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QUESTION 1

Given the code fragments:

```
4. void doStuff() throws ArithmeticException, NumberFormatException, Exception {
5.   if (Math.random() > -1) throw new Exception("Try again");
6. }
```

and

```
24. try {
25.     doStuff();
26. } catch (ArithmeticException | NumberFormatException | Exception e) {
27.     System.out.println(e.getMessage()); }
28. catch (Exception e) {
29.     System.out.println(e.getMessage());
30. }
```

Which modification enables the code to print Try again?

A. Replace line 27 with: throw e;

B. Replace line 26 with: } catch (ArithmeticException | NumberFormatException e) {

C. Replace line 26 with: } catch (Exception | ArithmeticException | NumberFormatException e) {

D. Comment the lines 28, 29, and 30.

Correct Answer: B

The problem with line 26 is that alternatives in a multi-catch statements cannot be related by subclassing. Alternative ArithmeticException is a subclass of alternative Exception.

QUESTION 2

Given the code fragment:

```
public static void main(String[] args) {
     Stream.of("Java", "Unix", "Linux")
     .filter(s -> s.contains("n"))
     .peek(s -> System.out.println("PEEK: " + s))
     // line n1
}
```

Which two code fragments, when inserted at line n1 independently, result in the output PEEK: Unix? (Choose two.)

A. .noneMatch();

B. .anyMatch();

C. .allMatch();

D. .findFirst();

E. .findAny();

Correct Answer: DE

The findXXX methods, FinFirst() and findAny, take no arguments and return an Optional object with the result, or an empty Optional if nothing is found.

Incorrect Answers:

A, B, C: XXXMatch methods. Take a Predicate and return a boolean if an element in the stream returns true by applying the Predicate.

Reference: http://eherrera.net/ocpj8-notes/05-java-stream-api

QUESTION 3

Which two states are valid for a watch key? (Choose two.)

A. Does Not Exist

B. Signalled

C. Ready

D. Not Runnable

E. Runnable

Correct Answer: BC

A watch key has a state. When initially created the key is said to be ready. When an event is detected then the key is signalled and queued so that it can be retrieved by invoking the watch service\\'s poll or take methods. Once signalled, a key remains in this state until its reset method is invoked to return the key to the ready state.

Reference: https://docs.oracle.com/javase/7/docs/api/java/nio/file/WatchKey.html

QUESTION 4

Given the code fragment:

```
interface Vehicle {
     public void ride(int speed);
}
```

and

```
3. public static void main(String[] args) {
4.   Vehicle v = new Vehicle() {
5.        public void ride(int speed) {
6.             System.out.print("Fly at " + speed);
7.        }
8.   };
9.   v.ride(100);
10. }
```

Which code fragment could you see to refactor the code from line 4 to 8 to use a Lambda expression?

A. Vehicle v = new Vehicle(int speed) { System.out.print("Fly at " + speed););

B. Vehicle v = int speed -> System.out.print("Fly at " + speed);

C. Vehicle v = (int speed) -> System.out.print("Fly at " + speed);

D. Vehicle v = speed -> {System.out.print("Fly at " + speed) };

Correct Answer: C

QUESTION 5

Given:

```
class Worker extends Thread {
    CyclicBarrier cb;
    public Worker (CyclecBarrier cb) { this.cb = cb; }
    public void run() {
        try {
            cb.await();
            System.out.println("Worker…");
        } catch (Exception ex) { }
    }
}

class Master implements Runnable { // line n1
    public void run() {
        System.out.println("Master…");
    }
}
```

and the code fragment:

```
Master master = new Master();
// line n2
Worker worker = new Worker(cb);
worker.start();
```

You have been asked to ensure that the run methods of both the Worker and the Master classes are executed. Which modification meets the requirement?

A. At line n2, insert CyclicBarrier cb = new CyclicBarrier(master);

B. At line n2, insert CyclicBarrier cb = new CyclicBarrier(1);

C. At line n2, insert CyclicBarrier cb = new CyclicBarrier(2, master);

D. At line n2, insert CyclicBarrier cb = new CyclicBarrier(1, master);

Correct Answer: D

```
public CyclicBarrier(int parties,
        Runnable barrierAction)
```

Creates a new CyclicBarrier that will trip when the given number of parties (threads) are waiting upon it, and which will execute the given barrier action when the barrier is tripped, performed by the last thread entering the barrier.

Parameters:

parties - the number of threads that must invoke await() before the barrier is tripped

barrierAction - the command to execute when the barrier is tripped, or null if there is no action

Reference: https://docs.oracle.com/javase/7/docs/api/java/util/concurrent/CyclicBarrier.html