# 書名: SCJP 6.0 認證教戰手冊 作者: 黃彬華

## 完全擬真試題 101-200 (共 244 題)

```
第101題
Given:
  10. package com.sun.scjp;
  11. public class Geodetics {
          public static final double DIAMETER = 12756.32; //kilometers
  13.
Which two correctly access the DIAMETER member of the Geodetics class? (Choose two.)
A. import com.sun.scjp.Geodetics;
    public class TerraCarta{
    public double halfway()
    {return Geodetics.DIAMETER/2.0;}
B. import static com.sun.scjp.Geodetics;
    public class TerraCarta{
    public double halfway(){return DIAMETER/2.0;}}
    import static com.sun.scjp.Geodetics.*;
    public class TerraCarta{
    public double halfway(){return DIAMETER/2.0;}}
D. package com.sun.scjp;
    public class TerraCarta{
    public double halfway(){return DIAMETER/2.0;}}
答案:AC
參考:8-2 方法種類與呼叫方式
第102題
Given:
  10. interface Foo(int bar();)
  11. public class Sprite{
  12.
          public int fubar(Foo foo){return foo.bar();}
  13.
          public void testFoo(){
  14.
             fubar(
  15.
             //insert code here
  16.
             );
  17.
          }
  18.
Which code, inserted at line 15, allows the class Sprite to compile?
A. Foo{public int bar(){return 1;}}
B. new Foo{public int bar(){return 1;}}
C. new Foo(){public int bar(){return 1;}}
```

```
D. new class Foo{public int bar(){return 1;}}
答案:C
參考:8-5 內部類別
第103題
Given:
   11. public enum Title{
          MR("Mr."), MRS("Mrs."), MS("Ms.");
   13.
          private final String title;
   14.
          private Title(String t){title = t;}
   15.
          public String format(String last, String first){
   16.
             return title + " " + first + " " + last;
   17.
          }
   18. }
   19. public static void main(String[] args){
          System.out.println(Title.MR.format("Doe", "John"));
   21. }
What is the result?
A. Mr. John Doe
B. An exception is thrown at runtime.
C. Compilation fails because of an error in line 12.
D. Compilation fails because of an error in line 15.
E. Compilation fails because of an error in line 20.
答案:A
參考: 8-6 Java 列舉類型
第104題
Given:
   10. class Line{
          public static class Point{}
   11.
   12. }
   13.
   14. class Triangle{
   15.
         //insert code here
   16. }
Which code, inserted at line 15, creates an instance of the Point class defined in Line?
A. Point p = new Point();
B. Line.Point p = new Line.Point();
C. The Point class cannot be instatiated at line 15.
D. Line 1 = new Line(); 1.Point p = new 1.Point();
答案:B
參考:8-5 內部類別
```

## 第105題

```
Given:
   1. public class A {
   2.
   3.
          private int counter = 0;
   4
         public static int getInstanceCount(){
   5.
   6.
            return counter;
   7.
          }
   8.
   9.
          public A(){
   10.
            counter++;
   11.
          }
   12.
   13. }
```

And given this code from Class B:

- 25. A a1 = new A();
- 26. A a2 = new A();
- 27. A a3 = new A();
- 28. System.out.println(A.getInstanceCount());

What is the result?

- A. Compilation of class A fails.
- B. Line 28 prints the value 3 to System.out.
- C. Line 28 prints the value 1 to System.out.
- D. A runtime error occurs when line 25 executes.
- E. Compilation fails because of an error on line 28.

答案:A

參考:8-2 方法種類與呼叫方式

package util;

## 第106題

Given classes defined in two different files:

```
2.
     public class BitUtils{
3.
        public static void process(byte[] b){/* more code here */}
4.
     }
1.
     package app;
2.
     public class SomeApp{
        public static void main(String[] args){
3.
4.
          byte[] bytes = new byte[256];
5.
          //insert code here
6.
        }
```

What is required at line 5 in class SomeApp to use the process method of BitUtils?

A. process(bytes);

7. }

- B. BitUtils.process(bytes);
- C. util.BitUtils.process(bytes);

```
D. SomeApp cannot use methods in BitUtils.
E. import util.BitUtils.*; process(bytes);
答案:C
參考: 7-1 Java 套件、8-3 類別成員的匯入
第107題
Given:
   10. class Inner{
   11.
          private int x;
   12.
          public void setX(int x)\{this.x = x;\}
   13.
          public int getX(){return x;}
   14. }
   15.
   16. class Outer{
   17.
          private Inner y;
   18.
          public void setY(Inner y){this.y = y;}
   19
           public Inner getY(){return y;}
   20. }
   21.
   22. public class Gamma{
   23.
          public static void main(String[] args){
   24.
             Outer o = new Outer();
   25.
             Inner i = new Inner();
   26.
             int n = 10;
   27.
             i.setX(n);
   28.
             o.setY(i);
   29.
             //insert code here
   30.
             System.out.println(o.getY().getX());
   31.
          }
Which three code fragments, added individually at line 29, produce the output 100? (Choose three.)
A. n = 100;
B. i.setX(100);
C. o.getY().setX(100);
D. i = new Inner(); i.setX(100);
E. o.setY(i); i = new Inner(); i.setX(100);
F. i = new Inner(); i.setX(100); o.setY(i);
答案: BCF
參考:7-4 封裝、8-1 變數種類與其生命期
第108題
Given:
   11. class Snoochy {
          Boochy booch;
   13.
          public Snoochy(){booch = new Boochy(this);}
   14 }
```

```
15.
   16. class Boochy{
   17.
          Snoochy snooch;
   18.
          public Boochy(Snoochy s){snooch = s;}
   19. }
   And the statements.
   21. public static void main(String[] args){
          Snoochy snoog = new Snoochy();
   23.
          snoog = null;
   24.
          //more code here
   25. }
Which statement is true about the objects referenced by snoog, snooch, and booch immediately after line 23
executes?
A. None of these objects are eligible for garbage collection.
B. Only the object referenced by booth is eligible for garbage collection.
C. Only the object referenced by snoog is eligible for garbage collection.
D. Only the object referenced by snooch is eligible for garbage collection.
E. The objects referenced by snooch and booth are eligible for garbage collection.
答案:E
參考:8-7 資源回收機制
第109題
Given:
   5.
        class Payload{
   6.
          private int weight;
   7.
          public Payload (int w){weight = w;}
   8.
          public void setWeight(int w){weight = w;}
   9.
           public String toString(){return Integer.toString(weight);}
   10. }
   11. public class TestPayload{
          static void changePayload(Payload p){/* insert code */}
   12.
   13.
          public static void main(String[] args){
   14.
             Payload p = new Payload(200);
   15.
             p.setWeight(1024);
   16.
             changePayload(p);
   17.
             System.out.println("p is " + p);
   18. }}
Which code fragment, inserted at the end of line 12, produces the output p is 420?
A. p.setWeight(420);
B. p.changePayload(420);
C. p = new Payload(420);
D. Payload.setWeight(420);
E. p = Payload.setWeight(420);
```

參考:8-2 方法種類與呼叫方式

答案:A

```
第110題
Given:
   11. public static void test(Sting str){
   12.
           int check = 4;
   13.
           if(check = str.length()){
   14.
             System.out.print(str.charAt(check -= 1) + ", ");
   15.
           }else{
   16.
             System.out.print(str.charAt(O) + ", ");
   17.
           }
   18. }
and the invocation:
   21. test("four");
   22. test("tee");
   23. test("to");
What is the result?
A. r, t, t,
B. r, e, o,
C. Compilation fails.
D. An exception is thrown at runtime.
答案:C
參考: 4-1 條件控制、8-2 方法種類與呼叫方式
第111題
Given:
   15. public class Pass2{
   16.
           public void static main(String[] args){
   17.
             int x = 6;
   18.
             Pass2 p = new Pass2();
   19.
             p.doStuff(x);
   20.
             System.out.print(" main x = " + x);
   21.
           }
   22.
   23.
           void doStuff(int x){
   24.
             System.out.print(" doStuff x = " + x++);
   25.
           }
   26. }
And the command-line invocations:
javac Pass2. java
java Pass2 5
What is the result?
A. Compilation fails.
B. An exception is thrown at runtime.
C. doStuff x = 6 main x = 6
```

