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Commodore 64, +4 Commodore Plus/4, 16 Commodore 16, 128 Commodore 128, PET/CBM, TI Texas Instruments, PC IBM PC, PCIr IBM PCJr, AM Amiga. *General interest.

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Earth will be destroyed in 12 minutes to make way for a hyperspace bypass. Should you hitchhike into the next galaxy? Or stay and drink beer?

Sip the disk in your computer and suddenly you are Arthur Dent, the dubious hero of THE HITCHHIKER'S GUIDE TO THE GALAXY, a side-splitting masterwork of interactive fiction by novelist Douglas Adams and Infocom's Steve Meretzky. And every decision you make will shape the story's outcome. Suppose for instance you decide to linger in the pub. You simply type, in plain English:

DRINK THE BEER

And the story responds: YOU GET DRUNK AND HAVE A TER-RIFIC TIME FOR TWELVE MINUTES, ARE THE LIFE AND SOUL OF THE PUB, THEY ALL CLAP YOU ON THE BACK

> AND TELLYOU WHAT A GREAT CHAP YOU ARE AND THEN THE EARTH GETS

UNEXPECTEDLY DEMOLISHED, YOU HAKE UP WITH A HANGOVER WHICH LASTS FOR ALL ETERNITY. YOU HAVE DIED. Suppose, on the other hand, you decide to:

EXIT THE VILLAGE PUB THEN GO NORTH In that case you'll be off on the most mind-bogglingly

hilarious adventure any earthling ever had. You communicate – and the story responds – in full sentences. So at every turn, you have literally thousands of alternatives. If you decide it might be wise, for instance, to wrap a towel around your head, just say so:



Other interactive science fiction stories from Infocom.

>WRAP THE TOWEL AROUND MY HEAD And the story responds: THE RAVENOUS BUGBLATTER BEAST OF

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Simply staying alive from one zany situation to the next will require every proton of puzzle solving prowess your mere mortal mind can muster. So put down that beer and hitchhike down to your local software store today. Before they put that bypass in.

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BALCOC

Joseph Russ

Catch as many balloons as you canbut be careful not to fall off your skateboard. This whimsical game was originally written for Atari computers with at least 16K RAM. We've added versions for the Apple II series, Commodore 64, IBM PC (with color/ graphics adapter and BASICA), IBM PCjr (with Cartridge BASIC), and TI-99/4A (with Extended BASIC). The 64, IBM, and Atari versions require a joystick. A joystick is optional with the TI version. The Atari and Apple versions can also be played with paddles.

them easy to catch (but worth the fewest points). The green balloons fall faster, but swiftest of all are the red balloons. As soon as you snare a balloon, it joins the pile on top of your head.

RAZY

Should you miss a balloon, you immediately fall off the skateboard. All the balloons on your head fall and pop. Points are scored only when you have caught the required number of balloons. You have three players to work with in each game: Falling off the skateboard costs you one player. Clearing all the balloons from a screen permits you to advance to the next level—where everything becomes more difficult. Bonuses are awarded at appropriate intervals, and you can earn an extra player by scoring 1,000 points. Though the balloons become harder to catch at higher levels, you are never helpless to prevent them from hitting the ground. Should a balloon miss the top of the pile, you can bounce it back into the air by holding down the fire button (or the space bar in some versions) and running into it. The balloon will then float back into the air, and you may try to catch it again.

"Balloon Crazy" is a game that children can enjoy, yet its higher levels are a challenge for adults. The goal is simple: You must zip back and forth across the screen on a skateboard while catching falling balloons on top of your head. Since some of the balloons fall very fast, that's not as easy as it sounds. After you've caught enough balloons (six in most versions), you can reach up to pop them, then catch some more. If you miss just one, you lose all the balloons currently in your possession.

Type in Balloon Crazy from the listing for your computer, then save a copy of the program before you try to run it. Every version of the game is similar, so be sure to read the general game rules before referring to the specific notes foryour computer.

Oodles Of Balloons

Atari Version

Balloon Crazy (Program 1) runs on any Atari computer with at least 16K RAM (or 24K for disk). Plug a joystick into port 1 before you run the game, and press START to begin. At the first level, you score 5 points for each green balloon, 10 for blue, and 15 for red. These values are multiplied at higher levels. A bonus player is awarded when you reach 1,000 points and at intervals thereafter. Move left and right with the joystick, and press the fire button when you want to hit a balloon. You must hit

90

6

 \odot 10

0:0

Each game begins by displaying several rows of multicolored balloons at the top of the screen. You are the skateboarder at the bottom. When a balloon begins to fall, move directly under it and catch it on your head. The blue balloons fall slowly, which makes

COMPUTEI December 1985

KAM word of 9, in the excite Ev 1985 callec game CGW' highe tory o awarded an extra player after completing level 5.

Apple Version

Apple II Balloon Crazy (Program 3) runs on Apple II-series computers with either DOS 3.3 or ProDOS. The listing must be entered using COMPUTE!'s "Apple MLX" machine language editor program found elsewhere in this issue. Be sure you understand the instructions for using Apple MLX before entering the data for Balloon Crazy. The MLX starting and ending addresses for the game are:

Starting address: 8000 Ending address: 8D97

After you've entered the game and saved a copy, start the game by entering:

BRUN "name"

where *name* is the filename you used when you saved Balloon Crazy.

You can play the game with a paddle on any Apple II computer: Move the paddle to control the player, and press the paddle button to bounce the balloon upward. Alternatively, keyboard controls can be used on the Apple IIc and Apple IIe: press the open-Apple key to move left, the closed-Apple key to move right, and the space bar to bounce. Four balloons must be collected to score points. If you miss a balloon completely, all the balloons on your head drift off into space and disappear. There are nine game levels. Red balloons do not appear until the second level, but each higher level contains more red balloons. You may pause the game by pressing RETURN; resume play by pressing the space bar.

the screen: Only three are required at first, but this number increases each time you clear an entire row of balloons. When clearing the top row of balloons, you must catch seven balloons to score. There is no way to bounce a missed balloon back into play. After clearing an entire screen of balloons, you may advance to the next screen.

Your final score reflects the number of balloons caught (no bonus is awarded). You may adjust the difficulty of the game by changing the statement DF=10 in line 120. The variable DF controls how close you must be to a balloon to catch it. Changing DF to a higher value makes the game easier, and decreasing it makes the game more difficult.

TI-99/4A Version

Balloon Crazy for the TI (Program 5) requires Extended BASIC and is played with either keyboard controls or a joystick. Press the S key to move left and the D key to move right. You cannot bounce a balloon back up after missing it. When you catch a balloon, it turns the same color as the player and immediately increases your score. At higher levels, the balloons fall faster and are worth more points. The game ends when you have lost all three players.



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IBM PC/PCjr Version

IBM PC/PCjr Balloon Crazy (Program 4) requires a joystick and BASICA (if you have a PC) or Cartridge BASIC (PCjr). You may want to unlock the horizontal axis of the joystick. Before the game begins, you have an opportunity to adjust the joystick if needed: Press Y when prompted and follow the instructions on the screen. In this version, all balloons are red and are worth the same number of points. The number of balloons you need to catch depends on how many rows of balloons are left on a

Program 1: Atari Balloon Crazy

For instructions on entering this listing, please refer to "COMPUTE!'s Guide to Typing In Programs'' published bimonthly in COMPUTEL

JE 1Ø	GOSUB 4500:GOSUB 5000:
	GOSUB 4000:GRAPHICS 17
	:POKE 756,CHS/256:POKE
	77, Ø: POKE 559, 62: REM
	INITIALIZATION
CH 2Ø	GOSUB 3500:GOSUB 3000
	GOSUB 2500
LP 4Ø	FOR BY≐BL TO 220 STEP
	SL:PM\$(P1+BY,D+BY)=B\$;
	GOSUB 500:GOSUB 1000:S
	OUND Ø, BY, 10, S: NEXT BY
	:SOUND Ø,Ø,Ø,Ø
FP 5Ø	BAL=BAL-1:GOSUB 1500:L
	F=LF-1:HIT=0:IF LF=0 T
	HEN 4100
10 60	SOUND Ø,Ø,Ø,Ø:PM\$(P1+B
	Y, D+BY) =N\$:HIT=0:POKE
	PC.1:GOSUB 1005:IF BOH



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≂6 OR BAL<1 THEN GOSUB 2000:BB=169:BOH=0 KE70 IF BALK1 THEN GOSUB 30 10 AE 80 GOTO 30 PF 499 REM MOVEMENT EC 500 S=STICK(0):PP=PP+((S= 7) - (S=11) + (PP < 65) - (PP>200))*3:POKE 53248,P P:RETURN



	1						
			BALL, PSET: PUT (50, 63), MAN,	MH 1050	DATA &HA8,&HAØØØ,&HØ,&H4	1	AT(I,1):A\$:: NEXT I
			PSET:FOR J=1 TO 100:NEXT:		Ø,&H1,&H2ØØ,&HA8	180	DISPLAY AT(10,8):"B A
			NEXT	0P 1060	DATA &H26,&H12,&H2020,&H		L L O O N" :: DISPLA
:	NA	72Ø	SKEW!=297/ABS(LX-TX)		20,&H0,&H2800,&H0,&H0		Y AT(13, 7): "C R A Z Y
	MH	73Ø	RETURN	NP 1070	DATA &H2828,&H800,&H2028		!" :: A=3 :: B=5 ::
	PC	74Ø	CLS:PUT(0,63),MAN:PUT (57		,&HA8,&H2AØØ,&HAØØ2,&H28	ĺ	
			,0), BALL: FOR I=2 TO 50 ST		,&H82Ø2	100	C=7
			EP 2: PUT (57, I-2), BALL: PU	୬. 1ø8∉	DATA &H2080,&H202,&HA80,	170	FOR I=1 TO 50 :: CALL
			T (57, I), BALL: PUT (1-2,63		&H2000,&H0,&H8,&HA000,&H		COLOR(9, A, 1, 10, B, 1, 1
), MAN: PUT (1,63), MAN, PSET		AØ88		1,C,1):: TEMP=A :: A=
			NEXT:RETURN				B :: B=C :: C=TEMP ::
	HΔ	750		00 10/72	DATA &H8,&H8028,&H2880,&		IF I≖3Ø THEN CALL SP
	1071	19	DATA &H2C,&H17,&HØ,&H5,&H Ø,&HØ,&H4Ø15,&HØ		HØ,&H88A2,&HAAØ,&H2ØØ,&H		RITE(#1,136,14,150,1,
	55	710	· · ·		808A		Ø,31)
	ΓŲ	100	DATA &HØ,&H5Ø55,&HØ,&HØ,&	FG 11Ø0	DATA &HAØØØ,&H28ØØ,&HØ,&	200	NEXT I :: CALL DELSPR
			H3ØCF,&HØ,&H3ØØ,&HCC3		H2000,&H0,&H200,&H8000,&		ITE(#1):: CALL CLEAR
	33	77Ø	DATA &HØ, &HJØØ, &HACAA, &HØ		HØ		:: GOSUB 49ø
			, & HØ, & HAØAØ, & HØ, & HØ	NN 1112	DATA &H80A,&HA0,&H400,&H	210	$DROP(\emptyset) = 15 :: DROP(1)$
	87	78ø	DATA &H802A, &H0, &H0, &HF, &		2000,&H0,&H10,&H0,&H0		=20 :: DROP(2)=25
			HØ, &HEØØ, &HEEEE, &HCØ	j£ 1120	DATA &HE,&HA,&H1,&HCØØF,	220	CALL CLEAR :: LEVEL=L
	ËÀ	79 Ø	DATA &HFBØØ, &HBBBB, &HBØ, &		&HCØØE,&H3,&HBØ38,&HCCCE		EVEL+1 :: BALL=24 ::
			HC003, MHEDEE, &H3C, &HF, &HB	80 1130	DATA &H1,&H800A,&HA028,&		GOSUB 57Ø
			Ø3B		H1450,&H30CF	230	DISPLAY AT(1,6);"LEVE
	ЭM	800	DATA &HF, &HFF, &HCØ2E, &HFØ				L:";LEVEL :: DISPLAY
ł			ØF,&HØ,&H4Ø15,&HØ,&HØ				AT(1,17):"SCORE:";SC
	GJ		DATA & HADAA, & HO, & HO, & HADA			~ ~ ~	
			A, &HØ, &HZØØ, &HABAØ, &HØ			Z4Ø	FOR R=3 TO 6 :: FOR C
	FJ		DATA &H200, &HABA0, &H0, &HA				=4 TO 29 STEP 5 :: CA
	_		00, &H2A80, &H0, &HA37, &H2A8				LL HCHAR(R,C,96+INT(R
			Ø				ND#3)#8):: NEXT C ::
	AB	83Ø	DATA &HCØØD, &HDADD, &HJACØ				NEXT R
			,&H7077,&H7737,&H1D40,&HC			25Ø	CALL HCHAR(24,1,122,3
			ØDD, &HA8ØØ				2):: CALL SPRITE(#1,1
	6P		DATA &H2C, &H17, &H900, &H5,				36,14,150,115,0,Н)
			%HØ, %HAØØØ, %H4Ø15, %HØ			260	BALL=BALL-1 :: IF BAL
	10		- •				L<Ø THEN 410
	16 (850	DATA &H8003,&H5055,&H0,&H			27Ø	BR=6 :: BC=4+INT(RND*

	_	CØØ3,&HC3,&HØ,&H3ØF,&H3CC F		2/10	BR=6 :: BC=4+INT(RND* 6)*5
	KH E	360 DATA &HØ,&H30F,&HACAA,&HØ		28Ø	GOSUB 120 :: CALL GCH
1		,&HCØØ3,&HAØAØ,&HØ,&HFØØ3		[AR(BR, BC, BT):: IF BT=
	KL B	BTØ DATA &HBØZA, &HØ, &HFCØØ, &H		1	32 THEN BR=BR-1 :: IF
		F,&HØ,&H2EØØ,&HEEEE,&HCØ	"Rollogue Charall for the TI CO LAA		BR=2 THEN 270 ELSE 2
	ĈN E	BØ DATA &HBØØ, &HBBBB, &HBC, &H	"Balloon Crazy" for the TI-99/4A can		80
		Ø,&HEØEE,&HFF,&HØ,&H8Ø3B	be played with the keyboard or a	290	POINT=(BT-96)/8 :: CA
	ÊG 🖪	390 DATA &HF, &HØ, &HCØZE, &HCØØ	joystick.		LL HCHAR(BR, BC, 32)::
		3,&HØ,&H4Ø15,&HCØØ3,&HØ			CALL SPRITE (#2, KHAR, K
	6C 9	00 DATA &HAØAA, &HCØØØ, &HØ, &H			OLOR(POINT), ROW-(6-BR
	,	AØAA, &HØ, &H2ØØ, &HABAØ, &HØ	Program 5: TI-99/4A	F) #8,8*(BC-2)-2, DROP(P
	51 9	10 DATA &H200, &HABA0, &H0, &HA			OINT),Ø)
	-	00,&H2A80,&H0,&HA37,&H2A8	Balloon Crazy	300	GOSUB 120 :: CALL COI
		Ø	Version by Patrick Parrish,		NC(#1,#2,15,C):: IF C
	AA 9	20 DATA &HC00D, &HDADD, &H3AC0	v ·		THEN 340
		,&H7077,&H7737,&H1D40,&HC	Programming Supervisor	310	CALL POSITION(#2, BROW
		ØDD,&HA8ØØ			,BCOL):: IF BROW<155
1	PH 9	30 DATA &H38,&H16,&H0,&H0,&H	90 REM REQUIRES EXTENDED		THEN 300
		Ø,&HØ,&HØ,&HØ	BASIC	320	CALL POSITION(#1, MROW
	EG 9	40 DATA &HØ, &HØ, &H1400, &HØ, &	100 GOTO 140		,MCOL):: IF (BCOL-MCO
	-• ,	HØ,&HØ.&H55.&HØ	110 CALL DELSPRITE(#2)::		L<16) # (BCOL-MCOL>-8) T
	08 9	50 DATA &HØ, &H55F1, &H4F, &HØ,			HEN C≈1 :: GOTO 34Ø
		&HF303,&HCF3C,&HC0,&HF00	CALL MOTION(#1,0,0,#3	330	
	HN 94	60 DATA &HF30C, &HF0F0, &H0, &H	,0,0):: RETURN	0.00	1 :: CALL DELSPRITE(#
		F3C, &HFØAA, &H3C, &H3CØØ, &H	120 CALL KEY(0,K,ST):: IF		3):: GOSUB 560 :: IF
		82ØE	ST≂Ø THEN CALL JOYST		MEN=Ø THEN 43Ø ELSE 4
	HN 9	70 DATA &H3CB0,&H0,&H23F,&H8	(1,H,V):: H=SGN(H)ELS E H=(K=DZ) (K (D)		ØØ
		Ø28, &HFC, &HFØØ, &HFFCØ, &HF	E H=(K=83)-(K=68)	34Ø	
		ØØ3	130 CALL MOTION(#1,0,60*H	340	
	BL 9	80 DATA &HØ, &HFBØ3, &HBFBB, &H):: RETURN		(PDINT+1) *LEVEL*5 ::
		Ø,&HØ,&HEE3E,&HEC,&HØ	140 DIM DROP(2),KOLOR(2):		SC=SC+(POINT+1) &LEVEL
	QJ 9	90 DATA &H300,&H80BB,&H0,&H0	: RANDOMIZE :: CALL M	750	*5
		,&HEEØØ,&HØ,&H770Ø,&HØ	AGNIFY(4)	320	IF SC2>=1000 THEN MEN
	PB 19	ØØØ DATA &HBB, &HDDØØ, &HCØ1D,	150 CALL CHAR(136,"030303		=MEN+1+(MEN=3):: SC2=
		&H5500,&H300,&H774,&HA24	Ø30103070B0B0B0702020	740	Ø :: GOSUB 57Ø
		Ø,&HBAAA	20F0480C080800080C0A0		IF C=Ø THEN 400
	LG 19	Ø1Ø DATA &HDØØ1,&HE2Ø1,&HAAA	908080808080F020")::	570	CALL POSITION (#1, MROW
		A SUCTA SUSA SUSATE SUS	REM SKATEBOARD MAN		.MCOL):: CALL SPRITE(

