

TRS-80  
COMPUTING  
65 OAK ROAD  
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CANADIAN \$2.00

VOLUME 2  
NUMBER 6

# TRS-80 COMPUTING

THE BI-MONTHLY MAGAZINE FOR COLOR COMPUTER USERS



OUR BEGINNER  
PROGRAMMER /  
INDEX ISSUE!

\* A BEGINNER'S PROGRAM  
IN WHICH THERE IS A  
DESCRIPTION FOR EACH LINE  
& A FLOWCHART

\* A BEGINNER'S TUTORIAL  
FOR WRITING BASIC PROGRAMS

\* A YEARLY INDEX FOR  
SIX ISSUES

AND MUCH MORE!!

ORIGINAL PROGRAMS FOR:  
TANDY COCO/APPLE/C64/128

INTERESTING ARTICLES FOR:  
TANDY, AND OTHER COMPUTERS

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TRS-80 COMPUTING

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JOSEPH AHERN

ASSISTANT EDITORS:  
DAVID MCNALLY  
JAMES FERRO

A VALENTINE'S DAY HEART  
GRAPHICS PROGRAM-#11

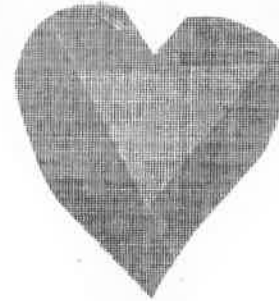


ECB  
required

This month's graphics program draws a big red heart on the high resolution PMODE 3 screen. It might be something you would want to show your "love" on St. Valentine's Day!

THE PROGRAM: VALENTINE'S DAY HEART

```
5 PRINT:PRINT:PRINT
6 CLS
15 PRINT@6,"VALENTINE'S DAY HEART"
25 PRINT:PRINT
26 PRINT
45 PRINT@169,"BY: JAMES FERRO"
55 PRINT:PRINT:PRINT:PRINT:PRINT:PRINT:PRINT
56 PRINT@356,"PRESS <ENTER> TO CONTINUE"
57 EXEC 44539:CLS
60 PMODE 3,1
62 PCLS 3
63 SCREEN 1,0
64 LINE(128,182)-(208,82),PSET:LINE(128,182)-(46,82),PSET:LINE(46,82)-(46,68),PS
ET:LINE(208,82)-(208,68),PSET
65 CIRCLE(88,68),45,4,1,.50,0
70 CIRCLE(166,68),45,4,1,.50,0
75 PAINT(128,96),4,4
80 GOTO 80
```



Press the <BREAK> key to exit the program.

EDITOR'S NOTE:

Since this issue of TRS-80 Computing was primarily written for beginner programmers, I decided to let you know what some of the abbreviations mean that you will come across when reading this magazine:

ECB:Extended Color BASIC-Most of the later color computer models have ECB unless upgraded.

CB:Color BASIC-All color computers have color BASIC

CoCo:Color Computer-A nickname sometimes used by color computer users.

K:The amount of memory your CoCo has. If your CoCo is not upgraded, this is usually how much "K" it has:

CoCo 1: 4K

CoCo 2: 16, 32, or 64K

CoCo 3: 128K

If there are any more questions that you might have, please write to us and we'd be glad to answer them. Also, be sure to look for our new Color LOGO section, and our yearly index in this issue.

*Joe Ahern*  
Joe Ahern  
Editor & Publisher



Become RASTANN, Warrior King, on the quest to regain his rightful crown, hidden deep within a sinister land. Battle monsters, gain magic and weapons, and travel through harsh wilderness and dark castle dungeons in this medieval realm. Warrior King uses the most detailed 320x200 16 color graphics and high speed machine code to vault you into a world of fantasy. Dare ye challenge the many perils ahead in order to become Warrior King? Req. 128K CoCo 3, disk drive, and joystick. Only \$29.95

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This is THE graphic adventure for the CoCo 3! Unparalleled 320x200 animated graphics will leave you gasping for more! You quest for the Phoenix Crossbow in this post-holocaust world of science and fantasy. In Quest of the Star Lord is a full 4 disk sides of mind-numbering adventure! Req. 128K CoCo 3 and disk drive. Only \$34.95. Hint Sheet: \$3.95



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# WHAT'S ON SALE?

