

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

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

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

1 - C

2 - A, E

3 - A

4 - D, E

5 - A

6 - B

7 - D