

```

11390 LET TTNFLDS = TWNFLDS(L)
11400 LET TCNTFLDS = CNTFLDS(L)
11410 LET TTEFLDS = TELFLDS(L)
11420 REM
11430 LET NAMFLDS(L) = NAMFLDS(L + 1)
11440 LET MODFLDS(L) = MODFLDS(L + 1)
11450 LET STRFLDS(L) = STRFLDS(L + 1)
11460 LET TWNFLDS(L) = TWNFLDS(L + 1)
11470 LET CNTFLDS(L) = CNTFLDS(L + 1)
11480 LET TELFLDS(L) = TELFLDS(L + 1)
11490 LET NDXFLDS(L) = STR$(L)
11500 REM
11510 LET NAMFLDS(L + 1) = TNAMFLDS
11520 LET MODFLDS(L + 1) = TMODFLDS
11530 LET STRFLDS(L + 1) = TSTRFLDS
11540 LET TWNFLDS(L + 1) = TTWNFLDS
11550 LET CNTFLDS(L + 1) = TCNTFLDS
11560 LET TELFLDS(L + 1) = TTEFLDS
11570 LET NDXFLDS(L + 1) = STR$(L + 1)
11580 LET S = 1
11590 REM
11600 RETURN
12000 REM *SAVREC* SUBROUTINE
12010 REM
12020 REM
12030 OPEN "O", #1, "ADBK.DAT"
12040 REM
12050 FOR L = 1 TO SIZE - 1
12060 PRINT #1, NAMFLDS(L); ", "; MODFLDS(L); ", "; STRFLDS(L); ", "; TTNFLDS(L)
12070 PRINT #1, CNTFLDS(L); ", "; TTEFLDS(L); ", "; NDXFLDS(L)
12080 NEXT L
12090 REM
12100 REM
12110 REM
12120 REM
12130 CLCSE #1
12140 REM
12150 RETURN
13000 REM *FNDREC* (FIND RECORD) SUBROUTINE
13010 PRINT CHR$(12): REM CLEAR SCREEN
13020 REM
13030 IF SRTD = 0 THEN GOSUB 11200: REM *SRTREC*
13040 PRINT
13050 PRINT
13060 PRINT TAB(9); "SEARCHING FOR A RECORD"
13070 PRINT TAB(16); "BY NAME"
13080 PRINT
13090 PRINT TAB(9); "TYPE IN THE FULL NAME"
13100 PRINT TAB(7); "IN FIRSTNAME SURNAME ORDER"
13110 PRINT
13120 PRINT
13130 REM
13140 INPUT "NAME IS "; NAMFLDS(SIZE)
13150 GOSUB 10200: REM *MODNAM* SUBROUTINE
13160 LET SCHKEY$ = MODFLDS(SIZE)
13170 REM
13180 REM
13190 REM
13200 REM
13210 REM
13220 LET BTM = 1
13230 LET TOP = SIZE - 1
13240 FOR L = 1 TO 1
13250 LET MID = INT((BTM + TOP)/2)
13260 IF MODFLDS(MID) <> SCHKEY$ THEN L = 0
13270 IF MODFLDS(MID) < SCHKEY$ THEN BTM = MID + 1
13280 IF MODFLDS(MID) > SCHKEY$ THEN TOP = MID - 1
13290 IF BTM > TOP THEN L = 1
13300 NEXT L
13310 REM
13320 IF BTM > TOP THEN LET CURR = 0
13330 IF BTM <= TOP THEN LET CURR = MID
13340 IF CURR = 0 THEN GOSUB 13700: REM *NOTREC*
13350 IF CURR = 0 THEN RETURN
13360 REM
13370 REM
13380 PRINT CHR$(12)
13390 PRINT
13400 PRINT TAB(13); "*RECORD FOUND*"
13410 PRINT
13420 PRINT "NAME: "; NAMFLDS(CURR)
13430 PRINT "STREET: "; STRFLDS(CURR)
13440 PRINT "TOWN: "; TTNFLDS(CURR)
13450 PRINT "COUNTY: "; CNTFLDS(CURR)