Current computer sales @ Radio Shack

## TANDY MODEL 4D COMPUTER WITH DESKMATE



~~\$599.00~~

Reg. \$1199.00

The economical desktop computer for busy managers, professionals, and educators. Has 2 built-in double-sided drives for 736K of storage and 64K internal memory. Includes DeskMate software for word processing, filing, spreadsheet analysis and more! #26-1070

## OUR BEST DAISY-WHEEL PRINTER



~~\$497.00~~

Reg. \$995.00

DWP 520 Print 10 or 12 characters per inch or choose proportional spacing. With Courier 10 print wheel-many other type styles available. #26-2800

- \* "Electric Typewriter" Quality
- \* IBM PC Compatible
- \* 500 wpm

## EXCITING COLOR COMPUTER SOFTWARE (ROM CARTRIDGES)

Program	Reg.	Cat. No.	Sale
Downland	19.95	26-3046	14.95
Thexder	24.95	26-3072	14.95
Springster	24.95	26-3078	14.95
Shanghai	24.95	26-3084	15.95
Dungeons of Daggorath	29.95	26-3093	14.95
Baseball	19.95	26-3095	14.95
Spectaculator	29.95	26-3104	14.95
Personal Finance II	29.95	26-3106	9.95
Color Scripsit II	29.95	26-3109	14.95
Color File II	24.95	26-3110	14.95
Castle of Tharrogad	29.95	26-3159	15.95
A Mazing World of Malcom Mortar	29.95	26-3160	14.95
Soko-Ban	29.95	26-3161	19.95
Raid Warrior	29.95	26-3162	19.95
Super Pitfall	29.95	26-3171	19.95
GFL Championship Football II	29.95	26-3172	19.95

# THE PROGRAMMER



F E B R U A R Y

THIS MONTH'S PROGRAM  
LISTMAKER

# \*\*\* LISTER \*\*\*

BY DAVID McNALLY

This program is a simple program that prints out lists. Since it is so simple, it is a good program for beginners. There is a step-by-step description for every line for all 3 listings, plus a flowchart at the end. Make sure to type out the correct version for your computer. When done entering list, press <ENTER> to return to menu.

## LISTING 1: TRS-80 COLOR COMPUTER VERSION

1 DIM B\$(100),X(100)	< SETS VARIABLES TO HOLD 100 LIST ITEMS
5 CLS	< CLEARS THE SCREEN
10 PRINT"A. MAKE LIST"	
	< PRINTS MENU
12 PRINT"B. PRINT LIST"	
14 INPUT A\$	< LETS YOU INPUT YOUR SELECTION & STORES IT IN A\$
18 IF A\$="A"THEN 22	< IF THE <A> KEY IS PRESSED THEN IT GOES TO LINE 22
20 IF A\$="B"THEN 100	< IF THE <B> KEY IS PRESSED THEN IT GOES TO LINE 100
22 INPUT B\$(X)	< INPUTS ITEMS
24 IF B\$(X)=""THEN 5	< TO SEE IF LIST IS DONE
26 X=X+1:GOTO 22	< ADDS 1 TO X AND GOES TO LINE 22
100 D=X:X=1	< SET COMPUTER BACK TO BEGINNING OF LIST
102 FOR X=1 TO D	< SETS A LOOP TO PRINT LIST
104 PRINT#-2,B\$(X)	< PRINT
106 NEXT X	< ACTAVATES LOOP
110 GOTO 5	< RETURNS TO MAIN MENU (LINE 5)

## LISTING 2: APPLE II COMPUTER VERSION

1 DIM B\$(100),X(100)	< SETS VARIABLES TO HOLD 100 LIST ITEMS
5 HOME	< CLEARS THE SCREEN
10 PRINT"A. MAKE LIST"	
	< PRINTS MENU
12 PRINT"B. PRINT LIST"	
14 INPUT A\$	< LETS YOU INPUT YOUR SELECTION & STORES IT IN A\$
18 IF A\$="A"THEN 22	< IF THE <A> KEY IS PRESSED THEN IT GOES TO LINE 22

20 IF A\$="B"THEN 100	< IF THE <B> KEY IS PRESSED THEN IT GOES TO LINE 100
22 INPUT B\$(X)	< INPUTS ITEMS
24 IF B\$(X)=" "THEN 5	< TO SEE IF LIST IS DONE
26 X=X+1:GOTO 22	< ADDS 1 TO X AND GOES TO LINE 22
100 D=X:X=1	< SETS COMPUTER BACK TO BEGINNING OF LIST
102 FOR X=0 TO D	< SETS A LOOP TO PRINT LIST
104 PR# 1	< OPENS COMMUNICATIONS TO PRINTER
106 PRINT B\$(X)	< PRINT
108 NEXT X	< ACTIVATES LOOP
109 PR# 0	< CLOSSES COMMUNICATIONS TO PRINTER
110 GOTO 5	< RETURNS TO MAIN MENU (LINE 5)

