Q-15

Take the Quiz Again

Attempt History

	Attempt	Time	Score
KEPT	Attempt 6	8 minutes	10 out of 10
LATEST	Attempt 6	8 minutes	10 out of 10
	Attempt 5	9 minutes	10 out of 10
	Attempt 4	13 minutes	9.5 out of 10
	Attempt 3	7 minutes	9 out of 10
	Attempt 2	12 minutes	9 out of 10
	Attempt 1	9 minutes	7.5 out of 10

⚠ Correct answers are hidden.

Submitted Jul 22 at 10:50pm

Question 1   1 / 1 pts

Examine the following definition. `Employee` is formally known as the _____.

```
struct Employee
{
    long empID;
    std::string lastName;
    double salary;
};
```

- ○ field
- ○ None of these
- ○ data member
- ○ instance variable
- ⦿ structure tag
- ○ type-id

Question 2   1 / 1 pts

Examine the following code (which ==is legal==). Which statement below is ***legal***?
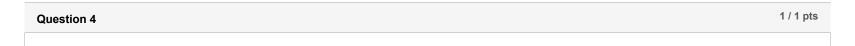
```
struct Money { int dollars{0}, cents{0}; } m1, m2;
```

- ○ m1 = {3, 4};
- ○ if (m1 != m2) . . .
- ○ cout << m1 << endl;
- ⦿ if (m1.dollars > m2.cents) …

Question 3   1 / 1 pts

Given the following structure and variable definitions, which data members are ***initialized***?

```
struct Employee
{
    long empID;
    std::string lastName;
    double salary;
    int age;
};

Employee bob;
```

- ○ empID
- ○ age
- ○ salary
- ○ None of these
- ⦿ lastName

Question 4   1 / 1 pts

Examine the following code (which <mark>is legal</mark>). Which statement is correct?

```
struct Rectangle { int length, width; };
```

- ○ Rectangle r = new Rectangle();
- ◉ Rectangle r;
- ○ r Rectangle;
- ○ None of these are correct
- ○ Rectangle r();

Question 5   1 / 1 pts

Given the following structure and variable definitions which statements *are legal*?

```
struct Money
{
    int dollars{0};
    int cents{1};
};
Money payment;
```

- ☐ payment{1} = 5;
- ☑ cout << payment.dollars;
- ☐ Money{1} = Money{0};
- ☐ cout << Money.dollars;
- ☑ payment.cents = 5;
- ☐ None of them

Question 6   1 / 1 pts

Given the following structure and variable definitions, which data members are *initialized*?

```
struct Employee
{
    long empID;
    std::string lastName;
    double salary;
    int age;
};

Employee bob{};
```

- ☐ None of these
- ☑ empID
- ☑ lastName
- ☑ age
- ☑ salary

Question 7   1 / 1 pts

Given the following structure and variable definitions, which data members are *default initialized*?

```
struct Employee
{
    long empID;
    std::string lastName;
    double salary;
    int age;
};

Employee bob{777, "Zimmerman", 5000000.0, 76};
```

- ◉ None of these
- ○ empID
- ○ lastName
- ○ age
- ○ salary

Question 8   0.5 / 0.5 pts

In C++, objects have **value semantics**; structure variables contain the data members.

◉ True

○ False

Question 9   0.5 / 0.5 pts

You may create a structure variable as part of a structure definition.

◉ True

○ False

Question 10   0.5 / 0.5 pts

Structures are **heterogeneous** data types.

◉ True

○ False

Question 11   0.5 / 0.5 pts

It is **illegal** to include the same `struct` definition multiple times, even if the definitions are exactly the same.

◉ True

○ False

Question 12   0.5 / 0.5 pts

The general Computer Science term for a collection of variables that have distinct names and types is a **structure**.

○ True

◉ False

Question 13   0.5 / 0.5 pts

The general, Computer Science term for a collection of variables that have distinct names and types is a **record**.

◉ True

○ False