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NOVEMBER 1987

VOLUME 5
NUMBER 11

**SPECIAL FEATURE:
YOUR GUIDE TO
DESKTOP PUBLISHING**

FAMILY & HOME OFFICE

COMPUTING™

**How to Choose the
Best System
For Your Needs**

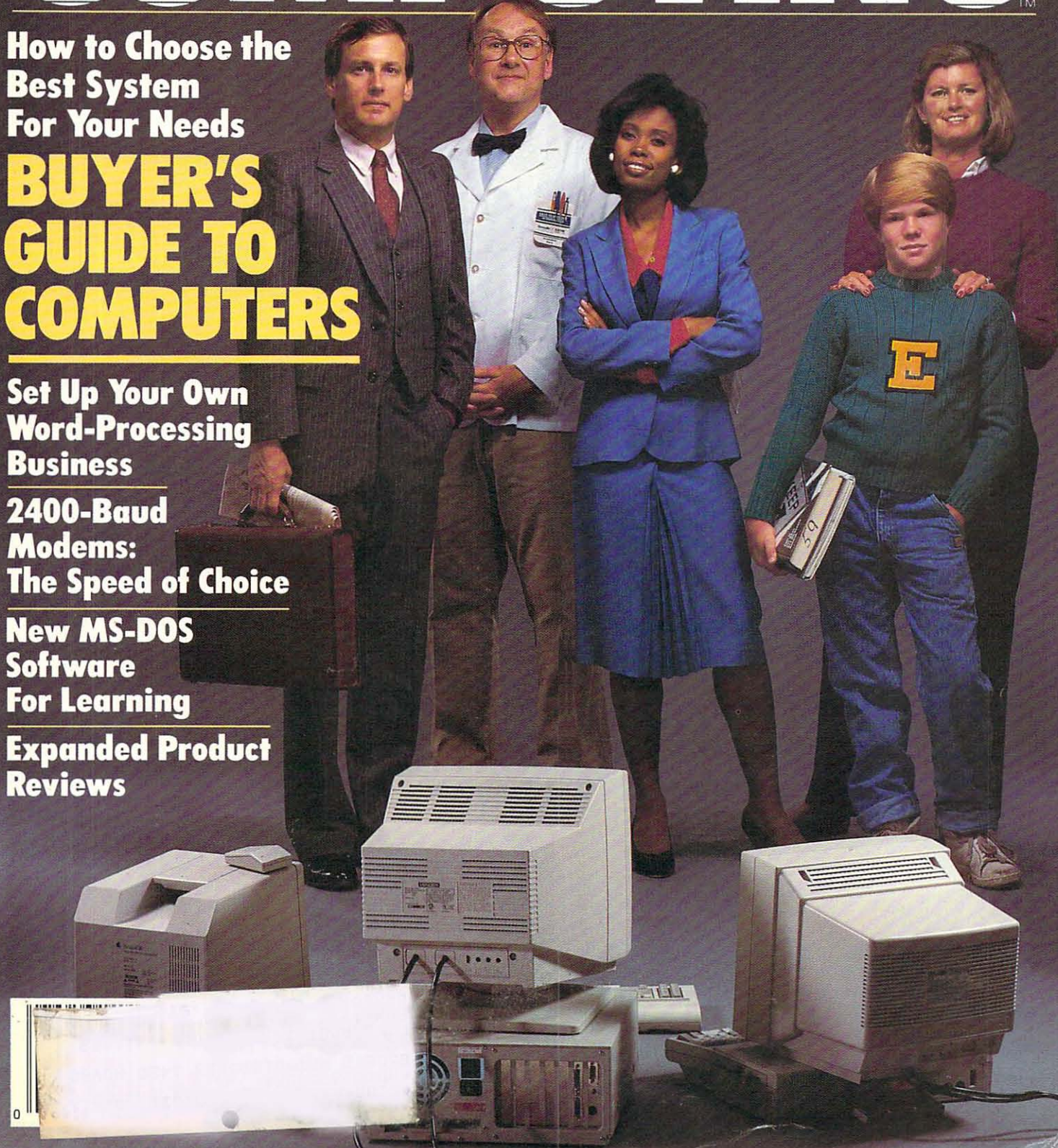
**BUYER'S
GUIDE TO
COMPUTERS**

**Set Up Your Own
Word-Processing
Business**

**2400-Baud
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The Speed of Choice**

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News, opinions, quotes, and rumors from and about Apple, Atari, Commodore, IBM and MS-DOS, Tandy, and orphaned computers.

