Fall 2025-2026 CSSE 220

CSSE 220 – Object-Oriented Software Development Rose-Hulman Institute of Technology

Worksheet 16

Name (Print):		Section:	
1. Place access modified	fiers from most restrictive	to least restrictive:	
2)	: available to any : can only be accessed : can be accessed	other class in the same package essed within the declared class it only by the subclasses in other from any other class (=everywhere)	self packages or any
2) 3)	: anywhere in the : anywhere in the : within the meth : within the block	class od only	
1) cannot be insta 2) can provide bot	e not allowed word implements		
	he ability for the same med	thod call to behave	depending

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```
interface Top {
    public void alpha();
    public void beta();
    public void gamma();
    public void delta();
    // Note no epsilon here
}
```

```
class One implements Top {
    public void alpha() {
        System.out.println("A");
    }

    public void beta() {
        System.out.println("B");
    }

    public void gamma() {
        System.out.println("C");
    }

    public void delta() {
        System.out.println("D");
        this.beta();
    }
}
```

```
class Two extends One
    implements Top {

    public void beta() {
        System.out.println("E");
    }

    public void gamma() {
        super.gamma();
        System.out.println("F");
    }

    public void epsilon() {
        System.out.println("G");
    }
}
```

7.

```
Two m = new Two();
Top q = new One();
Top r = new Two();
One s = new Two();
```

```
Code
             Output Choices (circle one in each problem)
                                                            runtime compile
m.alpha();
              A B C D E F G BE CF DB DE EB FC output error
                                                        no
                                                            runtime
                                                                  compile
m.gamma();
              A B C D E F G BE CF DB DE EB FC output
                                                            error
                                                                   error
                                                            runtime compile
m.omega();
              A B C D E F G BE CF DB DE EB FC output error
                                                                  compile
                                                            runtime
q.alpha();
              A B C D E F G BE CF DB DE EB FC output
                                                            error
                                                            runtime compile
              A B C D E F G BE CF DB DE EB FC output error
r.beta();
                                                                   error
                                                        no
                                                            runtime compile
r.epsilon(); A B C D E F G BE CF DB DE EB FC output
                                                            error
                                                                   error
                                                            runtime compile
s.beta();
              A B C D E F G BE CF DB DE EB FC output error
```

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