4

A, & H8BAA, & H4Ø, & HAA7A, & HA AAA, & HAD
D5 1020 DATA & H1A00, & H820A, & HA4A Ø, & H0, & H4, & H0, & H10, & HA00 2
№ 1030 DATA & H14, & HD, & HA802, & H2 A00, & H80BE, & HAFAA, & HAAA0 , & HA0AF
№ 1040 DATA & HAFAA, & HAAA0, & HA0A F, & HAE2A, & H2A80, & H80AA, & HAA0A, & H200 160 FOR I=96 TO 112 STEP 8 :: CALL CHAR(I, "ØØ3 87C7C7C381ØØØ"):: NEX T I :: LEVEL, SC, SC2=Ø :: MEN=3 :: ROW=41 : : KHAR=1ØØ 170 CALL CLEAR :: CALL SC REEN(16):: A\$=RPT\$("` hp",9):: FOR I=1 TO 2 4 STEP 23 :: DISPLAY

#3,100,14,118,MCOL)
380 FOR I=1 TO 50 :: NEXT
 I :: CALL SPRITE(#1,
 140,14,MROW,MCOL)
390 CALL SPRITE(#3,124,14
400 CALL HCHAR(1,3+MEN,32
):: DISPLAY AT(1,12):
 LEVEL;:: DISPLAY AT(1,12):
 LEVEL;:: GOTO 260
410 FOR G=300 TO 1200 STE

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- All Apple II computers (II, II Plus, IIe, IIc).
- Apple Macintosh (Microsoft BASIC required)
- P 100 :: CALL SOUND(8 Ø, G, 1):: NEXT G :: FO $R I = \emptyset TO 2 :: DROP(I)$ =DROF(I)+2 :: NEXT I 420 CALL DELSPRITE(ALL):: GOTO 22Ø 430 CALL SCREEN(11):: IF SC>HS THEN HS=SC 440 CALL DELSPRITE(#1):: CALL CLEAR :: DISPLAY AT(8,5): "YOUR SCORE: ";SC :: DISPLAY AT(1 1,5):"HIGH SCORE: ";H 450 DISPLAY AT(16,5): "PLA Y AGAIN (Y/N)? " :: A CCEPT AT(16,24) BEEP V ALIDATE("NYny")SIZE(1):REP\$ 460 IF REPS="N" THEN STOP 470 CALL SCREEN(16):: MEN **■3 ::** LEVEL,SC,SC2**=**Ø :: GOTO 21Ø 480 REM SET COLORS 490 CALL COLOR(9,5,1,10,3 , 1, 11, 7, 1, 12, 13, 1, 13, 14,1) 500 FOR J=0 TO 2 :: READ KOLOR(J):: NEXT J 510 DATA 5,3,7 520 CALL CHAR(100, "000000 ØØØØØØØØØØØØØØØØ7Ø7Ø7Ø 301000000000000000000000

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Jim Butterfield, Associate Editor

keep track of important dates, holidays, and personal events with this simple, easy to use BASIC program. It was originally written for Commodore computers (with at least 8K RAM and a tape or disk drive), and modifications are included for the Atari 400/800, XL, and XE (with at least 16K RAM for tape or 24K RAM for disk); Apple II series (disk only DOS 3.3 or ProDOS); IBM PC and Enhanced Model PCjr (disk only); and TI-99/4. A with Extended BASIC (disk or tape).

1), followed by line changes for routinely running Memo Diary and recall birthdays, holidays, apeach different computer. No matter pointments, or any other event each time you use your computer, which computer you're using, you'll no longer have to worry worth remembering. The program you'll need to type in Program 1 about forgetting to mail a birthday maintains a data file with as many plus the modifications for your maas 100 events whose dates can card to a relative or finding an annichine. However, before typing anyversary gift for a spouse. range from tomorrow to one year in thing, cross out every line in The program always shows the the future. You can record two dif-Program 1 that has the same line correct day of the week when you ferent types of dates: temporary, number as a line in the listing for enter a date, and you need to enter one-time events such as appointyour specific computer. The idea is the year only once—the very first ments which have no importance to eliminate duplicate lines from once they have passed; and permatime you run the program. After the main program; they're replaced that (for the next 99 years, anyway) nent, recurring events such as birth-

tains common routines (Program days and anniversaries. By "Memo Diary" helps you record

Memo Diary keeps track of the year for you. Each time you run the program, it automatically shows all due and overdue events on the screen or printer, and erases onetime events from the calendar after they're displayed.

You can enter temporary or recurring new events and erase existing events whenever you wish. You can also examine all events from the current date forward, or search the entire calendar for events matching a given starting pattern. Finally, Memo Diary saves your calendar either on disk or tape.

Typing The Program

We've listed Memo Diary in the form of one main program that con-

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by lines from the version for your computer. For example, if you're using an Atari, you would cross out line 150 in Program 1, because there's already a line 150 in the Atari listing (Program 3).

After crossing out duplicate lines in Program 1, type in the listing for your computer. Once that's done, type in every line of the Program 1 that's not crossed out. Be sure to save a copy of the program and read the instructions before running it.

The first time you run Memo Diary is special. Do not start the program by entering RUN. For every version except Atari you should type RUN 100 and press RETURN (or ENTER on the TI and IBM). Atari users should type CLR: GOTO 100 and press RETURN. If you don't do this, the program will not work correctly. When you start the program at line 100, Memo Diary lets you enter the correct year without looking for a previous file of events. Thereafter, start the program with RUN in the usual way. On the first run you'll probably want to enter fixed holidays such as New Year's Day as well as birthdays and anniversaries. These are permanent events that you won't need to enter year after year. A holiday like Thanksgiving should be entered as a one-time event since it falls on a different date each year. When Memo Diary asks you to enter today's date, you can type in the name of the month (such as OCTOBER) or its number (such as 10). In either case, be careful to enter it correctly. Memo Diary lets you enter any day of the month from 1 to 31, so it won't mind if you specify the date as February 30. Mistakes like these may confuse the calendar file. For instance, if you use the program on July 4 and the next day mistakenly give the date as June 5, the computer thinks you've let almost a whole year go by. To warn you of this, Memo Diary displays HAPPY NEW YEAR. If you see this message when a new year hasn't arrived, stop the program and start over, entering the correct date. A Memory Jogger Except for the very first run, Memo Diary always begins by reporting

all due and overdue events ("You just missed your anniversary"). Take careful note of these events, since they'll soon be erased from the calendar (if they're temporary events) or moved ahead to next year (if they're permanent). To help jog your memory, Memo Diary also lets you make a copy of the list of events on your printer.

After disposing of due and overdue events, Memo Diary displays five options: You can see future events, add a new event, cancel an event, search for an event, or quit the program. You'll ordinarily want to look ahead to see what's coming in the next week or two. To do this, choose Option 1 (see future events) and supply an appropriate future date when requested. If you enter the current date when looking at future events, Memo Diary assumes you mean the same date *next* year and gives you everything on file. When you want to make a new entry, select Option 2 (add new event). First Memo Diary asks whether the new event is one-time or permanent. Then it lets you enter the date and details. Again, the current date is understood as one year from today (it's assumed you don't need to record an event that's happening the same day). To cancel an event (Option 3), you must know its date. When an event is entered, you're shown every item scheduled for that date, each with its own code number. To cancel an event, type in its code number when prompted. Option 4 (search for event) lets you search for an event based on the first few letters of the entry. You may find many events in the course of a search. For instance, if the calendar file contains the events CLUB MEETING, CLUB CONFERENCE, and CLUB ELECTION, searching for CLUB displays all three events. In this case you would not see the entry CANADIAN CLUB, since CLUB is spotted only if it's in the first word of the entry. Thus, if you plan to search for certain keywords (BIRTHDAY, CHURCH, SOFT-BALL, or whatever) keep them at the front of each calendar entry. After you've finished an option, Memo Diary always returns you to the main menu. Sooner or later you'll be ready to use Option 5

(quit). The program knows when it's time to update the calendar file. If you've erased past and overdue events, added or deleted items, Memo Diary will-with your permission—proceed to update the data file on disk or tape.

The Time Pivot

A program that handles dates can encounter some subtle paradoxes. Does August come before April, or after it? The correct answer is *both*. Memo Diary could resolve this difficulty by adding a year designation to every event, but that complicates the handling of permanent events, which don't belong to a specific year. This is not a trivial problem: If you schedule a new event for August, the program must decide whether to add the event to the calendar ahead of an existing April event, or after it. Without a year designation, how can anyone tell? The problem is solved by using a *pivot* date, usually the same as the current date. If today is July 4, August does indeed come before April. On the other hand, if today is November 11, April comes before August. Since the calendar always looks one year into the future, everything is kept in order. However, there's one case in which the pivot date can't be the current date. Each time the program begins, it must measure the time lapse since its last use. For example, say that you last used the program on August 20, 1985 and next use it on September 4, 1985. On the first run (August 20) Memo Diary uses August 20 as the pivot. That way an event dated September 1 is seen ahead of another item dated in October. On the second run (September 4) the September 1 event is reported as past due and either erased from the calendar (if it's temporary) or moved ahead to September 1 of next year (if it's permanent). Once this is done, the pivot date moves forward to September 4, meaning that a September 1 event now belongs after an item dated in October. Don't worry if this sounds confusing: It works out more simply in practice than in theory. The day of the week is worked out with a simple formula. If you haven't seen it before, here's a hint on how it works. The calendar is

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m $\mathbf{T}\mathbf{h}$ put As

modified to make March 1 the first day of the "adjusted year." This way, leap year with its extra February 29 date doesn't break up the sequence of days: The extra leap day just gets pasted onto the year's end. Though the math is a bit convoluted, you may find it interesting to trace the logic of this routine (it starts at line 2150).

Expanding The Calendar

Memo Diary can keep track of a maximum of 100 events. In practice it's wise to limit the number to 80 or 90 to leave room for permanent events that move automatically from the front to the back of the list. If you need more than 100 events, change the L\$ value in the DIM statement. Line 150 contains the value L\$(100). You can increase the 100 to whatever number you like, but don't get carried away. Since Memo Diary (except the Atari version) uses string arrays, a very large value may cause garbage collection delays. There's no particular limit to the number of events allowed for a particular date.

proceeds to the main menu. Line 680 begins a main activity loop: It prompts with the menu, asks for a choice, then goes to the appropriate subroutine. Line 850 lets you see future events. Since the pivot date is now today, the program scans to the requested future date to see how many events fall into the today-to-future-date range.

Line 940 lets you add a new event. After asking ANNUAL OR ONE-TIME? the program requests the event's date and then asks for details. After adding a year designation to the date of one-time events, the new event is inserted into the proper sequence. Line 1210 lets you cancel an event. Memo Diary asks for a date and then lists all events that match that date. At line 1350, the program asks which event to delete. Note that the number you supply must be in the correct range.

Line 1450 begins the searchfor-an-event routine. After it receives a search string (P\$), the program looks for a match. When it scans through the calendar, it must look in different places depending on whether the event is one-time or permanent. That's because onetime events carry a year designation, making their dates three characters longer.

and a second date (D8\$). There are three dates involved: event, pivot, and the second date, which makes the comparison a bit messy. Boolean variables keep everything in order. Eventually, the variable F0 indicates the date is in range, and the variable L0 indicates when the last event is found within the date range.

The routine starting at line 4020 displays the information, on the printer if desired. (TI users should change line 4070 to match their printer configuration.) The date is given complete with the day of the week, and events falling on the same day are grouped together. The weekday calculation begins at line 2150. The weekday variable, W, ranges from 0 to 6, so 0 means Sunday. As written, this routine is good for years ranging from 85 (1985) to 84 (2084). If you want to plan more than 99 years in advance, you'll need to modify the routine.

Program Notes

Let's take a look at the program's major features. Line 90 prepares Memo Diary to read a file. The variable F is a *Boolean* (logical) variable that's defined as *true* here, to let you read the calendar file on a normal run. When you enter at line 100 on the first run, F is *false* (like every other undefined variable) and no file is read.

DATA statements in lines 110-140 hold the names of the months of the year and days of the week; the names are read into the arrays M\$ and W\$. Line 150 dimensions the L\$ array for 100 items. Lines 230–250 call for a reading of the calendar file if appropriate. This is done in the subroutine at line 3010. When Memo Diary reads this file, it detects and reports the last date the file was used. Line 260 asks for today's date; the subroutine at line 1670 asks for and accepts the date. Now it's time to search for due and overdue events. Using the previous date as a pivot, the subroutine at line 1960 scans for all events up to today's date. The program reports these events, erases them, or moves them ahead as needed, and | dates between the pivot date (D9\$) |

A Horrible Mistake?

Line 1570 handles the quit option; the flag F9 registers activity. If you haven't changed any of the data, there's no need to update the calendar file. Before scratching the old file and writing the new one, the program asks whether you're ready. That way, if you made some horrible mistake, you can cancel the file update.

The main loop ends at line 1580 and is followed by several subroutines. The routine starting at line 1590 writes a new calendar file when appropriate, and line 1670 begins the date input routine. The date is formed into a string (D8\$) to allow for easy searches or entry. The subroutine at line 1930 reads the calendar file. The first item in the file is always the most recent date of use; the remaining data is events. The subroutine at line 1960 scans all events to see which have

Program 1: Memo Diary Main Program

Please refer to instructions in the article before entering this listing.

