

 Text file: an example

 [unix: od -w8 -bc <file>]

 [http://www.muquit.com/muquit/software/hod/hod.html for a Windows tool]

 127
 smiley

 faces

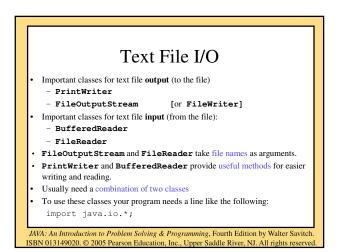
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 155
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 154

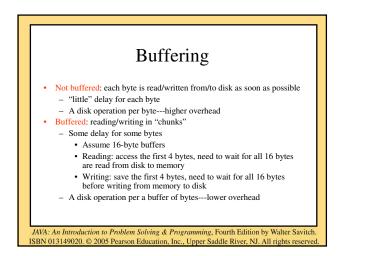
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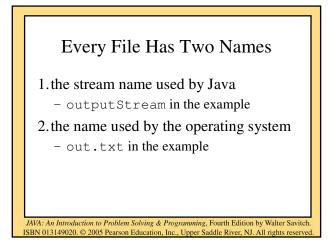
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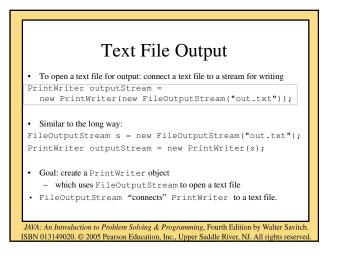
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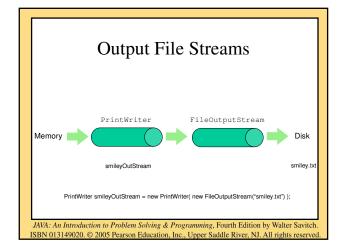
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L	0000020	000	063	007	000	064	010	000	065					
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	IAVA: An Intro													
15	SBN 0131490	20. C	2005	Pear	son E	ducat	ion, I	nc., U	pper S	addle F	liver, N	J. All	rights	reserved.

