

## 60 Java Technical Questions

### **1. How do you create a Reader object from an inputstream object?**

- a. use the static createReader() method of the inputstream class.
- b. use the static createReader() method of the reader class
- c. create an inputstreamreader object, passing the inputstream object as an argument to the inputstreamreader constructor.(\*)
- d. create an outputstreamreader object, passing the inputstream object as an argument to the outputstreamreader constructor.

### **2. which of the following are valid identifiers?**

- a. \_id(\*)
- b. \$id(\*)
- c. #id
- d. -id

### **3. which of the following are true?**

- a. the sleep() method puts a thread in the ready state.
- b. the yield() method puts a thread in the waiting state.
- c. the suspend() method is the preferred method for stopping a thread's execution.
- d. a thread's interrupt() method results in the throwing of the interruptedexception.(\*)

### **4. which of the following classes have a paint() method?**

- a. canvas(\*)
- b. image
- c. frame(\*)
- d. graphics

### **5. which statement creates textarea with 10 rows and 20 columns?**

- a. new TextArea(10,20)(\*)
- b. new TextArea(20,10)
- c. new TextArea(Rows(10),Cols(20))
- d. new TextArea(Row(10),Col(20))

### **6. which of the following are true?**

- a. the AWT automatically causes a window to be repainted when a portion of a window has been minimized and then maximized.(\*)
- b. the AWT automatically causes a window to be repainted when a portion of a window has been covered and then uncovered.(\*)
- c. the AWT automatically causes a window to be repainted when application data is changed.
- d. the AWT does not support repainting operations.

**7. which of the following are java keywords?**

- a. null
- b. NULL
- c. extends(\*)
- d. main

**8. which of the following thread state transitions are valid?**

- a. from ready to running(\*)
- b. from running to ready(\*)
- c. from running to waiting(\*)
- d. from waiting to running
- e. from waiting to ready(\*)
- f. from ready to waiting

**9. which of the following is not a wrapper class?**

- a. string(\*)
- b. integer
- c. boolean
- d. character

**10. which is the advantage of encapsulation?**

- a. only public methods are needed
- b. no exceptions need to be thrown from any method
- c. making the class final causes no consequential changes to other code.
- d. it changes the implementation without changing the interface and causes no consequential changes to other code.(\*)
- e. it changes the interface without changing the implementatino and causes no consequential changes to other code.

**11. which font attributes are available through the FontMetrics class?**

- a. ascent(\*)
- b. leading(\*)
- c. case
- d. height(\*)

**12. which of the following are true?**

- a. component extends container
- b. menuitem extends component
- c. container extends component(\*)

d. menucomponent extends component

13. what is the octal equivalent of the decimal value 123?

- a. 0173(\*)
- b. 123
- c. 0x123
- d. 0x173

**14. in order for the public class Myclass to successfully compile, which of the following are true?**

- a. myclass must have a correctly formed main method
- b. myclass must be defined in the file myclass.java(\*)
- c. myclass must be defined in the myclass package.
- d. myclass must be imported

**15. which of the following are true?**

- a. any unicode character is represented using 16 bits
- b. seven bits are needed to represent any ASCII character
- c. UTF-8 characters are represented using only eight bits.
- d. UTF-16 characters are represented using only 16 bits.

**16. which of the following are true about a dead thread?**

- a. the thread's object is discarded.
- b. the thread must wait until all other threads execute before it is restarted
- c. the thread cannot be restarted(\*)
- d. the thread is synchronized

**17. what is the output displayed by the following program?**

```
class question {
public static void main(String args[]) {
int n=7;
n<<=3;
n=n&n+1|n+2^n+3;
n>>=2;
System.out.println(n);
}
}
```

- a. 0
- b. -1
- c. 14(\*)

d. 64

**18. which of the following are true?**

- a. a component may handle its own events by adding itself as an even listener(\*)
- b. a component may handle its own events by overriding its event-dispatching method.(\*)
- c. a component may not handle its own events
- d. a component may handle its own events only if it implements the handleEvent() method

**19. what can contain objects that have a unique key field of string type, if it is required to retrieve the objects using that key field as an inded?**

- a. map(\*)
- b. set
- c. list
- d. collection
- e. enumeration

20. what output is displayed by the following program?

```
import java.io.*;
public class TestIOApp {
public static void main(String args[]) throws IOException{
StringReader stringin = new StringReader("test")
LineNumberReader in = new LineNumberReader(stringin);
PrintWriter out = new PrintWriter(System.out);
out.println(in.readLine());
out.flush();
}
}
```

- a. test(\*)
- b. 1. test
- c. 1: test
- d. 1 test

**21. which of the following are characteristic of a fully encapsulated class?**

- a. all variables are private(\*)
- b. all methods are private
- c. methods are provided to access the class's properties(\*)
- d. the class's design may be changed with minimal impact on its implementation

**22. which of the following are true about the finally clause of a try-catch-finally statement?**

- a. it is only executed after a catch clause has executed
  - b. it is only executed if a catch clause has not executed
  - c. it is always executed unless its thread terminates(\*)
- it is only executed if an exception is thrown

23. which layout stacks components on top of each other?