90 F=(l=1)
100 GOSUB 2250
110 DATA JAN, FEB, MAR, APR, MAY, J
UN
120 DATA JUL, AUG, SEP, OCT, NOV, D
EC
130 DATA SUNDAY, MONDAY, TUESDAY
,WEDNESDAY
140 DATA THURSDAY, FRIDAY, SATUR
DAY
150 DIM M\$(12),W\$(6),L\$(100)
160 FOR J=1 TO 12
170 READ M\$(J)
18Ø NEXT J
190 FOR J=0 TO 6
200 READ W\$(J)
210 NEXT J
220 PRINT "EVENT CALENDAR"
23Ø IF F≠Ø THEN 26Ø
24Ø C=1
250 GOSUB 3010
260 PRINT "TODAY'S DATE:"
27Ø Y8=Y9
280 GOSUB 1670
29Ø M8=M
300 D8=D
310 IF M8>=M9 THEN 330
32Ø Y8=Y9+1
330 IF M8<>M9 OR D8>=D9 THEN 3
5 <i>0</i>

34Ø Y8=Y9+1 350 IF Y8<=Y9 THEN 370 360 PRINT "HAPPY NEW YEAR" 370 IF F THEN 400 380 PRINT "YEAR"; 390 INPUT Y8 400 D9\$=RIGHT\$(STR\$(100+M9),2) +"/" 410 D9\$=D9\$+RIGHT\$(STR\$(100+D9)),2)

420 IF F THEN 440	1150 D8\$=D8\$+" "	186Ø Y=Y8
430 D9\$=D8\$	1160 L\$(L0+1)=D8\$+LL\$	1865 IFD8\$=D9\$ANDFL=1THEN188Ø
440 F = (1=1)	117Ø L9=L9+1	187Ø IF D8\$>=LEFT\$(D9\$,5) THEN
		· · · · · · · · · · · · · · · · · · ·
450 GOSUB 1960	1180 L=L9	1890
460 PRINT "PAST EVENTS: ";	1190 F9=-1	1880 Y=Y8+1
470 IF LØ>=0 THEN 500	1200 GOTO 680	1890 GOSUB 2150
480 PRINT "NONE"	1210 PRINT "CHANGE WHICH DATE:	1900 IF LEN(LL\$)<=0 THEN 1920
49Ø GOTO 65Ø		1910 PRINT "(";W\$(W);")"
500 PRINT LØ+1	1220 GOSUB 1670	1920 RETURN
51Ø GOSUB 4Ø1Ø	1230 LØ=-1	1930 C=1
	1240 FOR J=L8 TO L9-1	1940 GOSUB 3010
520 F9 = -1		
530 FOR J=0 TO L0	1250 IF D8\$<>LEFT\$(L\$(J),5) TH	1950 RETURN
540 IF MID\$(L\$(J),6,1)="/" THE	EN 1300	1960 LL\$=CHR\$(255)
N 57Ø	1260 L1=J	1970 LØ=-1
55Ø L\$(L9)=L\$(J)	1270 IF LØ<>-1 THEN 1290	1980 IF L<>0 THEN 2000
56Ø L9≕L9+1	1280 LØ=J	1990 RETURN
570 NEXT J	1290 PRINT J;": ";L\$(J)	2000 V\$=D8\$+LL\$
580 L8=L0+1	1300 NEXT J	2010 WW\$=D9\$
590 FOR J=L8 TO L9-1	1310 IF LØ<>-1 THEN 1340	
		2030 WW\$=D9\$+LL\$
6ØØ L\$(J-L8)=L\$(J)	1320 PRINT "NO EVENTS"	2040 Fl=(WW\$>V\$)
610 NEXT J	1330 GOTO 730	2050 FOR J=L8 TO L9-1
620 L9=L9-L8	1340 PRINT	2060 F2=(L\$(J)>WW\$)
		2070 F3 = (V\$>L\$(J))
630 L8=0	1350 PRINT " DELETE WHICH EVEN	
64Ø L≒L9	T ABOVE";	2080 F0=F2 AND F3
65Ø F=Ø	1260 TATAL	2090 IF F1=0 THEN 2110
66Ø F9=Ø	1360 INPUT A	2100 F0=F2 OR F3
	1370 IF A <lo a="" or="">L1 THEN 730</lo>	2110 IF F0=0 THEN 2130
67Ø D9\$=D8\$	1380 FOR J=A TO L9-1	
680 L=L9-L8	1390 L\$(J)=L\$(J+1)	2120 LØ=J
690 IF L<>0 THEN 710		2130 NEXT J
700 PRINT "NO FUTURE EVENTS"	1400 NEXT J	2140 RETURN
	1410 L9=L9-1	
710 IF L=0 THEN 730	1420 F9=-1	2150 IF Y>=85 THEN 2170
720 PRINT L;" FUTURE EVENTS"	1430 PRINT " DELETED"	216Ø Y=Y+1ØØ
730 PRINT	144Ø GOTO 68Ø	2170 Ml=M+1
		2180 M2 = INT(1/M1+.7)
740 PRINT "1. SEE FUTURE EVENT	1450 PRINT "SEARCH FOR";	
S"	1460 INPUT P\$	219Ø M3=Y-M2
750 PRINT *2. ADD NEW EVENT"	1470 P=LEN(P\$)	22ØØ M4=M1+12*M2
		· · · · · · · · · · · · · · · · · · ·
		2210 N=INT(M4*30.6001)+INT(M3*
760 PRINT "3. CANCEL EVENT"	1480 FOR J=0 TO L9-1	
	1480 FOR J=0 TO L9-1 1490 A=7	365.25)+D
760 PRINT "3. CANCEL EVENT"	1480 FOR J=0 TO L9-1 1490 A=7	365.25)+D 2220 M6=INT(N/7)
760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT "	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6
760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT"	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520	365.25)+D 2220 M6=INT(N/7)
760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN
760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147)
760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN
760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE
760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN
760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J)	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE
760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE
760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J)	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE
760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE
760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH"	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE
<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:"</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications
<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE
760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications For Commodore
<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications For Commodore For instructions on entering this listing please
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760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1960	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)";	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications For Commodore For instructions on entering this listing please
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<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1960 875 IF D8\$=D9\$ THEN L0=L9-1 880 IF L0<>-1 THEN 910 890 PRINT "NO EVENTS"</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)"; 1600 INPUT P\$	365.25)+D 2220 M6=INT (N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications For Commodore For instructions on entering this listing please refer to "COMPUTE!'s Guide to Typing In Programs" published bimonthly in COMPUTE!.
<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1960 875 IF D8\$=D9\$ THEN L0=L9-1 880 IF L0<>-1 THEN 910</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)"; 1600 INPUT P\$ 1610 IF LEFT\$(P\$,1)="Y" THEN 1 630	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE 4000 REM PRINT ROUTINE For instructions on entering this listing please refer to "COMPUTE!'s Guide to Typing In Programs" published bimonthly in COMPUTE!. 255 IF E=0 THEN 260 :rem 164 256 F=0 :rem 80
<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1960 875 IF D8\$=D9\$ THEN L0=L9-1 880 IF L0<>-1 THEN 910 890 PRINT "NO EVENTS" 900 GOTO 920</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)"; 1600 INPUT P\$ 1610 IF LEFT\$(P\$,1)="Y" THEN 1 630 1620 STOP	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE 4000 REM PRINT ROUTINE For instructions on entering this listing please refer to "COMPUTE!'s Guide to Typing In Programs" published bimonthly in COMPUTE!. 255 IF E=0 THEN 260 :rem 164 256 F=0 :rem 80 1575 IFOTHENCLOSE15 :rem 187
<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE {1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1960 875 IF D8\$=D9\$ THEN L0=L9-1 880 IF L0<>-1 THEN 910 890 PRINT "NO EVENTS" 900 GOTO 920 910 GOSUB 4010</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)"; 1600 INPUT P\$ 1610 IF LEFT\$(P\$,1)="Y" THEN 1 630 1620 STOP 1630 D9\$=D9\$+"/"	365.25)+D $2220 M6=INT(N/7)$ $2230 W=N-7*M6$ $2240 RETURN$ $2250 PRINT CHR$(147)$ $2260 RETURN$ $3000 REM INPUT/OUTPUT ROUTINE$ $4000 REM PRINT ROUTINE$ $For instructions on entering this listing please refer to "COMPUTE!'s Guide to Typing In Programs" published bimonthly in COMPUTE!.$ $255 IF E=0 THEN 260 :rem 164$ $256 F=0 :rem 80$ $1575 IFOTHENCLOSE15 :rem 187$ $3010 F$="EVENTS" :rem 132$
<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE {1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1670 865 FL=0 870 GOSUB 1960 875 IF D8\$=D9\$ THEN L0=L9-1 880 IF L0<>-1 THEN 910 890 PRINT "NO EVENTS" 900 GOTO 920 910 GOSUB 4010 920 PRINT L9-L0-1;" OTHER FUTU</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)"; 1600 INPUT P\$ 1610 IF LEFT\$(P\$,1)="Y" THEN 1 630 1620 STOP	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications For Commodore For instructions on entering this listing please refer to "COMPUTE!'s Guide to Typing In Programs" published bimonthly in COMPUTE!. 255 IF E=0 THEN 260 :rem 164 256 F=0 :rem 80 1575 IFOTHENCLOSE15 :rem 187 3010 F\$="EVENTS" :rem 132 3020 PRINT"DISK OR CASSETTE (D
<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1670 875 IF D8\$=D9\$ THEN L0=L9-1 880 IF L0<>-1 THEN 910 890 PRINT "NO EVENTS" 900 GOTO 920 910 GOSUB 4010 920 PRINT L9-L0-1;" OTHER FUTU RE EVENTS"</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)"; 1600 INPUT P\$ 1610 IF LEFT\$(P\$,1)="Y" THEN 1 630 1620 STOP 1630 D9\$=D9\$+"/"	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications For Commodore For instructions on entering this listing please refer to "COMPUTE!'s Guide to Typing In Programs" published bimonthly in COMPUTE!. 255 IF E=0 THEN 260 :rem 164 256 F=0 :rem 80 1575 IFOTHENCLOSE15 :rem 187 3010 F\$="EVENTS" :rem 132 3020 PRINT"DISK OR CASSETTE (D /C)?" :rem 4
<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE {1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1670 865 FL=0 870 GOSUB 1960 875 IF D8\$=D9\$ THEN L0=L9-1 880 IF L0<>-1 THEN 910 890 PRINT "NO EVENTS" 900 GOTO 920 910 GOSUB 4010 920 PRINT L9-L0-1;" OTHER FUTU</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)"; 1600 INPUT P\$ 1610 IF LEFT\$(P\$,1)="Y" THEN 1 630 1620 STOP 1630 D9\$=D9\$+"/" 1640 D9\$=D9\$+RIGHT\$(STR\$(Y8+10 0),2)	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications For Commodore For instructions on entering this listing please refer to "COMPUTE!'s Guide to Typing In Programs" published bimonthly in COMPUTE!. 255 IF E=0 THEN 260 :rem 164 256 F=0 :rem 80 1575 IFOTHENCLOSE15 :rem 187 3010 F\$="EVENTS" :rem 132 3020 PRINT"DISK OR CASSETTE (D /C)?" :rem 4
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<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1960 875 IF D8\$=D9\$ THEN L0=L9-1 880 IF L0<>-1 THEN 910 890 PRINT "NO EVENTS" 900 GOTO 920 910 GOSUB 4010 920 PRINT L9-L0-1;" OTHER FUTU RE EVENTS" 930 GOTO 730 940 PRINT "ANNUAL OR ONE-TIME</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)"; 1600 INPUT P\$ 1610 IF LEFT\$(P\$,1)="Y" THEN 1 630 1620 STOP 1630 D9\$=D9\$+"/" 1640 D9\$=D9\$+RIGHT\$(STR\$(Y8+10 0),2) 1650 C=2 1660 GOTO 3010	365.25)+D 2220 M6=INT (N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications For Commodore For instructions on entering this listing please refer to "COMPUTEI's Guide to Typing In Programs" published bimonthly in COMPUTE!. 255 IF E=0 THEN 260 :rem 164 256 F=0 :rem 80 1575 IFOTHENCLOSE15 :rem 187 3010 F\$="EVENTS" :rem 132 3020 PRINT"DISK OR CASSETTE (D /C)?" :rem 4 3030 GETA\$:IF((A\$<>"C")AND(A\$< >"D"))ORA\$=""THEN3030
<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1960 875 IF D8\$=D9\$ THEN L0=L9-1 880 IF L0<>-1 THEN 910 890 PRINT "NO EVENTS" 900 GOTO 920 910 GOSUB 4010 920 PRINT L9-L0-1;" OTHER FUTU RE EVENTS" 930 GOTO 730 940 PRINT "ANNUAL OR ONE-TIME {SPACE}(A/O)";</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)"; 1600 INPUT P\$ 1610 IF LEFT\$(P\$,1)="Y" THEN 1 630 1620 STOP 1630 D9\$=D9\$+"/" 1640 D9\$=D9\$+RIGHT\$(STR\$(Y8+10) 0),2) 1650 C=2 1660 GOTO 3010 1670 M=0	365.25)+D 2220 M6=INT (N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications For Commodore For instructions on entering this listing please refer to "COMPUTE!'s Guide to Typing In Programs" published bimonthly in COMPUTE! 255 IF E=0 THEN 260 :rem 164 256 F=0 :rem 80 1575 IFOTHENCLOSE15 :rem 187 3010 F\$="EVENTS" :rem 132 3020 PRINT"DISK OR CASSETTE (D /C)?" :rem 4 3030 GETA\$:IF((A\$<>"C")AND(A\$< >"D"))ORA\$=""THEN3030 :rem 227
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<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1960 875 IF D8\$=D9\$ THEN L0=L9-1 880 IF L0<>-1 THEN 910 890 PRINT "NO EVENTS" 900 GOTO 920 910 GOSUB 4010 920 PRINT L9-L0-1;" OTHER FUTU RE EVENTS" 930 GOTO 730 940 PRINT "ANNUAL OR ONE-TIME {SPACE}(A/O)";</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)"; 1600 INPUT P\$ 1610 IF LEFT\$(P\$,1)="Y" THEN 1 630 1620 STOP 1630 D9\$=D9\$+"/" 1640 D9\$=D9\$+RIGHT\$(STR\$(Y8+10) 0),2) 1650 C=2 1660 GOTO 3010 1670 M=0 1680 PRINT "MONTH";	365.25)+D 2220 M6=INT (N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications For Commodore For instructions on entering this listing please refer to "COMPUTE!'s Guide to Typing In Programs" published bimonthly in COMPUTE! 255 IF E=0 THEN 260 :rem 164 256 F=0 :rem 80 1575 IFOTHENCLOSE15 :rem 187 3010 F\$="EVENTS" :rem 132 3020 PRINT"DISK OR CASSETTE (D /C)?" :rem 4 3030 GETA\$:IF((A\$<>"C")AND(A\$< >"D"))ORA\$=""THEN3030 :rem 227
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<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1670 875 IF D8\$=D9\$ THEN L0=L9-1 880 IF L0<>-1 THEN 910 890 PRINT "NO EVENTS" 900 GOTO 920 910 GOSUB 4010 920 PRINT L9-L0-1;" OTHER FUTU RE EVENTS" 930 GOTO 730 940 PRINT "ANNUAL OR ONE-TIME {SPACE}(A/O)"; 950 INPUT P\$ 960 A=0 970 P\$=LEFT\$(P\$,1) 980 IF P\$="O" THEN 1010 990 A=1</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)"; 1600 INPUT P\$ 1610 IF LEFT\$(P\$,1)="Y" THEN 1 630 1620 STOP 1630 D9\$=D9\$+"/" 1640 D9\$=D9\$+RIGHT\$(STR\$(Y8+10) 0),2) 1650 C=2 1660 GOTO 3010 1670 M=0 1680 PRINT "MONTH"; 1690 INPUT MM\$ 1700 M=VAL(MM\$) 1710 MM\$=LEFT\$(MM\$+"XX",3) 1720 IF M=0 THEN 1760 1730 IF M<1 OR M>12 THEN 1670	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications For Commodore For instructions on entering this listing please refer to "COMPUTE!'s Guide to Typing In Programs" published bimonthly in COMPUTE! 255 IF E=Ø THEN 26Ø :rem 164 256 F=Ø :rem 8Ø 1575 IFOTHENCLOSE15 :rem 187 3010 F\$="EVENTS" :rem 132 3Ø2Ø PRINT"DISK OR CASSETTE (D /C)?" :rem 4 3030 GETA\$:IF((A\$<>"C")AND(A\$<
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<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1670 865 FL=0 870 GOSUB 1960 875 IF D8\$=D9\$ THEN L0=L9-1 880 IF L0<>-1 THEN 910 890 PRINT "NO EVENTS" 900 GOTO 920 910 GOSUB 4010 920 PRINT L9-L0-1;" OTHER FUTU RE EVENTS" 930 GOTO 730 940 PRINT "ANNUAL OR ONE-TIME {SPACE}(A/O)"; 950 INPUT P\$ 960 A=0 970 P\$=LEFT\$(P\$,1) 980 IF P\$="O" THEN 1010 990 A=1 1000 IF P\$<'A" THEN 730 1010 GOSUB 1670 1020 Y\$="/"+RIGHT\$(STR\$(101+Y8)</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)"; 1600 INPUT P\$ 1610 IF LEFT\$(P\$,1)="Y" THEN 1 630 1620 STOP 1630 D9\$=D9\$+"/" 1640 D9\$=D9\$+RIGHT\$(STR\$(Y8+10 0),2) 1650 C=2 1660 GOTO 3010 1670 M=0 1680 PRINT "MONTH"; 1690 INPUT MM\$ 1700 M=VAL(MM\$) 1710 MM\$=LEFT\$(MM\$+"XX",3) 1720 IF M=0 THEN 1760 1730 IF M<1 OR M>12 THEN 1670 1740 PRINT M\$(M) 1750 GOTO 1810	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications For Commodore For instructions on entering this listing please refer to "COMPUTE!'s Guide to Typing In Programs" published bimonthly in COMPUTE!. 255 IF E=0 THEN 260 :rem 164 256 F=0 :rem 80 1575 IFOTHENCLOSE15 :rem 187 3010 F\$="EVENTS" :rem 132 3020 PRINT"DISK OR CASSETTE (D /C)?" :rem 4 3030 GETA\$:IF((A\$<>"C")AND(A\$< >"D"))ORA\$=""THEN3030 :rem 227 3040 IFA\$="D"THEN3060 :rem 120 3050 D1=0:G\$="":GOTO3070 :rem 13 3060 F\$="@0:"+F\$:D1=1 :rem 16 3070 IFC=2THEN3160 :rem 4 3080 IFD1=1 THENG\$=",S,R" :rem 85 3090 OPEN1,1+7*D1,8*D1,F\$+G\$:G
<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1670 865 FL=0 870 GOSUB 1960 875 IF D8\$=D9\$ THEN L0=L9-1 880 IF L0<>-1 THEN 910 890 PRINT "NO EVENTS" 900 GOTO 920 910 GOSUB 4010 920 PRINT L9-L0-1; "OTHER FUTU RE EVENTS" 930 GOTO 730 940 PRINT "ANNUAL OR ONE-TIME {SPACE}(A/O)"; 950 INPUT P\$ 960 A=0 970 P\$=LEFT\$(P\$,1) 980 IF P\$="O" THEN 1010 990 A=1 1000 IF P\$</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)"; 1600 INPUT P\$ 1610 IF LEFT\$(P\$,1)="Y" THEN 1 630 1620 STOP 1630 D9\$=D9\$+"/" 1640 D9\$=D9\$+RIGHT\$(STR\$(Y8+10) 0),2) 1650 C=2 1660 GOTO 3010 1670 M=0 1680 PRINT "MONTH"; 1690 INPUT MM\$ 1700 M=VAL(MM\$) 1710 MM\$=LEFT\$(MM\$+"XX",3) 1720 IF M=0 THEN 1760 1730 IF M<1 OR M>12 THEN 1670 1740 PRINT M\$(M) 1750 GOTO 1810 1760 FOR J=1 TO 12	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications For Commodore For instructions on entering this listing please refer to "COMPUTE!'s Guide to Typing In Programs" published bimonthly in COMPUTE!. 255 IF E=0 THEN 260 :rem 164 256 F=0 :rem 80 1575 IFOTHENCLOSE15 :rem 187 3010 F\$="EVENTS" :rem 132 3020 PRINT"DISK OR CASSETTE (D /C)?" :rem 4 3030 GETA\$:IF((A\$<>"C")AND(A\$< >"D"))ORA\$=""THEN3030 :rem 227 3040 IFA\$="D"THEN3060 :rem 120 3050 D1=0:G\$="':GOTO3070 :rem 13 3060 F\$="@0:"+F\$:D1=1 :rem 16 3070 IFC=2THEN3160 :rem 4 3080 IFD1=1 THENG\$=",S,R" :rem 85 3090 OPEN1,1+7*D1,8*D1,F\$+G\$:G OSUB3220:IFETHENCLOSE1:GO
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<pre>760 PRINT "3. CANCEL EVENT" 770 PRINT "4. SEARCH FOR EVENT " 780 PRINT "5. QUIT" 790 PRINT 800 PRINT "YOUR CHOICE (1-5)"; 810 INPUT A 820 PRINT 830 ON A GOTO 850,940,1210,145 0,1570 840 GOTO 730 850 PRINT "AHEAD TO DATE:" 855 FL=1 860 GOSUB 1670 865 FL=0 870 GOSUB 1670 865 FL=0 870 GOSUB 1960 875 IF D8\$=D9\$ THEN L0=L9-1 880 IF L0<>-1 THEN 910 890 PRINT "NO EVENTS" 900 GOTO 920 910 GOSUB 4010 920 PRINT L9-L0-1; "OTHER FUTU RE EVENTS" 930 GOTO 730 940 PRINT "ANNUAL OR ONE-TIME {SPACE}(A/O)"; 950 INPUT P\$ 960 A=0 970 P\$=LEFT\$(P\$,1) 980 IF P\$="O" THEN 1010 990 A=1 1000 IF P\$</pre>	1480 FOR J=0 TO L9-1 1490 A=7 1500 IF MID\$(L\$(J),6,1)<>"/" T HEN 1520 1510 A=10 1520 IF A+P-1>LEN(L\$(J)) OR P\$ <>MID\$(L\$(J),A,P) THEN 15 40 1530 PRINT L\$(J) 1540 NEXT J 1550 PRINT "{4 SPACES}END OF S EARCH" 1560 GOTO 730 1570 IF F9<>0 THEN 1590 1580 END 1590 PRINT "READY TO WRITE NEW EVENTS FILE (Y/N)"; 1600 INPUT P\$ 1610 IF LEFT\$(P\$,1)="Y" THEN 1 630 1620 STOP 1630 D9\$=D9\$+"/" 1640 D9\$=D9\$+RIGHT\$(STR\$(Y8+10) 0),2) 1650 C=2 1660 GOTO 3010 1670 M=0 1680 PRINT "MONTH"; 1690 INPUT MM\$ 1700 M=VAL(MM\$) 1710 MM\$=LEFT\$(MM\$+"XX",3) 1720 IF M=0 THEN 1760 1730 IF M<1 OR M>12 THEN 1670 1740 PRINT M\$(M) 1750 GOTO 1810 1760 FOR J=1 TO 12	365.25)+D 2220 M6=INT(N/7) 2230 W=N-7*M6 2240 RETURN 2250 PRINT CHR\$(147) 2260 RETURN 3000 REM INPUT/OUTPUT ROUTINE 4000 REM PRINT ROUTINE 4000 REM PRINT ROUTINE Program 2: Modifications For Commodore For instructions on entering this listing please refer to "COMPUTE!'s Guide to Typing In Programs" published bimonthly in COMPUTE!. 255 IF E=0 THEN 260 :rem 164 256 F=0 :rem 80 1575 IFOTHENCLOSE15 :rem 187 3010 F\$="EVENTS" : rem 132 3020 PRINT"DISK OR CASSETTE (D /C)?" :rem 4 3030 GETA\$:IF((A\$<>"C")AND(A\$< >"D"))ORA\$=""THEN3030 :rem 227 3040 IFA\$="D"THEN3060 :rem 120 3050 D1=0:G\$="":GOTO3070 :rem 13 3060 F\$="00:"+F\$:D1=1 :rem 16 3070 IFC=2THEN3160 :rem 4 3080 IFD1=1 THENG\$=",S,R" :rem 85 3090 OPEN1,1+7*D1,8*D1,F\$+G\$:G OSUB3220:IFETHENCLOSE1:GO

