

Answers to Self-Study Questions

Test Yourself #1

What is printed for each of the four runs?

1. d caught Ex1
2. c caught Ex2
b caught Ex1
3. b caught Ex3
4. a caught Ex4
execution stops due to uncaught exception Ex1 thrown in main

Test Yourself #2

Question 1:

```
static void g() throws Ex1, Ex3 {
    try {
        f();
    } catch (Ex1 ex1) {
        System.out.println("Ex1 caught");
    } catch (Ex2 ex2) {
        System.out.println("Ex2 caught");
        throw new Ex1();
    }
}
```

Question 2:

Part A:

- A. f(0, X, "hi")
nothing printed
an uncaught `ArithmeticException` is thrown
- B. f(10, X, "")
prints "in finally clause"
an uncaught `StringIndexOutOfBoundsException` is thrown
- C. f(10, X, "bye")
prints "array error", "in finally clause"
an uncaught `InternalError` is thrown
- D. f(10, X, null)
prints "null ptr", "in finally clause", "after try block"

Part B: Function `f` doesn't need to have a throws clause that lists the uncaught exceptions that it might throw because only uncaught **CHECKED** exceptions need to be listed in a method's throws clause. The uncaught exceptions that `f` might throw are all **UNCHECKED** exceptions.