

Take the Quiz Again

Attempt History

	Attempt	Time	Score
KEPT	<a href="#">Attempt 2</a>	12 minutes	9 out of 10
LATEST	<a href="#">Attempt 2</a>	12 minutes	9 out of 10
	<a href="#">Attempt 1</a>	9 minutes	7.5 out of 10

Correct answers are hidden.

Submitted Jul 21 at 9:02am



Question 1

1 / 1 pts

Examine the following definition. What is the syntax error?

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

- ☐ there is no syntax error
- ☐ use of std:: in front of the string definition.
- ☒ missing a semicolon after the structure definition
- ☐ data members cannot be different types

Question 2

1 / 1 pts

The following **is legal**. Which changes the length data member inside the variable big?

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

- ☐ Rectangle.length = 10;
- ☒ big.length = 10;
- ☐ big[0] = 10
- ☐ length = 10;
- ☐ None of these are correct
- ☐ big = {10};

Question 3

1 / 1 pts

The structure and variable definitions are fine. Which statements are legal?

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

- ☐ None of these are correct
- ☐ if (big == small) . . .
- ☐ if (big != small) . . .
- ☒ if (big.length == small.width) . . .
- ☐ if (big.length == width) . . .

Question 4

1 / 1 pts

Examine the following definition. Employee is formally known as the \_\_\_\_\_.

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

- ☐ data member
- ☒ structure tag



☐ field

☐ None of these

☐ type-id

☐ instance variable

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.cents = 5;

☐ cout << Money.dollars;

☒ cout << payment.dollars;

☐ payment{1} = 5;

☐ None of them

☐ Money{1} = Money{0};

Incorrect

Question 6

0 / 1 pts

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

```
struct Employee
{
    long empID{0};
    std::string lastName;
    double salary{0};
    int age = 0;
};

Employee bob;
```

☐ salary

☒ None of them (does not compile)

☐ age

☐ empID

☐ lastName

☐ None of them (compiles)

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};
```

☐ salary

☐ empID

☒ None of these

☐ age

☐ lastName

Question 8

0.5 / 0.5 pts

A structure member may be a variable of a different structure type.

☒ True

☐ False

Question 90.5 / 0.5 pts

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

☒ True

☐ False

Question 100.5 / 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 110.5 / 0.5 pts

The C++ specific term for a collection of variables that have distinct names and types is a *record*.

☐ True

☒ False

Question 120.5 / 0.5 pts

Structures data members must all be of the same type.

☐ True

☒ False

Question 130.5 / 0.5 pts

Structures data members may each have a different type.

☒ True

☐ False