1050 IF A<>1 THEN 1070 1060 Y\$="" 1070 GOSUB 1960 1080 IF L9-1<L0+1 THEN 1120 1090 FOR J=L9-1 TO L0+1 STEP -1 1100 L\$(J+1)=L\$(J) 1110 NEXT J 1120 PRINT "DETAIL"; 1130 INPUT LL\$ 1140 D8\$=D8\$+Y\$

1770 IF MM\$<>M\$(J) THEN 1790 1780 M=J 1790 NEXT J 1800 IF M<1 OR M>12 THEN 1670 1810 PRINT "DAY"; 1820 INPUT D 1830 IF D<1 OR D>31 THEN 1670 1840 D8\$=RIGHT\$(STR\$(100+M),2) +"/" 1850 D8\$=D8\$+RIGHT\$(STR\$(100+D),2)

3100 ::rem 93 3100 INPUT#1,LL\$:D9\$=LL\$:IF LE N(LL\$)<>8 THEN PRINT LL\$; "?":GOTO 3140 :rem 60 3110 M=VAL(LEFT\$(LL\$,2)):D=VAL (MID\$(LL\$,4,2)):Y0=VAL(MI D\$(LL\$,7,2)) :rem 245 3120 M9=M:D9=D:Y9=Y0:L=0:PRINT "LAST ACCESS: ";LL\$:rem 181 3130 INPUT#1,L\$(L):L=L+1:IF ST