D. doStuff x = 6 main x = 7

```
E. doStuff x = 7 main x = 6
F. doStuff x = 7 main x = 7
答案:C
參考: 4-1 條件控制、8-2 方法種類與呼叫方式
第112題
Given:
   12. public class Test{
   13.
          public enum Dogs{collie, harrier);
   14.
          public static void main(String[] args){
   15.
            Dogs myDog = Dogs.collie;
   16.
            switch(myDog){
   17.
               case collie:
   18.
                 System.out.print("collie ");
   19.
               case harrier:
   20.
                 System.out.print("harrier");
  21.
            }
   22.
          }
   23. }
What is the result?
A. collie
B. harrier
C. Compilation fails.
D. collie harrier
E. An exception is thrown at runtime.
答案:D
參考: 4-1 條件控制、8-6 Java 列舉類型
第113題
Given:
   10. public class Foo{
   11.
          static int[] a;
   12.
          static{ a[0] = 2;}
   13.
          public static void main( String[] args){}
   14. }
Which exception or error will be thrown when a programmer attempts to run this code?
A. java.lang.StackOverflowError
B. java.lang.IllegalStateException
C. java.lang.ExceptionInInitializerError
D. java.lang.ArrayIndexOutOfBoundsException
答案:C
```

參考:8-1 變數種類與其生命期、9-1 執行上的錯誤

```
第114題
Given:
   10. class line{
   11.
          public class Point{public int x, y;}
   12.
          public Point getPoint(){return new Point();}
   13.
       }
   14. class Triangle{
   15.
          public Triangle(){
             //insert code here
   16.
  17.
          }
   18. }
Which code, inserted at line 16, correctly retrieves a local instance of a Point object?
A. Point p = Line.getPoint();
B. Line.Point p = Line.getPoint();
C. Point p = (new Line()).getPoint();
D. Line.Point p = (new Line()).getPoint();
答案:D
參考:8-5 內部類別
第115題
Given:
   11. public static void main(String[] args){
          for(int i = 0; i \le 10; i++){
   13.
             if(i > 6) break;
   14.
   15.
          System.out.println(i);
   16. }
What is the result?
A. 6
B. 7
C. 10
D. 11
E. Compilation fails.
F. An exception is thrown at runtime.
答案:E
參考:8-1 變數種類與其生命期
第116題
Given:
   11. public class Commander{
   12.
          public static void main(String[] args){
   13.
             String myProp = /* insert code here */
   14.
             System.out.println(myProp);
```

15.

}

```
16. }
```

and the command line:

java -Dprop.custom=gobstopper Commander

Which two, placed on line 13, will produce the output gobstopper? (Choose two.)

- A. System.load("prop.custom");
- B. System.getenv("prop.custom");
- C. System.property("prop.custom);
- D. System.getProperty("prop.custom");
- E. System.getProperties().getProperty("prop.custom");

答案:DE

參考: 8-4 main()方法的參數傳遞與系統屬性設定

### 第117題

```
Given:
```

- 11. class Converter{
- 12. public static void main(String[] args){
- 13. Integer i = args[0];
- 14. int j = 12;
- 15. System.out.println("It is " + (j==i) + " that j==i.");
- 16. }
- 17. }

What is the result when the programmer attempts to compile the code and run it with the command java Converter 12?

- A. It is true that j==i.
- B. It is false that j==i.
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error in line 13.

答案:D

參考: 8-4 main()方法的參數傳遞與系統屬性設定

## 第118題

### Given

- 10. class Foo{
- 11. static void alpha(){/\* more code here \*/}
- 12. void beta() {/\* more code here \*/)
- 13. }

Which two statements are true? (Choose two.)

- A. Foo.beta() is a valid invocation of beta().
- B. Foo.alpha() is a valid invocation of alpha().
- C. Method beta() can directly call method alpha().
- D. Method alpha() can directly call method beta().

答案:BC

## 參考:8-2 方法種類與呼叫方式

```
第119題
Given:
  11. public static void main(String[] args){
   12.
          String str = "null";
   13.
          if (str == null) {
   14.
             System.out.println("null");
   15.
          ext{length}() == 0) {
   16.
             System.outprintln("zero");
   17.
          }else{
   18.
             System.out.println("some");
   19.
          }
  20. }
What is the result?
A. null
B. zero
C. some
D. Compilation fails.
E. An exception is thrown at runtime.
答案:D
參考:4-1 條件控制、11-2 文字類型
第120題
Given:
   1. public class GC{
   2.
         private Object o;
   3.
         private void doSomethingElse(Object obj){o = obj;}
   4.
         public void doSomething(){
   5.
           Object o = new Object();
  6.
           doSomethingElse(o);
```

When the doSomething method is called, after which line does the Object created in line 5 become available for garbage collection?

```
A. Line 5
```

7.

8.

9.

10.

11. }

}

o = new Object();

o = null;

doSomethingElse(null);

- B. Line 6
- C. Line 7
- D. Line 8
- E. Line 9
- F. Line 10

```
答案:D
參考:8-7 資源回收機制
第121題
Given:
   11. public class Test{
   12.
          public enum Dogs {collie, harrier, shepherd},
   13.
          public static void main(String[] args){
   14.
             Dogs myDog = Dogs.shepherd;
   15.
             switch(myDog){
               case collie:
   16.
                  System.out.print("collie ");
   17.
   18.
               case default:
   19.
                  System.out.print("retriever"),
   20.
               case harrier:
   21.
                  System.out.print("harrier");
   22.
             }
  23.
          }
   24. }
What is the result?
A. harrier
B. shepherd
C. retriever
D. Compilation fails
E. retriever harrier
F. An exception is thrown at runtime,
答案:D
參考: 4-1 條件控制、8-6 Java 列舉類型
第122題
Given:
   11. public void genNumbers(){
   12.
          ArrayList numbers = new ArrayList();
   13.
          for(int i=0; i<10; i++){
   14.
             int value = i * ((int)Math.random());
   15.
             Integer intObj = new Integer(value);
   16.
             numbers.add(intObj);
   17.
   18.
          System.out.println(numbers);
Which line of code marks the earliest point that an object referenced by intObj becomes a candidate for
garbage collection?
A. Line 16
B. Line 17
C. Line 18
```

```
D. Line 19
E. The object is NOT a candidate for garbage collection.
答案:D
參考:8-7 資源回收機制
第123題
Given:
   11. public static void parse(String str){
   12.
          try{
   13.
             float f = Float.parseFloat(str);
   14.
          }catch(NumberFormatException nfe){
   15.
            f = 0;
   16.
          }finally{
   17.
             System.out.println(f);
   18.
          }
   19.
   20. public static void main(String[] args) {
   21.
          parse("invalid");
   22.
What is the result?
A. 0.0
B. Compilation fails.
C. A ParseException is thrown by the parse method at runtime.
D. A NumberFormatException is thrown by the parse method at runtime.
答案:B
參考: 8-1 變數種類與其生命期、9-2 Java 例外事件與處理機制
第124題
Given:
   11. static void test() throws RuntimeException{
   12.
   13.
             System.out.print("test ");
   14.
             throw new RuntimeException();
   15.
          }
   16.
          catch(Exception ex){ System.out.print("exception ");}
   17. }
   18. public static void main(String[] args){
   19.
          try{test();}
   20.
          catch(RuntimeException ex){System.out.print("runtime ");}
   21.
          System.out.print("end ");
   22. }
What is the result?
A. test end
B. Compilation fails.
C. test runtime end
```

- D. test exception end
- E. A Throwable is thrown by main at runtime.

答案:D

參考: 9-2 Java 例外事件與處理機制

## 第125題

### Given:

- 33. try{
- 34. //some code here
- 35. }catch(NullPointerException el){
- 36. System.out.print("a");
- 37. }catch(Exception e2){
- 38. System.out.print("b");
- 39. }finally{
- 40. System.out.print("c");
- 41.

If some sort of exception is thrown at line 34, which output is possible?

- A. a
- B. b
- C. c
- D. ac
- E. abc

答案:D

參考: 9-2 Java 例外事件與處理機制

## 第126題

## Given:

- 31. //some code here
- 32. try{
- 33. //some code here
- 34. }catch(Some Exception se) {
- 35. //some code here
- 36. }finally{
- 37. //some code here
- 38. }

Under which three circumstances will the code on line 37 be executed? (Choose three.)

- A. The instance gets garbage collected.
- B. The code on line 33 throws an exception.
- C. The code on line 35 throws an exception.
- D. The code on line 31 throws an exception.
- E. The code on line 33 executes successfully

答案:BCE

參考: 9-2 Java 例外事件與處理機制

## 第127題

```
Given:
```

```
    public class Donkey2{
    public static void main(Stnng[] args){
    boolean assertsOn = true;
    assert(assertsOn): assertsOn = true;
    if(assertsOn){
    System.out.println("assert is on");
    }
    }
```

If class Donkey2 is invoked twice, the first time without assertions enabled, and the second time with assertions enabled, what are the results?

