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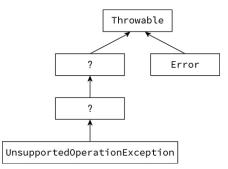
- The code does not compile because ArrayStoreException is not handled or declared in the toss() method.
- 4. The code does not compile for a different reason.
- 4. Which symbol(s) can be used to separate exception types in a multicatch statement?
- 1. &
- 2.
- 3. ||
- 1. II only
- 2. III only
- 3. II and III
- 4. I, II, and III
- 5. What is the result of executing the following application with assertions enabled?

```
1: package ice;
2: public class Igloo {
3:    public static void main(String[] bricks) {
4:        int flakes = 10;
5:        double assert = 7.0;
6:        assert (true :"");
7:        assert flakes++>5;
8:    }
9: }
```

- 1. It throws an  ${\tt AssertionError}$  at runtime.
- 2. It prints nothing at runtime.
- 3. Exactly one line of code does not compile.
- 4. Two lines of code do not compile.
- 6. Which of the following classes is a checked exception?
- 1. java.lang.Error
- 2. java.lang.IllegalStateException
- ${\it 3. java.text.ParseException}\\$
- 4. java.lang.RuntimeException
- 7. How many constructors in WhaleSharkException compile in the following class?

```
package friendly;
public class WhaleSharkException extends Exception {
  public whaleSharkException() {
    super("Friendly shark!");
  }
  public whaleSharkException(String message) {
    super(new Exception(new WhaleSharkException()));
  }
  public whaleSharkException(Exception cause) {}
}
```

- 1. None
- 2. One
- 3. Two
- 4. Three
- 8. Given the following class diagram, which two classes are missing in the hierarchy starting with the bottom and going upward?



- 1. IOException, Exception
- 2. RuntimeException, Exception
- 3. IllegalArgumentException, RuntimeException
- 4. IllegalStateException, RuntimeException
- 9. How many lines of text does the following program print?

```
package lighting;
import java.io.IOException;
public class Light {
    public void turnOn() throws IOException {
        new IOException("Not ready");
    }
    public static void main(String[] b) throws Exception {
        try {
            new Light().turnOn();
        } catch (RuntimeException b) { // y1
            System.out.printIn(b);
            throw new IOException(); // y2
        } finally {
            System.out.println("complete");
        }
    }
}
```

- 1. One
- 2. Two
- 3. The code does not compile because of line y1.
- 4. The code does not compile because of line y2.
- 10. Which statement, when inserted into the main() method of a program, guarantees an AssertionError will be thrown at runtime?
- 1. assert(0,"Invalid");
- 2.assert 0==1;
- 3. assert 0==0;
- 4. None of the above
- 11. What is the output of the following application?

- 1. This just in!
- 2. The code does not compile because of line  ${\tt r1}$ .
- 3. The code does not compile because of line r2.
- 4. The code does not compile because of line r3.

- 12. Which statement about try-with-resources is not true?
- If the try block and close() method both throw an exception, the one thrown by the close() method is suppressed.
- 2. A catch block is not required.
- If more than one resource is used, the resources are closed in the order they were created.
- 4. Parentheses are used for the resource declaration section, even if more than one resource is used.
- 13. How many lines of text does the following program print?

- 1. One
- 2. Two
- 3. Three
- 4. The code does not compile.
- 14. Which exception classes, when inserted into the blank in the  ${\tt Problems\ class}, allow\ the\ code\ to\ compile?$

- 1. Exception
- 2. MissingMoneyException
- 3. MissingMoneyException, MissingFoodException
- 1. I only
- 2. III only
- 3. I and III
- 4. I, II, and II
- 15. Which statement about Closeable and AutoCloseable is true?
- 1. AutoCloseable extends Closeable.
- 2. The close() method in a class that implements AutoCloseable cannot throw an IOException.
- 3. The close() method in a class that implements Closeable cannot throw an Exception
- ${\bf 4}.$  There is no difference; one was added for backward compatibility.
- 16. Which expression, when inserted into the blank in the following class, allows the code to compile?

```
package sun;
import java.io.*;
public class Beach {
    class TideException extends Exception {}
    public void surf() throws RuntimeException {
        try {
            throw new TideException();
        } catch (_____) {}
}
```

- 1. Exception a | RuntimeException f
- 2. IllegalStateException | TideException t
- 3. TideException | IOException i
- 4. TideException | Exception x
- 17. Which statement about a multi-catch statement is true?
- 1. The exception types must be ordered from broadest to narrowest.
- 2. The exception types must be ordered from narrowest to broadest.
- The variable of a multi-catch block with more than one exception cannot be reassigned within the block.
- 4. The variable of a multi-catch block with one exception type cannot be reassigned within the block.
- 18. Given the following class, how many lines contain compilation errors?

```
package move;
interface Closing {
    void close() throws Exception;
}
class Shelf implements Closing {
    public void close() throws Exception {}
}
public class Step {
    static {
        try (Shelf shelf = new Shelf()) {
            throws new IllegalArgumentException();
        } catch (Exception e) {
        } catch (IllegalArgumentException e) {
        } finally {
            shelf.close();
        }
    }
}
```

