





Online Java Programming Test :: Java Programming Test - Random

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Marks: 4/20

Total number of questions : 20

Number of answered questions : 15

Number of unanswered questions : 5

Test Review: View answers and explanation for this test.

1. What will be the output of the program?

```
import java.util.*;
public class NewTreeSet2 extends NewTreeSet
{
    public static void main(String [] args)
    {
        NewTreeSet2 t = new NewTreeSet2();
        t.count();
    }
}
protected class NewTreeSet
{
    void count()
    {
        for (int x = 0; x < 7; x++,x++ )
        {
            System.out.print(" " + x);
        }
    }
}</pre>
```

- **(A)** 0 2 4
- **B** 0 2 4 6
- © Compilation fails at line 2
- 🗸 📵 Compilation fails at ନିନ୍ଧି[†]ନ୍ତ[†] 🍑 Copyright Privacy Policy

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Your Answer: Option (1)

Correct Answer: Option (1)

Explanation:

Nonnested classes cannot be marked protected (or final for that matter), so the compiler will fail at protected class NewTreeSet.

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[#]

2. What will be the output of the program?

```
public class Test
{
    public static void main(String args[])
    {
        class Foo
        {
            public int i = 3;
        }
        Object o = (Object)new Foo();
        Foo foo = (Foo)o;
        System.out.println("i = " + foo.i);
    }
}
```

- A i = 3
- B Compilation fails.
- **©** i = 5
- ✓ ① A ClassCastException will occur. ⊗

Your Answer: Option (1)

Correct Answer: Option (R)

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[#]

3. What will be the output of the program?

```
class Test
{
    public static void main(String [] args)
    {
       int x=20;
    }
}
```

```
String sup = (x < 15) ? "small" : (x < 22)? "tiny" : "huge";
            System.out.println(sup);
        }
    }
       (A) small

■ tiny 
■ 
       © huge
       Compilation fails 
 Your Answer: Option (1)
 Correct Answer: Option (B)
 Explanation:
 This is an example of a nested ternary operator. The second evaluation (x < 22) is true, so
 the "tiny" value is assigned to sup.
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                                                                                              [#]
4. What will be the output of the program?
    public class If1
    {
        static boolean b;
        public static void main(String [] args)
            short hand = 42;
            if ( hand < 50 && !b ) /* Line 7 */
               hand++;
            if ( hand > 50 );
                               /* Line 9 */
            else if (hand > 40)
                hand += 7;
                hand++;
            }
            else
                --hand;
            System.out.println(hand);
        }
    }
       (A) 41
       B 42
       © 50
```



Your Answer: Option (1)

Correct Answer: Option (1)

Explanation:

In Java, boolean instance variables are initialized to false, so the if test on line 7 is true and hand is incremented. Line 9 is legal syntax, a do nothing statement. The else-if is true so hand has 7 added to it and is then incremented.

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[#]

5. What will be the output of the program?

```
for(int i = 0; i < 3; i++)
{
    switch(i)
    {
        case 0: break;
        case 1: System.out.print("one ");
        case 2: System.out.print("two ");
        case 3: System.out.print("three ");
    }
}
System.out.println("done");</pre>
```

A done

B one two done

© one two three done

🔲 📵 one two three two three done 🤡

Your Answer: Option (R)

Correct Answer: Option (1)

Explanation:

The variable i will have the values 0, 1 and 2.

When i is 0, nothing will be printed because of the break in case 0.

When i is 1, "one two three" will be output because case 1, case 2 and case 3 will be executed (they don't have break statements).

When i is 2, "two three" will be output because case 2 and case 3 will be executed (again

no break statements).

Finally, when the for loop finishes "done" will be output.

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[#]

6. What will be the output of the program?

- (R) 0 1 2 (S)
- **B** 012122
- 🔲 🕲 Compilation fails at line 11. 🤡
- ① Compilation fails at line 12.

Your Answer: Option (R)

Correct Answer: Option ©

Explanation:

Case expressions must be constant expressions. Since x is marked final, lines 12 and 13 are legal; however y is not a final so the compiler will fail at line 11.

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[#]

7. What will be the output of the program?

```
public class RTExcept
    public static void throwit ()
    {
        System.out.print("throwit ");
        throw new RuntimeException();
    public static void main(String [] args)
        try
        {
            System.out.print("hello ");
            throwit();
        }
        catch (Exception re )
            System.out.print("caught ");
        finally
        {
            System.out.print("finally ");
        System.out.println("after ");
   }
}
   (A) hello throwit caught
  B Compilation fails < < < >
```

© hello throwit RuntimeException caught after

🔲 📵 hello throwit caught finally after 🤡

Your Answer: Option (B)

Correct Answer: Option (1)

Explanation:

The main() method properly catches and handles the RuntimeException in the catch block, finally runs (as it always does), and then the code returns to normal.

