

Week 8

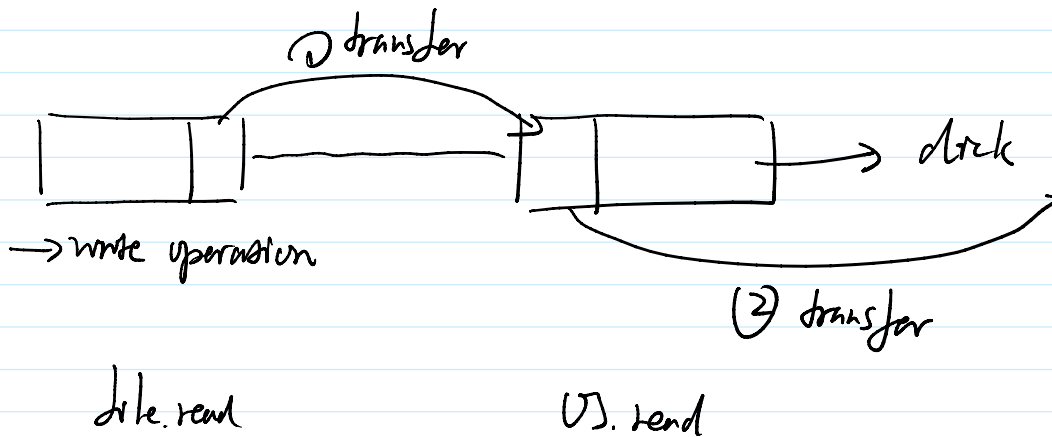
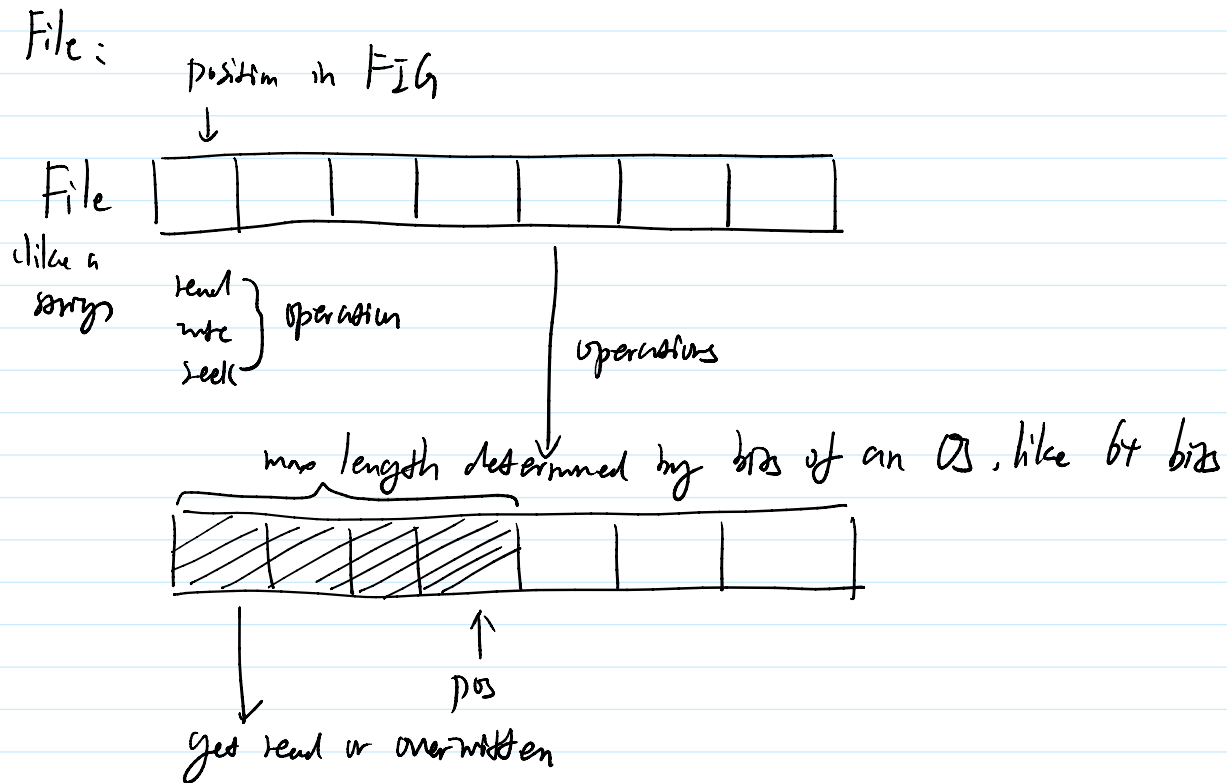
Tuesday, October 6, 2020 2:54 PM