- 1. None
- 2. Two
- 3. Three
- 4. Four
- 19. Which of the following is not true of using a try-with-resources statement?
- Associated catch blocks are run before the declared resources have been closed.
- 2. It is compatible with all classes that implement the  ${\tt AutoCloseable}$  interface.
- ${f 3}.$  It is compatible with all classes that implement the Closeable interface.
- 4. It shortens the amount of code a developer must write.
- 20. Assuming the following application is executed with assertions enabled, what is the result?

```
package input;
public class DataIntegrity {
    private int score;
    public DataIntegrity() {
        super();
        DataIntegrity.this.score = 5;
    }
    public static void main(String[] books) {
        final DataIntegrity johnny5 = new DataIntegrity();
        assert(johnny5.score>2) : johnny5.score++;
        assert johnny5.score>5 : System.out.print("No input");
        System.out.print("Made it!");
    }
}
```

```
1. An {\tt AssertionError} is thrown with a message of 5.
```

- 2. An AssertionError is thrown with a message of No input.
- 3. Made it! is printed.
- 4. The code does not compile.
- 21. Which of the following classes is an unchecked exception?
- 1. java.io.IOException
- 2. java.io.NotSerializableException
- ${\it 3. java.sql.SQLException}$
- 4. java.util.MissingResourceException
- 22. What is the result of compiling and executing the following class?

```
package wind;
public class Storm {
   public class Storm {
    public static void main(String... rain) throws Exception {
        try (final Autocloseable weatherTracker = new Autocloseable()
        public void close() throws RuntimeException {}
    }) {
        System.out.println(weatherTracker.toString());
    } catch (Exception e) {
        if(weatherTracker != null) {
            weatherTracker.close();
        }
    } finally {
        System.out.println("Storm gone");
    }
}
```

- 1. It prints one line.
- 2. It prints two lines.
- It does not compile due to an error in the declaration of the weatherTracker resource.
- 4. It does not compile for a different reason.
- 23. Which of the following is not a command that enables or disables assertions at runtime?
- 1. -di
- 2. -disableassertions
- 3. -ea
- 4. -enableassertions
- $24. \ \mbox{What}$  is the output of the following application?

```
package signlanguage;
import java.io.Closeable;
class ReadSign implements Closeable {
   public void close() {}
   public String get() {return "Hello";}
   }
} class MakeSign implements AutoCloseable {
   public void close() {}
   public void sendString message) {
        System.out.print(message);
    }
   public class Translate {
        public static void main(String... hands) {
        try (ReadSign r = new ReadSign();
            MakeSign w = new MakeSign();) {
            w.send(r.get());
        }
    }
}
```

- 1. Hello
- 2. The code does not compile because of the  ${\tt ReadSign}$  class.
- The code does not compile because of the try-with-resources statement.
- 4. None of the above
- 25. What is the output of the following application?

```
package what;
class FunEvent implements AutoCloseable {
   public void close() {
      System.out.print("1");
   }
}
public class Happening {
   public static void main(String... lots) {
      try (FunEvent f = new FunEvent()) {
        System.out.print("2");
        throw new ArithmeticException();
      } catch (Exception e) {
        System.out.print("3");
      } finally {
        System.out.print("4");
      }
   }
}
```

- 1. 214
- 2. 2134
- 3. 2314
- 4. The code does not compile.
- 26. Which statement best describes how a class that implements the AutoCloseable interface should be written?
- 1. The close() method is optional since the AutoCloseable interface defines a default implementation.
- The close() method should avoid modifying data after it has been run once.
- 3. The close() method should not throw any exceptions.
- 4. The close() method should return a status code.
- 27. Which statement about the following program is correct?

- 1. The program prints one exception at runtime.
- 2. The program prints two exceptions at runtime.
- 3. The class does not compile because of the play() method.
- $\ensuremath{\mbox{4}}$  The class does not compile because of the  $\ensuremath{\mbox{main}}\xspace(\ensuremath{\mbox{0}}\xspace)$  method.
- 28. Which of the following is not a good use of assertions?
- 1. Check method post conditions.
- ${\hbox{\bf 2.}}\ {\hbox{\bf Modify local variables}}.$
- 3. Test control flow invariants.
- 4. Validate class invariants.
- 29. Which statement about the following application is correct?

```
package highway;
import java.io.*;
class CarCrash extends RuntimeException {}
public class Car {
  public static void main(String[] seatbelts) throws Exception {
    try {
        throw new IOException("Auto-pilot error");
    } catch (Exception | CarCrash e) { // w2
        throw e;
    } catch (Exception a) { // w3
        throw a;
    }
}
```

- 1. The code does not compile because of line w1.
- 2. The code does not compile because of line w2.
- 3. The code does not compile because of line  $\ensuremath{\mathsf{w3}}$  .
- 4. The code compiles and runs without issue.
- 30. Which statements about the following classes are true?

```
public class Dopey extends Grumpy {}
public class Grumpy extends Exception {}
public class Happy extends IOException {}
public class Sleepy extends IIlegalStateException {}
public class Sleepy extends Throwable {}
```

- $\scriptstyle\rm 1.$  Four of the classes are checked exceptions.
- 2. Two of the classes are unchecked exceptions.
- 3. None of the class declarations contain any compilation errors.
- 1. I only
- 2. I and III
- 3. II and III
- 4. I, II, and III
- 31. What is the output of the following application?

