

CS 251

Intermediate Programming

Quiz 3

Brooke Chenoweth

University of New Mexico

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Question 1: Data types

If you wanted to store π in a data type, which of these would be best?

- A int
- B float
- C char
- D long

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B float

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Question 2: Modifiers

Which modifier goes before a variable when you want the entire class to share only one copy?

- A package
- B class
- C static
- D void

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B class

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Question 3: Protected

A `protected` variable or method is visible to:

- A only the class in which it is declared.
- B the class in which it is declared and any parent classes of that class.
- C the class in which it is declared and any classes that extend that class.
- D only classes in the same package as the class in which it is declared.

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- D only classes in the same package as the class in which it is declared.

Question 4: Interface

Which class implements the interface?

```
public interface MyInterface {  
    void doSomething(int i, double x);  
    int doSomethingElse(String s);  
}
```

A

```
public class MyClass implements MyInterface {  
    public int doSomething(int i, double x) {  
        return 0;  
    }  
    public void doSomethingElse(String s) {  
    }  
}
```

Question 4: Interface

Which class implements the interface?

```
public interface MyInterface {  
    void doSomething(int i, double x);  
    int doSomethingElse(String s);  
}
```

A The method signatures don't match.

```
public class MyClass implements MyInterface {  
    public int doSomething(int i, double x) {  
        return 0;  
    }  
    public void doSomethingElse(String s) {  
    }  
}
```

Question 4: Interface

Which class implements the interface?

```
public interface MyInterface {  
    void doSomething(int i, double x);  
    int doSomethingElse(String s);  
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B

```
public class MyClass {  
    public void doSomething(int i, double x) {  
    }  
    public int doSomethingElse(String s) {  
        return 0;  
    }  
}
```

Question 4: Interface

Which class implements the interface?

```
public interface MyInterface {  
    void doSomething(int i, double x);  
    int doSomethingElse(String s);  
}
```

B Not using implements

```
public class MyClass {  
    public void doSomething(int i, double x) {  
    }  
    public int doSomethingElse(String s) {  
        return 0;  
    }  
}
```

Question 4: Interface

Which class implements the interface?

```
public interface MyInterface {  
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C

```
public class MyClass implements MyInterface {  
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```

Question 4: Interface

Which class implements the interface?

```
public interface MyInterface {  
    void doSomething(int i, double x);  
    int doSomethingElse(String s);  
}
```

C Correct!

```
public class MyClass implements MyInterface {  
    public void doSomething(int i, double x) {  
    }  
    public int doSomethingElse(String s) {  
        return 0;  
    }  
}
```

Question 4: Interface

Which class implements the interface?

```
public interface MyInterface {  
    void doSomething(int i, double x);  
    int doSomethingElse(String s);  
}
```

D

```
public class MyClass extends MyInterface {  
    public void doSomething(int i, double x) {  
    }  
    public int doSomethingElse(String s) {  
        return 0;  
    }  
}
```

Question 4: Interface

Which class implements the interface?

```
public interface MyInterface {  
    void doSomething(int i, double x);  
    int doSomethingElse(String s);  
}
```

D Using `extends` instead of `implements`

```
public class MyClass extends MyInterface {  
    public void doSomething(int i, double x) {  
    }  
    public int doSomethingElse(String s) {  
        return 0;  
    }  
}
```