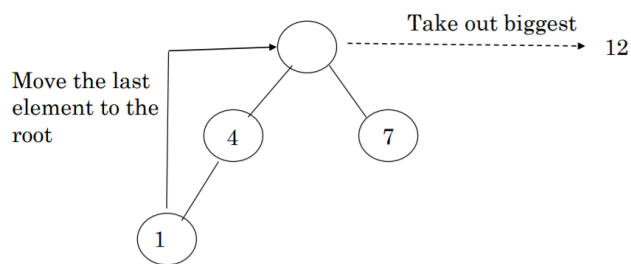


Array A

12	4	7	1
----	---	---	---

Sorted:

16	19
----	----

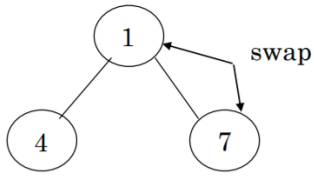


Array A

4	7	1
---	---	---

Sorted:

12	16	19
----	----	----

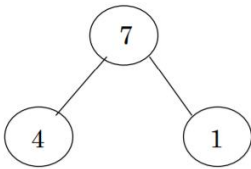


Array A

1	4	7
---	---	---

Sorted:

12	16	19
----	----	----

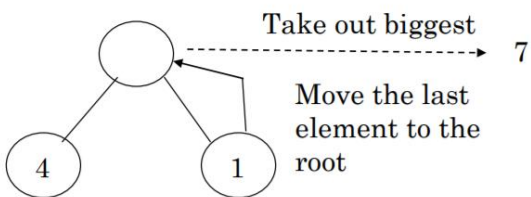


Array A

7	4	1
---	---	---

Sorted:

12	16	19
----	----	----

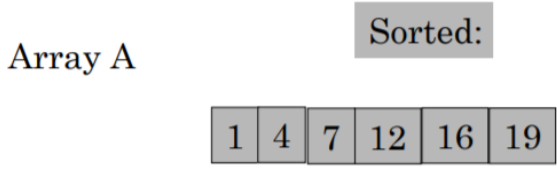
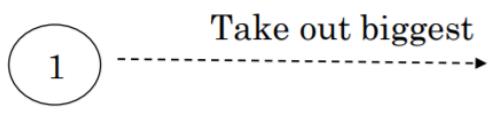
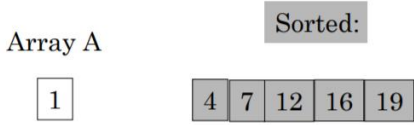
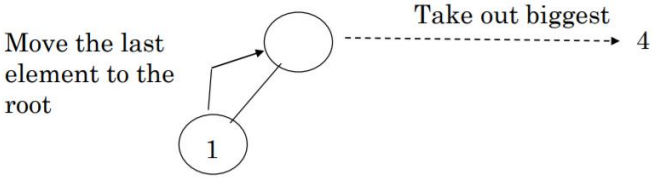
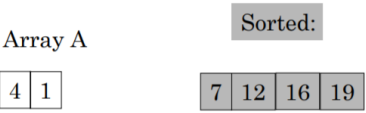
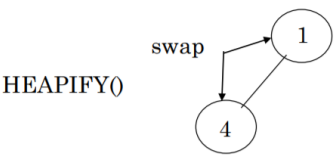


Array A

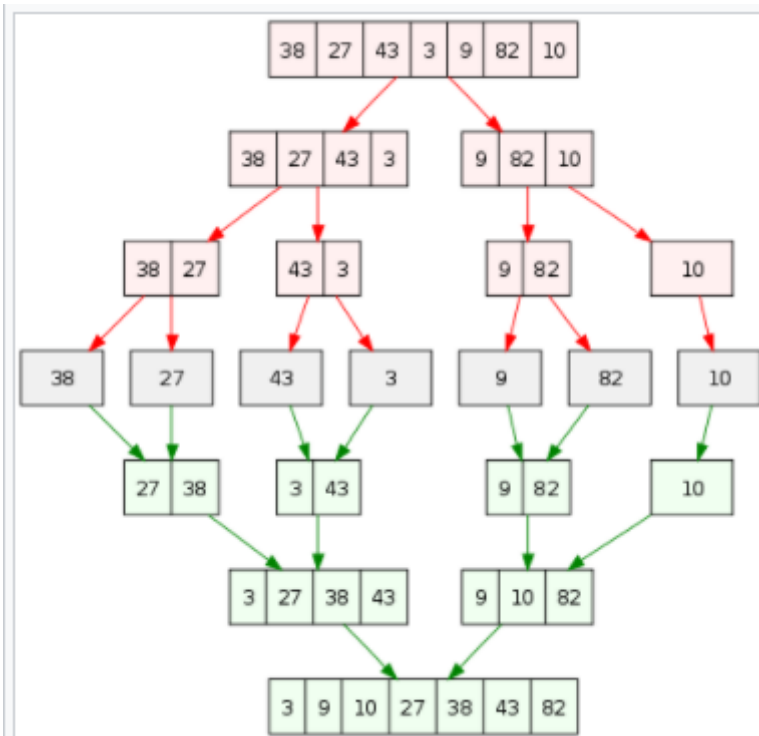
1	4
---	---

Sorted:

7	12	16	19
---	----	----	----



Q) merge sort



References :

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