

For this section of the test you will be writing parts of a program that keeps displays the exercises of individuals that are stored in the file routines.csv. There are three classes: Exercise, WeightedExercise which is derived from Exercise, and Routines which only contains a multimap, named routineMap, that uses names as keys, and pointers to Exercises as values.

```
class Exercise {
    string name;
    int reps; // repetitions;
public:
    Exercise(const string &n, int r): name(n), reps(r){}
    virtual ~Exercise(){}
    const string& getName()const{return name;}
    int getReps()const {return reps;}
    virtual void print() {cout << left << setw(20) << name.c_str() << " " << reps;}
}; // class Exercise

int main()
{
    Routines routines;
    string name;
    ifstream inf("routines.csv");
    inf >> routines;

    cout << "Name (0 = Done): ";
    getline(cin, name);
    while(name != "0")
    {
        routines.display(name);
        cout << "Name (0 = Done): ";
        getline(cin, name);
    } // while
    return 0;
}
```

```
[ssdavis@lect2]$ cat routines.csv
Barry Bonds,5
Chin-ups,30
Lat Pulldown,20,90
Push-ups,25
Shoulder Press,10,140
Leg Press,25, 206
Woody Allen, 2
Push-ups,5
Wrist curl,10,2
The Rock, 3
Leg Press,50, 325
Chin-ups,65
Seated Row,40, 220
[davis@lect2]$
```

```
[ssdavis@lect2]$ a.out
Name (0 = Done): Barry Bonds
Chin-ups          30
Lat Pulldown     20 90
Leg Press        25 206
Push-ups         25
Shoulder Press   10 140
Name (0 = Done): Sean
Name (0 = Done): Woody Allen
Push-ups         5
Wrist curl       10 2
Name (0 = Done): The Rock
Chin-ups         65
Leg Press        50 325
Seated Row       40 220
Name (0 = Done): 0
[davis@lect2]$
```