Bounded Stack Component

Testing Exceptions

```
The @Test annotation's expected
parameter declares that the test
                                              "class" is required.
method should throw an exception.
 @Test(expected=IllegalStateException.class)
 public void testPushOntoFullStack() {
                                              The capacity of this stack
      stack ABC 6.push("D");
                                              is 6, so we push 3 more
      stack_ABC_6.push("E");
                                              elements to fill it.
      stack_ABC_6.push("F");
                                              This is where the ISE
      stack_ABC_6.push("X");
                                              should be thrown.
     fail(); ←
                                              If we get to this line,
                                              the test has failed.
 @Test(expected=IllegalArgumentException.class)
 public void testPushNullOntoStack() {
      stack_ABC_6.push(null);
     fail();
```

Use runtime exceptions to indicate programming errors.

Effective Java, 3rd ed. Item 70
Use checked exceptions for recoverable conditions and runtime exceptions for programming errors