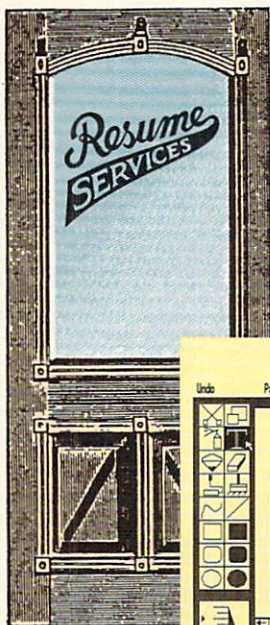
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THE PROGRAMMER

News, machine coverage, corrections, and last month's *Crossword Puzzle* solution. PROGRAMS THIS MONTH: *Home Inventory Manager* (Productivity Program); *Turkey's Revenge* (Thanksgiving Program); *Thanksgiving Crossword Puzzle* (Puzzle); *Cradle Song* (Microtones).*

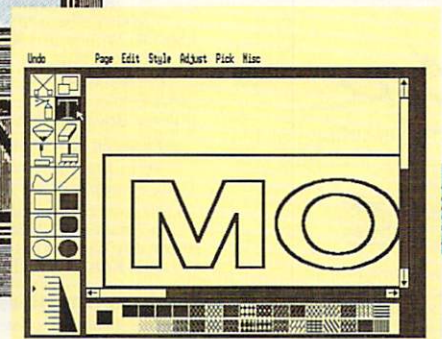
*See program for specific computer models and hardware requirements.

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COVER PHOTOGRAPH BY JOEL WHITE

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MACHINE SPECIFICS

tapping on mashed potatoes. Perhaps you suffer from the NUM LOCK blues—that sinking feeling that hits every time you have to press the NUM LOCK key to switch from entering figures on the numeric keypad to using a cursor movement key, and vice versa. Or maybe you just need a faster way to move the cursor through a spreadsheet, a database, or even a graphics program. Here are some suggestions.

Separate Cursor Keys. Instead of replacing your whole keyboard, you might want to add Keypatch-10 (\$90) from Genest Technologies. This separate minikeypad attaches to the top of your existing keyboard, adding a set of cursor keys that function even when the numeric keyboard is engaged. Installation couldn't be easier—one end of the unit's Y-connector plugs into the computer keyboard socket, and the other accepts your keyboard plug.

Get Smart. WICO, a leading joystick manufacturer, produces a replacement keyboard that isn't just fun and games. The Smartboard (\$400) features a built-in trackball plus user-programmable function keys. The trackball is a very fast way to move the cursor around the screen. Rolling the ball simulates a series of rapid-fire cursor-key presses, so the Smartboard doesn't require any special software. The function keys let you store a string of keystrokes in battery-backed memory and play them back with a single keypress. Unfortunately, there is no way to use the trackball as a substitute for a mouse.

Key Tronic. The KB 5153 Touch Pad Keyboard (\$399) from Key Tronic weighs a ton. But it also has a heavyweight special feature—a unique multipurpose 3.5-inch-square touch pad. In cursor-key mode, you can move the cursor around the screen by running your finger or a stylus across the pad's surface. Load the mouse-driver software and the touch pad emulates a mouse and can be used with programs that accept Microsoft-compatible mouse control.

The touch pad also can be subdivided into four, nine, 25, or 36 programmable function keys (overlays are provided to indicate where each "key" is located). You can even combine function key and mouse modes simultaneously.

STEVE MORGENSTERN can be reached on CompuServe (ID: 72545.606).

TANDY

BY STEPHEN MILLER

Mark Eppley had faith in the Tandy laptops when others questioned their potential in that market. After six years, Traveling Software, his company, has carved out a niche for itself by supplying quality add-ons to the Tandy portables. The company's Lap-Link cable-and-software link helps transfer files from desktop computers to the new Tandy LT 1400 and other portables. But its latest product is one that will gladden the hearts of those diehard Model 100 fans.

