- 1. Implement quick sort.
  - a. Only C++ and Java are allowed
  - b. You will need to take input from a file. The input format is described in the next section.
  - c. You cannot use built-in quick sort.

## 2. Input and output format:

- a. The first line of the file will describe how many inputs there are in the file. Let us call this value k.
- b. In each of the following k lines, there will be a series of integers:

Input	Output
2 1962-10 5315412	-1 0 1 2 6 9 1 2 3 4 5 15
3 731802 21234-1 013124	0 1 2 3 7 8 -1 1 2 2 3 4 0 1 1 2 3 4

- c. The output will print the integers as sorted.
- d. The output will have to be printed in a file.

## 3. Bonus task.

- a. Use generics/template to handle any data type.
- b. Report the depth of the tree.
- 4. Note that the spec might be updated a few times until the submission deadline with additional details and modifications. Check ELMS from time to time if there are any additional updates/requirements.
- 5. Submission requirements:
  - a. Take all the codes(only codes) and put them in a folder with your roll number as the name of the folder.
  - b. Compress it in .zip format and submit it.