- a. cardlayout(\*)
- b. null layout
- c. borderlayout
- d. setlayout

24. which of the following components generate action events?

- a. buttons(\*)
- b. labels
- c. checkboxes
- d. windows

**25. which methods will cause a frame to be displayed?**

- a. show() (\*)
- b. setVisible() (\*)
- c. display()
- d. displayFrame()

**26. what is the range of the short type?**

- a. 0 to  $2^{16}$
- b.  $-(2^{16})$  to  $2^{16}$
- c.  $-(2^{15})$  to  $2^{15}$
- d.  $-(2^{15})$  to  $2^{15}-1$  (\*)

**27. what is the value of a[3] as the result of the following array declaration?**

`int[] a={1,2,3,4,5};`

- a.1
- b.2
- c.3
- d.4(\*)

**28. what is the output of the following program?**

```
public class question {  
    public static void main(String args[]) {  
        boolean[] b = new boolean[2];  
        double[] d = new double[2];  
        System.out.print(b[0]);  
        System.out.println(d[1]);  
    }  
}
```

- a. true0.0
- b. true0
- c. false0.0 (\*)
- d. false0

**29. what is the output of the following program?**

```
class question {  
    static int i=1,j=2;  
    static {  
        display(i);  
    }  
    public static void main(String args[]) {  
        display(j);  
    }  
    static void display(int n) {  
        system.out.print(n);  
    }  
}
```

- a. 1
- b. 2
- c. 12(\*)
- d. 21

**30. which of the following are true?**

- a. a top-level class may be declared as private
- b. a method may be declared as transient
- c. a constructor may be declared as volatile
- d. a local variable may be declared as final(\*)

**31. when two or more objects are added as listeners for the same event, which listener is first invoked to handle the event?**

- a. the first object that was added as a listener

- b. the last object that was added as a listener
  - c. there is no way to determine which listener will be invoked first.(\*)
- it is impossible to have more than one listener for a given event.

**32. which of the following are true?**

- a. a reference to an array can be cast to a reference to an object(\*)
- b. a reference to an array can be cast to a reference to a cloneable(\*)
- c. a reference to an array can be cast to a reference to a string
- d. none of the above

**33. which layout is used to layout the components of a container in a grid where each row and column are the same size?**

- a. gridlayout
- b. null layout
- c. gridbaglayout
- d. gridbagconstraintlayout

**34. what is the output of the following program?**

```
class outer {
string s = "outer";
public static void main(string args[]) {
new outer().new Inner();
}
outer() {
system.out.println(s);
}
class inner {
string s = "inner";
inner() {
system.out.print(s);
}
}
}
```

- a. outer
- b. inner
- c. outerinner(\*)
- d. innerouter

**35. what is the result of the expression 5.4 + "3.2" ?**

- a. the double 8.6
- b. the string 8.6
- c. the long value 8
- d. the string 5.43.2(\*)

**36. which are true about the container class?**

- a. the validate() method is used to cause a container to be laid out and redisplayed (\*)
- b. the add() method is used to add a component to a container (\*)
- c. the getborder() method returns information about a containers insets
- d. the getcomponent() method is used to access a component that is contained in a container (\*)

**37. which of the following are true about this method declaration?**

```
void mymethod(string s) { }
```

- a. mymethod() is static
- b. mymethod does not return a value(\*)
- c. mymethod is abstract
- d. mymethod may not be accessed outside of a package in which it is declared(\*)

**38. which lines of output are displayed by the following program?**

```
class question{
public static void main(string[] args) {
for(int i=0;i<10;i++) {
try {
try {
if (i%3==0) throw new Exception("E0");
system.out.println(i);
}
catch(exception inner) {
i *=2;
if(i%3==0) throw new exception("E1");
}
```



```
} finally {  
++i;  
}  
}  
catch(exception outer) {  
i+=3;  
} finally {  
--i;  
}  
}  
}
```

- a. 4(\*)
- b. 5(\*)
- c. 6
- d. 7
- e. 8
- f. 9

**39. if you run the following program, what lines would be included in its output?**

```
class question{  
public static void main(string args[]) {  
int i,j;  
for(i=0,j=0;i+j<20;++i,j+=i--) {  
system.out.println(i+j);  
}  
}  
}
```

- a. 5(\*)
- b. 8(\*)
- c. 13(\*)
- d. the program cannot be compiled because the for statement's syntax is incorrect.

