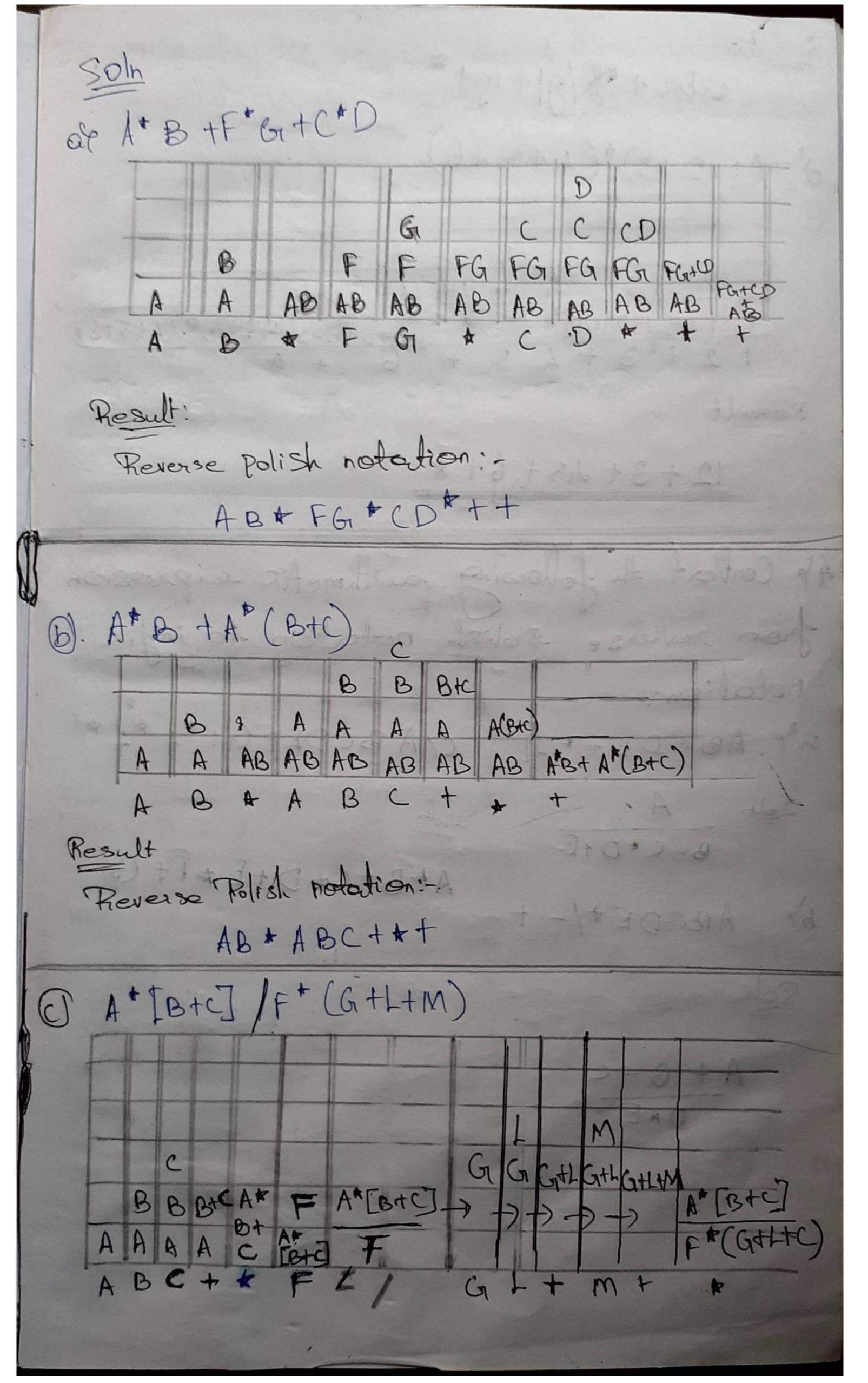
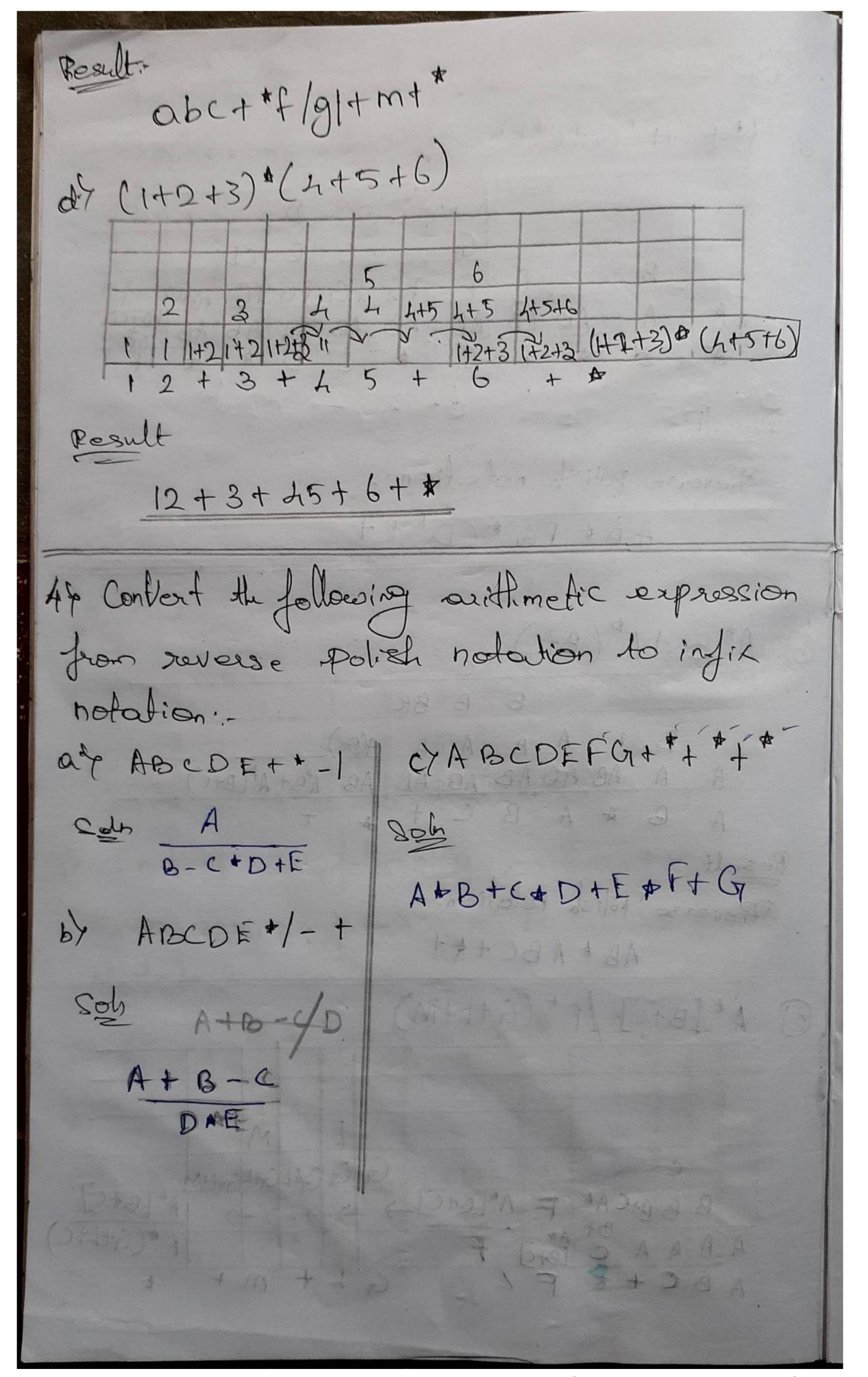
Name: G. Nithish Regno: 19BCS0012 Sub: Computer Architeture Code: CSC20011 Problem solving-I of Determine the micro operation that will be executed when the following It bit Control words are applied: Soln 0010000000001 Micko-Operation OPR SELD SELA SELB P13 - R, -R2 P13 R SUB 00000000000000 Micro-operation SELB SELA Transfer Thout None, 01001001001100 Micdo-operation SELD OPP SETB SELA R=R2DR2 P12 NOR Rn