2MB Model 102! The Booster Pak will boost the memory of a 100 or a 102 to an enormous 2MB. The pack is a box that lets you add as much or as little power as you need. The basic unit (\$429) comes with 136K of additional memory. Through December 31, *Desk-Link* will be included. This ROM software allows for the rapid transfer of data files to and from MS-DOS machines.

Booster Pak has additional slots so that you can add more memory, a 1200-baud internal modem (\$199), a rechargeable NiCad battery (\$69), and all Traveling Software's ROMs (see review of *Sardine* in last month's issue). The Booster Pak weighs only 10 ounces and attaches to the bottom of the 100 or the 102.

EX DOS Update. Tandy is selling DOS 3.2 as an upgrade for the EX (\$30; Cat. No. 25-1170). MS-DOS 3.2 certainly has some advantages over 2.11, the version supplied with the EX. But it makes most sense if you have added memory, a second disk drive, or a hard disk. If you're primarily using *Personal Deskmate* and running games, the upgrade seems to me to be gilding the lily.

CoCo 3 Workout. *Pyramix* (Spectrum Projects; \$30, plus \$3 shipping) is the first arcade-style game

PHONE NUMBERS

A.T.&T. Liquidators (714) 751-2667; Apple Computer (408) 973-2222; Atari Corp. (408) 745-2000; Commodore Business Machines, Inc. (215) 431-9100; Firebird Licensees, Inc. (201) 444-5700; Genest Technologies (714) 547-0880; IBM (800) 447-4700; Key Tronic (509) 928-8000; Microsoft Corp. (206) 882-8080; Orphanware (216) 882-4720; RightSoft Inc. (813) 952-9211; Sir-Tech (315) 393-6633; Spectrum Projects (718) 843-4288; Tandy Corp. (817) 390-3011; Traveling Software (206) 483-8088; WICO Distribution Co. (312) 647-7500.

I've seen that really puts the CoCo 3 through its paces. This game is the Colorventure version of the arcade favorite *Q-bert*. The game opens with the entire game board dropping from out of nowhere and slowly bouncing to a halt. The colors are sharp and crisp, and the sound rivals arcade quality. *Pyramix* is a well-done translation and should keep you gamers happily occupied for hours. It's available from Spectrum Projects, P.O. Box 264, Howard Beach, NY 11414.

STEPHEN MILLER is a computer consultant and journalist.

ORPHANS

BY PATRICK SPERA

For those of you who can't find any discount software, try A.T.&T. Liquidators. They seem to have something for every microcomputer ever made—CP/M, TRS-80s, Timex, TI—it doesn't seem to matter. The prices are incredible—an Osborne modem for \$30, and three TI-99/4A programs for \$25, just to choose a couple of steals.

