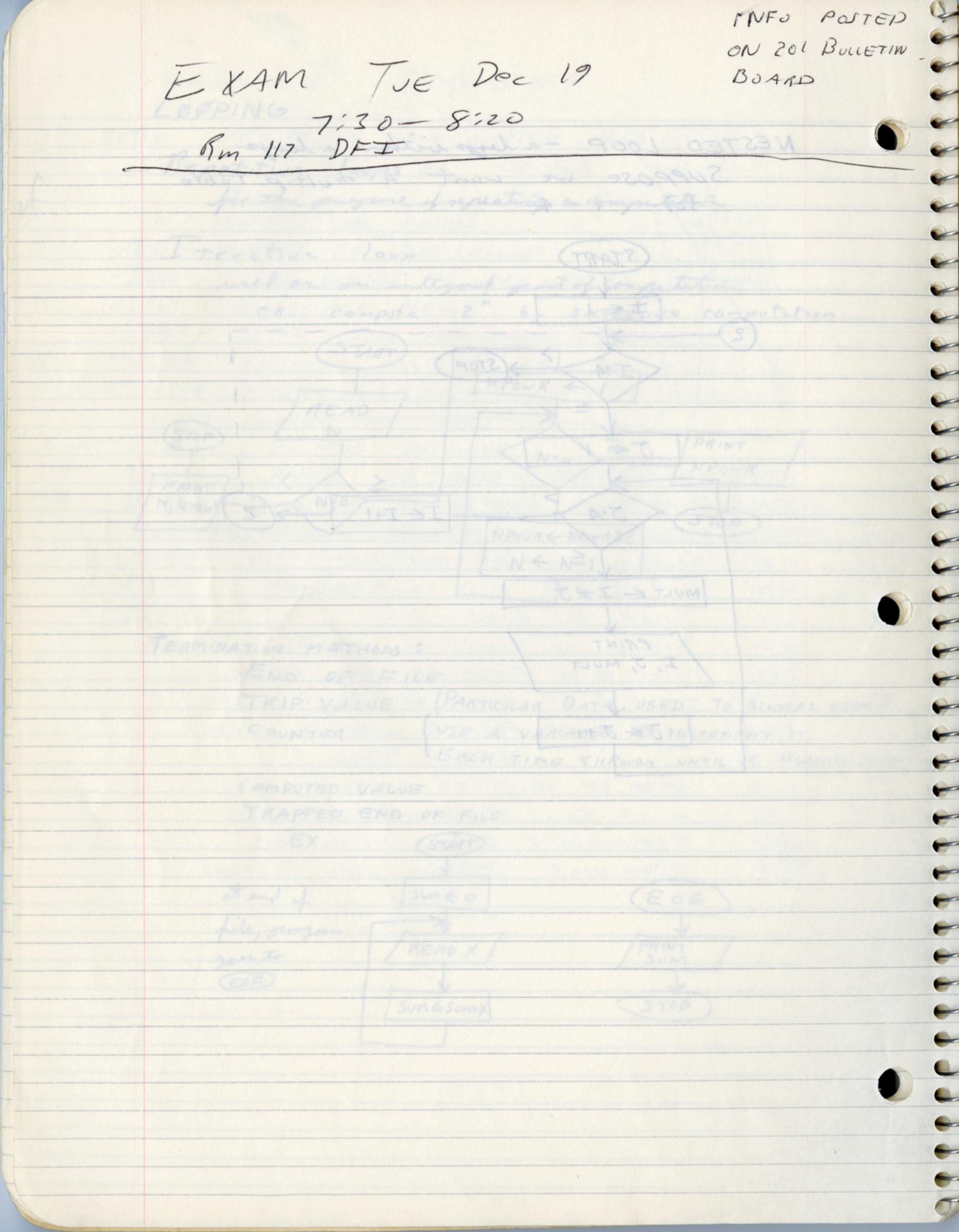
LOPPING Repetitive loops for the surgrose of regreating a computation 1 terative loop used or an integral part of computation ct. compute 2" by successive computation START NPOWR < 1 MEAD PRINT NPOWR PRINT NIO N, ERRORY STOP NPOWR & NPOWR *2 N < N-1 TERMINATION METHORS: END OF FILE TRIP VALUE (PARTICULAR DATA USED TO SIGNAL STOP) COUNTER USE A VARIABLE & INCREMENT IT EACH TIME THROUGH UNTIL IT SIGNALS STOP COMPUTED VALUE TRAPPED END OF FILE EX, (START) THE PERMINER DENVISOR PROPERTY OF THE at end of SUME 0 READ X EOF SUMESUM+X STOP

