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You spotted the diamond operator Exploring the java.util API, List and Collections In the "Real-World"[™] there are lots of ways to sort "Natural Ordering," what Java means by alphabetical But now you need Song objects, not just simple Strings Changing the Jukebox code to use Songs instead of Strings It won't compile! The sort() method declaration Generics means more type-safety Learning generic METHODS Here's where it gets weird... Revisiting the sort() method In generics, "extends" means "extends or implements" Finally we know what's wrong... The Song class needs to implement Comparators Just the code that matters What do we REALLY need in order to sort? Enter lambdas! Leveraging what the compiler can infer Where did all that code go? Some interfaces have only ONE method to implement Updating the Jukebox code with lambdas Reverse Engineer Uh-oh. The sorting all works, but now we have duplicates... We need a Set instead of a List The Collection API (part of it) Using a HashSet instead of ArrayList What makes two objects equal? How a HashSet checks for duplicates: hashCode() and equals() If we want the set to stay sorted, we've got TreeSet What you MUST know about TreeSet elements MUST be comparable We've seen Lists and Sets, now we'll use a Map Creating and filling collections Convenience Factory Methods for Collections Finally, back to generics Using polymorphic arguments and generics Using the method's generic type parameter Exercise BE the Compiler, advanced Exercise Solution 12. Lambdas and Streams: What, Not How: Lambdas and Streams 13. Risky Behavior: Exception Handling 14. A Very Graphic Story: Getting Gui 15. Work on Your Swing: Using Swing 16. Saving objects (and Text): Serialization and File I/O Capture the beat Saving state Writing a serialized object to a file Data moves in streams from one place to another What really happens to an object when it's serializable, implement Serializable, gotcha Using the serialVersionUID Object Serialization Writing a String to a Text File Text file example: e-Flashcards Quiz Card Builder (code outline) The java.io.File class Reading from a text file Quiz Card Player (code outline) The java.io.File class Reading from a text file Quiz Card Player (code outline) The java.io.File class Reading from a text file Quiz Card Builder (code outline) Finally, a closer look at finally Remember, finally ALWAYS runs!! Finally, a closer look at finally, cont. There IS a better way! The try-with-resources (TWR), statement Autocloseable, it's everywhere you do I/O Code Kitchen Saving a BeatBox pattern Can they be saved? Exercise True or False Code Magnets Exercise Solutions True or False Code Magnets 17. Make a Connection: Networking and Threads 18. Dealing with Concurrency Issues: Race Conditions and Immutable Data A. Final BeatBox server program Final BeatBox server program B. The top ten-ish topics that didn't make it into the rest of the book... Index Authors of Head First Java and Creators of the Head First series Co-author of Head First Java, 3rd Edition