- A. no output
- B. no output assert is on
- C. assert is on
- D. no output

An Assertion Error is thrown.

E. assert is on

An AssertionError is thrown.

答案:C

參考: 9-7 測試程式與 AssertionError 錯誤事件

## 第128題

## Given:

```
1. public class A{
2.
      public void Method1(){
3.
         try{
           B b = new B();
4.
5.
           b.Method2();
6.
           //more code here
7.
         }catch(TestException te){
8.
            throw new RuntimeException(te);
9.
10.
      }
11. }
1. public class B{
      public void method2() throws TestException{
3.
         //more code here
4.
      }
5. }
1. public class TestException extends Exception{
```

```
And given:
   31. public void method(){
           A a = new A();
   33.
           a.method1();
   34. }
Which statement is true if a TestException is thrown on line 3 of class B?
```

- A. Line 33 must be called within a try block.
- B. The exception thrown by method 1 in class A is not required to be caught.
- C. The method declared on line 31 must be declared to throw a RuntimeException.
- D. On line 5 of class A, the call to method2 of class B does not need to be placed in a try/catch block.

## 答案:B

參考: 9-2 Java 例外事件與處理機制、9-3 使用 throw 自行產生例外事件、9-4 自訂例外類別、9-5 使用 throws 抛出例外事件、9-6 RuntimeException 與 CheckedException。

## 第129題

```
Given:
```

```
11. Float pi = new Float(3.14f);
12. if(pi > 3){
        System.out.print("pi is bigger than 3. ");
13.
14. }
15. else{
16.
      System.out.print("pi is not bigger than 3. ");
17. }
18. finally{
19.
      System.out.println("Have a nice day ");
20. }
```

What is the result?

- A. Compilation fails.
- B. pi is bigger than 3.
- C. An exception occurs at runtime.
- D. pi is bigger than 3. Have a nice day.
- E. pi is not bigger than 3. Have a nice day.

答案:A

參考: 9-2 Java 例外事件與處理機制

## 第130題

```
Given:
```

```
11. static void test(){
12.
        try{
13.
           String x = null;
           System.out.print(x.toString() + " ");
14.
15.
16.
        finally{System.out.print("finally ");}
17. }
```

```
18. public static void main(String[] args){
  19.
          try{test();}
  20.
          catch(Exception ex){System.out.print("exception ");}
  21. }
What is the result?
A. null
B. finally
C. null finally
D. Compilation fails.
E. finally exception
答案:E
參考: 9-2 Java 例外事件與處理機制
第131題
Given:
  11. static void test() throws Error{
  12.
          if(true) throw new AssertionError();
  13.
            System.out.print("test ");
  14. }
  15. public static void main(String[] args){
  16.
          try{test();}
  17.
          catch(Exception ex){System.out.print("exception ");}
  18.
          System.out.print("end ");
  19. }
What is the result?
A. end
B. Compilation fails.
C. exception end
D. exception test end
E. A Throwable is thrown by main.
F. An Exception is thrown by main.
答案:E
參考: 9-2 Java 例外事件與處理機制
第132題
Given:
  1. class TestException extends Exception{}
  2.
      class A{
         public String sayHello(String name) throws TestException{
  3.
  4.
           if(name == null) throw new TestException(),
  5.
              return "Hello" + name;
  6.
         }
  7.
  8. public class TestA{
```

```
9. public static void main(String[] args){10. new A().sayHello("Aiko");11. }12. }
```

Which statement is true?

- A. Compilation succeeds.
- B. class A does not compile.
- C. The method declared on line 9 cannot be modified to throw TestException.
- D. TestA compiles if line 10 is enclosed in try/catch block that catches TestException.

## 答案:D

參考: 9-2 Java 例外事件與處理機制、9-3 使用 throw 自行產生例外事件、9-4 自訂例外類別、9-5 使用 throws 拋出例外事件。

## 第133題

```
Given:
   10. public class ClassA{
           public void methodA(){
   11.
   12.
             ClassB classB = new ClassB();
   13.
             classB.getValue();
   14.
           }
   15. }
   And:
   20. class ClassB{
   21.
           public ClassC classC;
   22.
   23.
           public String getValue(){
   24.
             return classC.getValue();
   25.
           }
   26. }
   And:
   30. class ClassC{
   31.
           public String value;
   32.
   33.
           public String getValue(){
   34.
             value = "ClassB";
   35.
             return value;
   36.
           }
   37. }
And given:
   ClassA = new ClassA();
   a.methodA();
What is the result?
```

- A. Compilation fails.
- B. ClassC is displayed.
- C. The code runs with no output.
- c. The code runs with no output.
- D. An exception is thrown at runtime.

```
答案:D
參考: 9-2 Java 例外事件與處理機制
第134題
Given:
  5.
       classA{
          void foo() throws Exception(throw new Exception();}
  6.
  7.
  8.
       class SubB2 extends A{
  9.
          void foo(){System.out.println("B");}
  10. }
  11. class Tester{
          public static void main(String[] args){
  12.
  13.
            A a = \text{new SubB2}();
  14.
            a.foo();
  15.
          }
  16.
      }
What is the result?
A. B
B. B, followed by an Exception.
C. Compilation fails due to an error on line 9.
D. Compilation fails due to an error on line 14.
E. An Exception is thrown with no other output.
答案:D
參考: 9-3 使用 throw 自行產生例外事件、9-5 使用 throws 抛出例外事件、9-6 RuntimeException
與 Checked Exception。
第135題
Given:
  84. try{
  85.
          ResourceConnection con = resourceFactory.getConnection();
  86.
          Results r = \text{con.query}("GET INFO FROM CUSTOMER");
  87.
          info = r.getData();
  88.
          con.close();
  89. }catch(ResourceException re){
  90.
          errorLog.write(re.getMessage());
  91. }
  92. return info;
Which statement is true if a ResourceException is thrown on line 86?
```

- A. Line 92 will not execute.
- B. The connection will not be retrieved in line 85.
- C. The resource connection will not be closed on line 88.
- D. The enclosing method will throw an exception to its caller.

## 答案:C

## 參考: 9-2 Java 例外事件與處理機制。

```
第136題
Given:
  11. public static void main(String[] args){
  12.
          try{
  13.
             args = null;
  14.
             args[0] = "test";
  15.
             System.out.println(args[0]);
          }catch(Exception ex) {
  16.
  17.
             System.out.println("Exception");
  18.
          }catch(NullPointerException npe){
  19.
             System.out.println("NullPointerException");
  20.
          }
  21.
       }
What is the result?
A. test
B. Exception
C. Compilation fails.
D. NullPointerException
答案:C
參考: 9-2 Java 例外事件與處理機制。
第137題
Given:
  11. class X{public void foo(){System.out.print("X");}}
  12.
  13.
       public class SubB extends X{
  14.
          public void foo() throws RuntimeException{
  15.
             super.foo();
  16.
             if(true) throw new RuntimeException();
  17.
             System.out.print("B ");
  18.
          public static void main(String[] args){
  19.
  20.
             new SubB().foo();
  21.
          }
  22. }
What is the result?
A. X, followed by an Exception.
B. No output, and an Exception is thrown.
C. Compilation fails due to an error on line 14.
D. Compilation fails due to an error on line 16.
E. Compilation fails due to an error on line 17.
F. X, followed by an Exception, followed by B.
答案:A
```

```
參考:9-3 使用 throw 自行產生例外事件、9-5 使用 throws 拋出例外事件。
```

```
第138題
```

```
Which two code fragments are most likely to cause a StackOverflowError? (Choose two.)
A. int[] x = \{1, 2, 3, 4, 5\};
    for(int y=0; y<6; y++)
    System.out.println(x[y]);
B. static int[] x = \{7, 6, 54\};
    static\{x[1] = 8; x[4] = 3;\}
C. for(int y=10; y<10; y++)
    doStuff(y);
D. void doOne(int x)\{doTwo(x);\}
    void doTwo(int y){doThree(y);}
    void doThree(int z){doTwo(z);}
E. for(int x=0; x<1000000000; x++)
    doStuff(x);
F. void counter(int i){counter(++i);}
答案:DF
參考: 9-8 StackOverflowError 錯誤事件
第139題
Given a method that must ensure that its parameter is not null:
   11. public void someMethod(Object value){
   12.
          //check for null value
   20.
          System.out.println(value.getClass());
   21. }
What, inserted at line 12, is the appropriate way to handle a null value?
A. assert value == null;
B. assert value != null : "value is null";
C. if (value == null){
       throw new AssertionException("value is null");
     }
D. if (value == null){
       throw new IllegalArgumentException("value is null");
    }
答案:D
參考: 9-3 使用 throw 自行產生例外事件、9-7 測試程式與 AssertionError 錯誤事件
```