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0:000 3666 0:000 4				
i GDTD 3090 # 4050 0=LETTS(LS(3),5).H=VUL(2106 F2+F3) 2100 F2+F3 2250 CALL CLEAR All Description Description Description 2500 CALL CLEAR				
9 3680 PRINT DDs_"WRITE ";Fs. P LEFTS (DS_2):D=/A.(MIDE (2258 CALL CLEAR WRITE ";FS. F 4600 WA.(2) 3 PRINT "EDF" 1 4600 WA.(2) BS220 PRINT DISTON OF CASETT E (D/C)?" 3 PRINT "EDF" 1 4600 WA.(2) BS220 PRINT DISTON OF CASETT E (D/C)?" 3 PRINT "EDF" 1 4600 PRINT SIGN" BS20 PRINT DISTON OF CASETT E (D/C)?" BS20 PRINT DISTON OF CASETT E (D/C)?" 4 940 PRINT DIS = "1: IPUT" IF 1 FRINT PRINT "ENDN I (PRINT PRINT" WIT A (PRINT) BS20 PRINT DISTON OF CASETT E (D/C)?" BS20 PRINT PRINT DISTON OF CASETTER (D/C)?" BS20 PRINT PRINT DISTON OF CASETTER (D/C)?" 4400 PRINT PDINT D (D/C)?" FRINT PRINT PRINT PRINT PRINT PRINT PRINT E (D/C)?" BS20 PRINT PR		······································	· ·	
INT D9: FOR J = 0 To L D9.4,2) S8:0 F F * * EVENTS: 0 = 1 F D * 2 THEN EDU F * 2 THEN EDU S8:0 F * * EVENTS: S8:0 F * * EVENTS: 13 300 FRETURN F * 400 DDU 2130; FPINT # 1, * * (HIS L& 4) S8:0 F * * EVENTS: S8:0 F * * EVENTS: 13 100 FRETURN ** 1 INPUT * * (HIS 1, * * (HIS L& 4) S8:0 F * * EVENTS: S8:0 F * * EVENTS: 14 300 FRETURN ** 1 INPUT * * (HIS 1, * * (HIS 1, * * (HIS L& 4) S8:0 F * * EVENTS: S8:0 F * * EVENTS: 14 300 FRETURN ** 1 INPUT * * (HIS 1, * F *) * (HIS 1, * F * (HIS 1, * F *) * (HIS 1, * F * (HIS 1, * F *) * (HIS 1, * F *) * (HIS 1, * F * (HIS 1, * F *) * (HIS 1, * (HIS 1, * F *) * (HIS 1, * F *) * (HIS 1, * (HIS 1, * (HIS 1, * (HIS 1, *) *) * (HIS 1, *) *) *) * (HIS 1, * (HIS 1, * (HIS 1, * (HIS 1, *) *) *) * (HIS 1, * (HIS 1, * (HIS 1, * (HIS 1, *) *) *) * (HIS 1, * (HIS		$H^{0} 4050 D^{\pm} LEFT^{\pm}(L^{\pm}(J), 5) = M = VAL($	2100 F	DEFZERS
9 -1 PRINT 10(3)* PRI				
 J. PRINT "EDF"				1
is 3000 PRINT DDs;"CLOSE ";F5:1 E 4479 GOUD 2106:PRINT s], 4600 PRINT s], 4600 PRINT s], 6400 PRINT TDS; 7600 PRINT S], 7100				
P C = 2 THÉR END 1; * *; rentr *; mk:m; n) 3449 If 9 -0 THE * 320 18 400 PERTUR * NUT * * NUT * * NUT * NUT * 18 400 PERTUR * NUT * NUT * NUT * NUT * NUT * NUT * 18 400 PERTUR * NUT *				
13 309 RETURN 4019 RETURN 4119 RETURN 4129 RETURN		······································		
iii 4 4010 PRINT 104 = ""; INPUT ""; 1,0; NEXT 3 LCLOSE 4110N 3660 IF (AkC/**D*) ANT EVENTS ON PRINTER (Y 1,0; NEXT 3 LCLOSE 4110N 3660 IF (AkC/**D*) ANT EVENTS ON PRINT 12 4090 CLOSE (11PRINT PRINTER) 3690 De-*C610 41 4000 CLOSE (11PRINT PRINTER) 3690 De-*C610 3690 De-*C610 44 400 CLOSE (11PRINT PRINTER) 3690 De-*C610 3690 De-*C610 45 320 PRINT Dot; "FRENT* 41400 PRINT; PRINT "NIT A KEY T 3690 De-*C610 45 4100 PRINT; PRINT "NIT A KEY T 3100 De-*D511, "PRINT "RINT NIT A KEY T 3100 De-*D511, "PRINT NET ALL (11)" *4 400 PRINT; PRINT "NIT * NIT * NA KEY T 3100 DE-*D511, "PRINT NET ALL (11)" 3100 DE-*D511, "PRINT NET ALL (11)" *4 400 PRINT; PRINT NIT * NI	1		3Ø5Ø A	A\$=CHR\$(K)
(N) (N) (Peri) (Peri) <th(peri)< th=""></th(peri)<>		F F	3060)	[F (A\$<>"C")*(A\$<>"D")
) <> """ THEN 4458 ERROR #".ERRY."GOCLURAD" 3690 D+"C511" 4 422 PRINT D05"TRENT * # 41489 PRINT ** 4601" 3690 D+"C511" 4 422 PRINT ** (15 (15)) THEN * # 4149 PRINT ** 4601" 3690 D+"C511" 4 422 PRINT ** (15 (15)) THEN * # 4149 PRINT ** (17 A KEY ** 17 A KEY ** 17 A KEY ** 3100 DEP ** 1105 JEST ** 4 4940 DS = LEFTS (14 (15)) THEN * # 4169 PRINT ** 4611* 3133 DPE*** 1105 JEST ** 4 4940 DS = LEFTS (14 (15)) THEN * # 4169 PRINT ** # 4169 PRINT ** 3133 DPE**** 1105 JEST ** 4 4940 DS = LEFTS (14 (15), 5) THEN * # 416 PRINT ** # 416 PRINT ** 3133 DPE******* 3133 DPE********** 4 4950 PRINT ** JEST ** Program 5: Modifications ** For TL-90/4A 3136 DP=************************************	ANT EVENTS ON PRINTER (Y	ERROR GOTO Ø:RETURN	٦	THEN 3030
<pre>E4 4023 PFLINT DDs; PFRINT "FRIAT ACK T 300 PC **********************************</pre>		10 4090 CLOSE #1:PRINT "PRINTER		
Tey Toolwin # 4100 PENTITPRINT "HIT A KEY T 3160 De="DSK1."SF4 # 4030 FOR J = LB TO LBS JF Ds 0 CONTINUE" 3120 DPEN #125 3120 DPEN #125 # 4040 S = LEFT'S (LS(J),S) THEN 4 110 A=*INKCY*1F A=*" THEN 3120 DPEN #125 3120 DPEN #125 WAL (LEFT'S (LS(J),S) THEN 4 120 PESUHE 4020 3135 DPE-LLS 3132 DPENLS WAL (LEFT'S (LS(J),S) THEN 4 120 PESUHE 4020 3135 DPE-LLS 3132 DPENLS # 4800 PETURN ************************************				
a 4 435 FOR J = LB TD LB: IF DS = LEFT: (LS (J), 5) THEN 4 $\frac{660}{2}$ B 4040 DS = LEFT: (LS (J), 5) THEN 4 $\frac{660}{2}$ A 4120 A STUREY ST THEN 320 A 4120 A STUREY ST THEN 320 $\frac{1}{10}$ A 4550 GOUND ZISSE FILL A 4550 GOU	-			
- LEFT* (130,5) THEN 4 900 14 404 D8 - LEPT* (130,5) THEN 4 14 (12 A RESUME 4220 13 12 INPUT 4110*,11 FINAL,1N W1 - 12 A RESUME 4220 13 12 INPUT 4110*,11 FINAL,1N W1 - 12 A RESUME 4220 13 12 INPUT 4110*,11 FINAL,1N W1 - 12 A RESUME 4220 13 12 INPUT 4110*,11 FINAL,1N W1 - 12 A RESUME 4220 13 12 INPUT 4110*,11 FINAL,1N W1 - 12 A RESUME 4220 13 12 INPUT 4110*,11 FINAL,1N W1 - 12 A RESUME 4220 13 12 INPUT 4110*,11 FINAL,1N W1 - 12 A RESUME 4220 13 12 INPUT 4110*,11 FINAL,1N FOT 199/4A 13 14 00 FINAL,10 - 0 FINAL,12 14 00 FINAL,11 FINAL,11 FINAL,11 FOT 199/4A 13 0 F FINAL,11 FINAL,11 FINAL,11 FOT 199/4A 13 0 F FINAL,12 FINAL,21 FINAL,11 FINA		····· · ···· · ···· · ···· · ···· · ····		
 M 4494 DE = LEFTS (LE(J),5):H = VAL (LEFTS (CS,2):H = VAL (LEFTS (LS,2):H = VAL (LEFTS (CS,2):H = VAL (LEFTS (LS,2):H = VAL (LETTS (LS,2):H =				
VAL (LEFTS (05,2)):D'- VAL (LEFTS (05,2)):D'- VAL (LEFTS (05,2)):D'- VAL (LEFTS (05,2)):D'- VAL (SEGTA (LE)):D'- VAL (SEGTA (-
VAL (HIDF (DF, 4, 2); Y Y = V8 + 1State </th <th>÷</th> <th></th> <th></th> <th></th>	÷			
 • Y8: 1F D8 < - D95 THEN v Y8 + 1 8: 4558 605UB 2158; PRINT %4(W); "YTHEN PRINT 05 (L\$4); 4: 4688 605UB 2158; PRINT %4(W); "YTHEN PRINT 05 (L\$4); 4: 4688 605UB 2158; PRINT %4(W); ** 7 THEN PRINT 05 (L\$4); 4: 4688 605UB 2158; PRINT %4(W); ** 7 THEN PRINT 05 (L\$4); 4: 4688 605UB 2158; PRINT %4(W); ** 7 THEN PRINT 05 (L\$4); 4: 4688 605UB 2158; PRINT %4(W); ** 7 THEN PRINT 05 (L\$4); 4: 4688 605UB 2158; PRINT %4(B4); ** 7 THEN PRINT 05 (L\$4); 4: 4688 605UB 2158; PRINT %4(B4); 4: 4688 605UB 2158; PRINT %4100; ** 7 THEN PRINT 05, PRINT %4100; 7: 7 THEN 578 (1884+09); 4: 468 005UB 2168; PRINT %4100; 7: 7 FE 558 (1684+09); 4: 75 FE 568 (1684+10); 7: 7: 8501 367 FE 1, 110; 7: 8501 367 FE 1, 110; 7: 8001 367 FE 1, 110; 7: 7: 8001 36	· · · ·			
H 4655 GOSUB 2156; FRINT H4 (4); FOT II-99/4A 316 B GOT 3286 H 4660 FRIT " "; HD5 (L6(J) 336 IF (M9(>M9)+(DB>-D9)THE 316 B GOT 3286 J 4 4670 FRIT " IF LEFTS (Ps, I) 336 IF (M9(>M9)+(DB>-D9)THE 316 B GOT 3286 H 4660 RETURN 135 137 M +VAL(SEGS(LL5,4,2)) J 4 4660 RETURN 218*/* 336 IF (M9(>M9)+(DB>-D9)THE FOR ISM PC/PCIT 218*/* 328 IF SEGS(TE\$,LEN(TE\$,LEN(TE\$,LEN(TE\$)) FOR ISM PC/PCIT 15 D9*-D9*85SEGS(TE\$,LEN(TE\$,LEN(TE\$,LEN(TE\$)) 3260 IF L*(L)="E0F" THEN 32 For ISM PC/PCIT 540 IF SEGS(TE\$,LEN(TE\$,LEN(TE\$,LEN(TE\$)) 3260 IF L*(L)="E0F" THEN 32 For ISM PC/PCIT 540 IF SEGS(TE\$,LEN(TE\$,LEN(TE\$)) 3260 IF L*(L)="E0F" THEN 32 For ISM PC/PCIT 570 IF SEGS(TE\$,LEN(TE\$,LEN(TE\$)) 3260 IF L*(L)="E0F" THEN 32 For ISM PC/PCIT 647 IF SEGS(TE\$,LEN(TE\$,LEN(TE\$)) 3260 IF L*(L)="E0F" THEN 32 M 2252 CLS 148 D B8-D84L1 3320 IF III 3320 IF III M 3250 F F= FECH M2 MAR 1148 D B8+D84L1 3320 IF III 3320 IF III M 3250 F F= FECH M2 MAR 1148 D B8+D84L1 3320 IF III 3320 IF III 3320 IF III M 3250 F III 118 D B8+D84L1 119 IF III 110 IF			í	Ø
H 4655 GOSUB 2156; FRINT H4 (4); FOT II-99/4A 316 B GOT 3286 H 4660 FRIT " "; HD5 (L6(J) 336 IF (M9(>M9)+(DB>-D9)THE 316 B GOT 3286 J 4 4670 FRIT " IF LEFTS (Ps, I) 336 IF (M9(>M9)+(DB>-D9)THE 316 B GOT 3286 H 4660 RETURN 135 137 M +VAL(SEGS(LL5,4,2)) J 4 4660 RETURN 218*/* 336 IF (M9(>M9)+(DB>-D9)THE FOR ISM PC/PCIT 218*/* 328 IF SEGS(TE\$,LEN(TE\$,LEN(TE\$,LEN(TE\$)) FOR ISM PC/PCIT 15 D9*-D9*85SEGS(TE\$,LEN(TE\$,LEN(TE\$,LEN(TE\$)) 3260 IF L*(L)="E0F" THEN 32 For ISM PC/PCIT 540 IF SEGS(TE\$,LEN(TE\$,LEN(TE\$,LEN(TE\$)) 3260 IF L*(L)="E0F" THEN 32 For ISM PC/PCIT 540 IF SEGS(TE\$,LEN(TE\$,LEN(TE\$)) 3260 IF L*(L)="E0F" THEN 32 For ISM PC/PCIT 570 IF SEGS(TE\$,LEN(TE\$,LEN(TE\$)) 3260 IF L*(L)="E0F" THEN 32 For ISM PC/PCIT 647 IF SEGS(TE\$,LEN(TE\$,LEN(TE\$)) 3260 IF L*(L)="E0F" THEN 32 M 2252 CLS 148 D B8-D84L1 3320 IF III 3320 IF III M 3250 F F= FECH M2 MAR 1148 D B8+D84L1 3320 IF III 3320 IF III M 3250 F F= FECH M2 MAR 1148 D B8+D84L1 3320 IF III 3320 IF III 3320 IF III M 3250 F III 118 D B8+D84L1 119 IF III 110 IF		Broaram & Modifications	315Ø A	PRINT LL#;"?"
""", "He(H);" "10 For III-99/4A 3178 H=Val(SEGs(LL,1,12)) # 4608 PRINT ""; HDS (L6(3) 3178 H=Val(SEGs(LL,1,12)) # 4778 PRINT ; IF LEFTS (P,1) 338 IF (MB(×M9)*(D8)=D9)THE 3178 H=Val(SEGs(LL,1,2)) # 4788 PRINT ; IF LEFTS (P,1) 338 IF (MB(×M9)*(D8)=D9)THE 3188 D=Val(SEGs(LL,1,2)) # 4998 RETURN 338 IF (MB(×M9)*(D8)=D9)THE 328 D=Val(SEGs(LL,1,2)) # 4998 RETURN 118 D=Val(SEGs(LL,1,2)) 3198 D=Val(SEGs(LL,1,2)) # 4998 RETURN 118 D=Val(SEGs(LL,1,2)) 328 D=Val(SEGs(LL,1,2)) # 118 D=Val(SEGS(LL,1,2)) 118 D=Val(SEGS(LL,1,2)) 328 D=Val(SEGS(LL,1,2)) # 118 D=Val(SEGS(LL,1,2)) 118 D=Val(SEGS(LL,1,2)) 328 D=Val(SEGS(LL,1,2)) # 118 D=Val(SEGS(LL,1,1,2)) # 118 D=Val(SEGS(LL,1,1,2)) 328 D=Val(SEGS(LL,1,1,2)) # 118 D=Val(SEGS(LL,1,1,2)) # 118 D=Val(SEGS(LL,1,1,2)) 328 D=Val(SEGS(LL,1,1,2)) # 118 D=Val(SEGS(LL,1,1,2))	M 4050 GOSUB 2150: PRINT W\$(W);	•	3160 0	GOTO 328Ø
. 4)1 NEXT J 4070 FRINT : IF LEFTS (Pe, 1) 4070 FRINT : IF LEFTS (Pe, 1) 4070 FRINT : IF LEFTS (Pe, 1) 408 TES-STRS(100+H7) 409 TES-STRS(100+H7) 409 TES-STRS(100+H7) 409 TES-STRS(100+H7) 409 TES-STRS(100+H7) 409 TES-STRS(100+H7) 415		For TI-99/4A		