13460 PRINT "PHONE: "; TELFLDS(CURR)
13470 PRINT
13480 PRINT TAB(7); "PRESS ANY LETTER TO PRINT"
13490 PRINT TAB(7); "OR SPACE-BAR TO CONTINUE"
13500 FOR I = 1 TO 1
13510 LET AS = INKEY$
13520 IF AS = "" THEN I = 0
13530 NEXT I
13540 IF AS <> "" THEN GOSUB 13600: REM *LSTCUR*
13550 RETURN
13600 REM *LSTCUR* (LIST CURRENT RECORD) SUBROUTINE
13610 LPRINT
13620 LPRINT "NAME: "; NAMFLDS(CURR)
13630 LPRINT "STREET: "; STRFLDS(CURR)
13640 LPRINT "TOWN: "; TTNFLDS(CURR)
13650 LPRINT "COUNTY: "; CNTFLDS(CURR)
13660 LPRINT "PHONE: "; TELFLDS(CURR)
13670 LPRINT
13680 LPRINT
13690 RETURN
13700 REM *NOTREC* (RECORD NOT FOUND) SUBROUTINE
13710 PRINT CHR$(12): REM CLEAR SCREEN
13720 PRINT TAB(11); "*RECORD NOT FOUND*"
13730 PRINT TAB(4); "IN THE FORM: "; NAMFLDS(SIZE); " *"
13740 PRINT
13750 PRINT TAB(5); "(PRESS SPACE-BAR TO CONTINUE)"
13760 FOR I = 1 TO 1
13770 IF INKEY$ <> "" THEN I = 0
13780 NEXT I
13790 RETURN
14000 REM *MODREC* (MODIFY RECORD) SUBROUTINE
14010 REM
14020 PRINT CHR$(12): REM CLEAR SCREEN
14030 PRINT
14040 PRINT
14050 PRINT
14060 PRINT
14070 PRINT TAB(10); "**TO MODIFY A RECORD**"
14080 PRINT TAB(3); "*FIRST LOCATE THE DESIRED RECORD*"
14090 REM
14100 REM
14110 REM
14120 GOSUB 13030: REM *FNDREC* SUBROUTINE WITHOUT CLS
14130 IF CURR = 0 THEN RETURN: REM RECORD NOT FOUND
14140 PRINT
14150 PRINT TAB(14); "MODIFY NAME?"
14160 PRINT
14170 PRINT TAB(5); "PRESS RETURN TO ENTER NEW NAME"
14180 PRINT TAB(5); "OR SPACE-BAR FOR NEXT FIELD"
14190 FOR I = 1 TO 1
14200 LET AS = INKEY$
14210 IF AS <> CHR$(13) AND AS <> " " THEN I = 0
14220 NEXT I
14230 IF AS = CHR$(13) THEN INPUT "NEW NAME: "; NAMFLDS(CURR)
14240 IF AS = CHR$(13) THEN RMOD = 1
14250 IF AS = CHR$(13) THEN SRTD = 0
14260 IF AS = CHR$(13) THEN NAMFLDS(SIZE) = NAMFLDS(CURR)
14270 IF AS = CHR$(13) THEN GOSUB 10200: REM *MODNAM* SUBROUTINE
14280 IF AS = CHR$(13) THEN LET MODFLDS(CURR) = MODFLDS(SIZE)
14290 PRINT
14300 PRINT TAB(13); "MODIFY STREET?"
14310 PRINT
14320 PRINT TAB(5); "PRESS RETURN TO ENTER NEW STREET"
14330 PRINT TAB(5); "OR SPACE-BAR FOR NEXT FIELD"
14340 FOR I = 1 TO 1
14350 LET AS = INKEY$
14360 IF AS <> CHR$(13) AND AS <> " " THEN I = 0
14370 NEXT I
14380 IF AS = CHR$(13) THEN RMOD = 1
14390 IF AS = CHR$(13) THEN INPUT "NEW STREET: "; STRFLDS(CURR)
14400 PRINT
