Homework 5 7.10 The following program from explain how to fix it. fragment has an error in it. Identify the error and R3, R3, #30 The error is in the First line because 30 is too big of a value to be represented by the immediate value bits. LD RY, B ADD R3, R3, R4 This error will be detected when this code is occumbled. Fix: ST B3 A HALT FILL #0 .FILL #30 B 7.12 What does the following LC-3 program do? .ORIG AND R5, R5, 40 Clear R5 Clear R3 AND R3, R3, #0 ADD R3, R3, #8 LDI R1, A ADD R2, R1, #0 Put 8 in 133 load contents of A into RI Store contents of R1 into R2 AG R2, RZ, R3, R3, ADD ADD RZ to itself decrement R3 by 1 If R3 is not zero, goto AG ADO BRnp AG Leoch centerly of Binlo RY And RI and RY Not RI KND RY B RL RI. RY RI, RI, #1 BZ, RZ, RI NOT CICIA , Add I to complete 2's complement ADD ; All Rand R1 BRnp NO ADD R5, R5 HALT FILL XFF00 IT R is zero, Haltprogram. 35, R5, #1 ; Add to R5 ; HALT program Data -256 FILL X4000 Data .END

This program compares the left and the right byte of whatever is at manage location x4000. If the how bytes are the same then I is stored in R5.