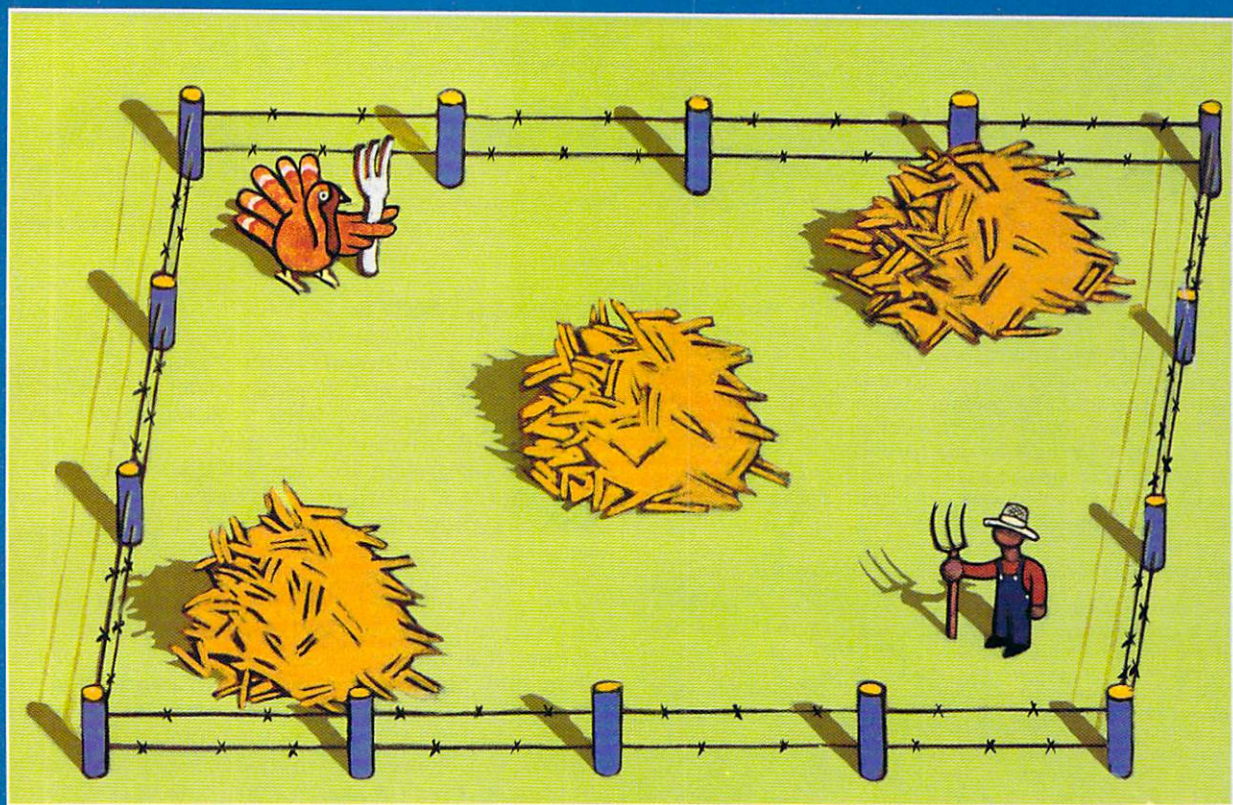
Just send A.T.&T. a self-addressed, stamped envelope (to 2640 South Harbor Blvd., Santa Ana, CA 92704) and indicate what computer and operating system you have. A.T.&T. will send you a price list of hardware and software available for that machine. And dealers, if you can't wait for people to follow my advice and raid your old stock, then call A.T.&T. and ask for Art. You can dicker with him!

512K ADAM. John Lingrel has been busy this past year! Orphanware (P.O. Box 324, Canal Fulton, OH 44614) is now carrying his 512K memory board. This replaces the Coleco 64K expansion board. Before replacing yours, you need a printer interface (\$30 with expansion board from Orphanware) or an addresser (\$17.50).

Depending upon how you set up the memory, you can use the extra memory as a RAM disk. The price is \$285 for the 512K version; a 256K version is also available for \$165; the 128K version costs \$115. People who already own the 256K board can upgrade to 512K for \$120.

PATRICK SPERA is sysop of the Computer Club Forum on CompuServe (GO CLUB), a meeting place for owners of orphaned computers.

THE PROGRAMMER



THIS MONTH

FYI

Page 96
Information about our programs, "Programming P.S.," and news for programmers.

PRODUCTIVITY PROGRAM

Page 98
Atari and Commodore translations of our useful *Home Inventory Manager* program.

THANKSGIVING PROGRAM

Page 110
It's time for the *Turkey's Revenge!* Farmer Fleetfoot has his work cut out for him this Thanksgiving as he tackles a two-ton turkey.

PUZZLE

Page 118
Clues and data for a Thanksgiving *Crossword Puzzler*.
Page 120
PLUS: The solution to last month's *Crossword Puzzler*.

MICROTONES

Page 119
Our version of Brahms's *Cradle Song* will lull your little ones and soothe your senses.