第140題

```
Given:
1. public class A{
2.
      public void method1(){
3.
         B b = new B();
4.
        b.method2();
5.
        //more code here
6.
      }
7. }
1. public class B{
2.
      public void method2(){
3.
        C c = new C();
4.
        c.method3();
5.
        //more code here
      }
6.
7. }
1. public class C{
2.
      public void method3(){
3.
        //more code here
4.
      }
5. }
And given:
   25.
         try{
   26.
           A = new A();
   27.
           a.method1();
   28.
         }catch(Exception e){
   29.
           System.out.print("an error occurred");
   30.
Which two statements are true if a NullPointerException is thrown on line 3 of class C? (Choose two.)
A. The application will crash.
B. The code on line 29 will be executed.
C. The code on line 5 of class A will execute.
D. The code on line 5 of class B will execute.
E. The exception will be propagated back to line 27.
答案:BE
參考: 9-2 Java 例外事件與處理機制、9-5 使用 throws 拋出例外事件。
第141題
Given:
   11. class A{
   12.
          public void process(){System.out.print("A, ");}
   13.
       class B extends A{
          public void process() throws IOException{
   14.
   15.
          super.process();
   16.
          System.out.print("B, ");
   17.
          throw new IOException(),
   18. }
```

19. public static void main(String[] args){
20. try{new B().process();}
21. catch(IOException e){System.out.println("Exception");}
22. }

What is the result?

- A. Exception
- B. A, B, Exception
- C. Compilation fails because of an error in line 20.
- D. Compilation fails because of an error in line 14.
- E. A NullPointerException is thrown at runtime.

## 答案:D

參考: 9-2 Java 例外事件與處理機制、9-3 使用 throw 自行產生例外事件、9-5 使用 throws 抛出例外事件。

## 第142題

Assuming that the serializeBanana() and the deserializeBanana() methods will correctly use Java serialization and given:

13. import java.io.\*; 14. class Food implements Serializable{int good = 3;} 15. class Fruit extends Food{int juice = 5;} 16. public class Banana extends Fruit{ int yellow = 4; 17. 18. public static void main(String[] args) { 19. Banana b = new Banana(); Banana b2 = new Banana(); 20. b.serializeBanana(b); //assume correct serialization 21. b2 = b.deserializeBanana(); //assume correct 22. System.out.println("restore" + b2.yellow + b2.juice + b2.good); 24. 25. //more Banana methods go here

What is the result?

A. restore 400

50. }

- B. restore 403
- C. restore 453
- D. Compilation fails.
- E. An exception is thrown at runtime.

答案:C

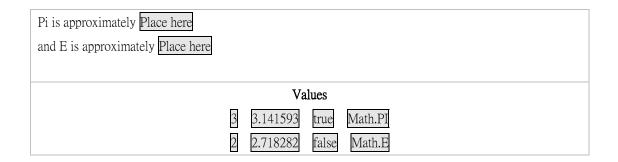
參考:10-5 多重串接

## 第143題

Given:

System.out.printf("Pi is approximately %f and E is approximately %b, Math.PI, Math.E);

Place the values where they would appear in the output.



## 答案:

```
Pi is approximately 3.141593 and E is approximately true
```

參考: 10-2 Console 類別、11-1 數字類型

## 第144題

Which capability exists only in java.io.BufferedWriter?

- A. Closing an open stream.
- B. Flushing an open stream.
- C. Writing to an open stream.
- D. Writing a line separator to an open stream.

答案:D

參考: 10-5 多重串接

## 第145題

Given that the current directory is empty, and that the user has read and write permissions, and the following:

```
11. import java.io.*;
12. public class DOS{
13.
        public static void main(String[] args){
14.
          File dir = new File("dir");
15.
          dir.mkdir();
16.
          File f1 = new File(dir, "f1.txt");
17.
          try{
18.
             f1.createNewFile();
          }catch(IOException e){;}
19.
20.
          File newDir = new File("newDir");
21.
          dir.renameTo(newDir);
22.
        }
23. }
```

Which statement is true?

- A. Compilation fails.
- B. The file system has a new empty directory named dir.
- C. The file system has a new empty directory named newDir.

- D. The file system has a directory named dir, containing a file f1.txt.
- E. The file system has a directory named newDir, containing a file f1.txt.

答案:E

參考: 10-3 File 類別

### 第146題

```
Given:
```

```
1. import java.io.*;
2. public class Foo implements Serializable{
3.
       public int x, y;
4.
       public Foo(int x, int y){this.x = x; this.y = y;}
5.
6.
      private void writeObject(ObjctOutputStream s)
7.
        throws IOException{
8.
          s.writeInt(x); s.writeInt(y);
9.
        }
10.
      private void readObject(ObjectInputStream s)
11.
12.
        throws IOException, ClassNotFoundException{
13.
14.
         //insert code here
15.
16.
      }
17. }
```

Which code, inserted at line 14, will allow this class to correctly serialize and deserialize?

- A. s.defaultReadObject();
- B. this = s.defaultReadObject(),
- C. y = s.readInt(); x = s.readInt();
- D. x = s.readInt(); y = s.readInt();

答案:D

參考: 10-5 多重串接

### 第147題

Given:

```
    public class LineUp{
    public static void main(String[] args){
    double d = 12.345;
    //insert code here
    }
```

Which code fragment, inserted at line 4, produces the output 112.3451?

- A. System.out.printf("I%7dl \n", d);
- B. System.out.printf("I%7fl \n", d);
- C. System.out.printf("I%3.7dl \n", d);
- D. System.out.printf("1%3.7fl \n", d);

```
E. System.out.printf("I%7.3dl \n", d);
F. System.out.printf("I%7.3fl \n", d);
答案:F
參考:10-2 Console 類別
第148題
Given:
   12. import java.io.*;
   13. public class Forest implements Serializable{
   14.
          private Tree tree = new Tree();
   15.
          public static void main(String[] args){
   16.
             Forest f = new Forest();
   17.
             try{
   18.
                FileOutputStream fs = new FileOutputStream("Forest.ser");
   19.
                ObjectOutputStream os = new ObjectOutputStream(fs);
   20.
                os.writeObject(f); os.close();
   21.
             }catch(Exception ex){ex.printStackTrace();}
   22. }}
   23.
   24. class Tree{}
What is the result?
```

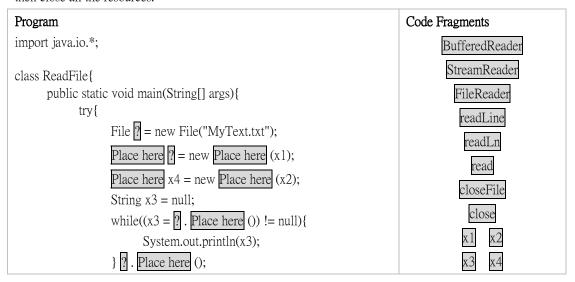
- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. An instance of Forest is serialized.
- D. An instance of Forest and an instance of Tree are both serialized.

答案:B

參考: 10-5 多重串接

## 第149題

Place the Fragments into the program, so that the program will get lines from a text file. display them, and then close all the resources.



## 答案:

參考: 10-5-1 BufferedReader 與 BufferedWriter 類別

## 第150題

```
Given:
```

```
5.
       import java.io.*;
6.
       public class Talk{
7.
         public static void main(String[] args){
8.
            Console c = new Console();
9.
            String pw;
            System.out.print("password: ");
10.
11.
            pw = c.readLine();
12.
            System.out.println("got" + pw);
13.
         }
14.
```

If the user types the password aiko when prompted, what is the result?

```
A. password:
    gotB. password:
    got aikoC. password: aiko
    got aiko
```

- D. An exception is thrown at runtime.
- E. Compilation fails due to an error on line 8.

答案:E

參考: 10-2 Console 類別

### 第151題

Given that the current directory is empty, and that the user has read and write privileges to the current directory, and the following:

```
    import java.io.*;
    public class Maker{
    public static void main(String args){
    File dir = new File("dir");
    File f = new File(dir, "f");
    }
```

Which statement is true?

- A. Compilation fails.
- B. Nothing is added to the file system.
- C. Only a new file is created on the file system.
- D. Only a new directory is created on the file system.
- E. Both a new file and a new directory are created on the file system.

答案:B

參考: 10-3 File 類別

### 第152題

Which three statements concerning the use of the java.io. Serializable interface are true? (Choose three.)

