CS 3305 HDV2 Drew Pulliam Consider the divisibility relation on Zt (non-negative integers) least elemat? maximal elements? 1 relator to everything Greatest element? because O is greatest it is maximal and then assume ageneral x 1 k = b for 6 ecouse 'are no other maximal xk=0 : x RO amy b elements because everything : 1 is the least element ineverything relates to relates to 0 Ti, O is the greatest element least upper bound of EB, 40,443 minimal elements? 440 is the least least upper bound is multiple of all 3 upper bound because I is the every multiple of 40 is also a multiple of 8, : count in increments of 40 least element, it is until finding a multiple of 44 also the only 40, 80, 120, 160, 200, 240, 250, 320, 360, 400, 440 minimal element greatest lower bound of E8,40,443 greatest lower bound is a factor of all 3 elements has 4 factors: 1,2,4,8 8 only 4 R B , 4 R 40, 4 R 94 4 relates to all 3 elevents it is the greatest lower bound because