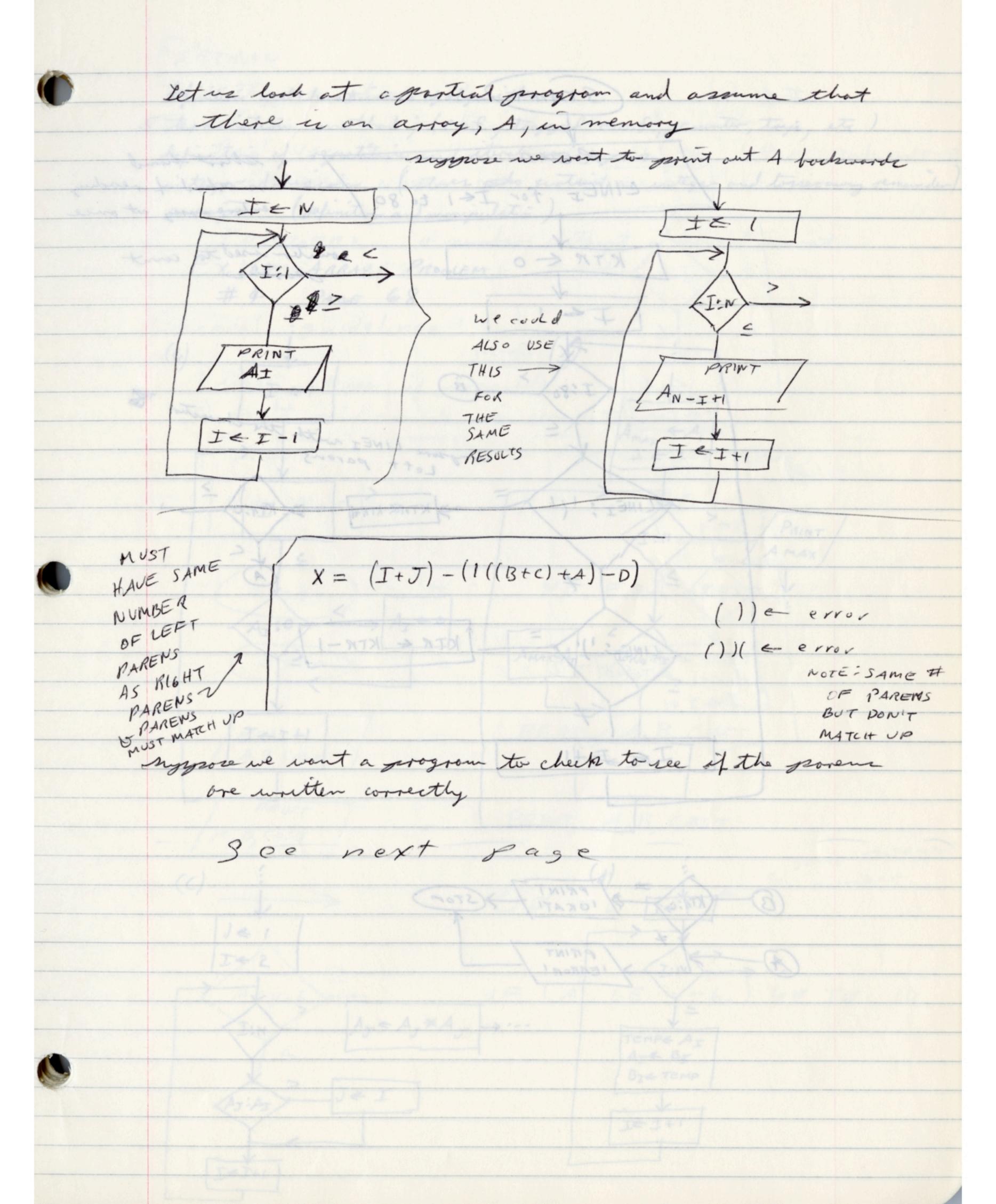
MED POSTED ON 201 BULLETIN E KAM THE DEC 19 BOARD 02:5 62:5 NESTED LOOP - a lenge wither a loops Suppose we want a multip, table 1 for 1 - 4 START AVG THE PORTS (See yest reage) I:4 J = 1 5 | IE I+1 MULT & IXJ PRINT I, J, MULT AVG & SUM/N ひと ひナ1