THIS MONTH'S PROGRAM COVERAGE

Computers†	Home Inventory Manager (pg 98)	Turkey's Revenge (pg 110)	Puzzle Clues (pg 118)	Cradle Song (pg 119)
Apple IIcs	Oct '87	★	★	★
Apple II series	Oct '87	★	★	★
Atari 800/XL/XE	★ D p	★	★	★
Commodore 64/128	★ D p	★	★	★
IBM PC FAMILY				
IBM PC	Oct '87	★	★	★
IBM PCjr	Oct '87	★	★	★ T
IBM PS/2 Model 30	Oct '87	★	★	★
IBM PC COMPATIBLES				
Amstrad PC1512DD	Oct '87	★	★	★
Blue Chip	Oct '87	★	★	★
Commodore PC-10	Oct '87	★	★	★
Epson Equity I	Oct '87	★	★	★
Kaypro PC-10	Oct '87	★	★	★
Leading Edge Model D	Oct '87	★	★	★
Panasonic FX-600	Oct '87	★	★	★
Tandy 1000/EX/SX	Oct '87	★	★	★ T
Vendex Turbo 888-XT	Oct '87	★	★	★
Zenith Z148PC	Oct '87	★	★	★
Macintosh	Oct '87	★	★	★
Tandy Color Computer	Oct '87	★	★	★

KEY: ★ Program in this issue for this computer. D Disk drive required, p Printer optional. T Television or monitor with speaker required. † See below for specific models.

THE SYSTEMS WE TEST ON

Every FAMILY & HOME-OFFICE COMPUTING program is thoroughly tested before publication. The exact systems we use during the testing process are listed here. While you can be sure that a program will work if your system matches ours, a comparable system configuration should also work. For example, even though we don't test on the Franklin Ace, Apple programs should work on this system. Any exception to the following hardware or software configurations will be listed in the chart above. Systems that do not have a specific printer listed were tested with Epson FX-80 printers when a printer option was available.

Apple IIe in 40-column mode w/64K RAM, DOS 3.3, two disk drives, MPC parallel printer interface, monochrome and color monitor. Apple programs should also work on Apple IIc/II Plus. **Apple IIcs** w/1MB RAM, one 3.5-inch and one 5.25-inch disk drive, ProDOS 3.3, and Apple RGB monitor. **Atari 800XL** w/two disk drives, DOS II version 2.05, Atari 850 interface, and color monitor. Atari programs should also work on Atari 800 (w/48K), 1200XL, 65/130XE. Smaller programs should work on Atari 400 & 600XL.

Commodore 128 in C-64 mode with two 1571 disk drives, color monitor, and Micrografix parallel graphics interface. Programs should also work on Commodore 64/64C/128D. **IBM PC** w/640K RAM, Disk BASIC D2.00, IBM Monochrome Display and Printer Adapter, monochrome monitor, IBM Color/Graphics Monitor Adapter, RGB monitor, AST Sixpack Plus, and IBM PC DOS 3.10. **IBM PCjr** w/128K RAM, one disk drive, IBM PC DOS 2.10, cartridge BASIC J1.00. **IBM PS/2 Model 30** w/640K RAM, one floppy and one hard-disk drive, RGB monitor, IBM PC DOS 3.30, and IBM PC BASIC A3.30. **Macintosh** w/512K RAM, two disk drives, Microsoft BASIC 2.1, and ImageWriter printer. Macintosh programs should also work on 128K Mac/Mac Plus/SE/II and under Microsoft BASIC 2.0. **Tandy Color Computer 2** w/64K RAM, Disk Extended Color BASIC 1.1, two disk drives, Botek-serial-to-parallel printer interface, color monitor. Programs should also work on Color Computer 1 (w/64K) and 3.

The following PC compatibles have been added to our testing list. IBM PC programs should also work on other PC compatibles with at least 128K.

Amstrad w/640K RAM, two disk drives, MS-DOS 3.20, Locomotive BASIC, RGB monitor. **Blue Chip** w/512K RAM, two disk drives, monochrome monitor, MS-DOS 3.20, GW-BASIC 3.20. **Commodore PC-10** w/640K RAM, two disk drives, monochrome monitor, MS-DOS 3.20, GW-BASIC 3.20. **Epson Equity I** w/256K RAM, two disk drives, monochrome display adapter, monochrome monitor, MS-DOS 3.10, GW-BASIC 3.10. **Kaypro PC 10** w/640K RAM, two disk drives, RGB monitor, MS-DOS 2.11, GW-BASIC 2.02. **Leading Edge Model D** w/640K RAM, two disk drives, monochrome and RGB monitors, MS-DOS 3.10, GW-BASIC 3.11. **Panasonic FX-600** w/640K RAM, two disk drives MS-DOS 3.10, GW-BASIC 3.10, enhanced graphics adapter, RGB monitor. **Tandy 1000** w/256K RAM, two disk drives, MS-DOS 2.11 version 02.11.22, GW-BASIC 2.02 version 01.01.00, RGB monitor. **Tandy 1000 EX** w/256K RAM, two disk drives, MS-DOS 2.11 version 02.11.24, GW-BASIC 2.02 version 01.02.00, RGB monitor.