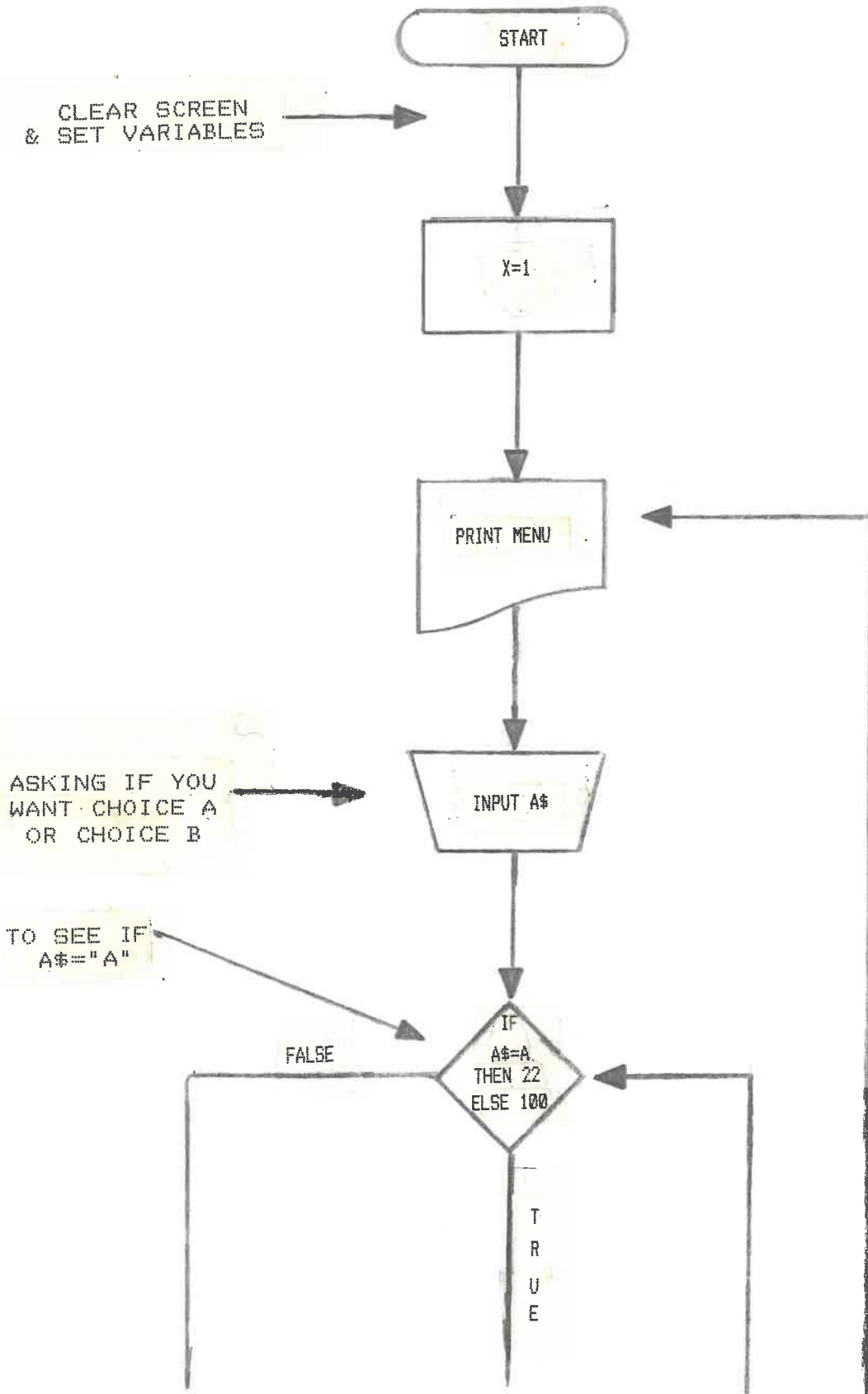
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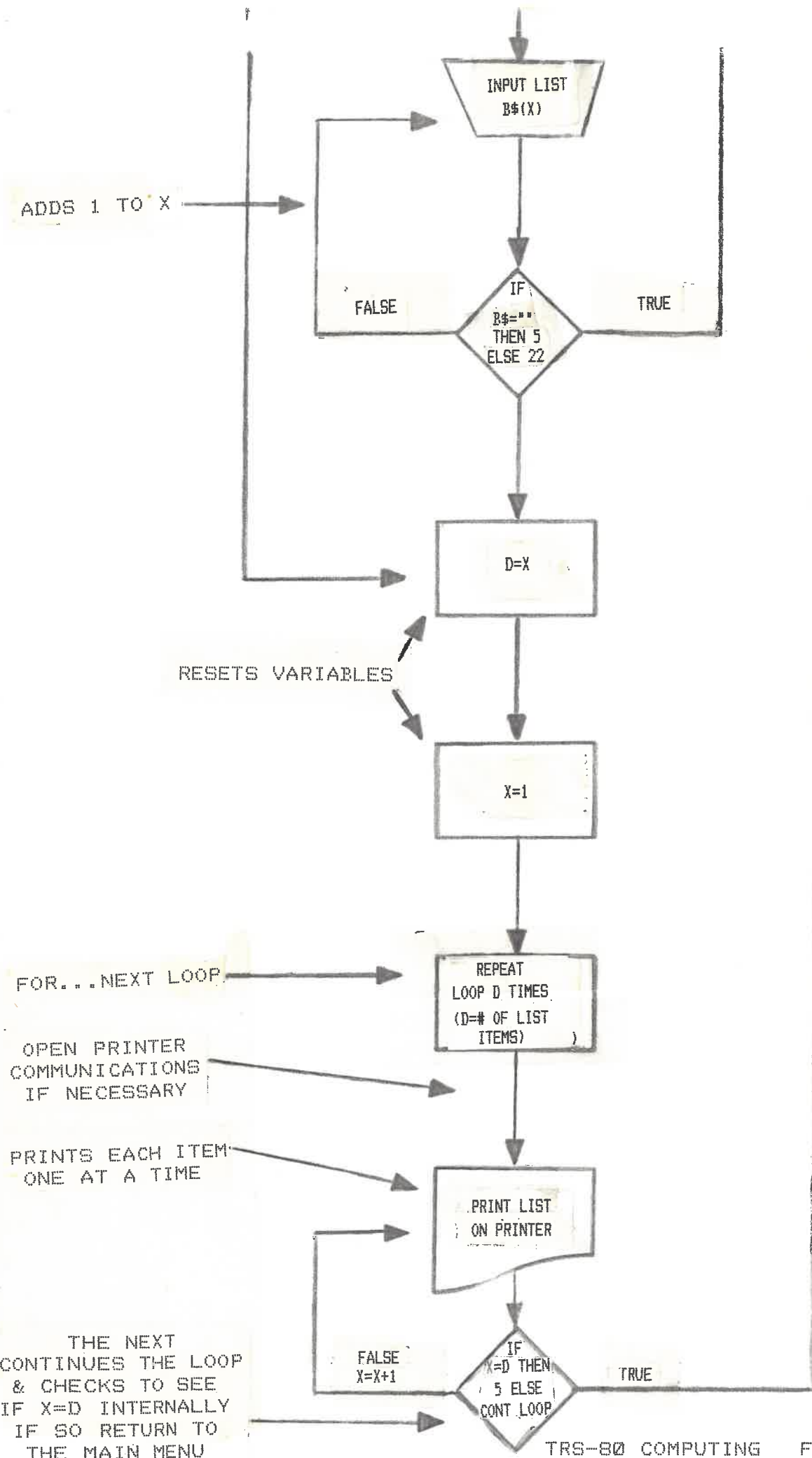
LISTING 3: COMMODORE 64/128 COMPUTER VERSION