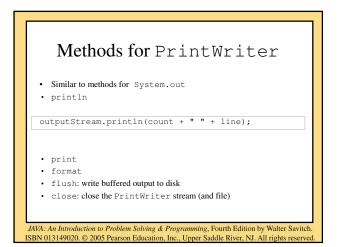


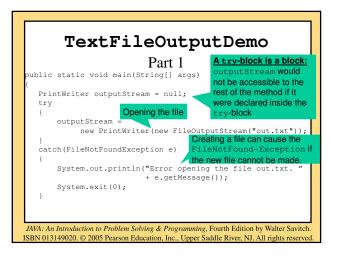


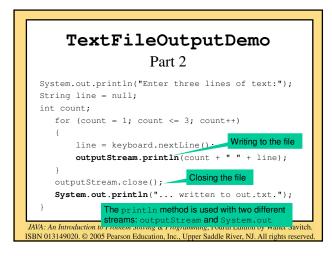


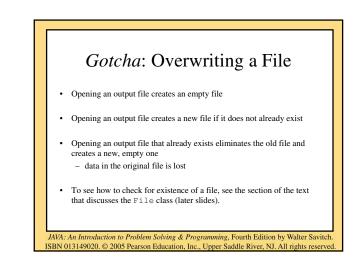


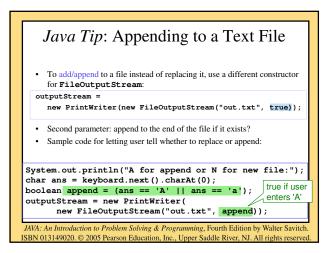


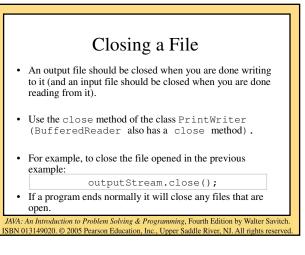


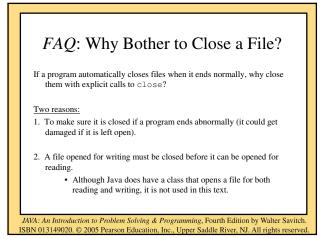


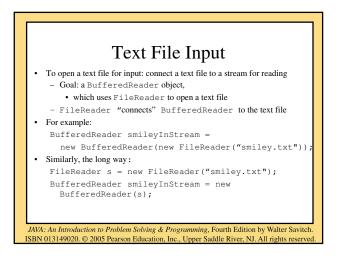


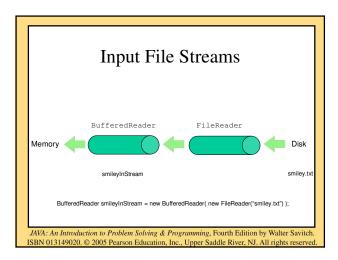


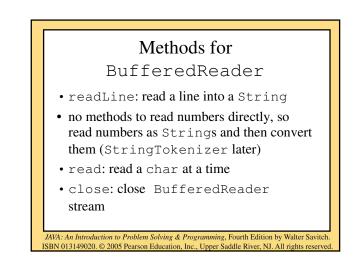


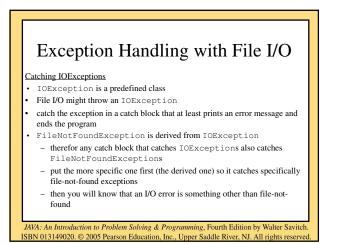


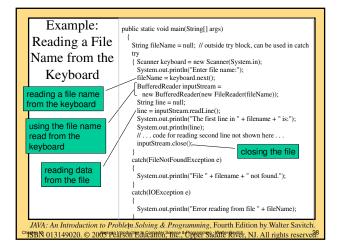




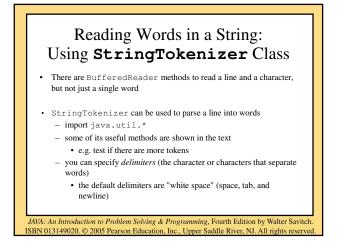


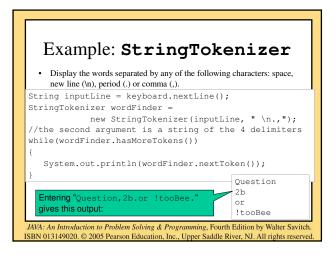


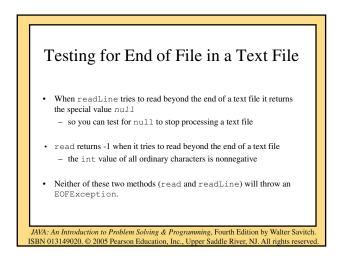


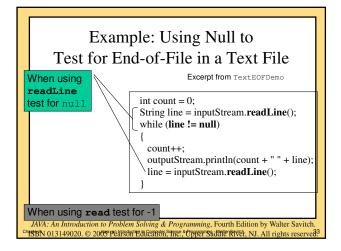


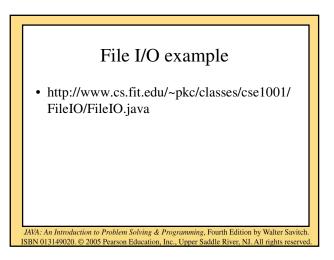