Tandy 1000 SX w/384K RAM, two disk drives, MS-DOS 3.20 version 03.20.00, GW-BASIC 3.20 version 03.20.00, RGB monitor. **Vendex Turbo 888-XT** w/640K RAM, two disk drives, MS-DOS 3.20, RGB monitor. **Zenith Z148PC** w/640K RAM, two disk drives, MS-DOS 3.10, GW-BASIC 3.20, RGB monitor.

(212) 505-3703

A HELP LINE FOR PROGRAM PROBLEMS

Call our Program Status Line any time of the day or night to receive an up-to-date summary of our latest programs, the machines on which they run, and any corrections or enhancements to the programs.

PROGRAMMING P.S.

Corrections to Previous Months' Programs

Crisscross (August 1987, page 61)

IBM PC & compatibles: Due to a renumbering error, line 370 is incorrect. The line should read as follows:

```
370 GOSUB 1010:IF FL THEN 520
```

Memory Madness (September 1987, page 82)

Commodore 64 & 128 (C-64 mode): Due to a production error, line 230 is incorrect. Please change the line to read as follows:

```
230 IF T<2 OR T>3 THEN DL=50:GOSUB 3000:GOTO 200
```

COVERAGE NEWS

Over the four-year history of our magazine, "The Programmer" has undergone many changes. Our programs have grown longer and more beneficial to our readers. We have added some computers to our coverage and have discontinued others. At this time, to allow for more programs for the growing numbers of IBMs and IBM-compatible computers owned by our readers and to provide an increasing number of longer, more useful programs, we will no longer carry program translations for the Adam and TI-99/4A computers. While FAMILY & HOME-OFFICE COMPUTING will continue to cover the Adam and TI-99/4A in our Machine Specifics department and to run articles that are relevant to and useful for all computer owners, Adam and TI owners may wish to contact one of the users' groups listed below for product information and program listings specific to those computers.

Adam and TI owners with modems can continue to find support in FAMILY & HOME-OFFICE COMPUTING's forum on CompuServe (GO FAMFORUM), the Computer Club Forum (GO CLUB), and the TI Forum (GO TIFORUM).

ADAM USERS' GROUP

Nutmeg TI-99'ers
Northern Illiana ADAM Users'
Group (NIAD)
P.O. Box 1317
Lisle, IL 60532
(312) 961-3529

10 Jolly Road
Ellington, CT 06029
(203) 875-1647

TI-99/4A USERS' GROUPS

Houston Users' Group
3223 B Palm Desert
Houston, TX 77459
(713) 499-9991

Central Westchester 99'ers
7 Taylor Road
Elmsford, NY 10523
(914) 592-2080

Puget Sound 99'ers
P.O. Box 6073
Lynnwood, WA 98036
(206) 745-3249

Consult *Computer Shopper* for additional users' groups.

CROSSWORD PUZZLER

BY STEVE C.M. CHEN AND KAREN KANE

This is the fifth in a series of crossword puzzles. This month, clues and data for a Thanksgiving puzzle are presented along with the solution to last month's puzzle (page 120). The solution to the Thanksgiving Crossword Puzzler will appear in next month's issue along with data for a new puzzle.

In order to solve or print out the puzzle, you must have the master puzzle program. The Commodore 64/128, IBM

PC and compatibles, and Tandy Color Computer versions of the program were presented in the July issue, and the Adam, Apple, Atari, and Macintosh versions appeared in August. Back issues of the July and August issues are available for \$4.25 from Crossword Puzzler, c/o FAMILY & HOME-OFFICE COMPUTING, 730 Broadway, New York, NY 10003. Please indicate your specific brand and model of computer.