A, B and C are incorrect based on the program logic described above. Remember that properly handled exceptions do not cause the program to stop executing.

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[#]

8. What will be the output of the program?

```
public class MyProgram
{
```

```
public static void main(String args[])
            try
            {
                System.out.print("Hello world ");
            finally
                System.out.println("Finally executing ");
        }
    }
       (A) Nothing. The program will not compile because no exceptions are specified.
       B Nothing. The program will not compile because no catch clauses are specified.
       C Hello world.
       • Hello world Finally executing
 Your Answer: Option (1)
 Correct Answer: Option (1)
 Explanation:
 Finally clauses are always executed. The program will first execute the try block, printing
 Hello world, and will then execute the finally block, printing Finally executing.
 Option A, B, and C are incorrect based on the program logic described above. Remember that
 either a catch or a finally statement must follow a try. Since the finally is present, the catch is
 not required.
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                                                                                              [#]
9. Which interface provides the capability to store objects using a key-value pair?
      📵 Java.util.Map 🤡
       B Java.util.Set
       © Java.util.List
       ① Java.util.Collection
 Your Answer: Option (R)
 Correct Answer: Option (A)
 Explanation:
```

An object that maps keys to values. A map cannot contain duplicate keys; each key can map to at most one value.
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[#]
10. What is the numerical range of char?
■ ① to 32767
■ ® 0 to 65535
☐ ⓒ -256 to 255
☑ -32768 to 32767 ②
Your Answer: Option (1)
Correct Answer: Option ®
Explanation:
The char type is integral but unsigned. The range of a variable of type char is from 0 to 2 ¹⁶ -1 or 0 to 65535. Java characters are Unicode, which is a 16-bit encoding capable of representing a wide range of international characters. If the most significant nine bits of a char are 0, then the encoding is the same as seven-bit ASCII.
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[#]
11. Which collection class allows you to grow or shrink its size and provides indexed access to its elements, but whose methods are not synchronized?
🔲 📵 java.util.HashSet
java.util.LinkedHashSet
igava.util.List
Your Answer: Option (Not Answered)
Correct Answer: Option Option
Explanation:

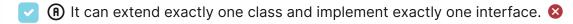
All of the collection classes allow you to grow or shrink the size of your collection. ArrayList provides an index to its elements. The newer collection classes tend not to have synchronized methods. Vector is an older implementation of ArrayList functionality and has synchronized methods; it is slower than ArrayList.

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[#]

12. Which is true about an anonymous inner class?



- B It can extend exactly one class and can implement multiple interfaces.
- 🔲 🕲 It can extend exactly one class or implement exactly one interface. 🤡
- ① It can implement multiple interfaces regardless of whether it also extends a class.

Your Answer: Option (R)

Correct Answer: Option ©

Explanation:

Option C is correct because the syntax of an anonymous inner class allows for only one named type after the new, and that type must be either a single interface (in which case the anonymous class implements that one interface) or a single class (in which case the anonymous class extends that one class).

Option A, B, D, and E are all incorrect because they don't follow the syntax rules described in the response for answer Option C.

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[#]

```
public class MyOuter
{
    public static class MyInner
    {
        public static void foo() { }
    }
}
```

which statement, if placed in a class other than MyOuter or MyInner, instantiates an instance of the nested class?

■ MyOuter.MyInner m = new MyOuter.MyInner();
■ MyOuter.MyInner mi = new MyInner();
<pre>MyOuter m = new MyOuter(); MyOuter.MyInner mi = m.new MyOuter.MyInner();</pre>
MyInner mi = new MyOuter.MyInner();
Your Answer: Option ®

Explanation:

Correct Answer: Option (R)

MyInner is a static nested class, so it must be instantiated using the fully-scoped name of MyOuter.MyInner.

Option B is incorrect because it doesn't use the enclosing name in the new.

Option C is incorrect because it uses incorrect syntax. When you instantiate a nested class by invoking new on an instance of the enclosing class, you do not use the enclosing name. The difference between Option A and C is that Option C is calling new on an instance of the enclosing class rather than just new by itself.

Option D is incorrect because it doesn't use the enclosing class name in the variable declaration.

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[#]

14. What will be the output of the program?

```
t.start();
        g.start();
    }
}
class Foo
    int x = 5;
    public void doStuff()
        if (x < 10)
        {
            // nothing to do
            try
            {
                wait();
                } catch(InterruptedException ex) { }
        }
        else
        {
            System.out.println("x is " + x++);
            if (x >= 10)
                notify();
        }
    }
}
```

The code will not compile because of an error on notify(); of class Foo.

