EECE.3220: Data Structures Spring 2017

Lecture 3: Key Questions January 23, 2017

1. Describe the key details of structures in both C and C++.

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2. <u>Example:</u> Show the output of the following short program. Assume the user enters the following when prompted for input: -1 1

```
#include <iostream>
```

```
using namespace std;
struct Point {
    double x;
    double y;
};
int main() {
    Point p1 = {3, 5};
    Point p2 = \{7.8, 9.1\};
    cout << "p1: (" << p1.x << ", " << p1.y << ")\n";
    cout << "p2: (" << p2.x << ", " << p2.y << ")\n";
    cout << "Enter new x, y for p1: ";</pre>
    cin >> p1.x >> p1.y;
    p2 = p1;
    p2.x -= 1.2;
    p1.y *= 2;
    cout << "p1: (" << p1.x << ", " << p1.y << ") \n";
    cout << "p2: (" << p2.x << ", " << p2.y << ")\n";
   return 0;
}
```