- 1. 1235
- 2, 3215
- 3. 41235
- 4. The code does not compile.
- 32. Which expression, when inserted into the blank in the following class, allows the code to compile?

```
package music;
public class Bells {
    class Player implements Autocloseable {
     @Override public void close() throws RingException {}
    }
    class RingException extends Exception {
     public RingException(String message) {}
    }
    public static void main(String[] notes) throws Throwable {
        try (Player p = null) {
            throw new Exception();
        } catch (Exception e) {
        } catch ()
    }
}
```

- 1. Error
- 2. IllegalStateException b
- $3. \; {\rm RingException} \; \; {\rm p}$
- ${\bf 4}.$  The code does not compile regardless of the expression used.

33. Given the following two variables, which assertion statement compiles successfully?

```
int age = 22;
final String name = "Josephine";

1. assert (age=2);
2. assert age!=age : (1<age ? "Error" : 10);
3. assert name.equals("") : () -> "Oops";
4. assert name.length()<(long)age : return "Mistake";</pre>
```

 $34. \ \mbox{Which}$  statement about the following program is true?

```
package tag;
class MissedCallException extends Exception {}
public class Phone {
    static void makeCall() throws RuntimeException {
        throw new ArrayIndexOutOfBoundsException("Call");
    }
    public static void main(String[] messages) {
        try {
            makeCall();
        } catch (MissedCallException e) {
            throw new RuntimeException("Voicemail");
        } finally {
            throw new RuntimeException("Text");
        }
    }
}
```

- 1. An exception is printed at runtime with Call in the message.
- 2. An exception is printed at runtime with Voicemail in the message.
- 3. An exception is printed at runtime with  ${\tt Text}$  in the message.
- 4. The code does not compile.
- 35. Which statement about the following program is correct?

```
package fairy;
public class Tale {
    class BearException extends RuntimeException {}
    class WolfException extends RuntimeException {}
    class WolfException extends RuntimeException {}
    public int tellStory() {
        try {} catch (BearException d) {
            d = new RuntimeException();
            throw d;
        } catch (WolfException | DragonException e) {
            e = new RuntimeException();
            throw e;
        }
        return 3;
    }
    public static void main(String... wand) throws RuntimeException{
            new Tale().tellStory();
    }
}
```

- 1. The class compiles and does not print anything at runtime.
- The code does not compile solely due to the first catch block in tellStory().
- The code does not compile solely due to the second catch block in tellStory().
- The code does not compile due to errors in both catch blocks in tellStory().
- 36. What is the output of the following application?

```
} finally {
        System.out.println("Song finished!");
    }
}
```

- 1. Song finished!
- 2. An exception is printed with Sour note! in the stack trace.
- 3. Both of the above
- 4. None of the above
- 37. Given the following class, which command causes the class to throw an AssertionError at runtime?

```
public class Falcon extends Exception {
  private int parsec = 12;
  public Falcon(String name) {
    super(name);
  }
  public static void main(String[] aluminum) {
    assert new Falcon(null).parsec<12;
  }
}</pre>
```

- 1. java Falcon
- 2. java -ea -da:Falcon Falcon
- 3. java -da -ea:Falcon Falcon
- 4. The code does not compile.
- 38. What is the output of the following application?

```
package db;
import java.io.*;
import java.sql.*;
public class DatabaseHelper {
   static class MyDatabase implements Closeable {
     public void close() throws SQLException {
        System.out.print("2");
     }
     public void write(String data) {}
     public String read() {return null;}
   }
   public static void main(String... files) throws Exception {
      try (MyDatabase myDb = new MyDatabase()) {
        // T000: Decide what to read/rite
    } finally {
        System.out.print("1");
    }
   }
}
```

- 1. 12
- 2. 21
- 3. The code does not compile because of the MyDatabase class.
- $\ensuremath{\mathsf{4}}.$  The code does not compile because of the try-with-resources statement.
- 39. How many lines of text does the following program print?

```
package tron;
class DiskPlayer implements AutoCloseable {
   public void close() throws Exception {}
}
public class LightCycle {
   public static void main(String... bits) {
    try (DiskPlayer john = new DiskPlayer()) {
        System.out.println("ping");
    } finally {
        System.out.println("pong");
   }
   System.out.println("return");
}
System.out.println("return");
}
```

- 1. One
- 2. Two
- 3. Three
- 4. The code does not compile.

40. Given the application below, what is the name of the class printed at line e1?

- canyon.FallenException
- ${\tt 2. java.lang.RuntimeException}$
- 3. The code does not compile.
- ${\bf 4}.$  The code compiles, but the answer cannot be determined until runtime.





NEXT ►I
Chapter 17 Use Java SE 8 Date/Time API