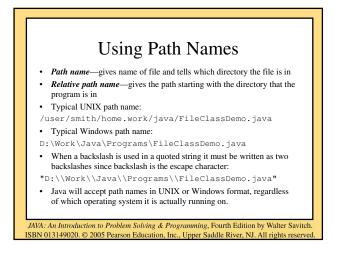


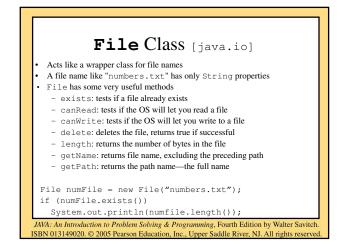


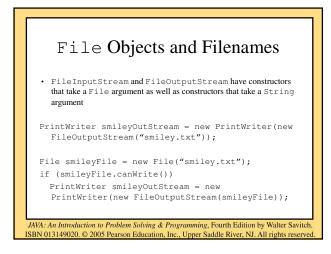


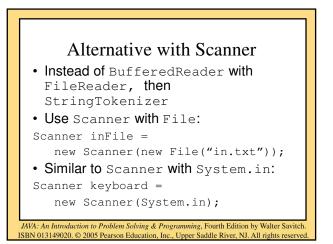


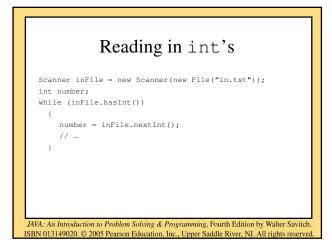


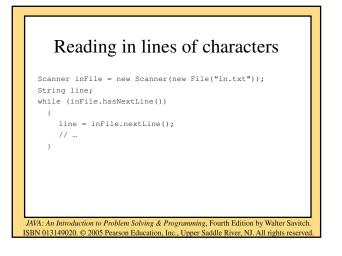


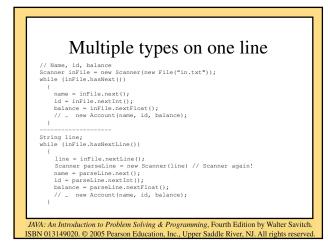


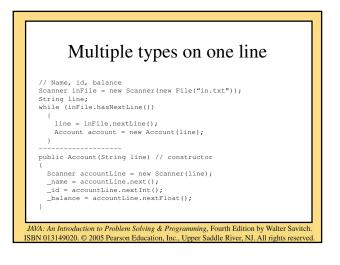


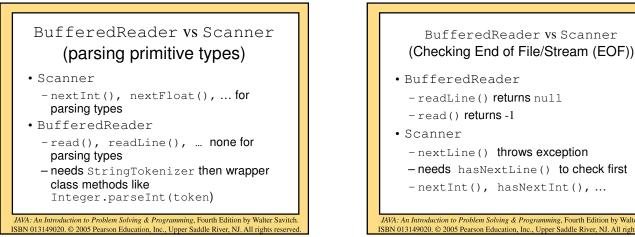








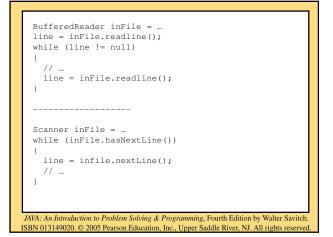


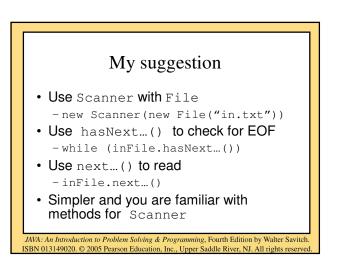


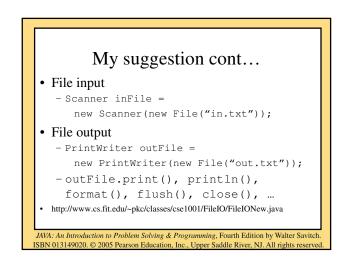


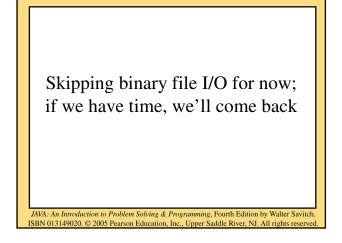
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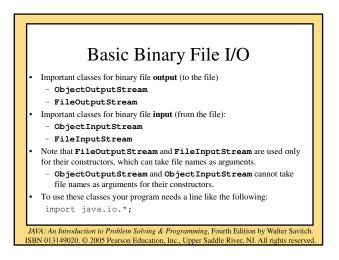
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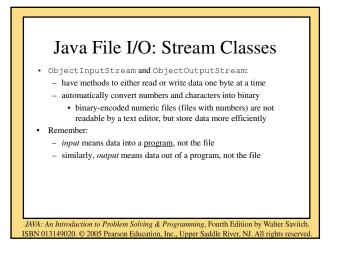












