

Exception Handling Examples
CS 430 Spring 2015 – Lam

```
public class ExceptionEx1 {  
    class MyException extends Exception {}  
  
    public static void main(String[] args) {  
        (new ExceptionEx1()).foo();  
    }  
  
    public void foo() {  
        System.out.println("foo");  
        try {  
            bar(7);  
            bar(42);  
        }  
        catch(Exception e) {  
            System.out.println("fubar");  
        }  
    }  
  
    public void bar(int i) throws MyException {  
        System.out.println("bar - open");  
        try {  
            if (i > 10) {  
                throw new MyException();  
            }  
        }  
        finally {  
            System.out.println("bar - close");  
        }  
        baz();  
    }  
  
    public void baz() {  
        System.out.println("baz");  
    }  
}
```

```

public class ExceptionEx2 {
    class MyException extends Exception {}

    public static void main(String[] args) {
        (new ExceptionEx2()).alpha();
    }

    public void alpha() {
        System.out.println("alpha");
        try {
            gamma("0");
        }
        catch(Exception e) {
            System.out.println("tomato");
        }
        finally {
            beta();
        }
    }

    public void beta() {
        System.out.println("beta");
        try {
            gamma("x");
        }
        catch(NumberFormatException e) {
            System.out.println("pear");
        }
        finally {
            System.out.println("peach");
        }
    }

    public void gamma(String s) {
        System.out.println("gamma");
        try {
            Integer.parseInt(s);
            throw new MyException();
        }
        catch(MyException e) {
            System.out.println("lemon");
            throw new RuntimeException();
        }
        finally {
            System.out.println("apple");
        }
    }
}

```

(this example is based on a lab originally written by Dr. Ralph Grove)