



s.equals(t) = t.equals(s) public class Strings { of s. t. sb and tb now public static void test (String [] args) { String s = new String ("hello"); TAI a) s == t String t = new String ("hello"); StringBuffer sb = new StringBuffer ("he"); b) s1 == t1 TP StringBuffer tb = sb; c) s == s1 $T_{...}$ d) s.equals (t) TALSE String s1 = "hello"; String t1 = "hello"; e) sb == tb f) t.equals (tb) FALSE sb.append ("llo"); tb.append (" goodbye!"); boolean equals (Objed) --- s.concat (" goodbye!"): t = s.concat (" goodbye!"); hello goodbye } } SB hei goodh <u>د ا</u> "hello" tb لاد a "hello goodbud pello S

Java Language Specification (Section 3.10.5: String Literals)

Each string literal is a reference $(\S4.3)$ to an instance $(\S4.3.1, \S12.5)$ of class String $(\S4.3.3)$. String objects have a constant value. String literals-or, more generally, strings that are the values of constant expressions $(\S15.28)$ -are "interned" so as to share unique instances, using the method String.intern.

Summary

Java sacrificed simplicity and coherence for performance: primitive types are not Objects **Cost:** programmers have to think about stack, heap, semantics differences **Benefit:** saves memory, perhaps better performance, more like C/C++ PS2: Part I posted now; Part II posted later. Reading before next class: Chapters 3 and 9