N 4879 PRINT : IF LEFTS (F8,1) N 359 Set 074-SEG (188-H9) Set 074-SEG (188-H9) 4000 F1 4000 RETURN A90 TESSTR4 (188-H9) Set 074-SEG (TE\$,LEN(TE\$)-1 Set 074-SEG (TE\$,LEN(TE\$)-1 Program 5: Modifications F0 TestSet (188-H9) A90 TESSTR4 (188-H9) Set 074-SEG (TE\$,LEN(TE\$)-1 Set 074-SEG (TE\$,LEN(TE\$)-1 For IBM PC/PC/I F0 TestSet (187,LEN(T\$,LEN(TE\$)-1 Set 074-SEG (TE\$,LEN(TE\$)-1 Set 074-SEG (TE\$,LEN(TE\$)-1 For Instructions on enteing this laing please F74 L8-(L9,1) Set 074-SEG (TE\$,LEN(TE\$)-1 Set 074-SEG (TE\$,LEN(TE\$)-1 For Instructions on enteing this laing please F74 L9-(L9,-1) Set 074-SEG (TE\$,LEN(TE\$,LEN(TE\$)-1 Set 074-SEG (TE\$,LEN(T\$)-1 For Instructions on enteing this laing please F74 L9-(L9,-1) Set 14-(L)-1 Set 14-(L)-1 Set 074 L9-(L9,-1) 1920 TES Set 074, PEEK (184-Y) Set 14-(L)-1 Set 14-(L)-1 Set 074 L9-(L9,-1) 1920 TES Set 074, PEEK (184-Y) Set 14-(L)-1 Set 14-(L)-1 Set 074 L9-(L9,-1) 1920 TES Set (184-Y) Set 14-(L)-1 Set 14-(L)-1 Set 074 L9-(L9,-1) 1920 TES Set (184-Y) Set 074, TE\$,LEN(TE\$,LEN(TE\$,LEN(TE\$,LEN(TE\$,LEN(TE\$,LEN(TE\$,LEN(TE\$,LEN(TE\$,LEN(TE\$,LEN(TE\$,LEN	-			· · ·
 - "" THEP PRINT DDs;"PR 405 TE*-STR*(100+H9) 425 D7*-SEG0(TE*,LEN(TE)-1, ,2)&"/" 426 D7*-SEG0(TE*,LEN(TE)-1, ,2)&"/" 426 D7*-SEG0(TE*,LEN(TE)-1, ,2)&"/" 427 D7*-SEG0(TE*,LEN(TE)-1, ,2)&"/" 428 PRINT "LAST ACCESS: "; ,2)&"/" 428 PRINT "LAST ACCESS: "; ,2) 429 PRINT "LAST ACCESS: "; ,2) 429 PRINT "LAST ACCESS: "; ,2) 420 PRINT "LAST ACCESS: "; ,2) 421 PRINT "LAST ACCESS: "; ,2) 421 PRINT "LAST ACCESS: "; ,2) 4220 PRINT "LAST ACCESS: "; ,2) 4220 PRINT "LAST ACCESS: "; ,2) 420 PRINT PRINT "NENT ACCESS: "; ,2) 420 PRINT PRINT "NENT ACCESS: "; ,2) 420 PRINT PRINT "NENT ACCESS PRINT "DFINT ACCESS PRINT				
#8" 485 D9*-SEG*(TE*,LEN(TE*)-1 3228 V9-V8 H 4868 RETURN 445 D9*-SEG*(TE*,LEN(TE*)-1 3238 V-9 Program 5: Modifications For IBM PC/PCjr 15 D9*-D9*&SEG*(TE*,LEN(TE*)-1 3248 PRINT "LAST ACCESS: "; Lis For ISM PC/PCjr 75 IF D8 75 IF D8 3248 PRINT "LAST ACCESS: "; Lis For ISM PC/PCjr 75 IF D8 75 IF D8 327 IF Let.1 327 IF Let.1 Right of Cover View States 76 P***8E8 77 P***8E8 78 P***** 327 IF Let.1 N 105 WIDT H 80*KEY OF IDEF SEG* 192 Y******** 328 IF R***** 328 IF***** 328 IF***** 9 2910 ON ERROR BOTO 3100 194 Y************ 1140 80**** 3328 IF****** 3328 IF******* 9 292 F*********************************	· · · · · · · · · · · · · · · · · · ·			
Fi 4068 RETURN -2.3*/" 52.3*/" 52.3*/" Program 5: Modifications -2.3*/" 52.3*/" 52.3*/" Program 5: Modifications -2.3*/" 52.3*/" 52.3*/" For IBM PC/PCJCJ 53.4 F. SESS(15.0), 6,1)="/" 52.4 F. Let (L) 52.5 F. Program 5: Modifications For IBM PC/PCJCJ 54.4 F. SESS(15.0), 6,1)="/" 52.4 F. Let (L) 52.4 F. Let (L) 52.5 F. Let (L) F. Let (L) F. Let (L)	· · · · · · · · · · · · · · · · · · ·			
Program 5: Modifications 410 TE+-STR*(100+D9) 3240 PRINT "LAST ACCESS: "; For issue for iss				
Program 5: Modifications Fits D9*=D9*4SEG6(TE*,LEN(TE LL* For IBM PC/PC/r S250 IPUT *1:s(L) 3250 IPUT *1:s(L) For IBM PC/PC/r Fits D9*=D9*4SEG6(TE*,LEN(TE 3270 L=L*1 For IBM PC/PC/r S270 L=L*1 3270 L=L*1 For IBM PC/PC/r Fits S10 PS For R010 S100 H2 S270 L=L*1 For IBM PC/PC/r H2 S270 L=L*1 S270 L=L*1 For IPM PC/PC/r H2 S270 L=L*1 S270 L=D*1 For IPM PC/PC/r H2 S270 L=L*1 S270 L=D*1 For IPM PC/PC/r H2 S270 L=L*1 S270 L=D*1 For IPM PC/PC/r H2 S270 L=D*1 S270 L=D*1 For IPM PC/PC/r H2 S270 L=L*1 S270 L=D*1 For IPM PC/PC/r H2 S270 L=L*1 S300 PC/PC/PC/PC/PC/PC/PC/PC/PC/PC/PC/PC/PC/P		· · · · · · · · · · · · · · · · · · ·		
 9)-1,2) 949 JF SEGS (LS (J),6,1)="/" 949 JF SEGS (FES,LEN (FE 1500 JF SEGS (FES,LEN (FE		1		
THEN 570 75 For IBM PC/PC/PCI 75 For IBM PC/PC/PCI 75 For IBM PC/PCI 75 For P		•	3250	INPUT #1:L\$(L)
For instructions on entering this listing please information to one entering this listing please information on entering the ent	Proaram 5: Modifications	54Ø IF SEG\$(L\$(J),6,1)="/"	326Ø	IF L\$(L)="EOF" THEN 32
For instructions on entering this Balling please (eff to "COVPUTE's Guide to Typing in Programs" published bimonthy in COMPUTE:				
<pre>refer to "COMPUTELS Guide to Typing in Programs" published bimothly in COMPUTEL 1925 TEs=STRS (199+YB) 3275 Ls (L)= 1925 Y=""/*&SEG\$(TE\$,LEN(TE 3296 CLOSE *1 3296 LDSE *1 3296 DE=0 3296 LDSE *1 3296 DE=0 3296 LDSE *1 3296 DE=0 3296 DE=0 53950 FC=2 THEN 3398 DSS=DSS*C(E(s(J),L)] 1245 Y\$=""/*&SEG\$(TE\$,LEN(TE 33950 FC=2 THEN 3398 DSS=DSS*C(E(s(J),L)] 1245 Y\$=""/*&SEG\$(L(s(J),L)] 1245 DSS=DSSC(E(s(J),L)] 1245 DSS=DSSC(E(s(J),L)] 1245 DSS=DSSC(E(s(J),L)] 1256 FC=2 THEN PRINT L LS;""second to LSS 1256 FT SCG TINPUT AS #1: 1257 IF DSC(SSEG\$(L(s(J),C)] 1256 FT SCG THEN FRINT *1:LSC) 1258 IF SCG S(DS)(L)] 1258 IF SCG S(DS)(L)] 1259 IF SCG SCG S(DS)(L)] 1258 IF SCG S(DS)(L)] 1259 IF SCG S(DS)(L)] 1259 IF SCG SCG S(DS)(L)] 1250 IF SCG</pre>				-
Programs" published bimonthy in cokever. I 1950 TES=GTR * (191+VB) 1950 TES=GTR * (191+VB) 1950 TES=GTR * (190+VB) 1950 TES=TR * (190+VB) 1950 TE				
1.105 WIDTH 80:KEY DF:DEF SEG= 0:FOKE 1047, PEEK(1047) DR 64 1225 Y="/*KSEG\$(TE*,LEN(TE 9)-1,2) 3290 CLOSE #1 3290 LOSE #1 3290 Des 105 3210 ON ERROR GOTD 3100 1140 TE*STR*(100+YB) 3200 PE 3210 OPE 105 3210 ON ERROR GOTD 3100 1140 DS*D0\$*X*6 3310 PEITRN 105 3210 OPEN F*D0F INPUT **INPUT **INFF 1150 D0*D0\$*L*6 3310 PEITRN 106 JF C-2 THEN 3000 1140 DS*D0\$*L*1 3340 FOR J=0 TO L9-1 107 HUT 41,LE(1):D9*LEL1; 1370 F (A(L0)+(A))THEN 7 3360 PEN 7* TINPUT 45 #1: 108 300 DEN F* FOR INPUT 45 #1: 1370 F (A(L0)+(A))THEN 7 3360 PEN 7* TINEUT 41:D*0 108 300 DEN F* FOR INPUT 45 #1: 1370 F (A(L0)+(A))THEN 7 3360 PEN 7* 108 300 MEVLT #1,L*(L):L*: 1370 F (A(L0)+(A))THEN 7 3350 PEITR #1:L*(J) 1109 (LL\$,7,2):H9-M1 C 1520 FF SEG\$(L\$(J),6,1) 3350 PEITR #1:L*(J) 1100 (LL\$,7,2):H9-M1 C 1520 FF SEG\$(C\$(L\$(J),A,P))T 4040 FF SEG\$(PE,1,1) 1100 (LL\$,7,2):H9-M1 C 1520 FF SEG\$(PE,1,1)="Y" TH 1640 FE*STR*(YB#100) 4050 DE=0 1100 DFEN FOR UUTPUT AS #1 1640 FE*STR*(100+1) 1640 FF SEG\$(MM&&XX*,1,3) 4080 DF A080 1100 DESE #1:ON ERROR 1120 F ((M(1)+(M)12)THEN 16 4050 DE=0 4050 DE=0 <td< td=""><td></td><td>- +</td><td></td><td></td></td<>		- +		
0 10				
104 00 TPH Text Display of the set of the se		•		
<pre>NB 2250 CLS 18 2250 CLS 18 2250 CLS 18 3610 ON ERROR GOTD 3100 18 3020 FRINT GOTD 3100 1146 D85-D85k*(5 5)-1,2) 1146 D85-D85k*(5) 1350 DFN F\$ CR INPUT AS #1: 1150 D80-D85k*(5) 1350 DFN F\$ CR INPUT AS #1: 1150 L5 (L5(1))) 1250 IF D86(L5(1))) 1360 IF SEG\$(L5(1),1)) 1370 IF (A(L0)+(A)L1)THEN 7 1360 IF SEG\$(L5(1),4,1)) 1370 IF (A(L0)+(A)L1)THEN 7 1360 IF SEG\$(L5(1),4,1)) 1370 IF (A(L0)+(A)L1)THEN 7 1360 IF SEG\$(L5(1),4,1)) 14010\$(L1,4,7,2):M9-MID 0 1520 IF (A(L0)+(A)L1)THEN 7 1520 IF (A(L0)+(A)L1)THE</pre>		•		
F1 3010 ON ERROR GOTD 3100 *)-1,2) 3320 OPEN #1:D*, INPUT "ENTER 140 D8*D0*& M 3020 F**"EVENTS":INPUT "ENTER 150 D8*D0*& 1150 D8*D0*& 3330 OPEN #1:D*, INTERNAL,0U M 3020 F**"EVENTS":INPUT *ENTER 150 1150 D8*D0*& 3330 PRINT #1:D*, INTERNAL,0U M 3040 OPEN F* FOR INPUT AS #1: 1150 D8*D0*& 3350 PRINT #1:D* I 4000 JPEN F* FOR INPUT AS #1: 1150 D1*OP* 3350 PRINT #1:L* I 4010 JENT #1,L*:D*JENIF I.L*:D* 1370 IF (A <l0)+(a>L1)THEN 7 3350 PRINT #1:L* I 4010 JPEN *1:D*:D* 1500 IF SEG*(L*(J),6,1) 3350 PRINT #1:L* 3350 PRINT #1:L* I 4010 JPEN *1:D*:D* 1500 IF SEG*(L*(J),6,1) 3350 PRINT #1:L* 3360 PRINT #1:L* I 4010 JPEN *1:D*:D* 1500 IF SEG*(L*(J),6,1) 3350 PRINT #1:L* 3350 PRINT #1:L* I 4010 JPEN *1:D*:D* 1500 IF SEG*(L*(J),6,1) 3350 PRINT #1:L* 3360 PRINT #1:L* I 4010 JPEN *1:D*:D* 1500 IF SEG*(L*(J),6,1) 3360 PRINT #1:L* 3360 PRINT #1:L* M 3070 CLOSE #1:DN ERROR GOTO 0 1640 TE*=STR*(Y8+100) 4640 IF SEG*(P*,1,1) 4640 IF SEG*(P*,1,1) 470 OPEN *1:PS232/2.Ba=96 M 3070 CLOSE #1:DN ERROR FOR J=#0 1730 IF (M<1)+(M):2)THEN 16 4660 GOTO 4808 4660 GOTO 4808 4660 GOTO 4808 <t< th=""><th></th><th>1045 Y\$="/"&SEG\$(TE\$,LEN(TE</th><th></th><th>Í</th></t<></l0)+(a>		1045 Y\$="/"&SEG\$(TE\$,LEN(TE		Í
DRIVE # 1E. A): ":FF* 1150 D8*D8*L" " 3330 PRINT #1:D9* :F*F*F**:":F* 1160 Ls(L6(L6)1) D8*LL* 3340 PRNT #1:D9* EE 3030 FC = 2 THEN 3080 11250 IF D8*(>SEG*(L*(J),1,5) 3350 PRINT #1:L*(J) INPUT #1:LE\$:D9*LL*:IF 1150 D*C 3360 NEXT J LeN(LL*)<>0 THEN PRINT 3370 CLOSE #1 3360 END S030 M=VAL(LEFT*(LL*,2)):P9*NOPH 1500 IF SEG*(L*(J),6,1) 3360 END S140 DFEN F*FOR INPUT #1.*:FO* 1500 IF SEG*(L*(J),6,1) 3360 NEXT J S070 CLOSE #1:DN ERROR GOTO 4 1640 TE*STR*(Y*100) 4030 INPUT "WANT EVENTS DN S080 OPEN F*FOR UNT #1.*:FOR UNT #1 1640 TE*STR*(Y*100) 4050 DF=0 S080 OPEN F*FOR UNT #1.*:FOR DOT #1 1640 TE*STR*(Y*100) 4050 DF=0 S0800 OPEN F*FOR UNT #1.*:FOR DOT #1 1710 MM*SEGE*(MM***XX",1,3) 4050 DF=0 S0800 OPEN F*FOR J=0 1710 MM*SEGE*(MM***XX",1,3) 4050 FOR J=L* S1090 DEND 1730 IF (M<1)+(M>12)THEN 16 4050 IF D*SEG*(L*(J),1,5) S1300 DEND 1730 IF (M<1)+(M>12)THEN 16 4050 IF D*SEG*(L*(J),1,5) N 3100 OFEND 1710 MM*SEGE*(TE*,LEN(TE*)- 4050 IF D*SEG*(L*(J),1,5) N 3110 PRINT:PRINT "HIT AKEY 1830 IF (D(1)+(D)31)THEN 16 4100 D*SEG*(L*(F0 3010 ON ERROR GOTO 3100	-		•