- A. Objects from classes that use aggregation cannot be serialized.
- B. An object serialized on one JVM can be successfully deserialized on a different JVM.
- C. The values in fields with the volatile modifier will NOT survive serialization and deserialization.
- D. The values in fields with the transient modifier will NOT survive serialization and descrialization.
- E. It is legal to serialize an object of a type that has a supertype that does NOT implement java.io. Serializable.

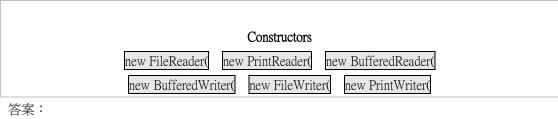
答案: BDE

參考: 10-5-2 ObjectInputStream 與 ObjectOutputStream 類別

## 第153題

Chain these constructors to create objects to read from a file named "in" and to write to a file named "out".

```
reader = Place here Place here "in" ));
writer = Place here Place here Place here "out" )));
```



```
reader = new BufferedReader( new FileReader( "in" ));
```

```
writer = new PrintWriter( new BufferedWriter( new FileWriter( "out" )));
```

參考: 10-5-1 BufferedReader 與 BufferedWriter 類別

## 第154題

Given that c is a reference to a valid java.io. Console object, which two code fragments read a line of text from the console? (Choose two.)

```
A. String s = c.readLine();
```

- B. char[]c = c.readLine();
- C. String s = c.readConsole();
- D. char[] c = c.readConsole();
- E. String s = c.readLine("%s", "name ");
- F. char[]c = c.readLine("%s", "name");

答案:AE

參考: 10-2 Console 類別

## 第155題

The doesFileExist method takes an array of directory names representing a path from the root filesystem and a file name. The method returns true if the file exists, false if it does not.

Place the code fragments in position to complete this method.

```
public static boolean doesFileExist(String[] directories, String filename){
  Place here
  for(String dir: directories){
     Place here
  Place here
  Place here
}
                                              Code Fragments
                                                                           return(file != null);
               path = path.getSubdirectory(dir);
                                                   return !file.isNew();
               String path = "";
                                   path = path.getFile(filename);
                                                                    File path = new File("");
                                                          File file = new File(path, filename);
              return file.exists();
                                    return path.isFile();
```

```
path = new File(path, dir); File path = new File(File.separator); path = path + File.separator + dir;  
答案:

public static boolean doesFileExist(String[] directories, String filename){

String path = "";

for(String dir : directories){

path = path + File.separator + dir;

}

File file = new File(path, filename);

return file.exists();

}
```

## 參考: 10-3 File 類別

### 第156題

Place the code fragments into position to use a BufferedReader to read in an entire text file.

```
public static void main(String[] args){
    BufferedReader buffReader = null; /
    //More code here to initialize buffReader
    try{
       String temp;
       while( Place here Place here ){
          System.out.println(temp);
    }catch Place here
       e.printStackTrace();
  }
}
                                            Code Fragments
                      (temp = buffReader.readLine())
                                                       && buffReader.hasNext()
                          (temp = buffReader.nextLine())
                                                           (IOException e){
                                          (FileNotFoundException e){
```

## 答案:

```
class PrintFile{
  public static void main(String[] args){
    BufferedReader buffReader = null; /
    //More code here to initialize buffReader
    try{
        String temp;
        while( (temp = buffReader.readLine()) != null ){
            System.out.println(temp);
        }
    }catch (IOException e){
```

```
e.printStackTrace();
}
}
}
```

參考: 10-5-1 BufferedReader 與 BufferedWriter 類別

## 第157題

Given that c is a reference to a valid java.io. Console object, and:

- 11. String pw = c.readPassword("%s", "pw: ");
- 12. System.out.println("got " + pw);
- 13. String name = c.readLine("%s", "name: ");
- 14. System.out.println(" got", name);

If the user types fido when prompted for a password, and then responds bob when prompted for a name, what is the result?

```
A. pw:
    got fido
    name: bob
    got bob
B. pw: fido
    got fido
    name: bob
    got bob
C. pw:
    got fido
    name: bob got bob
D. pw: fido
    got lido
    name: bob got bob
E. Compilation fails.
F. An exception is thrown at runtime.
答案:E
參考:10-2 Console 類別
```

## 第158題

Given a vaid DateFormat object named df, and

```
16. Date d = new Date(0L);
```

- 17. String ds = "December 15, 2004";
- 18. //insert code here

What updates d's value with the date represented by ds?

```
A. 18. d = df.parse(ds);
```

B. 18. d = df.getDate(ds);

- C. 18. try{
  - 19. d = df.parse(ds);
  - 20. \catch(ParseException e)\{\}
- D. 18. try{
  - 19. d = df.getDate(ds);
  - 20. \catch(ParseException e)\{\}

### 答案:C

參考:11-4 數字與日期/時間格式設定

## 第159題

### Given:

- 11. double input = 314159.26;
- 12. NumberFormat nf = NumberFormat.getInstance(Locale.ITALIAN);
- 13. String b;
- 14. //insert code here

Which code, inserted at line 14, sets the value of b to 314.159,26?

- A. b = nf.parse(input);
- B. b = nf.format(input);
- C. b = nf.equals(input);
- D. b = nf.parseObject(input);

答案:B

參考: 11-4-1 NumberFormat 類別

### 第160題

## Given:

- 22. StringBuilder sb1 = new StringBuilder("123");
- 23. String s1 = "123";
- 24. //insert code here
- 25. System.out.println(sb1 + " " + s1);

Which code fragment, inserted at line 24, outputs "123abc 123abc"?

- A. sb1.append("abc"); s1.append("abc");
- B. sb1.append("abc"); s1.concat("abc");
- C. sb1.concat("abc"); s1.append("abc");
- D. sb1.concat("abc"); s1.concat("abc");
- E. sb1.append("abc"); s1 = s1.concat("abc");
- F. sb1.concat("abc"); s1 = s1.concat("abc");
- G. sb1.append("abc"); s1 = s1 + s1.concat("abc");
- H. sb1.concat("abc"); s1 = s1 + s1.concat("abc");

答案:E

參考: 11-2 文字類型

## 第161題

```
Given:
```

```
1. public class Boxer1{
2.
       Integer i
3.
       int x;
4.
       public Boxer1(int y){
5.
         x = i + y;
6.
         System.out.println(x);
7.
      public static void main(String[] args){
8.
9.
         new Boxer1(new Integer(4));
10.
11. }
```

## What is the result?

- A. The value "4" is printed at the command line.
- B. Compilation fails because of an error in line 5.
- C. Compilation fails because of an error in line 9.
- D. A NullPointerException occurs at runtime.
- E. A NumberFormatException occurs at runtime.
- F. An IllegalStateException occurs at runtime.

## 答案:D

## 參考:11-1 數字類型

## 第162題

### Given:

```
11. public static void main(String[] args){
12. Integer i = new Integer(1) + new Integer(2);
13. switch(i){
14. case 3: System.out.println("three"); break;
```

15. default: System.out.println("other"); break;

16. 17. }

## What is the result?

- A. three
- B. other
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error on line 12.
- E. Compilation fails because of an error on line 13.
- F. Compilation fails because of an error on line 15.

## 答案:A

## 參考:11-1 數字類型

### 第163題

參考:11-4 數字與日期/時間格式設定

```
Given:
   1. public class TestString3{
   2.
         public static void main(String[] args){
   3.
            //insert code here
   5.
            System.out.println(s);
   6.
         }
   7. }
Which two code fragments, inserted independently at line 3, generate the output 4247? (choose two.)
A. String s = "123456789";
    s = (s - "123").replace(1, 3, "24") - "89";
B. StringBuffer s = new StringBuffer("123456789");
    s.delete(0, 3).replace(1, 3, "24").delete(4, 6);
C. StringBuffer s = new StringBuffer("123456789");
    s.substring(3, 6).delete(1, 3).insert(1, "24");
D. StringBuilder s = new StringBuilder("123456789");
    s.substring(3, 6).delete(1, 2).insert(1, "24");
E. StringBuilder s = new StringBuilder("123456789");
    s.delete(0, 3).delete(1, 3).delete(2, 5).insert(1, "24");
答案:BE
參考:11-2 文字類型
第164題
Given:
   1. d is a valid, non-null Date object
   2. df is a valid, non-null DateFormat object set to the current locale
What outputs the current locale's country name and the appropriate version of d's date?
A. Locale loc = Locale.getLocale();
    System.out.println(loc.getDisplayCountry()
    + " " + df.format(d));
B. Locale loc = Locale.getDefault();
    System.out.println(loc.getDisplayCountry()
    + " " + df.format(d));
C. Locale loc = Locale.getLocale();
    System.out.println(loc.getDisplayCountry()
    + " " + df.setDateFormat(d));
D. Locale loc = Locale.getDefault();
    System.out.println(loc.getDisplayCountry()
    + " " + df.setDateFormat(d));
答案:B
```

## 第165題

```
Given:
```

- 5. import java.util.Date;
- 6. import java.text.DateFormat;
- 21. DateFormat df;
- 22. Date date = new Date();
- 23. //insert code here
- 24. String s = df.format(date);

Which code fragment, inserted at line 23, allows the code to compile?