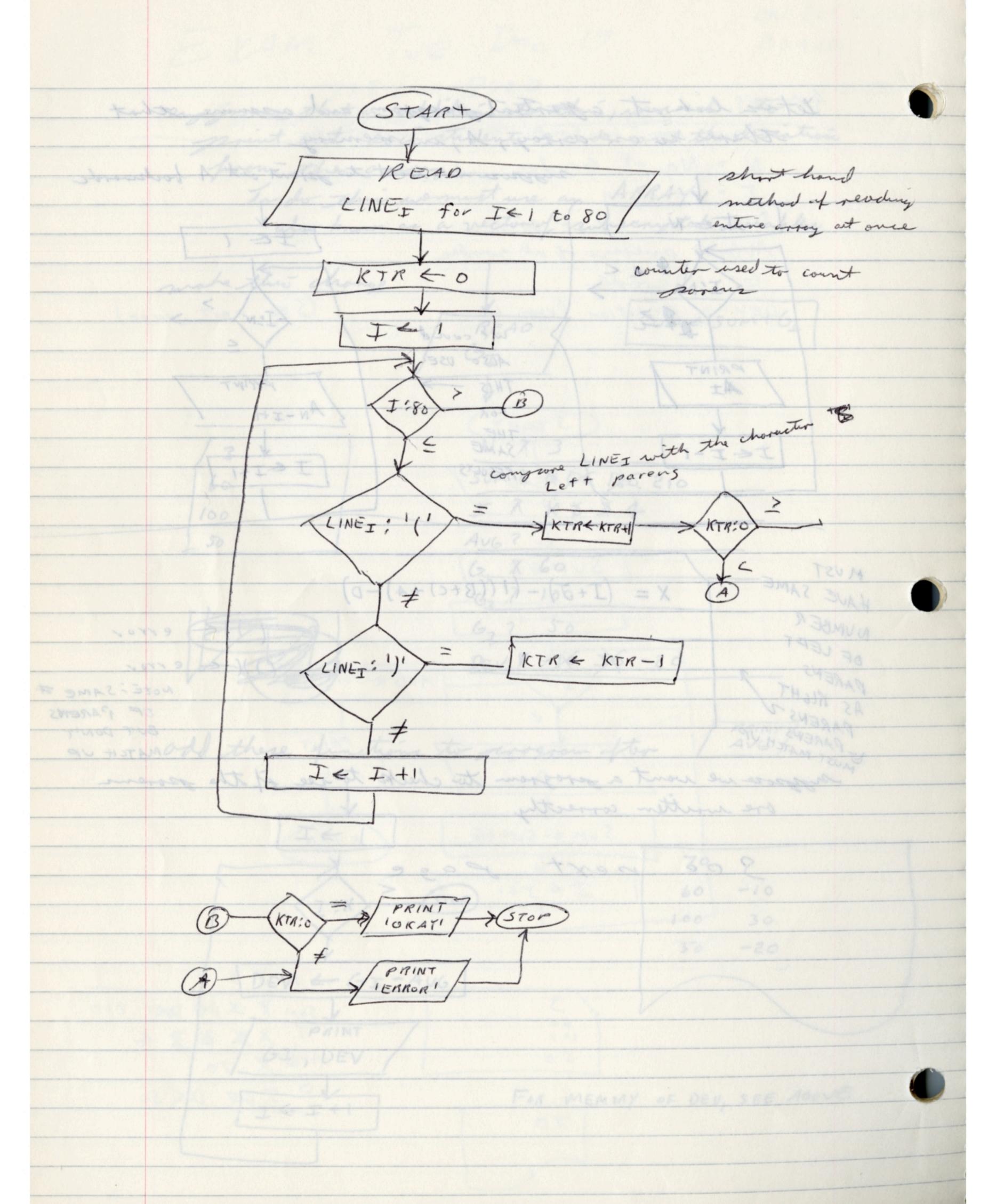


ARRAYS

PROS: read in grodes and find overage N = No- of Grades I = COUNTER SUM = sum of all grades AVG = overage of all grades G = agrade DEV = deviation from mean (See next page) START READ SUMEO 161 > IN AVG & SUM/N PARENTANTA PRINT READ AVG I the some G one in SUM & SUM +G STOP I 4 I+1 - NX3 Sum 8 & 60 160 210 IXXXXX4 AVG X 70 160 50 5 X 80 100 50 FOR MEMINY OF DEV SEE ABOUT 70

supprose that in addition to this, we wish to great out each studente grade and the deviation from the overage wood to on = 1 to do their we must use an ARRAY also known as a vector of subscripted voriables make the change See next page READ | Some somt GI NX3 Sum # \$ 60 160 210 TRXXX4 AUG? 6, X 60 2 62 7 100 6,7 50 DEV 8 - 16 36 - 20 odd these functions to serogram after It SUM E- SUM +6 70 60 -10 100 30 50 -20 DEV & GI-AUG 1941 FOR MEMORY OF DEU, SEE ABOVE





definition and characteristics of algorithm 5 termination method; (cof., tropped e.o.f., counter, tryi, etc) definition of repretitive and iterative loops integer division (stores puto quotient as integer and tosses away remainder) arrays (definition and monigulation) EX- OF ARRAY PROSLEM PAGE 68 4 ATTO AI:0 AMAX: AI AMAXEA I<I+1 I = I+/ statomen (4) IX Je I + 2 I:IV Ag = Ag * Ag ----I:N TEMPE AI AJK BJ BI& TEMP JeI I= I+1 IEI+1