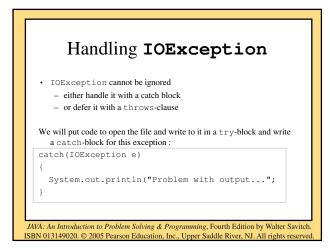
When Using **ObjectOutputStream** to Output Data to Files:

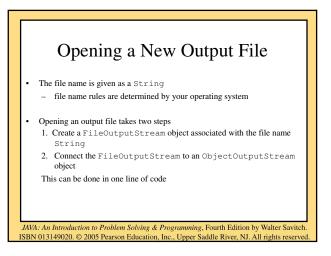
- The output files are binary and can store any of the primitive data types (int, char, double, etc.) and the String type
- The files created can be read by other Java programs but are not printable
- The Java I/O library must be imported by including the line: import java.io.*;
 - it contains ObjectOutputStream and other useful class definitions

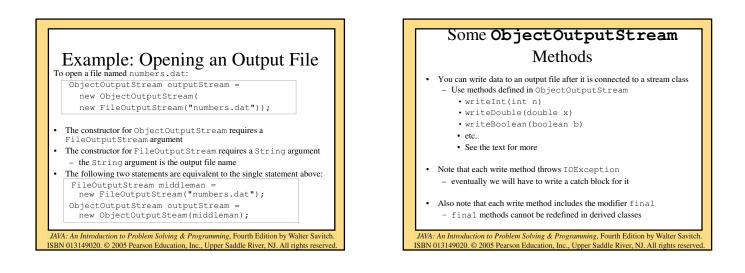
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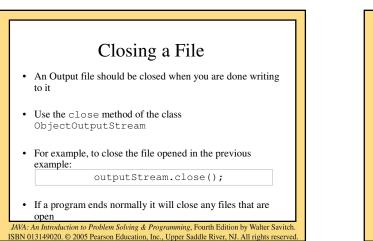
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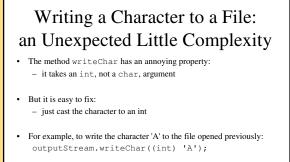
• An IOException might be thrown











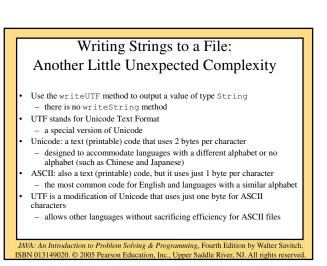
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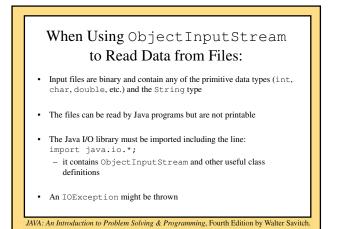
· Or, just use the automatic conversion from char to int

Writing a boolean Value to a
 File
 boolean values can be either of two values, true or
 false
 true and false are not just names for the values, they
 actually are of type boolean
 For example, to write the boolean value false to the
 output file:
 outputStream.writeBoolean(false);