1 DIM B\$(100),X(100)	< SETS VARIABLES TO HOLD 100 LIST ITEMS
5 PRINT CHR\$(147)	< CLEARS THE SCREEN
10 PRINT"A. MAKE LIST"	< PRINTS MENU
12 PRINT"B. PRINT LIST"	
14 INPUT A\$	< LETS YOU INPUT YOUR SELECTION & STORES IT IN A\$
18 IF A\$="A"THEN 22	< IF THE <A> KEY IS PRESSED THEN IT GOES TO LINE 22
20 IF A\$="B"THEN 100	< IF THE <B> KEY IS PRESSED THEN IT GOES TO LINE 100
22 INPUT B\$(X)	< INPUTS ITEMS
24 IF B\$(X)=" "THEN 5	< TO SEE IF LIST IS DONE
26 X=X+1:GOTO 22	< ADDS 1 TO X AND GOES TO LINE 22
100 D=X:X=X+1	< SETS COMPUTER BACK TO BEGINNING OF LIST
102 FOR X=0 TO D	< SETS A LOOP TO PRINT LIST
104 OPEN 4,4	< OPENS COMMUNICATIONS TO PRINTER
106 PRINT#4,B\$(X)	< PRINT
108 NEXT X	< ACTIVATES LOOP
109 CLOSE4	< CLOSSES COMMUNICATIONS TO PRINTER
110 GOTO 5	< RETURNS TO MAIN MENU (LINE 5)



