

Please read all the questions carefully and raise your hand for assistance if you have any questions.

- 1.) The following data structure stores information about 100 students. Print on the standard output stream the name and gpa of the student with the highest (maximum) gpa. (Use a simple, sequential search to find the largest gpa.)

```
const int MAX = 100;
struct Grid {           // information about one student
    string name;         // student's name
    double gpa;          // student's gpa
};
Grid list[MAX];         // data for 100 students (assume initialized somewhere else)
```

- 2.) For this problem, assume that we have two C++ string variables declared as follows
- ```
string name; string message;
```

- a) Write a C++ statement to display this message on the standard output stream:

*Hello. What's your name?*

- b) Write a C++ statement to read a string value from the standard input stream and store it in variable name.

- c) Write a *single* C++ statement to store in variable message a string that starts with "Nice to meet you, " and ends with the contents of variable name. For instance, if name contains "Bob", your code should store "Nice to meet you, Bob" in variable message.

- 3.) Rewrite the following C function in C++ using C++ reference parameters instead of pointers.

```
int func(int a, int * b, int * c){
 a = 3;
 *b = *b + a;
 *c = *b;
 return (*b)+(*c)+a;
}
```