



# Problem Solving With C - UE24CS151B

## Sorting the File Contents

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## PROBLEM SOLVING WITH C

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1. Data file Description
2. Problem Statement
3. Requirements to solve the Problem
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#### Data File Description

- Data file to be used: **student.csv**
- Contains the information of students in two columns only.
- First row represents the column headers such as **roll\_no** and **name**.
- Contains around 55 rows. Every data is stored with a **comma(,)** in between.

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### Problem Statement

- Create a menu driven program to perform selection sort based on roll\_number and name. Use student.csv to extract the dataset and write the sorted record to a new file.

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#### Requirements to solve the problem

- Creating the student type with two data members – roll\_no and name
- Reading the csv file line by line
- Splitting the line based on the delimiter using strtok function
- Copying the data from the data file to the data members of the student structure
- Client code requires menu driven code - Provide the option to the user to sort based on roll\_no or name
- Perform selection sort based on the option from the user
- Create a new file using fopen and sorted record write to a new file(roll\_no+name)

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### Demo of C Solution

- Demonstration of C Code

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Try It!!

- Use callback function and avoid writing two different functions.



**THANK YOU**

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