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3/20/2018
CS 250 Ch 11

Pg. 653-658 / 2-10 even, 18-28 even, 46, 52

2.) No. It defines a data type that can be used to create a variable, but it does not create one on its own.

4.) a.) Point center;
b.) center.x = 12;
c.) center.y = 7;
d.) cout << "Center: (" << center.x << ", " << center.y << ")\n";

6.) cout << "Part Name of Element 49: " << inventory[49].partName;

8.) a.) Rectangle x;
r = &x;
b.) *(r).length = 10;
*(r).width = 14;

10.) a.) valid
b.) invalid
c.) false (but valid)
d.) false // need to static cast
e.) valid
f.) valid
g.) valid //prints index

18.) Car cars[25];

20.)
```
cout << setw(8) << " " << setw(12) << "Make" << setw(6) << "Year" << setw(7) << "Cost\n";
for(int i = 0; i<35; i++) {
        cout << "Car " << setw(2) << i << ": " << setw(12) << cars[i].carMake << setw(6) <<
        cars[i].yearModel << "$" << setw(6) << cars[i].cost << endl;
}
```

22.)
```
reading.windSpeed = 37;
reading.humidity = .32;
reading.temperature = {32, 0};
```

24.)
```
void findReading(Reading &r) {
        cout << "Wind Speed: ";
        cin >> r.windSpeed;
        cout << "Humidity: ";
        cin >> r.humidity;
        cout << "Temperature(F): ";
        int tempF = 0;
        cin >> tempF;
        cout << "Temperature(C): ";
```

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```
        int tempC = 0;
        cin >> tempC;
        r.temperature = {tempF, tempC};
    }
```

26.)
```
    void recordReading(Reading * r) {
        cout << “Wind Speed: “;
        cin >> r->windSpeed;
        cout << “Humidity: “;
        cin >> r->humidity;
        cout << “Temperature(F): “;
        int tempF = 0;
        cin >> tempF;
        cout << “Temperature(C): “;
        int tempC = 0;
        cin >> tempC;
        r->temperature = {tempF, tempC};
    }
```

28.) a.) Color
b.) RED, ORANGE, GREEN, BLUE
c.) Color c = RED;

46.) forgot semicolon after the closing curly bracket

52.) Uses struct “TwoVals” when it doesn’t exist in this program. Should’ve used “ThreeVals”. *sptr.a derefferences a, not sptr. Should use (*sptr).a instead.