THANKSGIVING PUZZLE DATA

- A HAOA,FBGB,HBNB,ACKC,1110
- B LCNC,EDJD,BEIE,CFEF,1120
- C JFKF,MFDG,OGFH,GHJH,1155
- D JHAI,LICJ,EJFJ,KJMJ,1161
- E GKNK,FLKL,BMDM,EMOM,1186
- F BNHN,INJN,AOHO,ZZZZ,6252

THANKSGIVING PUZZLE CLUES

- Across**
- 1A Disciple
 - 1I Country that England and France declared war upon in November 1914
 - 2A Fattened rooster
 - 2I Pertaining to eye or vision
 - 3B Excess food
 - 4A French for 'death'
 - 4F Bundle of hay
 - 4K Open; yawning
 - 5C One of a group of genes that occurs alternately at a given point
 - 5J Larry Bird is a _____
 - 6A Integrated circuit (abbr.)
 - 6F Faction
 - 6N French masculine for 'the'
 - 7A Shock with electricity
 - 7E Where Lincoln gave his address in November 1863
 - 8A Access
 - 8K Muffler
 - 9B Horn of plenty
 - 9M Draw (noun)
 - 10A Symbol for tellurium
 - 10G Oklahoma town
 - 10N Former name of phone company: _____ Bell
 - 11A Most ancient
 - 11H Anagram of 'hardly'
 - 12A Large inside muscles of the loins
 - 12G Beelzebub
 - 12L Border
 - 13F Ship that first brought pilgrims to Plymouth Rock
 - 14C Dough
 - 14K Cambria
 - 15B Prairie
 - 15I Pack animals, e.g. mules

Down

- 1A Form of electric current
- 1B _____ Alto, California
- 1C Carmen or La Traviata
- 1D Lightly
- 1E Dynamite
- 1I Ripped
- 1J United Parcel Service (abbr.)
- 1K Right (abbr.)
- 1L Internal power, as in the martial arts
- 1M French for explosion
- 20 Portion
- 3F Overweight
- 3G Servant
- 3H Important political event in November (2 words)
- 4A Indian corn
- 4K Account executive (abbr.)
- 4L _____oma: a disease of the eye
- 4N Traveler
- 6B Negates
- 6I Suffix meaning quality of, condition of
- 7C Instructions at the bottom right of a page (abbr.)
- 7E Women's ward of a hospital
- 7K Boy Scouts of America (abbr.)
- 7M Rodent
- 8D Roid; discharge
- 80 Banquet
- 9G Civil Engineer (abbr.)
- 9I A rice dish
- 9J Romantic interlude
- 10A November birthstone
- 10L Indian tribe
- 11C Have reservations about
- 11E Steamship (abbr.)
- 11M Anagram of Albee
- 12G Imploded
- 12N Chemist who discovered deuterium
- 13F Item showing locations
- 13K Possess
- 14D Royal Exchange (abbr.)
- 14E Extended play record (abbr.)
- 140 Social Studies (abbr.)