- A. df = new DateFormat();
- B. df = Date.getFormat();
- C. df = date.getFormat();
- D. df = DateFormat.getFormat();
- E. df = DateFormat.getInstance();

答案:E

參考:11-4 數字與日期/時間格式設定

### 第166題

## Given:

- 1. public class BuildStuff{
- 2. public static void main(String[] args){
- 3. Boolean test = new Boolean(true);
- 4. Integer x = 343;
- 5. Integer y = new BuildStuff().go(test, x);
- 6. System.out.println(y);
- 7.
- 8. int go(Boolean b, int i){
- 9. if(b) return (i/7);
- 10. return (i/49);
- 11.
- 12. }

What is the result?

}

- A. 7
- B. 49
- C. 343
- D. Compilation fails.
- E. An exception is thrown at runtime.

答案:B

參考:11-1 數字類型

## 第167題

## Given:

- 11. String test = "Test A. Test B. Test C.";
- 12. //insert code here

13. String[] result = test.split(regex); Which regular expression, inserted at line 12, correctly splits test into "Test A", "Test B", and "Test C"? A. String regex = ""; B. String regex = " "; C. String regex = ".\*"; D. String regex = "\\s"; E. String regex = "\\.\\s\*"; F. String regex = " $\w[\cdot] +$ "; 答案:E 參考:11-5 規則運算式與相關類別 第168題 Given: 11. public void testIfA(){ 12. if(testIfB("True")){ System.out.println("True"); 13. 14. }else{ 15. System.out.println("Not true"); 16. 17. } public Boolean testIfB(String str){ 19. return Boolean.valueOf(str); 20. What is the result when method testIfA is invoked? A. True B. Not true C. An exception is thrown at runtime. D. Compilation fails because of an error at line 12. E. Compilation fails because of an error at line 19. 答案:A 參考: 11-1-2 Wrapper 類別 第169題 Given: 12. NumberFormat nf = NumberFormat.getInstance(); 13. nf.setMaximumFractionDigits(4); 14. nf.setMinimumFractionDigits(2); 15. String a = nf.format(3.1415926);

Which two statements are true about The result if the default locale is Locale.US? (Choose two.)

A. The value of b is 2.

16. String b = nf.format(2);

- B. The value of a is 3.14.
- C. The value of b is 2.00.
- D. The value of a is 3.141.
- E. The value of a is 3.1415.
- F. The value of a is 3.1416.
- G. The value of b is 2.0000.

答案:CF

參考:11-4 數字與日期/時間格式設定

## 第170題

### Given:

- 12. String csv = "Sue,5,true,3";
- 13. Scanner scanner = new Scanner(csv);
- 14. scanner.useDelimiter(",");
- 15. int age = scanner.nextInt(),

What is the result?

- A. Compilation fails.
- B. After line 15, the value of age is 5.
- C. After line 15, the value of age is 3.
- D. An exception is thrown at runtime.

答案:D

參考:11-5 規則運算式與相關類別

## 第171題

## Given:

- 11. String test = "a1b2c3";
- 12. String[] tokens = test.split("\\d");
- 13. for(String s : tokens) System.out.print(s + " ");

What is the result?

- A. abc
- B. 123
- C. a1b2c3
- D. a1 b2 c3
- E. Compilation fails.
- F. The code runs with no output.
- G. An exception is thrown at runtime.

答案:A

參考:11-5 規則運算式與相關類別

## 第172題

```
Given:
  33. Date d = new Date(0);
  34. String ds = "December 15, 2004";
  35. //insert code here
  36. try{
  37.
          d = df.parse(ds);
  38. }
  39. catch(ParseException e){
  40.
          System.out.println("Unable to parse " + ds);
  41. }
  42. //insert code here too
What creates the appropriate DateFormat object and adds a day to the Date object?
A. 35. DateFormat df = DateFormat.getDateFormat();
    42. d.setTime((60 * 60 * 24) + d.getTime();
B. 35. DateFormat df = DateFormat.getDateInstance();
    42. d.setTime((1000 * 60 * 60 * 24) + d.getTime());
C. 35. DateFormat df = DateFormat.getDateFormat();
    42. d.setLocalTime((1000 * 60 * 60 * 24) + d.getLocalTime());
D. 35. DateFormat df = DateFormat.getDateInstance();
    42. d.setLocalTime((60 * 60 * 24) + d.getLocalTime());
答案:B
參考:11-4 數字與日期/時間格式設定
第173題
Given:
  11. public class Yikes{
  12.
  13.
          public static void go(Long n){System.out.print("Long");}
  14.
          public static void go(Short n){System. outprint("Short ");}
  15.
          public static void go(int n){System.out.print("int ");}
  16.
          public static void main(String[] args){
  17.
             short y = 6;
  18.
             long z = 7;
  19.
             go(y);
  20.
             go(z);
  21.
          }
  22. }
What is the result?
A. int Long
B. Short Long
C. Compilation fails.
D. An exception is thrown at runtime.
答案:A
```

參考:11-1 數字類型

### 第174題

Given:

- 12. Date date = new Date();
- 13. df.setLocale(Locale.ITALY);
- 14. String s = df.format(date);

The variable df is an object of type DateFormat that has been initialized in line 11.

What is the result if this code is run on December 14, 2000?

- A. The value of s is 14-dic-2000.
- B. The value of s is Dec 14, 2000.
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error in line 13.

答案:D

參考:11-4 數字與日期/時間格式設定

### 第175題

Which two scenarios are NOT safe to replace a StringBuffer object with a StringBuilder object? (Choose two.)

- A. When using versions of Java technology earlier than 5.0.
- B. When sharing a StringBuffer among multiple threads.
- C. When using the java.io class StringBufferInputStream.
- D. When you plan to reuse the StringBuffer to build more than one string.
- E. Enitiation of separate design processes to the separation of users

答案:AB

參考: 11-2 文字類型

### 第176題

Place the code fragments into position to produce the output: true true false

```
Code
Scanner scanner = new Scanner("One,5,true,3,true,6,7,false);
scanner.useDelimiter(",");
while( Place hete ){
    if( Place hete ){
        System.out.print( Place hete + " ");
    }else Place hete ;
}

Code Fragments

scanner.hasNextBoolean()
scanner.next()
scanner.hasNext()
```

答案:

```
Code
Scanner scanner = new Scanner("One,5,true,3,true,6,7,false);
scanner.useDelimiter(",");
while( scanner.hasNext() ){
  if( scanner.hasNextBoolean() ){
     System.out.print( scanner.nextBoolean() + " ");
  }else scanner.next();
參考: 11-5-2 Scanner 類別
第177題
Given:
   11. String test = "This is a test";
   12. String[] tokens = test.split("\s");
   13. System.out.println(tokens.length);
What is the result?
A. 0
B. 1
C. 4
D. Compilation fails.
E. An exception is thrown at runtime.
答案:D
參考:11-5 規則運算式與相關類別
第178題
Given:
   1. public class Target{
   2.
         private int i = 0;
   3.
         public int addOne(){
   4.
            return ++i;
   5.
         }
  6. }
And:
   1. public class Client{
   2.
         public static void main(String[] args){
   3.
            System.out.println(new Target().addOne());
   4.
   5.
      }
Which change can you make to Target without affecting Client?
A. Line 4 of class Target can be changed to return i++;
B. Line 2 of class Target can be changed to private int i = 1;
```

C. Line 3 of class Target can be changed to private int addOne(){

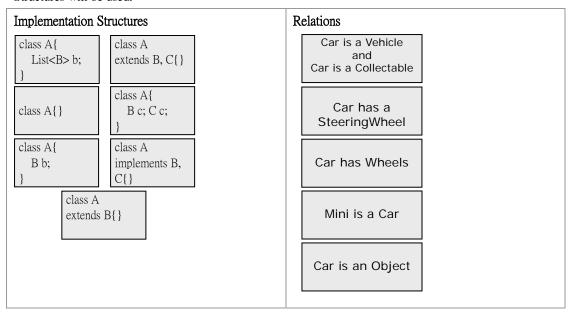
D. Line 2 of class Target can be changed to private Integer i = 0;

答案:D

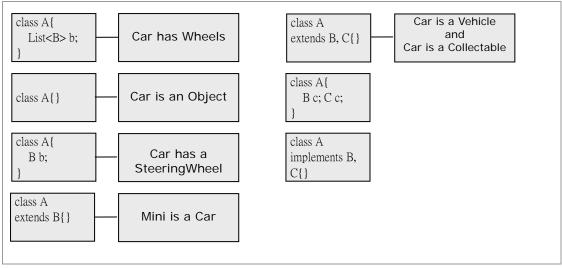
參考:11-1 數字類型

### 第179題

Place the Relations on their corresponding Implementation Structures. Note Not all Implementation Structures will be used.



