

SELF TEST

The following questions will help you measure your understanding of the material presented in this chapter. Read all of the choices carefully, as there may be more than one correct answer. Choose all correct answers for each question. Stay focused.

If you have a rough time with these at first, don't beat yourself up. Be positive. Repeat nice affirmations to yourself like, "I am smart enough to understand enums" and "OK, so that other guy knows enums better than I do, but I bet he can't <insert something you *are* good at> like me."

1. Which is true? (Choose all that apply.)
 - A. "X extends Y" is correct if and only if X is a class and Y is an interface
 - B. "X extends Y" is correct if and only if X is an interface and Y is a class
 - C. "X extends Y" is correct if X and Y are either both classes or both interfaces
 - D. "X extends Y" is correct for all combinations of X and Y being classes and/or interfaces

2. Which method names follow the JavaBeans standard? (Choose all that apply.)
 - A. addSize
 - B. getCust
 - C. deleteRep
 - D. isColorado
 - E. putDimensions

3. Given:


```

1. class Voop {
2.     public static void main(String [] args) {
3.         doStuff(1);
4.         doStuff(1,2);
5.     }
6.     // insert code here
7. }
```

Which, inserted independently at line 6, will compile? (Choose all that apply.)

- A. `static void doStuff(int... doArgs) { }`
- B. `static void doStuff(int[] doArgs) { }`
- C. `static void doStuff(int doArgs...) { }`
- D. `static void doStuff(int... doArgs, int y) { }`
- E. `static void doStuff(int x, int... doArgs) { }`

4. Given:

```

1. enum Animals {
2.     DOG("woof"), CAT("meow"), FISH("burble");
3.     String sound;
4.     Animals(String s) { sound = s; }
5. }
6. class TestEnum {
7.     static Animals a;
8.     public static void main(String[] args) {
9.         System.out.println(a.DOG.sound + " " + a.FISH.sound);
10.    }
11. }

```

What is the result?

- A. woof burble
- B. Multiple compilation errors
- C. Compilation fails due to an error on line 2
- D. Compilation fails due to an error on line 3
- E. Compilation fails due to an error on line 4
- F. Compilation fails due to an error on line 9

5. Given two files:

```

1. package pkgA;
2. public class Foo {
3.     int a = 5;
4.     protected int b = 6;
5.     public int c = 7;
6. }

3. package pkgB;
4. import pkgA.*;
5. public class Baz {
6.     public static void main(String[] args) {
7.         Foo f = new Foo();
8.         System.out.print(" " + f.a);
9.         System.out.print(" " + f.b);
10.        System.out.println(" " + f.c);
11.    }
12. }

```

What is the result? (Choose all that apply.)

- A. 5 6 7
- B. 5 followed by an exception
- C. Compilation fails with an error on line 7
- D. Compilation fails with an error on line 8
- E. Compilation fails with an error on line 9
- F. Compilation fails with an error on line 10

6. Given:

```
1. public class Electronic implements Device
    { public void doIt() { } }
2.
3. abstract class Phone1 extends Electronic { }
4.
5. abstract class Phone2 extends Electronic
    { public void doIt(int x) { } }
6.
7. class Phone3 extends Electronic implements Device
    { public void doStuff() { } }
8.
9. interface Device { public void doIt(); }
```

What is the result? (Choose all that apply.)

- A. Compilation succeeds
- B. Compilation fails with an error on line 1
- C. Compilation fails with an error on line 3
- D. Compilation fails with an error on line 5
- E. Compilation fails with an error on line 7
- F. Compilation fails with an error on line 9

7. Given:

```
4. class Announce {
5.     public static void main(String[] args) {
6.         for(int __x = 0; __x < 3; __x++) ;
7.         int #1b = 7;
```

```
8.      long [] x [5];
9.      Boolean [][]ba[];
10.     enum Traffic { RED, YELLOW, GREEN };
11.     }
12. }
```

What is the result? (Choose all that apply.)

- A. Compilation succeeds
- B. Compilation fails with an error on line 6
- C. Compilation fails with an error on line 7
- D. Compilation fails with an error on line 8
- E. Compilation fails with an error on line 9
- F. Compilation fails with an error on line 10

8. Given:

```
3. public class TestDays {
4.     public enum Days { MON, TUE, WED };
5.     public static void main(String[] args) {
6.         for(Days d : Days.values() )
7.             ;
8.         Days [] d2 = Days.values();
9.         System.out.println(d2[2]);
10.    }
11. }
```

What is the result? (Choose all that apply.)

- A. TUE
- B. WED
- C. The output is unpredictable
- D. Compilation fails due to an error on line 4
- E. Compilation fails due to an error on line 6
- F. Compilation fails due to an error on line 8
- G. Compilation fails due to an error on line 9

9. Given:

```
4. public class Frodo extends Hobbit {  
5.     public static void main(String[] args) {  
6.         Short myGold = 7;  
7.         System.out.println(countGold(myGold, 6));  
8.     }  
9. }  
10. class Hobbit {  
11.     int countGold(int x, int y) { return x + y; }  
12. }
```

What is the result?

- A. 13
- B. Compilation fails due to multiple errors
- C. Compilation fails due to an error on line 6
- D. Compilation fails due to an error on line 7
- E. Compilation fails due to an error on line 11