try...catch...finally 成本太高

如果不是必须handle的exception的情况, 尽量不用, 比如:

如果 $1/j$, $j = 0$, 可以检查非零, 而不是catch exception

P202 的 example; exception不是method的feature, 所以override不会需要throw同样的exception, 或者需要处理同样的异常



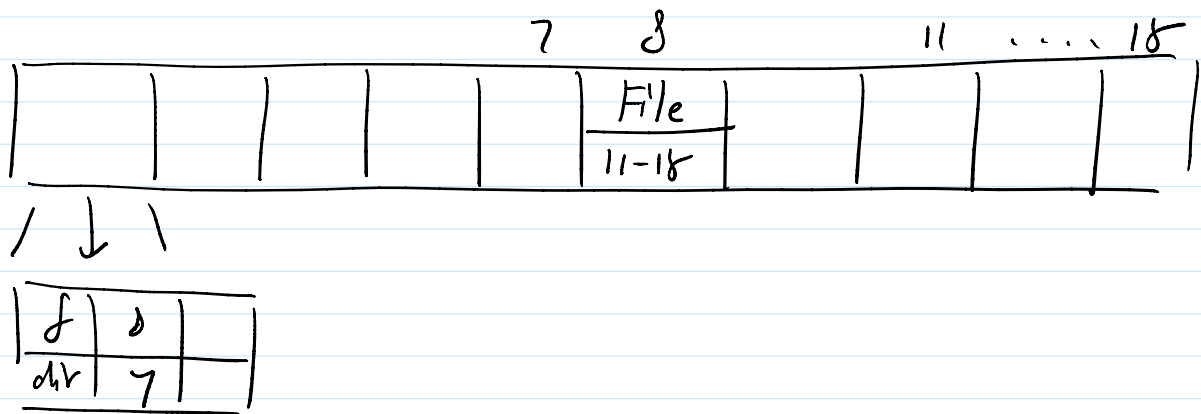
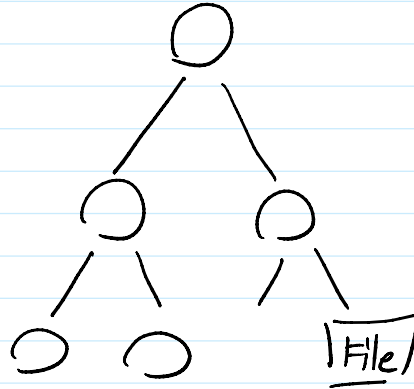
Write to disk will not happen right away until the buffer is full, b/c writing to physical medium right after the buffer has something, but not full, is very expensive. This operation would cause an interrupt.

The difference between Write and InputStream:

Write: Interpretation to human (using characters);

InputStream: don't care about interpretation to human (using bytes)

Files system: (like a tree)



System.out.println() - buffered;
System.err.println() - not-buffered;

mixed-use of them will not guarantee the print order organized by the programmer. Generally, not-buffered is faster than buffered.