答案:有2個找不到對應的關聯

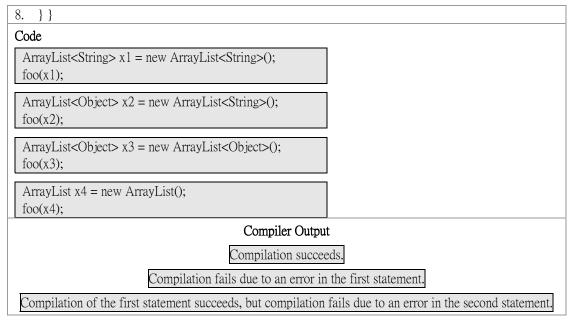


參考:6-5 繼承、12-3 泛型

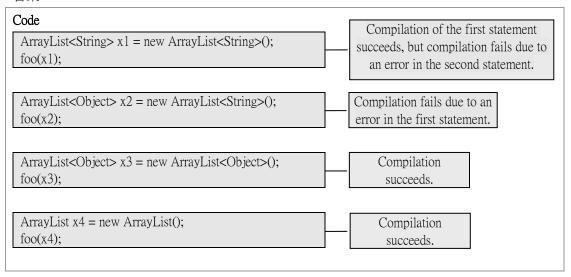
### 第180題

Place the correct description of the compiler output on the code fragments to be inserted at lines 4 and 5. The same compiler output may be used more than once.

import java.util.\*;
 public class X{
 public static void main(String[] args){
 //insert cede here
 // insert code here
 }
 public static void foo(List<Object> list){



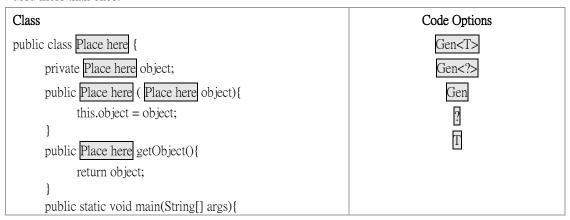
### 答案:



參考:12-3 泛型

## 第181題

Place code into the class so that it compiles and generates the output answer = 42. Note: Code options may be used more than once.



### 答案:

參考:12-3-1 泛型功能介紹

takeList(aList);

### 第182題

Given the class definitions:

class Animal{}

class Dog extends Animal{}

and the code:

public void go(){

ArrayList<Dog> aList = new ArrayList<Dog>();

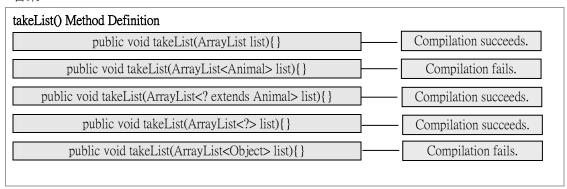
//insert definition of the takeList() method here

Place the correct Compilation Result on each takeList() method definition to indicate whether or not the go() method would compile given that definition.

# takeList() Method Definition public void takeList(ArrayList list){} public void takeList(ArrayList<Animal> list){} public void takeList(ArrayList<? extends Animal> list){} public void takeList(ArrayList<?> list){} public void takeList(ArrayList<Object> list){} Compilation Result

# Compilation succeeds. Compilation fails.

### 答案:



參考:12-3 泛型

### 第183題

Place the code in the appropriate places such that this program will always output [1, 2].

```
import java.util.*;
public class MyInt Place here Place here {
      public static void main(String[] args){
            ArrayList<MyInt> list = new ArrayList<MyInt>();
            list.add(new MyInt(2));
            list.add(new MyInt(1));
            Collections.sort(list);
            System.out.println(list);
      private int i;
      public MyInt(int i){this.i = i;}
      public String toString(){return Integer.toString(i);}
      Place here int Place here {
            MyInt i2 = (MyInt)o;
            return Place here;
      }
}
                                                   Code
                         implements
                                        extends
                                                  sortable
                                                             Object
                                                                      Comparable
                                protected
                                            public
                        compare(MyInt o, MyInt i2)
                                                       compare(Object o, Object i2)
                                       sort(Object o)
                                                       sort(MyInt o)
                               compareTo(MyInt o)
                                                       compareTo(Object o)
```

### 答案:

```
import java.util.*;

public class MyInt implements Comparable {

public static void main(String[] args) {

ArrayList<MyInt> list = new ArrayList<MyInt>();
```

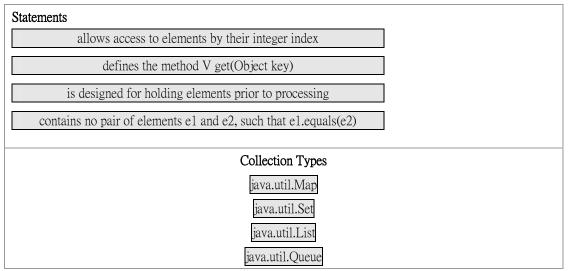
```
list.add(new MyInt(2));
list.add(new MyInt(1));
Collections.sort(list);
System.out.println(list);
}
private int i;
public MyInt(int i){this.i = i;}
public String toString(){return Integer.toString(i);}

public int compareTo(Object o) {
MyInt i2 = (MyInt)o;
return i - i2.i;
}
}
```

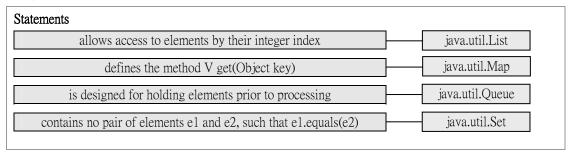
### 參考: 12-4-3 SortedSet 集合

### 第184題

Place each Collection Type on the statement to which it applies.



### 答案:



參考: 12-4 各種集合的特色、12-5 Map 的功能與架構

### 第185題

### Given:

- 1. public class Person{
- 2. private String name;

3. public Person(String name){this.name = name;}
4. public boolean equals(Person p){
5. return p.name.equals(this.name);
6. }
7. }

Which statement is true?

- A. The equals method does NOT properly override the Object.equals method.
- B. Compilation fails because the private attribute p.name cannot be accessed in line 5.
- C. To work correctly with hash-based data structures, this class must also implement the hashCode method.
- D. When adding Person objects to a java.util.Set collection, the equals method in line 4 will prevent duplicates.

答案:A

參考: 12-4 各種集合的特色

### 第186題

Which two statements are true about the hashCode method? (Choose two.)

- A. The hashCode method for a given class can be used to test for object equality and object inequality for that class.
- B. The hashCode method is used by the java.util.SortedSet collection class to order the elements within that set.
- C. The hashCode method for a given class can be used to test for object inequality, but NOT object equality, for that class.
- D. The only important characteristic of the values returned by a hashCode method is that the distribution of values must follow a Gaussian distribution.
- E. The hashCode method is used by the java.util.HashSet collection class to group the elements within that set into hash buckets for swift retrieval.

答案:CE

參考: 12-4 各種集合的特色

### 第187題

Given:

```
1. public class Score implements Comparable Score {
```

- 2. private int wins, losses;
- 3. public Score(int w, int 1){wins = w; losses = 1;}
- 4. public int getWins(){return wins;}
- 5. public int getLosses(){return losses;}
- 6. public String toString(){
- 7. return "<" + wins + "," + losses + ">";
- 8.
- 9. //insert code here
- 10.}

Which method will complete this class?

A. public int compareTo(Object o){/\* more code here \*/}

- B. public int compareTo(Score other){/\* more code here \*/}
- C. public int compare(Score s1, Score s2){/\* more code here \*/}
- D. public int compare(Object o1, Object o2){/\* more code here \*/}

答案:B

參考: 12-4 各種集合的特色

### 第188題

Given a pre-generics implementation of a method:

```
public static int sum(List list){
int sum = 0;
for(Iterator iter = list.iterator(); iter.hasNext();){
int i = ((Integer)iter.next()).intValue();
sum += i;
}
```

17. return sum; 18. }

What three changes allow the class to be used with generics and avoid an unchecked warning? (Choose three.)