27 Specify the control word that must be applies to the Processor to implement Le following operation. AY R4 - R4 BY R5 - 1 cy Rot Shi Ri di Rit in Put. 如如子子子(6) 1-39 一部(6) S.NO Equation SELA SELB SELD OPA Control word as Pix - Ry Ry Py COMA 100 XXX 100 01110 R5 DECA 101 XXX 101 00110 b) R5 - R5-1 R5 R6 SHLA 001 XXX 110 11000 CS PIBE Shi Pi Pi of Ry + input Input 175FA 000 XXX1110000 37 Context the following withmetic esupressins from infex to reverse polish Motation. as A*B+F*G+C*D. (AsofG*co*+) b> X*B + A*(B+C) C> A* [B+C]/F*(G+L+M) di) (1+2+3)* (4+5+6)



Scanned by TapScanner



Scanned by TapScanner

54 write the 3-address 2-address, 1-address 10-address for the given instruction ax x = (A/B)*C+B three address'. st get and the state of the Div Ri, A, B Ri + A 1B MUL RIPRIC RICRITC ADD X, R,, B X CR, TB Two address:-P, < MIA MOV R., A RI + RITMEB] P1., B Ri, CR, KRIAC MUL RI, B RI + RI + B ADD One address. ACK MIAT LOAD ACK ACTB B DIV ACK-ACKC MUL ACK ACTB B DOG W[t] + AC STORE X Zero adobres: TOSE A PUSH TOS Z B ADD TOSE AIB) C+B
POP X M[X] L- TOS PUSH TOS = (A/B) DIV TUS + C Pus1+ TOS < (A/B) +C WAT TOS - B A SOOA

Scanned by TapScanner

B 4=104B) MC-D)	9
APD RI, A, B R + MADAMIBJ Zero address	
QUB R2,C,O R2 MEJ-MED PUSH A TOS & B MUL X,R1,R2 MEJ & R, RR2 PUSH B TOS & (A+B)	
MUL X, H, Hz ADD Tosk (A+B) 2 address:- PUSH C. TOS & C	
MOV RIA RICHAMEBJ PURCH D. TOUS CO.	
Mov R2, C R2 < MED MUL TOSE (A+B)	1
MUL R_1, R_2 $R_1 \leftarrow R_1 + R_2$	
MOV X,R, MEXJER, POP X MEXJETOS 1 address!	
Load A ACA MEAT	
ADD B ACEACHMIB] - MITTI- AC	
STORE T MEDITALISMAN LOND LACE MEDITALISMAN LOND L ACE MEDITALISMAN LOND LACE MEDITALISMAN LOND LACE MEDITALISMAN LOND LACE MEDITALISMAN L	
SUB D. ACE ACAMETT	
MUL MED AMBY AC STORE MED AMBY AC	
21 State 7 907 305 305 305 305 305 305 305 305 305 305	
9-3-20T 8 4 20T4	

Scanned by TapScanner

d9 W= A+B + c + D 3 address! ADD BY, DB R, COEDHOLD A,C,D R, < MEJ + MED] RI, RI, BRICER, MES MUI RITRUA RIERT ADD m[w], R, A m[w] < 14 Zero-address instruction. Ru < MEB) Mou Ri, B RERIAMEJ PULL D TOJED RERIKMED PUSH C TOSE C TOSE DAC RIJA RICERITATION MUL ADD MOV. MEWJ, R. MEWJ & BI B Tose B PUSH TOS & BODAC Daddross'-one addres MUL TA Fose A PUSH ACE MAJ 708 & A+ B*(+1) ADD ACZ ACAMES MUL POP W MEWJ & FOS ACE AC AWED] MUL ACE AC+MFA) 20182086h ADD STORE repres prices outper address dield of the struction. escendo dono de los de certos de proposo de la producto adecidades

Zero ouddres 2= (A*B)-C 3 address Tose A PUSH A R, A, B R, & MEAJAMEST PUSH B TOSE B SUB Z, A,, L MIZIER, - MEJ Tost A+B 2 address PUSH & FOSC APB PY+ MEDT Rr, A C TOSK C RILR, MEB) PUSH RUB TOSE(A+B)-C R. CR, MES SOB M[Z] < A. mov I, A. FOR MIZTY TO laddress ACE MEAT LOAD ACEAC MEB) B MUL ACE AC-MCCT SUB MIZJEAC STORE