Files and Streams	
4-22-2003	
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□ □ enin□ □ is□ ssi□ n	
Do you have any questions about the	
quiz?  What did we talk about last class?	
Do you have any questions about the	
assignment?	
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□ □ti□ati□n	
□ □he o□the most im □o□tant things we do	
on com⊡ite⊡ is sto⊡ and access la⊡e collections o⊡data□□y□ically this is done	
with ⊞es□ □ ∐e access comes in two ⊞avo⊡□andom	
and sequential □ □les o □the latte □ty □e a □	
olten called st@ams□la a st@am the basic oleation is to get ollut the nela	
byte o⊡data⊡though mo⊡ elabo⊡te wa⊡escan be ⊡t a⊡ound that□	

□a□a□i□ □a□□a□e	
I he no hal way o doing in ava is with the classes in the avalo ackage  I his ackage has an elaboate class hie achy with di lacent classes that by the di lacent class almost eve thing you want to do  I he a a also some s ecial classes that andom ccess le class like the andom ccess le class	
n□□tStreams and	]
□ □t□□tStreams	
□ The most basic classes in Tava To a Tale the  □ Tale Tale Tale Tale Tale Tale Tale Tale	
with st⊡ams o⊡bytes□ □ □etsslook in the documentation to see the	
methods o⊡these classes□□he most signitant ones a  the  ad and wte methods though the othe  can be	
im _o [fant [o □di [Je]ent tasks□	
Streams □s□	
□ eadersⅢ riters	•
■ The stream classes handle reading and writing bytes To Te Te data it can be	
easie⊡to @ad and witte chalacte⊡data□□his inctionality is included by the included witte□classes□□	
■ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	
it could be hel⊡idl□	

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□ □ o□these classes have multi□e subclasses to give you mo⊡ s□eci⊡c abilities□We can look at these in the	
docs□ I □le ve⊡ions □□□□□with □les□	
I □□e versions ta□□□□with tiles□ I □□ed versions ta□connecting di□elant steams□	
I □u⊞ed steams o□□bette□s ded□ I Data and obect steams we will discuss ne⊡	
class	
	1
│ │ □ asi□ □ e□t □n□□t□	
■ □ne thing that you might notice is missing is the ability to do basic te□ in□ut□We	
can do te⊡í out⊡ut with a □iintWiiteⅢbut	
theஞ is no equivalent @□n⊡ut in @va□ ☐ ☐his design decision was based on the	
idea that ⊡og⊡ams ⊡ely need to do gene⊡al te⊡ i∐e @ading□□so⊡it is i∭y	-
easy ဩ□us to w[ifte ou□bwn □unctions ဩ□	
doing this□	
	1
□□e File □ lass	
□ Che othe Chel Celclass in Cava Co is the Cle class Chis class Celclesents a scecic Cib Cibe	
and allows us to get in⊡⊡hation about Шes□⊞is w⊞tten in a way to be la⊡gely	
□at⊡om inde⊡endent□	
■ ☐his class also gives us the basic ☐nctionality that we would like to have	
when inte⊡acting with Шes□	

□ File □ □ □ ser	
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□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
■ We will also use some ☐le obिects even	
though we could avoid them□	
□ in□te □ ssa□	
■ Why is inhelitance used so much in the avalid cackage? Low might having it	
woll that way hel  you in you  □	
■ 🕒 🕒 🕒 Lemembe 🗆 That design 🗆 is due on	
□ hu sday □	