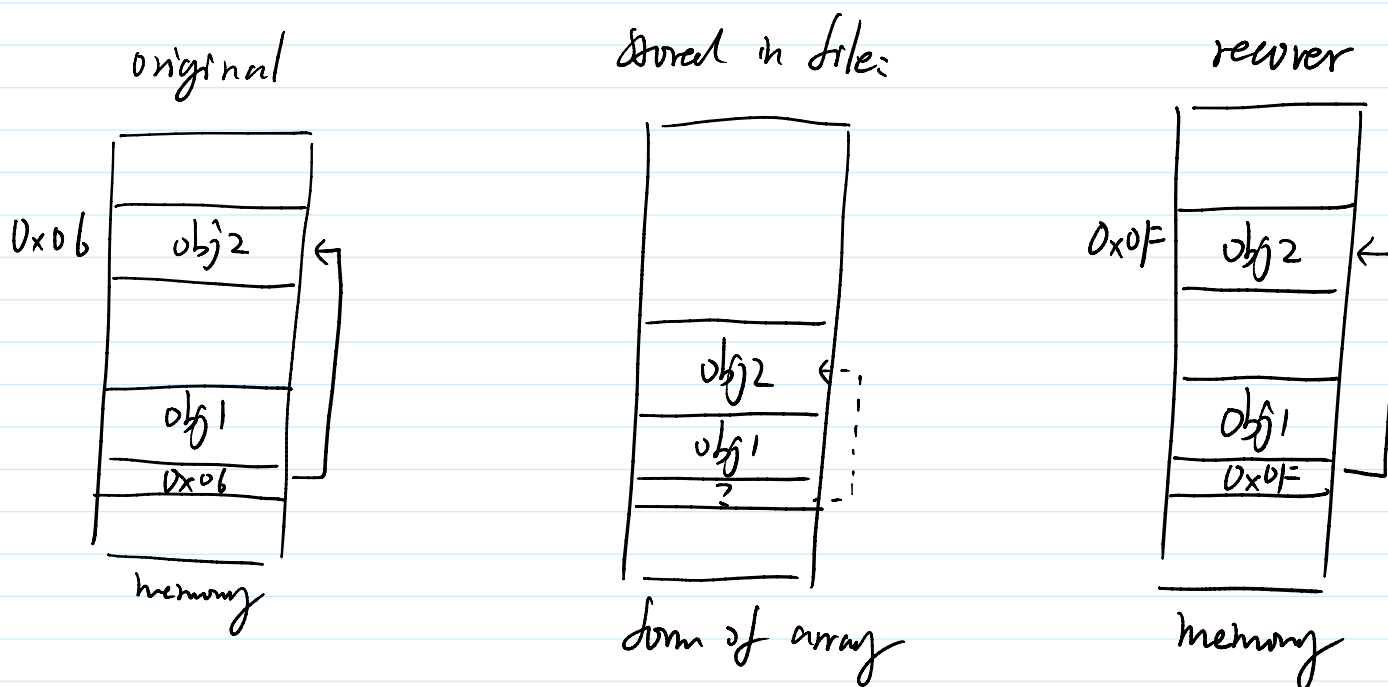
Try with resource:

try block cannot use if statement, but can use ? :

Hw 7:

Java Class: GZIPInputStream;
implements: Closeable, AutoCloseable;
extends:InflaterInputStream;

Serialization model:



```
SplittableListSolution.java:4: warning: [serial] serializable class SplittableListSolution has no definition of serialVersionUID
public class SplittableListSolution<T> extends Vector<T> {
    ^
SplittableListSolution2.java:6: warning: [serial] serializable class SplittableListSolution2 has no definition of serialVersionUID
public class SplittableListSolution2<T> extends Vector<T> {
    ^
```

解决方法:

The serialization runtime associates with each serializable class a version number, called a `serialVersionUID`, which is used during deserialization to verify that the sender and receiver of a serialized object have loaded classes for that object that are compatible with respect to serialization. If the receiver has loaded a class for the object that has a different `serialVersionUID` than that of the corresponding sender's class, then deserialization will result in an `InvalidClassException`. A serializable class can declare its own `serialVersionUID` explicitly by declaring a field named "`serialVersionUID`" that must be static, final, and of type long:

```
ANY-ACCESS-MODIFIER static final long serialVersionUID = 42L;
```

<https://docs.oracle.com/en/java/javase/12/docs/api/java.base/java/io/Serializable.html>

CompareTo 和 Comparator 的区别: (week8 的Recitation)

1. CompareTo: 需要修改比较类的code, 实现compareTo();
2. Comparator: 不需要修改比较类的code就可以比较