CS201 Data Structures and Algorithms
Autumn 2021, Details of Project
Total marks: 25, Activity type: Team

Objective: To conduct a theoretical study of the "LUMBERJACK" problem listed in Optil.io.
Requirements (Outcomes): For grading: (i) a report need to be submitted; (ii) a presentation on the project

Project Theory Evaluation (Maximum 25 marks):
A report should be submitted by each team which contains a theoretical study of the given project problem. You may think of this as a theoretical counterpart of the project you are implementing for CS211. The report should be a pdf file and should be named as ***<team-no>.pdf***, where <***team-no***> is the *serial number given to your team*. The report should be rich in content and should exhibit the theoretical understanding of the problem gained by your team. *The report should not exceed 6 pages*. The following pointers can be part of the report, but not limited!

- Team details - no., name, members (name and roll numbers)
- A brief description of algorithm
- Pseudocode of algorithm
- Choice of data structures and the reason for the choice.
- A complexity analysis of algorithm
- A list of theoretical observations you made on the problem
- The techniques that you have not tried but like to try if you get time….

Marks distribution:

- *The content of the report will be evaluated out of 15 marks*.
  For organization of the content you receive a maximum 5 marks - make sure that the report is well organized with proper sectioning and there are no grammatical/spelling errors. *There will be a 2.5% penalty if the naming convention is not followed for the report*.
- Deadline for submission of the report (without penalty): 5th November (Friday): 11:59 pm
- Deadline for submission of the report (with 25% penalty): 8th November (Monday): 1:59 pm
- Presentation (Maximum 10 marks)

Presentation:
(i) each team has to give a presentation of about 5 minutes; (ii) the presentation should be based on the report you submit - you are supposed to convey clearly the main techniques that you used while solving the problem in 5 minutes; (iii) the presentations will be done through Google Meet - you can share your screen and do the presentation with the help of slides or any mode of presentation is fine - even you can prepare an animation if you want; (iv) we will give marks out of 5 for the quality of presentation.