ARAAYCOPY SYNTAX public static void Array Copy (source array, source Pos, dest-arr, dest-pos, le) JUNIT (TESTING assert Equals (expected, actual) assert False (condition) assert Array Equals assert not null (object), assertsame (object expected, object actual), assert not same() ITERATION INTERFACE CASTING RULES YOU CAN'T DOWNCAST AN OBJECT Public interface Herable CT7 { UNLESS THE ACTUAL TYPE OF THE OBJECT IS WHAT IT'S BEING CAST TO. CASTING CHANGES THE STATIC Iterator LT> iterator() Deblic interface Herdfor LES TYPE OF AN OBJECT (FOR THE COMPILER'S SAME) { boolean has Next () COMPARISONS THE COMPARABLE INTERFACE ONLY ALLOWS E hext () FOR COMPARISON BY ONE ASPECT. COMPARATOR OBJECTS Void remove () CAN BE MANY, SO FOR EXAMPLE, A "PLAYER" CHASS 11 removes current item 3 CAN HAVE RANK COMPARATOR, SIZE COMPARATOR INHERITANCE + CONSTRUCTORS SUBCLASSES DO NOT INHERIT CONSTRUCTORS. SUBCIASS CONSTRUCTORS MUST BEGIN WITH A CALL TO A PARENT CONSTRUCTOR BUT THIS IS ALWAYS AUTOMATICALLY DONE (WITH THE NO-ARGS CONSTRUCTOR) THIS IS EXPLICITLY SOLVED BY EXPLICITLY CALLING Super constructor (args). TYPING STUFF COMPILER ONLY SEES STATIC TYPE, RUNTIME CASTIN & ERRORS OCCUR WHEN A CAST IS PLAUSIBLE, BUT ACTUALLY IMPROPER. STATIC CLASSES MUST BE ABLE TO EXECUTE THE EXACT METHOD SIGN -ATURE, OTHERWISE, COMPILER ERROR! COMPILER SEES STATIC TYPES, RUNTIME SEES ACTUAL (DYNAMIC) TYPES. FOR ARGUMENTS, WE LOOK AT STATIC TYPES. DYNAMIC TYPE OF ARGUMENTS DOESN'T MATTER. STATIC METHODS STATIC METHODS ARE NOT OVERRIDDEN. THEY ARE ONLY SELECTED BY LOCKING AT THE STATIC CLASS OBJECT OF THE CALLER. STACK MANIPULATION EXAMPLE VARIOUS REMINDERS [AND NAGS] default void purge (Item x) { if (size == 0) { return; } & ALWAYS DO A STATIC CHECK! Hem top = pop () \* FUNCTIONS VS. VARIABLE ACCESS purge (x) // remaining 4 NO ARGUMENT CHILD CONST if (! X. equals (top)) { -RUCTORS CALL SUPER() ALWAYS push (top) \* GENERIC ARRAY INSTANTIATION 15 TI] demBoiz = (IT) new Object [8] INPLACE REVERSE SLL Node prev = hull \* USE ADI METHODS INSTEAD OF Node temp = head WRITING YOUR OWN IF POSSIBLE While (temp ! = null) { & LINKED LIST DEQUE (), NOT DEQUE () Node next = temp.next INTERFACE RULES \* SEMICOLONS IF NOT PROVIDED temp.next = prev DIRECTLY INSTANTIATE A NEW YOU CAN NEVER prev = temp OBJECT AS AN INTERFACE, BUT INTERFACES CAN temp = next 1100 next BE ON THE LEFT SIDE DURING INSTANTIATION. NON DESTRUCTIVE REV (SLL) ex InterfaceV a = new Implementor class (); 1) CREATE NEW EMPTY LIST HIGHER ORDER FUNCTIONS TAKE ADVANTAGE OF IT. 2) MAKE POINTER VARIABLE & O DE Z B CALLING OWN CONSTRUCTOR FOR THE NEW EMPTY LIST & ANOTHER CONSTRUCTOR 3) ITERATE (OR THIL REC OF THE SAME CLASS -URSIVE) THROUGH BOTH & " USING this () OR LISTS UNTIL PET == hull this (PARA METERS) 4) RETURN HEAD POINTER PRIANKA SUBBAHMANYAM TO THE NEW LINKED LIST 3 CS 61B SPRING 2019 MT1