Leet Gode 36 [Valid Subku] Determine if a 9 x 9 Sudoku board is valid We need to take care of Pow, Cols and 195 Boxes. 6 98 6 3 Hospisch 8 4 we return false if is 2 3 6 28 duplicated 6 419 valid 79 We create 9 HS for Rows Colums same logis from rows 15 the Boxes 345678 01 9 hashes 00 1 Float 2 34 Formula 5 Determine number 6 8 , we chear at HS Time: 0(n2) Space 0(3n) = 0(n) ??

lection 36 (Valid Subsect Java Solutran public boolean is Valid Sudoku (char [][] board) ? Hash Set < Characters [] roows = new Hash Set [9]; HoshSet < Character>[] cols = new HoshSet [9]; HoshSet < Character>[] boxes = new HoshSet [9]; For (int r=0; r < 9; r++) + rows (1) = new thashSet < Character>() cols [1] = new Hashset < Character> (); boxes [r] = new Hash Set < Character> (); For (int r=0; r<9; r+1) {
For (int c=0; c<9; c++) { char val = board [r](c): if (val == '!') { if (rows (c) contains (val)) { return False; raus [r] add (val)-IF (cols [c] contains (val)) { return false; cols[c] add (val); int box Number = (r/3)*3 t c/3; if (boxes Obox Number) contains (val)) { return false; boxes [box Number] add (val) return true;