# FLOWCHART FOR LISTMAKER





Beginners Series Part 1  
by David McNally

In this series you will learn what each vocabulary word means and how to use them within your own programs.

Let's start with the simple words.

1. LINE NUMBERS--Each line of a program must begin with a line number. You will learn why later.
2. BASIC--Means Beginners All-purpose Symbolic Instruction Code.
3. REM--Means remark. Computer ignores the rest of the line.

ex. 5 REM BY JOAN SMITH

4. PRINT"xxx"--Prints what's in "" on the screen (xxx=the message to be printed)

ex. 5 PRINT "HI"

5. END-- Ends the program.
6. CLS--Clears the screen.
7. LIST--Lists a program on the screen.
8. NEW--Clears memory
9. RUN--Starts a program
10. GOTO x--Tells the computer to go to a line (x=the line number to go to)

Lets try putting the words we have learned in a program.

EX. PROGRAM

```
5 REM BY JOAN SMITH
10 CLS
20 PRINT "HI, HOW ARE YOU?"
30 END
```

RUN

If the line numbers are out of order the computer automatically puts them in order.

TYPE: NEW

TRY TYPING

```
30 END
5 REM BY JOAN SMITH
20 PRINT "HI, HOW ARE YOU?"
10 CLS
```

NOW TYPE: LIST

As you can see the lines are now in order.

NOTE: Run, new, and list are all direct statements, therefore, doesn't require a line number.

TRS-80 COMPUTING ORDER FORM

I WANT:

- .... 3 ISSUES FOR \$4.33
- .... 6 ISSUES FOR \$7.66
- .... 12 ISSUES FOR \$12.99
- .... 1 ISSUE TO TRY IT \$1.00

I WILL PAY BY:

- .... CASH
- .... CHECK

NAME.....

ADDRESS.....

CITY.....STATE.....ZIP CODE.....

- \* MAGAZINES ARE SENT FIRST CLASS, AND IN YELLOW MANILLA ENVELOPES FOR CUSTOMERS LIVING OUTSIDE OF THE NEW ENGLAND STATES.
- \* WE ARE NOT RESPONSIBLE FOR ISSUES YOU DON'T RECEIVE AFTER WE SEND IT, BUT WE DO CHECK AFTER THE FIRST ISSUE TO SEE IF YOU GOT IT ALRIGHT.
- \* PLEASE PAY EXACT CHANGE.
- \* A RECEIPT WILL BE GIVEN WITH THE FIRST ISSUE YOU RECEIVE.

TOTAL PRICE INCLUDES:

- \* \$1.00 FOR EACH ISSUE.
- \* POSTAGE COST TO SEND MAGAZINE.  
(APP. \$.93)

THANK-YOU

SIGNED. *Joe. Ahern* ..... AND *David Mc. Kelly*

TRS-80 COMPUTING  
 C/O JOE AHERN  
 65 OAK ROAD  
 CANTON, MA. 02021

What if you typed:

```
30 GOTO 30
```

```
RUN
```

This program will never end because the computer will always stay in line 30. Press <BREAK> to stop the program.

TO TRY:

Try making some programs that are similar to the sample ones. Remember press <ENTER> after each line.