14410 PRINT TAB(13); "MODIFY TOWN?"
14420 PRINT
14430 PRINT TAB(5); "PRESS RETURN TO ENTER NEW TOWN"
14440 PRINT TAB(5); "OR SPACE-BAR FOR NEXT FIELD"
14450 FOR I = 1 TO 1
14460 LET AS = INKEY$
14470 IF AS <> CHR$(13) AND AS <> " " THEN I = 0
14480 NEXT I
14490 IF AS = CHR$(13) THEN RMOD = 1
14500 IF AS = CHR$(13) THEN INPUT "NEW TOWN: "; TTNFLDS(CURR)
14510 PRINT
14520 PRINT TAB(12); "MODIFY COUNTY?"
14530 PRINT
14540 PRINT TAB(4); "PRESS RETURN TO ENTER NEW COUNTY"
14550 PRINT TAB(5); "OR SPACE-BAR FOR NEXT FIELD"
14560 FOR I = 1 TO 1
14570 LET AS = INKEY$
14580 IF AS <> CHR$(13) AND AS <> " " THEN I = 0
14590 NEXT I
14600 IF AS = CHR$(13) THEN RMOD = 1
14610 IF AS = CHR$(13) THEN INPUT "NEW COUNTY: "; CNTFLDS(CURR)
14620 PRINT
14630 PRINT TAB(8); "MODIFY TELEPHONE NUMBER?"
14640 PRINT
14650 PRINT "PRESS RETURN TO ENTER NEW TELEPHONE NUMBER"
14660 PRINT TAB(8); "OR SPACE-BAR TO CONTINUE"
14670 FOR I = 1 TO 1
14680 LET AS = INKEY$
14690 IF AS <> CHR$(13) AND AS <> " " THEN I = 0
14700 NEXT I
14710 IF AS = CHR$(13) THEN RMOD = 1
14720 IF AS = CHR$(13) THEN INPUT "NEW NUMBER: "; TELFLDS(CURR)
14730 REM
14740 REM
14750 RETURN
15000 REM *DELREC* (DELETE RECORD) SUBROUTINE
15010 REM
15020 PRINT CHR$(12): REM CLEAR SCREEN
15030 PRINT
15040 PRINT
15050 PRINT
15060 PRINT
15070 PRINT TAB(10); "**TO DELETE A RECORD**"
15080 PRINT TAB(3); "*FIRST LOCATE THE DESIRED RECORD*"
15090 REM
15100 REM
15110 REM
15120 GOSUB 13030: REM *FNDREC* SUBROUTINE WITHOUT CLS
15130 IF CURR = 0 THEN RETURN: REM RECORD NOT FOUND
15140 PRINT
15150 PRINT TAB(3); "DO YOU WANT TO DELETE THIS RECORD?"
15160 PRINT TAB(5); "*WARNING* -- NO SECOND CHANCES"
15170 PRINT
15180 PRINT TAB(9); "PRESS RETURN TO DELETE"
15190 PRINT TAB(8); "OR SPACE-BAR TO CONTINUE"
15200 FOR I = 1 TO 1
15210 LET AS = INKEY$
15220 IF AS <> CHR$(13) AND AS <> " " THEN I = 0
15230 NEXT I
15240 IF AS = " " THEN RETURN
15250 FOR L = CURR TO SIZE - 2
15260 LET NAMFLDS(L) = NAMFLDS(L + 1)
15270 LET MODFLDS(L) = MODFLDS(L + 1)
15280 LET STRFLDS(L) = STRFLDS(L + 1)
15290 LET TTNFLDS(L) = TTNFLDS(L + 1)
15300 LET CNTFLDS(L) = CNTFLDS(L + 1)
15310 LET TELFLDS(L) = TELFLDS(L + 1)
15320 LET NDXFLDS(L) = STR$(L)
15330 NEXT L
15340 LET RMOD = 1
15350 LET SIZE = SIZE - 1
15360 REM
15370 REM
15380 REM
15390 RETURN

```