

Lab 12 Pointers and Arrays (Optional)

1. Download [opt.cpp](#). The program defines an array with 10 cstrings representing the students list, and an array with 5 cstrings representing the course list. The program has already *randomly* assigned each student to register one course. Complete the program so that it can
 1. count the number of registrations for each course
 2. print the course list in descending order according to the number of registrations
 3. print the registered students' names for each course and students' names should be sorted in ascending alphabetical order.

One sample output is as follows:

```
Eason registers Data structures
Iverson registers Internet
Jack registers C++ Programming
Harry registers C++ Programming
Charles registers Mathematics
Alice registers Data structures
George registers Internet
David registers C++ Programming
Bob registers C++ Programming
Fairy registers Internet

4 students register C++ Programming : Bob David Harry Jack
3 students register Internet : Fairy George Iverson
2 students register Data structures : Alice Eason
1 student registers Mathematics : Charles
Nobody registers English
```

Note: Your actual output is likely to be different from the above output, because the course registration is RANDOMLY assigned.