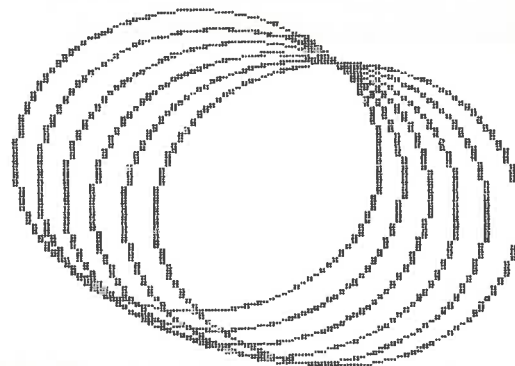
REMEMBER PRACTICE MAKES PERFECT!

## COLOR LOGO GRAPHICS PROGRAM

Starting this month, we will list a program in every issue that will run on Color LOGO or Super LOGO. Although some of them, such as this one, is compatible with Super LOGO only. The procedure below draws a spiral circle using simple REPEAT commands. There will probably be some tutorials on how to program with LOGO in future issues.

THE PROCEDURE: SPIRAL CIRCLE

```
TO CIRCLE  
FS  
PU  
FD 50 RT 90  
PD  
REPEAT 6 (REPEAT 360(RT 1 FD 1)  
RT 10)  
HT  
PS 1  
END
```



CIRCLE

## HOW TO USE THE INDEX

The following index covers the April/1988-December/1988 issues of TRS-80 Computing.

The first number you see is the magazine number. It can be 1, 2, 2b, 3, 4, or 5.

2 is the Reviews issue (May/1988)  
2b is the June/1988 issue.

The second number you see is the volume number. It is Volume 2.

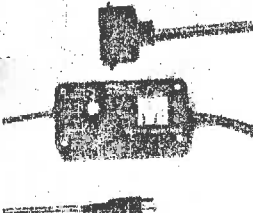
The third number(s) is(are) the page number(s).

The letters after the numbers tell what the entry is.

TRP means TRS-80 program  
ADV means advertisement  
AP means Apple program  
ART means article  
ORD means order form  
AA means article & advertisement  
CP means Commodore program  
TEP means TRS-80 ECB program  
AO means advertisement & order form  
TCS means TRS-80 computer song  
ALL means all computers  
PRT means printer program  
- means a special or note

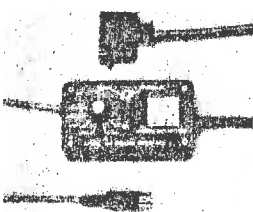
BOT means bottom  
LAST means last page

### METRIC INDUSTRIES, INC.



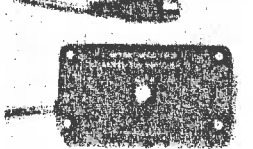
**Model 101  
Serial to Parallel Printer Interface**

- ★ Works with any COCO
- ★ Compatible with "Centronics" Parallel Input Printers
- ★ Just turn the knob to select any one of 6 baud rates 300-9600
- ★ Comes complete with cables to connect to your printer and computer
- ★ Can be powered by most printers



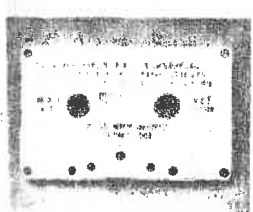
**Model 104 Deluxe Interface  
with "Modem Switch"**

- ★ Same Features as 101 Plus
- ★ Built in Serial Port for your Modem or other serial device
- ★ Switch between Serial Output and Parallel Output
- ★ Comes with cables to connect to your computer and printer
- ★ Can be powered by most printers



**Model 105 Serial Switch**

- ★ Connects to your COCO to give you 2 switch selectable Serial Ports
- ★ Comes with a 3 foot cable to connect to your computer
- ★ Now you can connect your Printer (or printer interface) and your Modem (or other serial device) to your COCO and flip the switch to use either device
- ★ Does not require power



**Cassette Label Printing Program**

- ★ New Version 2.1 prints 7 lines of information on Cassette labels
- ★ Comes on Tape with instructions to transfer to disk
- ★ Menu driven, very easy to use
- ★ Save and Load Labels from Tape and Disk
- ★ Uses the features of your printer to print standard, expanded, and condensed characters
- ★ Automatically Centers Each Line of Text
- ★ Allows editing of label before printing
- ★ Program comes with 24 labels to get you started
- ★ 16K ECB required

**Some of the Printers That Can --**  
Supply power for the 101 and 104 are Radio Shack, Star, Okidata, Brother, Juki, and Smith Corona.

**Some of the Printers That Cannot --**  
Supply power for the interfaces are Epson, Seikosha, Panasonic, Silver Reed and NEC. If your printer cannot supply power to the interface you can order your interface with the "P" option or you can supply your own AC adapter. We recommend the Radio Shack 273-1431 AC adapter with a 274-328 connector adapter.