if\$=fp=ri+fp 1160 L\$(L\$(J)=08\$LL\$) 3340 FOR J=0 TD L9-1 if\$=sefp=ri+fp 1250 IF D=4 3350 PRINT #1:L\$(J) if\$=sefp=ri+fp 1250 IF D=4 3350 PRINT #1:L\$(J) if\$=sefp=ri+fp 1250 IF D=4 3350 PRINT #1:L\$(J) if\$=sefp=ri+fp 1370 IF (A(L0)+(A)L1)THEN 7 3350 PRINT #1:"EOF" L=i;"?":6DT0 3070 1500 IF SEG\$(L\$(J),6,1) 3350 PRINT #1:"EOF" if\$=sefp=ri+fp 1500 IF SEG\$(L\$(J),6,1) 3360 PRINT #1:"EOF" if\$=sefp=ri+fp 1520 IF (A+P-1)LEN(L\$(J))+// #300 4020 DE=1 if\$=sefp=ri+fp 1520 IF (A+P-1)LEN(L\$(J),A,P))T 4020 DE=1 if\$=sefp=ri+fp 1610 IF SEG\$(P\$,1,1)="Y" TH 4040 IF SEG\$(P\$,1,1) Fe if\$=sefp=ri+fp 1640 IF SEG\$(P\$,1,1)="Y" TH 4040 IF SEG\$(P\$,1,1) Fe if\$=sefp=ri+fp 1640 IF SEG\$(P\$,1,1)="Y" TH 4040 IF SEG\$(P\$,1,1) Fe if\$=sefp=ri+fp If if Sefp=re\$fp If if Sefp=re\$fp If if Sefp=re\$	MA 3020 F\$="EVENTS":INPUT "ENTER			-
E: 3030 IF C=2 THEN 3080 I250 IF D84<>EG\$(L\$(J),1,5 3350 PRINT #1:L\$(J) B: 3040 OPEN F\$ FOR INPUT AS #1: INPUT #1,L\$:D98=L\$SIF LEN(LL\$)<>8 THEN PRINT L L\$:0":ECOTO 3070 IS70 IF C4(L\$(J)+(A>L1)THEN 7 3365 PRINT #1:L\$(J) G: 3050 M=VAL(LEFT\$(LL\$,2)):D=VA L(MID\$(LL\$,4,2):Y0=VAL(MID\$(LL\$,7,2):M0=VAL(MID\$(M1D\$(M1) MID\$(LL\$,7,2):M0=VAL(MID\$(M1D\$(M1) MID\$(LL\$,7,2):M0=VAL(MID\$(M1D\$(M1) MID\$(LL\$,7,2):M0=VAL(MID\$(M1D\$(M1) MID\$(LL\$,7,2):M0=VAL(MID\$(M1D\$(M1D\$(M1) MID\$(M1D\$(M1D\$(M1D\$(M1D\$(M1D\$(M1D\$(M1D\$(M1				
11 3040 OPEN F\$ FOR INPUT AS #1: INPUT #1,LL\$:09\$-LL\$:IF)THEN 1300 3340 NEXT J 11 <th></th> <th></th> <th></th> <th></th>				
INPUT #1, LL\$:D9=LL\$:IF 1370 IF (A <l0)+(a>L1)THEN 7 3345 PRINT #1:"EDF" INPUT #1, LL\$:D9=LL\$:IF 30 Lex(LL\$) 1500 IF SEG\$(L\$(J),6,1) 3370 CLOSE #1 SE 3050 M=VAL(LEFT\$(LL\$,2)):D=VA L(MID\$(LL\$,4,2)):Y0=VAL(HID\$(LL\$,7,2)):M9=M:D9=D "THEN 1520" 4810 Ds="" Y0=Y0:L=0:PRINT "LAST A CCESS: ";LL\$ "THEN 1540" 4810 Ds="" Y0=Y0:L=0:PRINT "LAST A CCESS: ";LL\$ 1610 IF SEG\$(P\$,1,1)="Y" TH EOF(1)=0 THEN 3060 1640 FE\$SEG\$(F\$,1,1)="Y" TH EOF(1)=0 THEN 3060 4050 DE=1 Y0=Y0:L=0:PRINT #1,L\$(L):L=L+1:IF EOF(1)=0 THEN 3060 1640 TE\$SEG\$(P\$,1,1)="Y" TH EN 1640 TE\$SEG\$(P\$,1,1)="Y" TH HEN 1540 4060 GOT0 4080 Y0=Y0:L=0:PRINT #1,L\$(L\$(L\$):L=L+1:IF EOF(1)=0 THEN 3060 1640 TE\$SEG\$(TE\$,LEN(T ES)=0;L] 4050 DE=0 Y0=Y0:L=0:PRINT #1,L\$(L\$(L\$):L=L+1:IF EOF(1)=0 THEN 3060 1640 TE\$SEG\$(TE\$,LEN(T E\$)=1,2) 4050 DE=0 Y0=Y0:L=PRINT #1,L\$(L\$) 1710 MM\$SEG\$(TE\$,LEN(T E\$)=1,2) 4050 IF 0=SEG\$(L\$(L\$(J),1,5) Y1=PRINT #1,L\$(L\$) 1730 IF (M<1)+(M>12)THEN 16 4050 IF 0=SEG\$(L\$(L\$(J),1,5) Y1=Y0=Y0 Y1=Y0 Y1 4050 IF 0=SEG\$(L\$(L\$(J),1,5) Y1=Y0=Y0 Y1=Y0 Y1 Y1 4050 IF 0=SEG\$(L\$(L\$(J),1,5) Y1=Y0=Y0 Y1=Y0 Y1 Y1 Y1</l0)+(a>				
$ \begin{array}{c} \begin{tabular}{c} 1500 \\ \end{tabular} 150$	UN 3848 UPEN FP FUR INFUI AS #1: INDIT 41 LL& DO&_LL& ?=			
Ls; "?: GOTO 3070 1500 IF SEG\$(L\$(J),6,1)<>"/ 3360 END 6E 3050 M=VAL(LEFT\$(LL\$,2):D=VAL "THEN 1520 4010 D\$="" L(MID\$(LL\$,4,2):Y0\$=VAL(L (1520 IF (A+P-1)LEN(L\$(J)))+ 4020 DE=1 MID\$(LL\$,4,2):Y0\$=VAL(L (P\$<>SEG\$(L\$(J),A,P))T 4020 DE=1 MID\$(LL\$,4,2):L=0:PRINT "LAST A (P\$<>SEG\$(L\$(J),A,P))T 4020 DE=1 V9=Y0:L=0:PRINT "LAST A (P\$<>SEG\$(C\$,1,1)="Y" TH 4020 INPUT "WANT EVENTS DN FN 3060 INPUT #1,L\$(L):L=L+1:IF 1610 IF SEG\$(P\$,1,1)="Y" TH 4020 IF SEG\$(P\$,1,1) E07(I)=0 THEN 3060 1640 TE\$=STR\$(Y\$100) 4050 DE=0 A 3070 CLOSE #1:ON ERROR GOTO 0 1645 D9\$=D9\$&%"/" 4060 GOTO 4080 A 3070 CLOSE #1:ON ERROR J=0 TO 1710 MM\$=SEG\$(MM\$&"XX",1,3) 4050 DE=0 A 3070 CLOSE #1:PRINT #1,L\$(J) 1710 MM\$=SEG\$(MM\$&"XX",1,3) 4080 FOR J=L8 TO LØ A 9070 BEND 1710 MM\$=SEG\$(MM\$&"XX",1,3) 4080 FOR J=L8 TO LØ B 3090 NEXT J:CLOSE #1:PRINT "DISK ERR 70 1700 IF (M<1)+(M>12)THEN 16 4100 D\$=SEG\$(L\$(J),1,5) M 3130 FRINTENTINT "HIT A KEY T 1840 TE\$=STR\$(100+M) 1420 D\$=VAL(SEG\$(D\$,4,2)) 1330 (F (D<1)+(D>31)THEN 16 M 3130 RESUME 3020 1850 TE\$=STR\$(100+M) 150 Y=Y811 1640 TE\$=STR\$(30	3370	
56 3050 M=VAL(LEFT\$(LL\$,2)):D=VA L(MID\$(LL\$,4,2)):Y0=VAL(MID\$(LL\$,4,2)):Y0=VAL(MID\$(LL\$,4,2)):Y0=VAL(MID\$(LL\$,7,2):Y0=VAL(MID\$(LL\$,7,2):Y0=MDA(NO\$(L)\$EX "THEN 1520 4010 Ds="" MID\$(LL\$,7,2):Y0=VAL(MID\$(LL\$,7,2):Y0=VAL(SCD\$(1)=0) FRINT "LAST A CCESS: ";LL\$ "F(A+P-1>LEN(L\$(J))++ 4020 DE=1 FN 3060 INPUT "ILAST A CCESS: ";LL\$ "F(A+P-1>LEN(L\$(J)),A,P))T 4020 INPUT "WANT EVENTS DN PRINT\$[,1\$(1):L=L+1:IF EOF(1)=0) THEN 3060 FN 3060 INPUT "IL\$(1):L=L+1:IF EOF(1)=0) THEN 3060 1610 IS 205 (P\$,1,1)="Y" TH EN 1630 4000 DE=0 PA 3070 CLOSE #1:ON ERROR GOTO 0 :LS=0:L9=L:RETURN 1640 TE\$ SF(Y8+100) 4050 DE=0 1640 TE\$ SP\$=D9\$\$ IS 00 D9\$=D9\$\$ IS 00 D9\$END 4060 DE=0 1710 IF (M(1)+(M*12)THEN 100) IS 00 D9\$=D9\$\$ MS*XX",1,3) 4080 DE=0 18090 NEXT J:CLOSE #1:PRINT "DISK ERR OR #; ERR; "DCCURRED.":PR IN "THY AGAIN." 1710 MM*S=SEG\$(M*1(1)+(M)12)THEN 16 4100 D\$=SEG\$(L\$(J),1,5) 1810 PRINT*HIY AGAIN." 1830 IF (D<1)+(D>31)THEN 16 4100 D\$=VAL(SEG\$(D\$,4,2)) 18130 RESUME 3020 IF (ET\$*(P\$*,1)="Y" IS 05<				
L (MID\$(LL\$,4,2):Y9=VAL(MID\$(LL\$,7,2):M9=VAL(MID\$(LD\$,7,1,2):M9=VAL(MID\$(LD\$,1,2):M9=VAL(MID\$(LD\$,1,2):M9=VAL(MID\$(LD\$,1,2):M9=VAL(MID\$(LD\$,1,2):M1=M1] MID\$(MID\$(MID\$,1,2):M1=M1] MID\$(MID\$(MID\$,1,2):M1=M1] MID\$(MID\$(MID\$,1,2):M1=M1] MID\$(MID\$(MID\$,1,2):M1=M1] MID\$(MID\$(MID\$,1,2):M1=M1] MID\$(MID\$(MID\$,1,2):M1=M1] MID\$(MID\$(MID\$,1,2):M1=M1] MID\$(MID\$(MID\$(MID\$,1,2):M1] MID\$(MID\$(MID\$(MID\$(MID\$,1,2):M1] MID\$(MID\$(MID\$(MID\$(MID\$	-	" THEN 1520	4010	
MID\$(LL\$,7,2):M9=M:D9=D :Y9=Y0:L=0:PRINT "LAST A CCESS: ";LL\$ (P\$<>SED\$(L\$(J),A,P))T HEN 1540 4030 INPUT "WANT EVENTS ON PRINTER (Y/N) ":P\$ FN 3060 INPUT #1,L\$(L):L=L+1:IF EOF(1)=0 THEN 3060 1610 IF SED\$(P\$,1,1)="Y" TH EN 1630 4040 IF SED\$(P\$,1,1) FN 3060 INPUT #1,L\$(L):L=L+1:IF EOF(1)=0 THEN 3060 1640 IF SED\$(P\$,1,1) 4070 HEN 4070 FN 3060 INPUT #1,L\$(L):L=L+1:IF EOF(1)=0 THEN 3060 1640 IF SED\$(P\$,1,1) 4050 DE=0 FN 3070 CLOSE #1:ON ERROR GOTO 0 1L0=0:L?=L:RETURN 1645 D9\$=D9\$&SEG\$(TE\$,LEN(T E\$)-1,2) 4050 DE=0 10 10-9:PRINT #1,D\$ 1730 IF (M<1)+(M>12)THEN 16 4070 DPEN #1:"RS232/2.BA=96 00.DA==0.PA=N" 10 10-9:PRINT #1,L\$(J) 1730 IF (M<1)+(M>12)THEN 16 4070 DPEN #1:"RS232/2.BA=96 00.DA==0.PA=N" 10 10-9:PRINT #1,L\$(J) 1730 IF (M<1)+(M>12)THEN 16 4070 DPEN #1:"RS232/2.BA=96 00.DA==0.PA=N" 10 10-9:PRINT #1,L\$(J) 1730 IF (M<1)+(M>12)THEN 16 4070 DPEN #1:"RS232/2.BA=96 00.DA==0.PA=N" 10 10-9:PRINT #1,L\$(J) 1730 IF (M<1)+(M>12)THEN 16 4070 DPEN #1:"RS232/2.BA=96 00.DA==0.PA=N" 10 10-9:PRINT #1,L\$(J) 1730 IF (M<1)+(M>12)THEN 16 4070 DPEN #1:"RS232/2.BA=96 0.DA==0.PA=N" 11 10.0 1730 IF (M<1)+(M>12)THEN 16 4070 DPEN #1:"RS232/2.BA=96 0.DA==0.PA=N"	-	1520 IF (A+P-1>LEN(L\$(J)))+		
$\begin{array}{c} : Y9=Y9: L=0: PRINT "LAST A \\ CCESS: "; LL$ Here is the example of the exa$		(P\$<>SEG\$(L\$(J),A,P))T		
FN 3060 INFUT #1,L\$(L):L=L+1:IF EN 1630 HEN 4070 8070 CLDSE #1:DN ERROR GOTD 0 1630 D9*D9%*C********************************		HEN 1540		
111 00 10 10 10 10 10 10 10 10 10 10 10	· · · · · · · · · · · · · · · · · · ·			
PA 3070 CLOSE #1:0N ERROR GOTO 0 :L8=0:L9=L:RETURN 1640 TE\$=STR\$(Y8+100) 4060 GOTO 4080 CS 3090 OPEN F\$ FOR DUTPUT AS #1 :PRINT #1,D9\$:FOR J=0 TO L9-1:PRINT #1,L\$(J) 1640 TE\$=STR\$(Y8+100) 4070 DPEN #1:"RS232/2.BA=96 WS 3090 OPEN F\$ FOR DUTPUT AS #1 :PRINT #1,D\$;FOR J=0 TO L9-1:PRINT #1,L\$(J) 1710 MM\$=SEG\$(M\$\$*XX",1,3) 4080 FOR J=L8 TO L0 WS 3090 NEXT J:CLOSE #1:GN ERROR GOTO 0:END 1730 IF (M<1)+(M>12)THEN 16 4090 IF D\$=SEG\$(L\$(J),1,5) WS 3090 NEXT J:CLOSE #1:GN ERROR GOTO 0:END 70 4100 D\$=SEG\$(L\$(J),1,5) EC 3100 CLOSE #1:PRINT "DISK ERR OR #";ERR; "OCCURRED.":PR INT "TRY AGAIN." 1830 IF (D<1)+(M>12)THEN 16 4100 D\$=SEG\$(L\$(J),1,5) MH 3110 PRINT:PRINT "HIT A KEY T 0 CONTINUE" 1840 IF (D<1)+(D>31)THEN 16 4120 D=VAL(SEG\$(D\$,4,2)) A1320 A\$=INKEY\$:IF A\$="" THEN 3120 1845 D\$=SEG\$(TE\$,LEN(TE\$)- 1,2)&"/" 4140 IF D\$>D\$\$ THEN 4160 JA 3130 RESUME 3020 1655 D\$=D\$\$ D\$\$ D\$\$ D\$\$ D\$\$ D\$\$ D\$\$ D\$\$ D\$\$ D	-			
:L8=0:L9=L:RETURN 1645 D9*&SEG*(TE*,LEN(T) 4070 UPEN *1:**S23222.BH=76 C6 3080 OPEN F\$ FOR OUTPUT AS #1 :PRINT #1,D9\$:FOR J=0 TO L9-1:PRINT #1,L\$(J) 1710 MM\$=SEG\$(MM\$&"XX",1,3) 4080 FOR J=LB TO L0 .1710 MM\$=SEG\$(MM\$&"XX",1,3) 1730 IF (M<1) + (M>12) THEN 16 4090 IF D\$=SEG\$(L\$(J),1,5) T NB 3090 NEXT J:CLOSE #1:ON ERROR GOTO 0:END 1700 IF (M<1) + (M>12) THEN 16 4090 IF D\$=SEG\$(L\$(J),1,5) S100 CLOSE #1:PRINT "DISK ERR OR #";ERR; "OCCURRED.":PR INT "TRY AGAIN." 1830 IF (D<1) + (D>31) THEN 16 4100 D\$=SEG\$(L\$(G),1,5) H 3110 PRINT:PRINT "HIT A KEY T 1840 TE\$=STR\$(100+M) 1430 Y=Y8 4130 Y=Y8 H 3120 A\$=INKEY\$: IF A\$="" THEN 3120 1845 D\$\$=SEG\$(TE\$,LEN(TE\$)- 1,2)&"/" 4160 GOSUB 2150 4150 Y=Y8+1 K 3120 A\$=INKEY\$: IF A\$="" THEN 3130 RESUME 3020 1855 TE\$=STR\$(100+D) 4170 PRINT #DE: M\$(W);" "; 4160 GOSUB 2150 A 4020 D\$=="":INPUT "WANT EVENTS ON PRINTER (Y/N)";P\$ 1865 IF (D8\$=D9\$)\$(FL=1)THE N 1880 4190 PRINT #DE: M\$(M);D 4190 PRINT #DE: M\$(M);D P0 4030 IF LEFT\$(P\$,1)="Y" THEN A\$ #1 ELSE OPEN "SCRN:" 1870 LL\$=CHR\$(127) 4200 NEXT J 4200 NEXT J A\$ #1 ELSE OPEN "SCRN:" 1960 LL\$=CHR\$(127) 4220 CLOSE #DE 4220 CLOSE #DE	EUF (1) =0 THEN 3060	1639 079-0799 / 1640 TE\$=STR\$(V8+100)		
C6 3080 OPEN F\$ FOR OUTPUT AS #1 :PRINT #1,D9\$:FOR J=0 TO L9-1:PRINT #1,L\$(J) E\$)-1,2) Ø0.DA=8.PA=N" VB 3090 NEXT J:CLOSE #1:ON ERROR GOTO Ø:END 1710 MM\$=SEG\$(M\$&"XX",1,3) 4080 FOR J=L8 TO LØ VB 3090 NEXT J:CLOSE #1:ON ERROR GOTO Ø:END 70 4090 IF D\$=SEG\$(L\$(J),1,5)T VB 3090 NEXT J:CLOSE #1:ON ERROR GOTO Ø:END 1800 IF (M<1)+(M>12)THEN 16 4090 D\$=SEG\$(L\$(J),1,5) VB 3090 CLOSE #1:PRINT "DISK ERR INT "TRY AGAIN." 70 1830 IF (D<1)+(D>31)THEN 16 4120 D=VAL (SEG\$(D\$,1,2)) VB 3100 PRINT:PRINT "HIT A KEY T INT "TRY AGAIN." 1845 D\$\$=SEG\$(TE\$,LEN(TE\$)- ISA 3120 A\$=INKEY\$:IF A\$="" THEN 3120 1845 D\$\$=SEG\$(TE\$,LEN(TE\$)- IA 3130 RESUME 3020 1855 D\$\$=D\$\$\$\$SEG\$(TE\$,LEN(T E\$)-1,2) 4160 GOSUB 2150 VA010 ON ERROR GOTO 4090 1855 IF (D\$\$=STR\$(100+D) 1850 TE\$=STR\$(100+1) 4190 PRINT #DE:W\$(W); " "; SEG\$(L\$(J),6,LEN(L\$(J), 0N PRINTER (Y/N)";P\$ VA030 IF LEFT\$(P\$,1)="Y" THEN A9030 IF LEFT\$(P\$,1)="Y" THEN A5 #1 ELSE OPEN "SCRN:" 1850 IF (D\$\$=D\$\$)\$\$\$\$ 4200 NEXT J VA030 IF LESE OPEN "SCRN:" 1860 IF (D\$\$ 1960 LL\$=CHR\$(127) 4200 NEXT J VA030 IF LESE OPEN "SCRN:" 1870 IF OB\$>=SEG\$(D\$\$,15)T 4200 NEXT J VA030 IF LESE OPEN "SCRN:" 1870 IF OB\$>=SEG\$(D\$\$,15)T 4200 NEXT J VA030 IF LESE OPEN "SCRN:" 1960 LL\$=CHR\$(127)	HAND CLOSE #1:0N ERROR GOTO Ø	1645 D95=095%SEG5(TE5_LEN(T		