B The code will not compile because of some other error in class Test.

🔲 🕲 An exception occurs at runtime. 🤡

① It prints "x is 5 x is 6".

Your Answer: Option (Not Answered)

Correct Answer: Option ©

Explanation:

C is correct because the thread does not own the lock of the object it invokes wait() on. If the method were synchronized, the code would run without exception.

A, B are incorrect because the code compiles without errors.

D is incorrect because the exception is thrown before there is any output.

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[#]

15. Which statement is true?

All objects that are eligible for garbage collection will be garbage collected by the garbage collector.
Objects with at least one reference will never be garbage collected.
Objects from a class with the finalize() method overridden will never be garbage collected.
 Objects instantiated within anonymous inner classes are placed in the garbage collectible heap.
Your Answer: Option (Not Answered)
Correct Answer: Option (1)
Explanation:
All objects are placed in the garbage collectible heap.
Option A is incorrect because the garbage collector makes no guarantees.
Option B is incorrect because islands of isolated objects can exist.
Option C is incorrect because finalize() has no such mystical powers.
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[#]
16. Which statement is true?
Memory is reclaimed by calling Runtime.gc().
■ Objects are not collected if they are accessible from live threads.
An OutOfMemory error is only thrown if a single block of memory cannot be found that is large enough for a particular requirement.
Objects that have finalize() methods always have their finalize() methods called before the program ends.
Your Answer: Option (Not Answered)
Correct Answer: Option (B)
Explanation:
Option B is correct. If an object can be accessed from a live thread, it can't be garbage collected.
Option A is wrong. Runtime.gc() asks the garbage collector to run, but the garbage collector

Option C is wrong. The garbage collector runs immediately the system is out of memory before an OutOfMemoryException is thrown by the JVM.

Option D is wrong. If this were the case then the garbage collector would actively hang onto objects until a program finishes - this goes against the purpose of the garbage collector.

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[#]

- 17. Which statement is true?
 - (R) Programs will not run out of memory.
 - **B** Objects that will never again be used are eligible for garbage collection.
 - © Objects that are referred to by other objects will never be garbage collected.
 - ① Objects that can be reached from a live thread will never be garbage collected.



Your Answer: Option (Not Answered)

Correct Answer: Option (1)

Explanation:

Option D is correct.

Option C is wrong. See the note above on Islands of Isolation (An object is eligible for garbage collection when no live thread can access it - even though there might be references to it).

Option B is wrong. "Never again be used" does not mean that there are no more references to the object.

Option A is wrong. Even though Java applications can run out of memory there another answer supplied that is more right.

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[#]

18. What will be the output of the program?

```
public class Test
    public static void main(String[] args)
    {
        int x = 0;
        assert (x > 0) ? "assertion failed" : "assertion passed" ;
        System.out.println("finished");
    }
```

```
}
    🗸 📵 finished 🛭
      © An AssertionError is thrown and finished is output.
       An AssertionError is thrown with the message "assertion failed."
Your Answer: Option (A)
Correct Answer: Option (B)
Explanation:
Compilation Fails. You can't use the Assert statement in a similar way to the ternary operator.
Don't confuse.
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                                                                                         [#]
19. What will be the output of the program?
     interface Foo141
        int k = 0; /* Line 3 */
     public class Test141 implements Foo141
         public static void main(String args[])
            int i;
            Test141 test141 = new Test141();
            i = test141.k; /* Line 11 */
            i = Test141.k;
            i = Foo141.k;
         }
     }
      (R) Compilation fails.
      B Compiles and runs ok. <</p>
      © Compiles but throws an Exception at runtime.
      O Compiles but throws a RuntimeException at runtime.
Your Answer: Option (1)
 Correct Answer: Option (B)
```

Explanation:

The variable k on line 3 is an interface constant, it is implicitly public, static, and final. Static variables can be referenced in two ways:

Via a reference to any instance of the class (line 11)

Via the class name (line 12).

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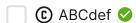
[#]

20. What will be the output of the program?

```
String s = "ABC";
s.toLowerCase();
s += "def";
System.out.println(s);
```









Your Answer: Option (A)

Correct Answer: Option ©

Explanation:

String objects are immutable. The object s above is set to "ABC". Now ask yourself if this object is changed and if so where - remember strings are immutable.

Line 2 returns a string object but does not change the originag string object s, so after line 2 s is still "ABC".

So what's happening on line 3? Java will treat line 3 like the following:

```
s = new StringBuffer().append(s).append("def").toString();
```

This effectively creates a new String object and stores its reference in the variable s, the old String object containing "ABC" is no longer referenced by a live thread and becomes available for garbage collection.

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	[#
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