**Write or call for more information or for technical assistance.**

**Price List**

<b>Model 101</b>	<b>35.95</b>
Model 101P	41.95
Model 104	44.95
Model 104P	51.95
Model 105	14.95
Cassette Label Program	6.95
Pin Feed Cassette Labels:	
White	3.00/100
Colors (specify)	3.60/C
Red-Blue-Yellow-Tan	

**4 Pin Din Serial COCO Cables:**

Male/Male 6 foot	4.49
Male/Female 6 foot	4.49
Female/Female 6 foot	4.49
Other Lengths Available.	

**All items covered by a 1 year warranty**

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- ★ On orders under \$50 please add \$2.50 for shipping and handling
- ★ On orders outside the U.S.A. please write or call for shipping charges

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- ★ C.O.D. - add \$2.25
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**P.O. Box 42396**  
**Cincinnati, OH 45242**  
**(513) 677-0796**

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HARDWARE AND SOFTWARE	3	2	13	ADV
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THE LIT MENORAH	5	2	2	TEP
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TRS-80 ON TAPE	5	2	18	ORD
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TRS-80 SOFTWARE	5	2	3	AA
VIDEO CHAMP GRAPHICS PROGRAMS	5	2	16	ADV
WHAT'S ON SALE?	5	2	4	ADV

GAMES BY THE WIZARD

1. Diary Keeper—Enter your personal stories, and keep them safe. On screen instructions. Easy to use. CoCo only \$2.95
2. Picture Plotter—Draw pictures with ease. Has color changing and text adding modes. When done, save your picture or print it on the printer. CoCo only \$1.95
3. Picture Plotter II—Just like Picture Plotter only it has cursor memory, diagonal line drawing, and shape drawing modes. Also you can save the screen in the computer's memory, draw something else, and then revive your old drawing. COMING SOON! CoCo only \$2.95
4. Advice Giver—Answers yes/no questions and gives advice. CoCo, Apple, & C64/128. \$1.50

BOOKS BY THE WIZARD

1. Fun—Ready—to—Run Computer Action games—Contains action games for all ages. Each program is less than a page long. CoCo only \$1.95
2. Writing BASIC Programs—Gives explanations about how to use the computer commands. CoCo, Apple, C64/128 \$1.95
3. How To Win at Dungeons of Daggorath—All the hints and tips you need to win the game. Also includes how to incant the rings and destroy the creatures. CoCo only \$2.00

ALL SALE PRICES END 3/31/89.

Send \$.50 for a catalog of all the Wizard's games.

ORDER FORM

PROGRAMS NAMES	PRICES	TOTAL

. NAME.....  
 . ADDRESS.....  
 . CITY.....STATE.....ZIP.....



SEND TO:

TRS-80 COMPUTING  
 ATTN: DAVID MCNALLY  
 65 OAK ROAD  
 CANTON, MA. 02021



ADVENTURE GAMES FROM THE VIDEO CHAMP

1. Critters—Can you find the nest where critters live? CoCo \$1.25
2. Dragons & Beasts—Can you get to the wizard to get out of the castle?  
CoCo \$1.25  
COMING SOON!
3. The Smurf's Adventure—Can you help Grouchy find his way home from being lost in a large forest? CoCo Tape \$4.95 Disk \$6.95 COMING SOON!

GRAPHICS PROGRAMS...

1. Rocket Launch—See a rocket up close & discover how it is to fly. \$.95
2. House—See a house with smoke coming out of the chimney. \$.95
3. Mysteries of the Sea—See a fish swim furiously around the screen. \$.95
4. The Cook's Color Treasury—This program provides you with 5 new recipes a month. Each month you get different programs that contain different types of recipes. So dig in and grab a bite! CoCo \$2.95 for each month.

NOTE: All the above programs require a CoCo with ECB.



Send \$.50 for a list of Video Champ's games. Send the name of the program and the money to:

JAMES FERRO  
33 ALGONQUIN ROAD  
CANTON, MA. 02021

# *The* **COOK'S** **COLOR TREASURY**



TRS-80 COMPUTING ON TAPE

IS IT A BACK ISSUE.....  
WHAT MONTH IS THE ISSUE YOU WANT ON TAPE?.....  
WHAT VOLUME IS IT?.....

