

1. This exercise involves reading and writing to files in C.

Given a file in the following format:

course number, student number, grade

For example,

151123,313445445,97.33

151101,444555666,98.88

151101,333444555,100

151123,444555666,96.01

Write a program which will create another file containing the information in a format organized by course number (in ascending order) separated by a blank line and listing student numbers (in ascending order) and the grades of each student followed by the average grade for the course.

For the previous example, the new file should look like this:

course 151101

333444555,100

444555666,98.88

average 99.44

course 151123

313445445,97.33

444555666,96.01

average 96.67

Run the script by giving it the names of the file containing the data and the name of the file to be created. For example,

```
./create_grade_listings grades.csv grade_listing.txt
```