— JESSICA HARVEY

```

290 GOSUB 2000:F3=-1
300 PRINT TAB(8);"OH NO, YOUR TIME RAN OUT!"
310 IF GN<40 OR F4 THEN 350
320 GOSUB 2000:F4=-1:SOUND 200,4
330 PRINT@418,"THE TURKEY GROWS EVEN LARGER"
340 PRINT@452,"AND NOW IT'S AFTER YOU!";
350 IF GN+SC=80 AND SC>40 THEN ND=2:GOTO 690
360 FOR L=1 TO 11:K$=INKEY$:IF K$<>" " THEN L=11
370 NEXT L:IF K$="" THEN 510
380 K=ASC(K$):K=K-(K>96)*(K<123)*32
390 IF K<73 OR K>76 THEN 510
400 NX=FX+(K=74)-(K=76):NY=FY+(K=73)-(K=75)
410 SR=PEEK(32*NY+NX+1024)
420 IF SR=109 AND F4 THEN PRINT@32*FY+FX,S$;:PRINT@32*
NY+NX,FM$;:ND=3:GOTO 690
430 IF NX<2 OR NX>31 OR NY<3 OR NY>11 OR SR=207 OR SR=
191 OR SR=65 THEN 360
440 IF SR<>106 THEN 480
450 F2=0:SC=SC+10:FOR X=1 TO 8
460 IF NX=SK(X,1) AND NY=SK(X,2) THEN EG(X)=-1:X=8
470 NEXT X
480 PRINT@32*FY+FX,S$;:FX=NX:FY=NY
490 PRINT@32*FY+FX,FM$;
500 IF SR=81 THEN PRINT@32*FY+FX,"@";:ND=1:GOTO 690
510 IF F1 THEN 680
520 IF NOT F4 THEN 550
530 XN=TX+SGN(FX-TX)
540 YN=TY+SGN(FY-TY):GOSUB 3000:GOTO 620
550 IF F2 THEN 600
560 F2=-1:D2=10000:C=0:FOR X=1 TO 8:IF EG(X) THEN 590
570 DX=SK(X,1)-TX:DY=SK(X,2)-TY:D=DX*DX+DY*DY
580 IF D<D2 THEN D2=D:C=X:SX=SGN(DX):SY=SGN(DY)
590 NEXT X:IF C=0 THEN 680
600 XN=TX-SX*(TX<>SK(C,1)):YN=TY-SY*(TY<>SK(C,2))
610 GOSUB 3000:IF XN=SK(C,1) AND YN=SK(C,2) THEN F2=0:
EG(C)=-1:GN=GN+10
620 SR=PEEK(32*YN+XN+1024):PRINT@32*TY+TX,S$;
630 TX=XN:TY=YN:IF SR<>106 THEN 660
640 SOUND 150,2:FOR S=1 TO 3:SOUND 75,1
650 SOUND 37,1:NEXT S
660 PRINT@32*TY+TX,TK$;:SOUND 50,1
670 IF SR=89 THEN PRINT@32*TY+TX,"@";:ND=1:GOTO 690
680 TM=TM+(TM>0):F1=NOT F1:GOTO 270
690 IF SC>0 AND SC>HS THEN HS=SC
700 GOSUB 2000:ON ND GOTO 710,740,770
710 PRINT@419,"SPLAT! THE TURKEY GOT YOU!"
720 FOR S=1 TO 35:SOUND 99+RND(99),1
730 NEXT S:SOUND 255,1:GOTO 810
740 PRINT@416,"CONGRATULATIONS! THE TURKEY GETS"
750 PRINT@448,"TIRED AND YOU EASILY CAPTURE IT.";
760 GOTO 810
770 FOR S=1 TO 3:SOUND 99,3
780 SOUND 37,1:SOUND 150,2:NEXT S
790 PRINT@430,"WHEW!"
800 PRINT@450,"YOU BARELY MANAGE TO ESCAPE!";
810 PRINT@481,"PRESS <SPACE BAR> TO CONTINUE.";
820 IF INKEY$<>S$ THEN 820
830 CLS:PRINT"HIGH SCORE:";HS
840 PRINT@18,"YOUR SCORE:";SC
850 IF ND=2 AND TM>0 THEN PRINT TAB(3);"YOU MADE IT TO
THE MARKET!":PRINT
860 IF HS=SC AND SC>0 THEN PRINT TAB(5);"YOU GOT THE H
IGH SCORE!":PRINT
870 PRINT TAB(5);"PRESS <P> TO PLAY AGAIN"
880 PRINT TAB(8);"OR <Q> TO QUIT ...";
890 GOSUB 1000:IF K$<>"P" AND K$<>"Q" THEN 890
900 IF K$="P" THEN 30
910 END
1000 K$=INKEY$:IF K$="" THEN 1000 ELSE K=ASC(K$)
1010 K$=CHR$(K-(K>96)*(K<123)*32):RETURN
2000 PRINT@416,STRINGS(32,32);
2010 PRINT@448,STRINGS(32,32);:RETURN
3000 YN=YN+(TY=7)*(YN=8)*(TX<8)
3010 XN=XN-(TX=8)*(XN=7)*(YN>7)
3020 YN=YN-(TY=6)*(YN=5)*(TX>24)
3030 XN=XN+(TX=24)*(XN=25)*(YN<6):RETURN
    
```

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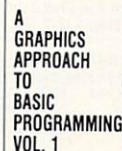


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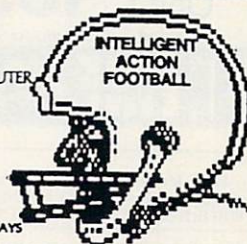
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