WHAT IS YOUR NAME AND ADDRESS?.....

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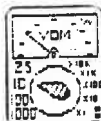
Can you save your partner?

THE LISTING: ADV1

```

5 REM *****
6 REM *ADVENTURE PROGRAM*
8 REM *BY DAVID MCNALLY!*
9 REM *****
10 CLS
12 PRINT"YOU ARE A COP AND YOUR PARTNER"
14 PRINT"IS TRAPPED IN A ROOM WITH A TIME"
16 PRINT"BOMB. THE BOMB IS ON A SMALL"
18 PRINT"TABLE AND ATTACHED TO IT IS A"
20 PRINT"STRING. THE STRING IS TIED TO"
24 PRINT"THE DOOR KNOB SO IF YOU OPEN"
26 PRINT"THE DOOR THE BOMB WILL GO OFF"
28 PRINT"SOONER THAN PROGRAMMED TO.":PRINT:PRINT"ANY KEY TO GO ON."
29 EXEC 44539:CLS
30 PRINT"YOU ARE OUTSIDE THE DOOR.":PRINT
32 PRINT"YOU PARTNER SEES A SMALL WIND-UP"
34 PRINT"TOY PLANE NEXT TO HIM."
36 PRINT"HE CAN NOT GET UP BECAUSE HE IS"
38 PRINT"TIED TO A WHEELCHAIR."
40 PRINT:PRINT"NOW WHAT":INPUT A$
42 IF A$=CHR$(69+2)+CHR$(67+2)+CHR$(82+2)+CHR$(32)+CHR$(80)+CHR$(74+2)+CHR$(67-2
)+CHR$(78)+CHR$(65+4) THEN 50
44 PRINT"YOU CAN'T DO THAT":FOR Y=1 TO 2000:NEXT Y:GOTO 40
50 PRINT"OK":FOR Y=1 TO 2000:NEXT Y:CLS:PRINT"NOW WHAT":INPUT B$
52 IFB$=CHR$(84)+CHR$(72)+CHR$(82)+CHR$(79)+CHR$(87)+CHR$(32)+CHR$(80)+CHR$(76)+
CHR$(68-3)+CHR$(78)+CHR$(66+3)+CHR$(32)+CHR$(65)+CHR$(84)+CHR$(32)+CHR$(66)+CHR$
(79)+CHR$(77)+CHR$(66) THEN56 ELSE 54
54 PRINT"YOU CAN'T DO THAT":FOR Y=1 TO 1080:NEXT Y:GOTO 50
56 CLS:PRINT"THE BOMB FALLS TO THE FLOOR ALLOWING"
58 PRINT"THE STRING TO SLACK AND YOU TO"
60 PRINT"OPEN THE DOOR. YOU SHUT THE"
62 PRINT"BOMB OFF WITH ONLY A SECOND TO"
64 PRINT"SPARE. GOOD JOB!":END

```



NOTE: Make sure you type out the CHR\$ codes very carefully in lines 42 & 52.

Change the CLS in lines 10, 29, 50, & 56 to HOME (for Apples) or to PRINT CHR\$(147) (on Commodores). Also change line 29 for Apple & Commodore to GET Z\$:IF Z\$="" THEN 29.

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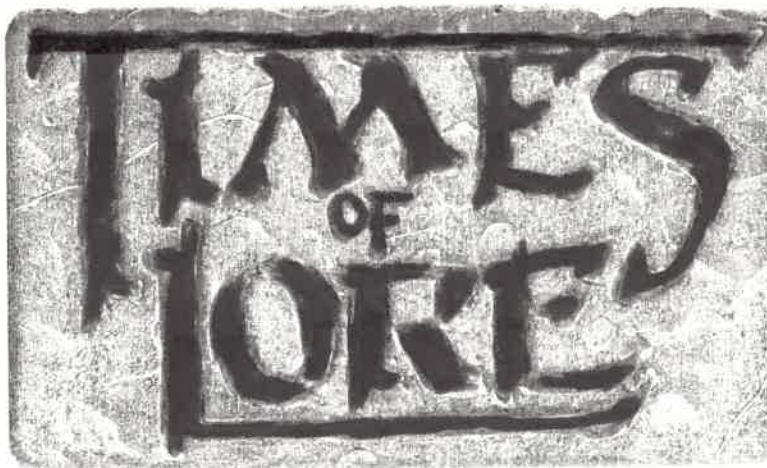
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