≡ C CS61B Textbook

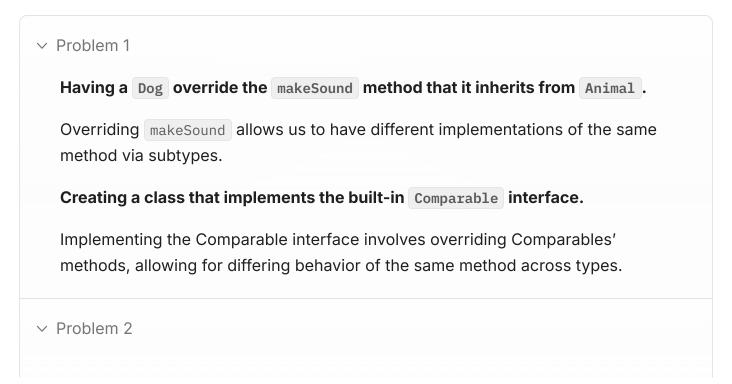


11.6 Exercises

Exercises

1.	Which of the following are examples of subtype polymorphism?
	Having a sqrt(int) and sqrt(double) method in the same class.
	Having a Dog override the makeSound method that it inherits from Animal.
	Creating a class that implements the built-in Comparable interface.
2.	How would you compare two strings alphabetically in Java?
3.	Suppose we correctly define a Comparator class called SixComparator for integers
	that compares them based on the number of 6 s they contain. What will the code
	(new SixComparator()).compare(12345678, 45666678) return?
4.	What is the main difference between the Comparable and Comparator interfaces?

Solutions



s1.compareTo(s2)

Problem 3

It will return some negative number, since 12345678 has less 6 's than 45666678. Note that there is no guarantee of what the negative number's value is, only that it is less than 0.

Problem 4

An object that implements Comparable can compare another object to itself, whereas a Comparator compares two objects other than itself.

A good way to remember this is that a Comparable has an inherent property of being able to be compared, while a Comparator is an external source of truth.

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12. Inheritance IV: Iterators, Object Methods

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