

CMPS 150

Final Exam – Sample with 2-D Array

Assume you have a 2-dimensional array of floating point numbers, with 15 rows and 12 columns. Each row (rows 0 – 14) represents a different hospital, and each column represents a month of the year (with column 0 = January). There are values stored in each cell representing that hospital's number of emergency room admissions for that month. All 180 elements contain a valid value. Write a code FRAGMENT for each of the following:

a) Calculate the total (overall) emergency admissions, i.e., you must sum all 180 array elements.

b) Calculate/determine which hospital (0-14) had the least number of admissions for the entire year.

c) Calculate and print total admissions for each month.

NOTE: You may use the constant below to make printing month names easier.

HINT: Be careful on this one. For example, all admissions for January are in slots: `[0][0],[1][0],..., [14][0]`

```
const string MONTH[12] = {"January", "February", "March", "April", "May", "June", "July",  
                          "August", "September", "October", "November", "December"};
```