EC504 2020 Instructions Pick one of the Suggestions:

#1. Twitter Key Search

#2. Dropbox Like Storage

#3. Nearest Providence Finder

#4. Max Flow Image Segmentation

#5. Comparative Data Structures

or discuss another topic with Instructor.

See additional information some input files for a few projects on GitHub in Project Information file (Request for additional information on other projects can be made in class or on Slack)

Next **Tuesday Nov 16** you must pick a team (2 to 3 students) and topic and put on Slack couple of slides describing the project plan by **Tues Nov 18** . Be able to explain in class on Nov 18 what you are trying to do. Of course it may be changed, probable down sized, as you realize time constraints!

You will also deliver prototype code along with instructions for compilation and execution so your work can be tested independently on new inputs. Instructions for this report are included are given here.

Final Project Submisson

I. Documentation

• description of the problem

• relevant references and background materials

• high-level description of the implementation, with particular emphasis on the design decisions related to data structures and algorithms

• a list of the features from the project proposal that have been implemented

for each feature implemented, provide a description of how it was implemented with an emphasis on data structures and algorithms used

II. Code:

• complete, working code for your implementation

• clear and terse instructions how an average student in class can compile and run your code from scratch

III. Work breakdown

• a statement detailing what each member of the group contributed to the project

Your code must have a clear stand alone C or C++ component

Simple C++ code in the style of the Homework exercises is recommended. Better to have a modest code that is correct.

The code must be compile and run on your CCS account. Only partial credit will be given to any code that is not working

Each team should have code on a team **GitHUB with a README** adequate to explain how to run the code. (Give access to your GitHUB in your report)

All slides, documents, code and graphic output

submitted at /projectnb/alg504/login_name/PROJECT **duplicated for all members** of the team. The code must be able to be compiled by a Makefile and run to give some sample output.

Dec 7 and Dec 9: Each Team will give a short slide presentation in the last two classes

Dec 12: The written documentation submitted in a well short written report (5 to 8 pages recommended) and submitted as a pdf file also at /projectnb/alg504/login_name/PROJECT