Bit Manipulation Wednesday, 27 October 2021 5:31 PM Bitwise Operators: -AND -02 -xor Clear abot 1000 check a bot OR - Set a bit 231

KOR - Invert a bit 230 110010 10 128 64 Work 350 Position Load the segister from memory location 350, it will have capital case alphabet, turn it to lower case equivalent alphabet letter LOD 350 00100000 MASK. OR #32 8TO 351 100001 END OR OR LDD 350  $1 \rightarrow MASK$ . AND #223 ~ **U** 1  $\mathcal{O}$  $\bigcirc$ STO 350 END. 1 > Retain AND 97 O > Clear. AND #223 #多11611111 AND 4MD #8 DF Two's Complement: 00010100 +20 11161100 =2827 One's Complement: 00010100 +20 1 1 0 1 0 1 1 Invet + 000000001 Add 1. Load from memory Location 200 and apply one's complement to it. Store the senit back to 201. LDD 200 XOR #255 Den Bin INL 9 000 C 246 | 111 / 0110 STO 201 END. Uga Signed 00001001 0 000001 + / 19 111011 XOR 1 -> "mxent 0->1 -128 B→ Refein 0000100 XOR 11111111 7MASK 255 2 = 256 (255 Bit Shifting: Tef shif, right shift by logical shifting left shift downs 20 the more and given 15its andy x 2 80 Shre mous 12 160 until lay are in runge. 28 = 256 Integer. If mirw is ever 12 answer is Correct. If m m is odd ansum will love 0.5. Right Shiftig halves 12e mm. LSL #n Uff Shift-Right Diff. LSR #n Cyclic Shift: ABHEMATIC Shift: