Quiz 02

Instructions

Answer the following questions.

This quiz is no longer available as the course has been concluded.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	6 minutes	5 out of 5

Score for this quiz: **5** out of 5 Submitted May 16 at 4:54pm This attempt took 6 minutes.

Question 1	1 / 1 pts

Consider the following definition of class **Circle**. class Circle { public: Circle(); Circle(double radius); void setRadius(double radius); double getRadius() const; private: double radius; **}**; This class has two constructors: Circle() and Circle(double radius). Which one of the choices completes the second constructor, given below: Circle::Circle(double radius) { } radius = r; return radius; radius = radius; this -> radius = radius; Since both the data field and input parameter are named the same (radius), you need to use "this" pointer to distinguish between them.

Correct!

1 / 1 pts **Question 2** Consider the following definition of class Circle as the previous question. class Circle { public: Circle(); Circle(double radius); void setRadius(double radius); double getRadius() const; private: double radius; **}**; How can you invoke the second constructor in function main() to create object myCircle with radius 3.9? Circle(3.9) myCircle; myCircle(3.9); Oircle myCircle(3.9); Correct syntax. Circle myCircle = setRadius(3.9);

Question 3 1 / 1 pts

Correct!

Correct!

Class Circles is defined below, which includes a private vector of Circle objects called circleVector. class Circles { public: void readCircles(); void printCircles() const; private: **}**; What would be correct way to fill out the missing part? vector<Circles> circleVector; vector circleVector; Circles circleVector; vector<Circle> circleVector; A vector of circles is vector<Circle>.

Question 4 1/1 pts

In class **Circles** defined in the previous question, **readCircles()** and **printCircles()** functions are defined as follows.

```
void Circles::readCircles(){
  double r;
  cout<<"Reading circle radiuses."<<endl<<"Input radius: ";
  cin>>r;
  while (r != 0.0) {
     Circle circle(r);
     cout<<"Input radius: ";
     cin>>r;
  }
}
void Circles::printCircles() const {
  Circle circle;
  for (int i = 0;
                                       i++) {
     circle =
     cout<<"Circle with radius "<<circle.getRadius()<<endl;</pre>
  }
```

What would be the correct way to fill out the missing parts?

```
Blue box: circleVector.push_back(circle);

Green box: i < circleVector.length();

Orange box: circleVector[i];
```

```
Blue box: circleVector.add(circle);

Green box: i < circleVector.length();

Orange box: circleVector[i];
```

Correct!

Blue box: circleVector.push_back(circle);
Green box: i < circleVector.size();
Orange box: circleVector.at(i);

Blue box: circleVector.add(circle);
Green box: i < circleVector.size();
Orange box: circleVector.at(i);

Question 5 1 / 1 pts

Consider class **Circle** and class **Circles**, as defined in the previous questions.

Let **circle.h** be the header file containing the **Circle** class definition including its data members and function signatures.

Let **circle.cpp** be the source file containing the definition of **Circle's** member functions.

Let **circles.h** be the header file containing the **Circles** class definition including its data member and function signatures.

Let **circles.cpp** be the source file containing the definition of **Circles'** member functions.

Which files must be included in the definition of these files?

	In circle.h: #include "circle.cpp" In circles.cpp: #include "circles.h"
	In circle.h: #include "circle.cpp" In circles.h: #include "circles.cpp" and #include "circle.h"
Correct!	In circles.h: #include "circle.h" In circle.cpp: #include "circle.h" In circles.cpp: #include "circles.h"
	In circle.cpp: #include "circle.h" In circles.h: #include "circles.cpp" In circle.h: #include "circles.h"

Quiz Score: 5 out of 5