

Section 3 - Sorting and Recursion

Now that you are done with the videos of section 3, let's assess your learning. Here, are a few questions, followed by a few options, out of which 1 is the correct option. Select the right option and validate your learning! The answers are provided in a separate sheet

Q1.Sorting using Bubble sort has complexity...

- a. $O(n^2)$
- b. $O(N)$
- c. $O(N \log N)$
- d. $O(1)$

Q2.Sorting using Heap sort has complexity...

- a. $O(n^2)$
- b. $O(N)$
- c. $O(N \log N)$
- d. $O(1)$

Q3.Writing programs using standard recursion could end up with the

- a. StackOverflowException
- b. NullPointerException
- c. ArrayOutOfBoundsException
- d. OutOfMemoryException

Q4.Tail recursion optimization means that recursive call should be the last call in the method

- a. yes
- b. no