Kent Kraus Courses@CS CS Department csX Lab Faculty Office Hours Course Archives Home ► My courses ► Spring 2018 ► CS6312 [S18] [N] ► Inheritance (Ch 11) ► Q02 Started on Sunday, January 28, 2018, 11:47 AM





```
    c. The program has a compilation error, because m is overridden with a different signature in B.

                           d. The program has a runtime error on b.i, because i is not accessible from b.
Question 6
                     Superclasses contain more features than their subclasses.
Correct
                     Select one:
1.00 points out of
                           a. false 🗸
1.00
                           b. true
Flag question
Question 7
                     Which of the following statements are true?
```

Correct

1.00 points out of

1.00 points out of

Flag question

1.00

Select one or more:

a. true 🗸

b. false

```
a. A private method cannot be overridden. If a method defined in a subclass is private in its superclass, the
1.00
                        two methods are completely unrelated. <
Flag question
                          b. Overloading a method is to provide more than one method with the same name but with different
                        signatures to distinguish them. <

    c. A static method cannot be overridden. If a static method defined in the superclass is redefined in a

                        subclass, the method defined in the superclass is hidden. <

 d. It is a compilation error if two methods differ only in return type in the same class.

                           e. To override a method, the method must be defined in the subclass using the same signature and
                        compatible return type as in its superclass. <
Question 8
                    If a data field is declared in the superclass, you may hide it by redeclaring it in the subclass.
Correct
                    Select one:
```

```
Question 9
                     Analyze the following code:
Incorrect
                     public class Test extends A {
0.00 points out of
                       public static void main(String[] args) {
1.00
                        Test t = new Test();
                         t.print();
Flag question
                     class A {
                      String s;
                      A(Strings) {
                         this.s = s;
                       public void print() {
                         System.out.println(s);
                     Select one or more:

 a. The program does not compile because Test does not have a default constructor Test().

                           b. The program has an implicit default constructor Test(), but it cannot be compiled, because its super class
                         does not have a default constructor. The program would compile if the constructor in the class A were
                         removed.
                           c. The program compiles, but it has a runtime error due to the conflict on the method name print.
                           d. The program would compile if a default constructor A(){} is added to class A explicitly.
```

```
Question 10
                    Suppose you create a class Square to be a subclass of GeometricObject. Analyze the following code:
Correct
                    class Square extends GeometricObject {
1.00 points out of
                      double length;
1.00
                      Square(double length) {
Flag question
                        GeometricObject(length);
                    Select one:

    a. The program has a compile error because you attempted to invoke the GeometricObject class's

                        constructor illegally. <
                          b. The program compiles fine, but you cannot create an instance of Square because the constructor does
                        not specify the length of the Square.

    c. The program compiles fine, but it has a runtime error because of invoking the Square class's constructor

                                                                                                                               Finish review
```