

CS302 Exception Tracing Exercise

4/24/13

Consider the ExceptionTracing class on the following page. What would be the results of each of the following method calls? For each method call, show the text that would be printed, and note if the call throws an exception.

Call: `ExceptionTracing.methodA(-1);`

Call: `ExceptionTracing.methodA(1);`

Call: `ExceptionTracing.methodA(2);`

```
public class ExceptionTracing {
    public static void methodA(int x) {
        try {
            methodB(x);
            methodC(x + 2);
        } catch (NullPointerException e) {
            System.out.println("A");
        }
    }

    public static void methodB(int x) {
        methodD(x);
        try {
            methodC(x);
        } catch (RuntimeException e) {
            System.out.println("B");
        }
    }

    public static void methodC(int x) {
        try {
            methodD(x + 1);
        } catch (IndexOutOfBoundsException e) {
            System.out.println("C");
            throw e;
        }
    }

    public static void methodD(int x) {
        switch (x) {
            case 2:
                throw new IndexOutOfBoundsException();
            case 3:
                throw new NullPointerException();
        }
        System.out.println("D");
    }
}
```