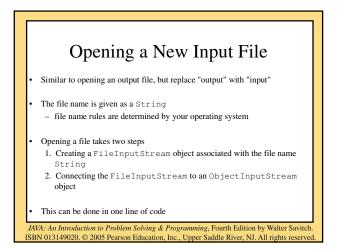
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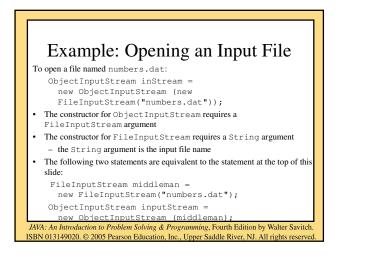
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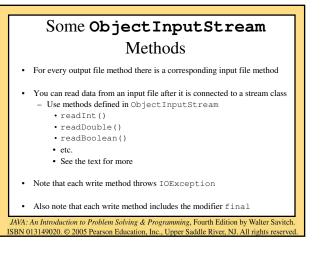


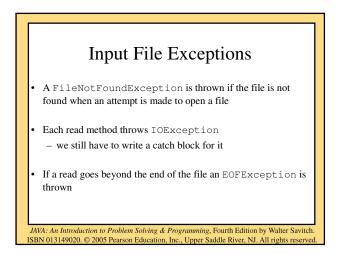


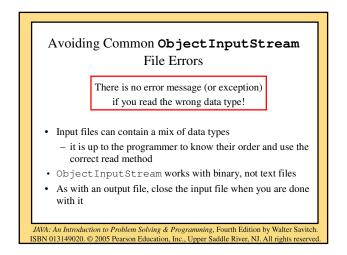
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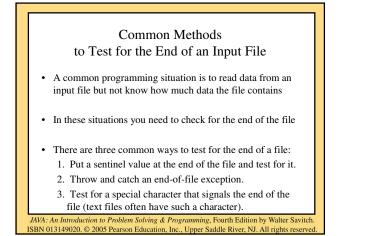


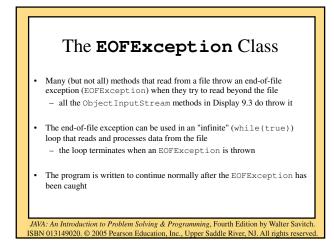


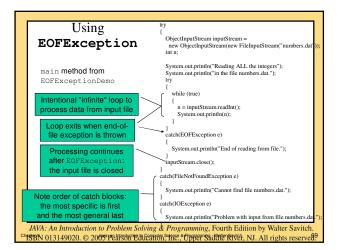


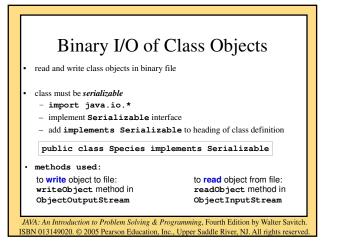


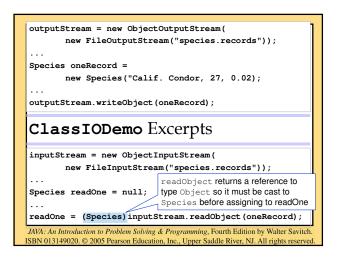


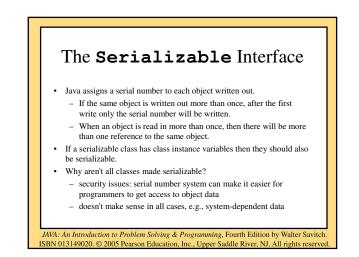












Summary

Part 1

- *Text files* contain strings of printable characters; they look intelligible to humans when opened in a text editor.
- *Binary files* contain numbers or data in non-printable codes; they look *un*intelligible to humans when opened in a text editor.
- Java can process both binary and text files, but binary files are more common when doing file I/O.
- The class ObjectOutputStream is used to write output to a binary file.

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Summary Part 2 The class ObjectInputStream is used to read input from a binary file. Always check for the end of the file when reading from a file. The way you check for end-of-file depends on the method you use to read from the file. A file name can be read from the keyboard into a String variable and the variable used in place of a file name. The class File has methods to test if a file exists and if it is read- and/or write-enabled.

• Serializable class objects can be written to a binary file.

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