ITEC 3150

Optional Assignment

Apple II Basic Programming

Name: Anh Thu Nguyen

Source code:

10 DATA "SARA", "THOMAS", "NATHAN", "JOSIAH", "REANN", "BORIS", "DUAA FATIMA", "JUSTIN", "CODY", "MUHAMMAD", "MARCELLO", "BRIAN", "ADAM","THU", "JAIME", "NIECIA", "DAKOTA", "RAJ", "SHELDEN", "KEVIN", "STEPHEN"

20 SIZE = 21 : MAXSIZE = 30

30 DIM NAME$(MAXSIZE) : DIM USED%(MAXSIZE)

40 FOR I = 1 TO SIZE : READ NAME$(I) : NEXT I

50 HOME

70 PRINT "RANDOM NAME SELECTOR"

80 PRINT "---------------------"

90 PRINT "Press any key for a random name"

95 PRINT "Press 'P' to pick a name"

100 PRINT "Press 'L' to list"

110 PRINT "Press 'U' to update the list"

120 PRINT "Press 'R' to reset eligibility"

125 PRINT "Press 'M' to see menu"

130 PRINT "Press 'Q' to quit"

140 PRINT "---------------------"

150 INPUT "Enter your choice: "; KEY$

160 IF (KEY$ <> "L" AND KEY$ <> "U" AND KEY$ <> "R" AND KEY$ <> "Q" AND KEY$ <> "M") THEN GOTO 530

165 IF KEY$ = "M" THEN GOTO 50

170 IF KEY$ = "L" THEN GOTO 200

180 IF KEY$ = "U" THEN GOTO 300

190 IF KEY$ = "R" THEN GOTO 400

195 IF KEY$ = "Q" THEN GOTO 500

200 REM LIST

210 PRINT "ELIGIBLE NAME(S):"

220 FOR I = 1 TO SIZE

230 IF USED%(I) = 0 THEN PRINT NAME$(I)

240 NEXT I

250 PRINT " " : GOTO 150

300 REM UPDATE

310 INPUT "ENTER A NAME (ENTER 'DONE' WHEN FINISHED): "; ADDNAME$

320 IF (ADDAME$ <> "DONE" AND SIZE < MAXSIZE) THEN SIZE = SIZE + 1 : NAME$(SIZE) = ADDNAME$ : GOTO 310

360 PRINT " " : GOTO 150

400 REM RESET ELIGIBILITY

410 FOR I = 1 TO SIZE : USED%(I) = 0 : NEXT I

420 PRINT "ELIGIBILITY RESET"

430 PRINT " " : GOTO 150

500 REM QUIT

505 HOME

510 PRINT "THANK YOU FOR USING, GOOD BYE"

520 END

530 REM PICK RANDOM

540 SUMUSED = 0

550 FOR I = 1 TO SIZE : SUMUSED = SUMUSED + USED%(I) : NEXT I

560 IF SUMUSED = SIZE THEN PRINT "ALL NAMES HAVE BEEN USED." : GOTO 620

580 INDEX% = INT(RND(1) \* SIZE) + 1

590 IF USED%(INDEX%) = 0 THEN USED%(INDEX%) = 1 : PRINT NAME$(INDEX%) : GOTO 620

600 IF USED%(INDEX%) = 1 THEN GOTO 580

620 PRINT " " : GOTO 150