**40. which of the following are direct or indirect subclasses of component?**

- a. button(\*)
- b. label(\*)
- c. checkboxmenuItem
- d. toolbar
- e. frame(\*)

**41. which layout is the default layout of a panel object?**

- a. gridlayout
- b. flowlayout(\*)
- c. gridlinelayout
- d. linelayout

43. which of the following are true?

- a. java only supports preemptive scheduling.
- b. java only supports time slicing.
- c. the jvm has been implemented on os that use time slicing(\*)
- d. the jvm has been implemented on os that use preemptive scheduling.(\*)

**44. what should you use to position a button within an application frame so that the size of the button is not affected by the frame size?**

- a. flowlayout(\*)
- b. gridlayout
- c. the center area of a borderlayout
- d. the east or west area of a borderlayout
- e. the north or south area of a borderlayout

**45. a catch clause may catch exceptions of which types?**

- a. throwable type(\*)
- b. error type(\*)
- c. exception(\*)
- d. string

**46. what is the value displayed by the following program?**

```
class question{
public static void main(string[] args) {
int x=0;
```

```
boolean b1,b2,b3,b4;  
b1= b2= b3= b4= true;  
x = (b1|b2&b3^b4)?x++:--x;  
system.out.println(x)  
}  
}
```

- a. 0(\*)
- b. -1
- c. 1
- d. none of the above

**47. which method is used to set the text of a label object?**

- a. setText() (\*)
- b. setLabel()
- c. setTextLabel()
- d. setLabelText()

**48. which of the following methods cause the string object referenced by s to be changed?**

- a. s.concat()
- b. s.toUpperCase(0)
- c. s.replace()
- d. none of the above(\*)

**49. in order for teh myprogram proram to be compiled and run, which of the followin must be true?**

- a. the myprogram class must be defined in myprogram.java
- b. myprogram must be declared as public
- c. myprogram must have correctly formed main() method(\*)
- d. myprogram must import java.lang

**50. which of the followin are true?**

- a. textcomponent extends textarea
- b. textarea extends textfield
- c. textfield extends textcomponent(\*)
- d. textcomponent extends textfield
- d. textarea extends textcomponent(\*)

**51. what is the value of  $111\%13$ ?**

- a. 11
- b. 5
- c. 6
- d.  $7(*)$

**52. which of the following are methods of the graphics class?**

- a. drawrect() (\*)
- b. drawimage() (\*)
- c. drawpoint()
- d. drawstring() (\*)

**53. if you run the following program, which lines would be included in its output?**

```
class question {  
public static void main(string[] args) {  
int i=1;  
int j=2;  
outer: while(i<j) {  
++i;  
inner: do {  
++j;  
if (j%3==0) continue outer;  
if (i%3==0) break inner;  
if (i%3==1) break outer;  
system.out.println(i*j);  
} while (j < i);  
system.out.println(i+j);  
}  
}  
}
```

- a. 5
- b. 6
- c.  $7(*)$
- d. the program does not display any output.

**54. what is the output of the following program?**

```
class s1{
public static void main(string[] args) {
new s2();
}
s1() {
system.out.pritn("s1");
}
}
class s2 extends s1 {
s2() {
system.out.print("s2");
}
}
```

- a. s1
- b. s2
- c. s1s2(\*)
- d. s2s1

**55. what is the range of char type?**

- a. 0 to  $2^{16}$
- b. 0 to  $2^{16}-1$ (\*)
- c. 0 to  $2^{15}$
- d. 0 to  $2^{15}-1$

**56. which of the following methods are methods of math class?**

- a. absolute()
- b. cosine()
- c. sine()
- d. log() (\*)

**57. which of the following are true about local inner classes?**

- a. they are not associated with any instance of an outer class.(\*)
- b. they may access final initialized variables and parameters that are in the scope of the statement block in which the class is declared(\*)
- c. they may be declared public, protected or private
- d. they may not implement an interface

**58. when a thread blocks on I/O, which of the following are true?**

- a. the thread enters the ready state.
- b. the thread enters the dead state
- c. no other thread may perform I/O
- d. the thread enters the waiting state(\*)

**59. what is the output of the following program when it is invoked using the command line java Test this is a test?**

```
class Test {  
public static void main(String arg[]) {  
system.out.println(arg[1]);  
}  
}
```

- a. this
- b. is(\*)
- c. a
- d. test?

**60. a frame's background color is set to color.yellow and button's background color is set to colr.blue. suppose the button is added to a panel, which is added to the frame. what background color will be used wth the panel?**

- a. color.yellow(\*)
- b. color.blue
- c. color.green
- d. color.white

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