- A. Remove line 14.
- B. Replace line 14 with "int i = iter.next();".
- C. Replace line 13 with "for(int i : intList){".
- D. Replace line 13 with "for(Iterator iter: intList){".
- E. Replace the method declaration with "sum(List<int> intList)".
- F. Replace the method declaration with "sum(List<Integer> intList)".

答案:ACF

參考:12-3 泛型

### 第189題

```
Given:
```

```
23. Object[] myObjects = {
24.
       new Integer(12),
25.
       new String("foo"),
26.
       new Integer(5),
27.
       new Boolean(true)
28. };
29. Arrays.sort(myObjects);
30. for(int i=0; i<myObjects.length; i++){
31.
       System.out.print(myObjects[i].toString());
32.
       System.out.print(" ");
33. }
```

What is the result?

- A. Compilation fails due to an error in line 23.
- B. Compilation fails due to an error in line 29.
- C. A ClassCastException occurs in line 29.

- SCJP 6.0 認證教戰手冊 黃彬華著 基峰出版 D. A ClassCastException occurs in line 31. E. The value of all four objects prints in natural order. 答案:C 參考: 5-4 1 維陣列的排序與搜尋、12-2-2 Collections 類別 第190題 Given: 1. import java.util.\*; 2. public class WrappedString{ 3. private String s; 4. public WrappedString(String s){this.s = s;} 5. public static void main(String[] args){ 6. HashSet<Object> hs = new HashSet<Object>(); 7. WrappedString ws1 = new WrappedString("aardvark"); 8. WrappedString ws2 = new WrappedString("aardvark"); 9. String s1 = new String("aardvark"); 10. String s2 = new String("aardvark"); 11. hs.add(ws1); hs.add(ws2); hs.add(s1); hs.add(s2); 12. System.out.println(hs.size()); }}
- What is the result?
- A. 0
- B. 1
- C. 2
- D. 3
- E. 4
- F. Compilation fails.
- G. An exception is thrown at runtime.

### 答案:D

參考: 12-4-2 equals()、hashCode()方法的改寫

### 第191題

### Given:

```
11. //insert code here
12.
       private N min, max;
13.
       public N getMin() { return min; }
14.
       public N getMax() { return max; }
15.
       public void add(N added) {
16.
          if(min == null | added.doubleValue() < min.doubleValue())
17.
             min = added;
18.
          if(max == null || added.doubleValue() > max.doubleValue())
19.
             max = added;
20.
21. }
```

Which two, inserted at line 11, will allow the code to compile? (Choose two.)

A. public class MinMax<?>{

B. public class MinMax<? extends Number>{ C. public class MinMax<N extends Object>{ D. public class MinMax<N extends Number>{ E. public class MinMax<? extends Object>{ F. public class MinMax<N extends Integer>{ 答案: DF 參考: 11-1-2 Wrapper 類別、12-3 泛型 第192題 Given: 3. import java.util.\*; 4. public class G1{ 5. public void takeList(List<? extends String> list){ //insert code here 7. 8. } Which three code fragments, inserted independently at line 6, will compile? (Choose three.) A. list.add("foo"); B. Object o = list; C. String s = list.get(0); D. list = new ArrayList<String>(); E. list = new ArrayList<Object>(); 答案: BCD 參考: 7-8 物件的轉型、12-3 泛型 第193題 Given that the elements of a PriorityQueue are ordered according to natural ordering, and: import java.util.\*; 3. public class GetInLine{ 4. public static void main(String[] args){ 5. PriorityQueue<String> pq = new PriorityQueue<String>(); 6. pq.add("banana"); 7. pq.add("pear"); 8. pq.add("apple"); 9. System.out.println(pq.poll() + " " + pq.peek()); 10. } 11. } What is the result? A. apple pear B. banana pear C. apple apple D. apple banana

E. banana banana

```
答案:D
```

參考: 12-4-6 Queue 集合

### 第194題

### Given:

enum Example (ONE, TWO, THREE)

Which statement is true?

- A. The expressions (ONE == ONE) and ONE.equals(ONE) are both guaranteed to be true.
- B. The expression (ONE < TWO) is guaranteed to be true and ONE.compareTo(TWO) is guaranteed to be less than one.
- C. The Example values cannot be used in a raw javautil. HashMap; instead, the programmer must use a java.util. EnumMap.
- D. The Example values can be used in a java.util.SortedSet, but the set will NOT be sorted because enumerated types do NOT implement java.lang.Comparable.

### 答案:A

參考:8-6 Java 列舉類型、12-4-3 SortedSet 集合、12-5-1 HashMap

### 第195題

```
Given:
```

```
3.
     import java.util.*;
4.
     public class Mapit{
5.
        public static void main(String[] args){
           Set<Integer> set = new HashSet<Integer>();
6.
7.
           Integer i1 = 45;
8.
           Integer i2 = 46;
9.
           set.add(i1);
10.
           set.add(i1);
11.
           set.add(i2); System.out.print(set.size() + " ");
12.
           set.remove(i1); System.out.print(set.size() + " ");
13.
           set.remove(i2); System.out.print(set.size() + " ");
14.
15.
        }
16. }
```

What is the result?

- A. 210
- B. 211
- C. 321
- D. 322
- E. Compilation fails.
- F. An exception is thrown at runtime.

答案:B

參考: 12-4-1 Set 集合

```
第196題
Given:
   34. HashMap props = new HashMap();
   35. props.put("key45", "some value");
   36. props.put("keyl2", "some other value");
   37. props.put("key39", "yet another value");
   38. Set s = props.keySet();
   39. //insert code here
What inserted at line 39, will sort the keys in the props HashMap?
A. Arrays.sort(s);
B. s = new TreeSet(s);
C. Collections.sort(s);
D. s = new SortedSet(s);
答案:B
參考: 12-4-3 SortedSet 集合、12-5-1 HashMap
第197題
Given:
   11. public static Collection get(){
          Collection sorted = new LinkedList();
   12.
   13.
          sorted.add("B"); sorted.add("C"); sorted.add("A");
   14.
          return sorted;
   15. }
   16. public static void main(String[] args){
   17.
          for(Object obj : get()){
   18.
             System.out.print(obj + ", ");
   19.
          }
   20. }
What is the result?
A. A, B, C,
B. B, C, A,
C. Compilation fails.
D. The code runs with no output
E. An exception is thrown at runtime.
答案:B
參考: 12-4-5 List 集合
第198題
Given:
   11. public static Iterator reverse(List list){
   12.
          Collections.reverse(list);
   13.
          return list.iterator();
```

14. }

```
15. public static void main(String[] args){
  16.
          List list= new ArrayList();
  17.
          list.add("1"); list.add("2"); list.add("3");
  18.
          for(Object obj : reverse(list))
  19.
          System.out.print(obj + ", ");
  20.
       }
What is the result?
A. 3, 2, 1,
B. 1, 2, 3,
C. Compilation fails.
D. The code runs with no output.
E. An exception is thrown at runtime.
答案:C
參考: 12-2-2 Collections 類別、12-4-5 List 集合
第199題
Given:
  10. interface A{void x();}
  11. class B implements A{public void x(){} public void y(){}}
  12. class C extends B{public void x(){}}
And:
  20. java.util.List<A> list = new java.util.ArrayList<A>();
  21. list.add(new B());
  22. list.add(new C());
  23. for(A a : list){
  24.
          a.x();
  25.
          a.y();
  26. }
What is the result?
A. The code runs with no output.
B. An exception is thrown at runtime.
C. Compilation fails because of an error in line 20.
D. Compilation fails because of an error in line 21.
E. Compilation fails because of an error in line 23.
F. Compilation fails because of an error in line 25.
答案:F
參考: 7-9 多型、12-4-5 List 集合
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Given:
  11. public class Person{
  12.
          private String name;
  13.
          public Person(String name){
```

14.

this.name = name;

```
15. }
16. public boolean equals(Object o){
17. if(!(o instanceof Person)) return false;
18. Person p = (Person)o;
19. return p.name.equals(this.name);
20. }
21. }
```

### Which statement is true?

- A. Compilation fails because the hashCode method is not overridden.
- B. A HashSet could contain multiple Person objects with the same name.
- C. All Person objects will have the same hash code because the hashCode method is not overridden.
- D. If a HashSet contains more than one Person object with name="Fred", then removing another Person, also with name="Fred", will remove them all.

答案:B

參考: 12-4-2 equals()、hashCode()方法的改寫