1000000000000000000000000000000000000	IS TADA ODEN E& EOD OUTDUT AD #1	E\$)-1.2)		ØØ.DA=8.PA=N"
L9-1:PRINT #1,L\$(J) 1730 IF (M<1)+(M>12)(HEN 16 4090 IF D\$=\$EG\$(L\$(J),1,5)) NB 3090 NEXT J:CLOSE #1:ON ERROR GOTO 0:END 1800 IF (M<1)+(M>12)THEN 16 HEN 4190 GOTO 0:END 1800 IF (M<1)+(M>12)THEN 16 4100 D\$=SEG\$(L\$(J),1,5) EC 3100 CLOSE #1:PRINT "DISK ERR OR #";ERR; "OCCURRED.":PR 70 4110 M=VAL(SEG\$(D\$,1,2)) INT "TRY AGAIN." 1830 IF (D<1)+(D>31)THEN 16 4120 D=VAL(SEG\$(D\$,4,2)) INT "TRY AGAIN." 1840 TE\$=STR\$(100+M) 4130 Y=Y8 HH 3110 PRINT:PRINT "HIT A KEY T O CONTINUE" 1840 TE\$=STR\$(100+M) 4140 IF D\$>D9\$ THEN 4160 K 3120 A\$=INKEY\$:IF A\$="" THEN 3120 1855 D8\$=SEG\$(TE\$,LEN(T\$)- 1,2)&"" 4160 GOSUB 2150 JA 3130 RESUME 3020 1855 D8\$=D8\$\$SEG\$(TE\$,LEN(T\$)- 1,2)&"" 4160 PRINT #DE:W\$(W);" "; JA 3130 RESUME 3020 1855 D8\$=D9\$\$SEG\$(TE\$,LEN(T\$)- 1,2) 4160 PRINT #DE:W\$(W);" "; JA 4020 D\$="":INPUT "WANT EVENTS ON PRINTER (Y/N)";P\$ 1865 IF (D8\$=D9\$)\$(FL=1)THE ON PRINTER (Y/N)";P\$ 1865 IF (D8\$=D9\$)\$(FL=1)THE ON PRINTER (Y/N)";P\$ 1867 IF 0B\$ P0 4030 IF LEFT\$(P\$,1)="Y" THEN OPEN "LPT1:" FOR OUTPUT AS #1 ELSE OPEN "SCRN:" 1870 IF 0\$\$ D\$\$ 4200 NEXT J 4210 IF DE=0 THEN 4230 4220 CLOSE #DE 4220 CLOSE #DE 4220 CLOSE #DE	PRINT #1 DOK.END T-A TO	1710 MM\$=SEG\$(MM\$&"XX",1,3)	4080	FOR J=L8 TO LØ
NB 3090 NEXT J:CLOSE #1:ON ERROR GOTD 0:END 70 HEN 4190 Standard CLOSE #1:PRINT "DISK ERR OR #";ERR; "OCCURRED.":PR INT "TRY AGAIN." 70 4100 D\$=SEG\$(L\$(J),1,5) MB 3110 PRINT:PRINT "HIT A KEY T OCONTINUE" 1830 IF (D<1)+(D>31)THEN 16 70 4120 D=VAL (SEG\$(D\$,4,2)) HH 3110 PRINT:PRINT "HIT A KEY T OCONTINUE" 1840 TE\$=STR\$(100+M) 4140 IF D\$>D9\$ THEN 4160 K 3120 A\$=INKEY\$:IF A\$="" THEN 3120 1845 D8\$=SEG\$(TE\$,LEN(TE\$)- 1,2)&"/" 4140 IF D\$>D9\$ THEN 4160 NA 3130 RESUME 3020 1855 D8\$=D8\$&SEG\$(TE\$,LEN(TE\$)- 1,2)&"/" 4160 GOSUB 2150 NA 3130 RESUME 3020 1855 D8\$=D8\$&SEG\$(TE\$,LEN(T 4190 PRINT #DE:W\$(W);" "; NA 3130 RESUME 3020 1855 D8\$=D9\$\$\$(FL=1)THE ON PRINTER (Y/N)";P\$ 1865 IF (D8\$=D9\$)\$(FL=1)THE ON PRINTER (Y/N)";P\$ 1865 IF (D8\$=D9\$)\$(FL=1)THE N 1880 4190 PRINT #DE:"(3 SPACES)" 0N PRINTER (Y/N)";P\$ 1870 IF .D8\$>=SEG\$(D9\$,1,5)T HEN 1890 4200 NEXT J 0PEN "LPT1:" FOR OUTPUT AS #1 ELSE OPEN "SCRN:" 1860 LL\$=CHR\$(127) 4220 CLOSE #DE		1730 IF (M<1)+(M>12)THEN 16	4090	IF D\$=SEG\$(L\$(J),1,5)T
GOTD Ø:END 1800 IF (M<1)+(M>12)THEN 16 4100 D\$=SEG\$(L\$(J),1,5) EC 3100 CLOSE #1:PRINT "DISK ERR OR #";ERR; "OCCURRED.":PR INT "TRY AGAIN." 70 4110 M=VAL(SEG\$(D\$,1,2)) INT "TRY AGAIN." 70 4120 D=VAL(SEG\$(D\$,4,2)) H 3110 PRINT:PRINT "HIT A KEY T 1840 TE\$=STR\$(100+M) 4130 Y=Y8 H 3110 PRINT:PRINT "HIT A KEY T 1845 D8\$=SEG\$(TE\$,LEN(TE\$)- 4150 Y=Y8+1 K 3120 A\$=INKEY\$:IF A\$="" THEN 3120 1850 TE\$=STR\$(100+D) 4160 GOSUB 2150 JA 3130 RESUME 3020 1855 D8\$=D8\$&SEG\$(TE\$,LEN(T 4180 PRINT #DE:M\$(M);D CJ 4010 ON ERROR GOTO 40090 1855 D8\$=D8\$&SEG\$(TE\$,LEN(T 4180 PRINT #DE:M\$(M);D BA 4020 D\$="":INPUT "WANT EVENTS ON PRINTER (Y/N)";P\$ 1865 IF (D8\$=D9\$)\$(FL=1)THE ON PRINTER (Y/N)";P\$ 1870 IF D8\$>=SEG\$(D9\$,1,5)T 4200 NEXT J P0 4030 IF LEFT\$(P\$,1)="Y" THEN OPEN "LPT1:" FOR OUTPUT AS #1 ELSE OPEN "SCRN:" 1876 LL\$=CHR\$(127) 4220 CLOSE #DE	NB 3090 NEXT J:CLOSE #1:ON ERROR	7Ø		HEN 419Ø
EC 3100 CLOSE #1:PRINT "DISK ERR OR #";ERR; "OCCURRED.":PR INT "TRY AGAIN." 70 4110 M=VAL(SEG\$(D\$,1,2)) INT "TRY AGAIN." 1830 IF (D<1)+(D>31)THEN 16 INT "TRY AGAIN." 4120 D=VAL(SEG\$(D\$,4,2)) HH 3110 PRINT:PRINT "HIT A KEY T D CONTINUE" 1840 TE\$=STR\$(100+M) 4130 Y=Y8 K 3120 A\$=INKEY\$:IF A\$="" THEN 3120 1845 D8\$=SEG\$(TE\$,LEN(TE\$)- 1,2)&"/" 4160 GOSUB 2150 JA 3130 RESUME 3020 1855 D8\$=D8\$&SEG\$(TE\$,LEN(T E\$)-1,2) 4160 GOSUB 2150 JA 4010 ON ERROR GOTO 4090 1855 D8\$=D8\$&SEG\$(TE\$,LEN(T E\$)-1,2) 4180 PRINT #DE:M\$(M); " "; BA 4020 D\$="":INPUT "WANT EVENTS ON PRINTER (Y/N)";P\$ 1865 IF (D8\$=D9\$)\$(FL=1)THE N 1880 4200 NEXT J P0 4030 IF LEFT\$(P\$,1)="Y" THEN OPEN "LPT1:" FOR OUTPUT AS #1 ELSE OPEN "SCRN:" 1870 IF D8\$>=SEG\$(D9\$,1,5)T HEN 1890 4200 NEXT J 4210 IF DE=0 THEN 4230 4220 CLOSE #DE 4220 CLOSE #DE	· · ·	1800 IF (M<1)+(M>12)THEN 16		•
INT "TRY AGAIN." 70 4130 Y=Y8 H 3110 PRINT:PRINT "HIT A KEY T D CONTINUE" 1840 TE\$=STR\$(100+M) 4140 IF D\$>D9\$ THEN 4160 B45 D8\$=SEG\$(TE\$,LEN(TE\$)- 1,2)&"/" 1845 D8\$=SEG\$(TE\$,LEN(TE\$)- 1,2)&"/" 4160 GDSUB 2150 FK 3120 A\$=INKEY\$; IF A\$="" THEN 3120 1850 TE\$=STR\$(100+D) 4160 GDSUB 2150 JA 3130 RESUME 3020 1855 D8\$=D8\$&SEG\$(TE\$,LEN(T E\$)-1,2) 4160 PRINT #DE:W\$(W);" "; JA 3130 RESUME 3020 1855 D8\$=D8\$&SEG\$(TE\$,LEN(T E\$)-1,2) 4190 PRINT #DE:M\$(M);D GJ 4010 ON ERROR GOTD 4090 E\$)-1,2) 4190 PRINT #DE:"(3 SPACES)" BA 4020 D\$=="":INPUT "WANT EVENTS ON PRINTER (Y/N)";P\$ 1865 IF (D8\$=D9\$)\$(FL=1)THE N 1880 ;SEG\$(L\$(J),6,LEN(L\$(J)) P0 4030 IF LEFT\$(P\$,1)="Y" THEN OPEN "LPT1:" FOR OUTPUT AS #1 ELSE OPEN "SCRN:" 1870 IF D8\$>=SEG\$(D9\$,1,5)T HEN 1890 4200 NEXT J 4210 IF DE=0 THEN 4230 4210 IF DE=0 THEN 4230 4210 IF DE=0 THEN 4230	EC 3100 CLOSE #1:PRINT "DISK ERR			
INT "TRY AGAIN." 70 4130 Y=Y8 H 3110 PRINT:PRINT "HIT A KEY T D CONTINUE" 1840 TE\$=STR\$(100+M) 4140 IF D\$>D9\$ THEN 4160 B45 D8\$=SEG\$(TE\$,LEN(TE\$)- 1,2)&"/" 1845 D8\$=SEG\$(TE\$,LEN(TE\$)- 1,2)&"/" 4160 GDSUB 2150 FK 3120 A\$=INKEY\$; IF A\$="" THEN 3120 1850 TE\$=STR\$(100+D) 4160 GDSUB 2150 JA 3130 RESUME 3020 1855 D8\$=D8\$&SEG\$(TE\$,LEN(T E\$)-1,2) 4160 PRINT #DE:W\$(W);" "; JA 3130 RESUME 3020 1855 D8\$=D8\$&SEG\$(TE\$,LEN(T E\$)-1,2) 4190 PRINT #DE:M\$(M);D GJ 4010 ON ERROR GOTD 4090 E\$)-1,2) 4190 PRINT #DE:"(3 SPACES)" BA 4020 D\$=="":INPUT "WANT EVENTS ON PRINTER (Y/N)";P\$ 1865 IF (D8\$=D9\$)\$(FL=1)THE N 1880 ;SEG\$(L\$(J),6,LEN(L\$(J)) P0 4030 IF LEFT\$(P\$,1)="Y" THEN OPEN "LPT1:" FOR OUTPUT AS #1 ELSE OPEN "SCRN:" 1870 IF D8\$>=SEG\$(D9\$,1,5)T HEN 1890 4200 NEXT J 4210 IF DE=0 THEN 4230 4210 IF DE=0 THEN 4230 4210 IF DE=0 THEN 4230		1830 IF (D<1)+(D>31)THEN 16	4120	
0 CONTINUE" 1845 D8\$=SEG\$(TE\$,LEN(TE\$)- 4150 Y=Y8+1 FK 3120 A\$=INKEY\$:IF A\$="" THEN 3120 1,2)&"/" 4160 GDSUB 2150 JA 3130 RESUME 3020 1850 TE\$=STR\$(100+D) 4170 PRINT #DE:W\$(W);" "; JA 3130 RESUME 3020 1855 D8\$=D8\$&SEG\$(TE\$,LEN(T 4180 PRINT #DE:W\$(W);" "; JA 3130 RESUME 3020 1855 D8\$=D8\$&SEG\$(TE\$,LEN(T 4190 PRINT #DE:W\$(M);D JA 4010 ON ERROR GDTD 4090 E\$)-1,2) 1865 IF (D8\$=D9\$)\$(FL=1)THE ;SEG\$(L\$(J),6,LEN(L\$(J)) BA 4020 D\$="":INPUT "WANT EVENTS 1865 IF (D8\$=D9\$)\$(FL=1)THE ;SEG\$(L\$(J),6,LEN(L\$(J)) ON PRINTER (Y/N)";P\$ 1865 IF (D8\$=D9\$)\$(FL=1)THE ;SEG\$(L\$(J),6,LEN(L\$(J)) P0 4030 IF LEFT\$(P\$,1)="Y" THEN OPEN "LPT1:" FOR OUTPUT AS #1 ELSE OPEN "SCRN:" 1870 IF \D8\$>=SEG\$(D9\$,1,5)T 4200 NEXT J 4210 IF DE=0 THEN 4230 4210 IF DE=0 THEN 4230	INT "TRY AGAIN."	70/	4130	
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3120 1850 TE\$=STR\$(100+D) 4170 PRINT #DE:W\$(W); ""; JA 3130 RESUME 3020 1855 D8\$=D8\$&SEG\$(TE\$,LEN(T 4180 PRINT #DE:M\$(M);D CJ 4010 ON ERROR GOTO 4090 1855 D8\$=D8\$&SEG\$(TE\$,LEN(T 4180 PRINT #DE:M\$(M);D BA 4020 D\$="":INPUT "WANT EVENTS 1865 IF (D8\$=D9\$)\$(FL=1)THE 4190 PRINT #DE:"{3 SPACES}" ON PRINTER (Y/N)";P\$ 1865 IF (D8\$=D9\$)\$(FL=1)THE ;SEG\$(L\$(J),6,LEN(L\$(J) P0 4030 IF LEFT\$(P\$,1)="Y" THEN 1870 IF D8\$>=SEG\$(D9\$,1,5)T 4200 NEXT J OPEN "LPT1:" FOR OUTPUT HEN 1890 4210 IF DE=0 THEN 4230 AS #1 ELSE OPEN "SCRN:" 1960 LL\$=CHR\$(127) 4220 CLOSE #DE				
JA 3130 RESUME 3020 1855 D8\$=D8\$&SEG\$(TE\$,LEN(T 4180 PRINT #DE:M\$(M);D CJ 4010 ON ERROR GOTO 4090 E\$)-1,2) 4190 PRINT #DE:"{3 SPACES}" BA 4020 D\$="":INPUT "WANT EVENTS ON PRINTER (Y/N)";P\$ 1865 IF (D8\$=D9\$)*(FL=1)THE N 1880 5SEG\$(L\$(J),6,LEN(L\$(J))) P0 4030 IF LEFT\$(P\$,1)="Y" THEN OPEN "LPT1:" FOR OUTPUT AS #1 ELSE OPEN "SCRN:" 1870 IF D8\$>=SEG\$(D9\$,1,5)T 4200 NEXT J 4210 IF DE=0 THEN 4230 4210 IF DE=0 THEN 4230		1850 TE\$=STR\$(100+D)		
CJ 4010 ON ERROR GOTO 4090 E\$)-1,2) 4190 PRINT #DE: "(3 SPACES)" BA 4020 D\$="":INPUT "WANT EVENTS 1865 IF (DB\$=D9\$)*(FL=1)THE ;SEG\$(L\$(J),6,LEN(L\$(J))) ON PRINTER (Y/N)";P\$ N 1880)) P0 4030 IF LEFT\$(P\$,1)="Y" THEN 1870 IF D8\$>=SEG\$(D9\$,1,5)T 4200 NEXT J OPEN "LPT1:" FOR OUTPUT HEN 1890 4210 IF DE=0 THEN 4230 AS #1 ELSE OPEN "SCRN:" 1960 LL\$=CHR\$(127) 4220 CLOSE #DE				
BA 4020 D\$="":INPUT "WANT EVENTS ON PRINTER (Y/N)";P\$ 1865 IF (D8\$=D9\$)*(FL=1)THE N 1880 ;SEG\$(L\$(J),6,LEN(L\$(J))) P0 4030 IF LEFT\$(P\$,1)="Y" THEN OPEN "LPT1:" FOR OUTPUT AS #1 ELSE OPEN "SCRN:" 1870 IF (D8\$=D9\$)*(FL=1)THE N 1880)) ;SEG\$(L\$(J),6,LEN(L\$(J))) P0 4030 IF LEFT\$(P\$,1)="Y" THEN OPEN "LPT1:" FOR OUTPUT HEN 1890 1870 IF (D8\$=D9\$)*(FL=1)THE 1870 IF (D8\$=D9\$)*(FL		-	4190	PRINT #DE:"{3 SPACES}"
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OPEN "LPT1:" FOR OUTPUT HEN 1890 4210 IF DE=0 THEN 4230 AS #1 ELSE OPEN "SCRN:" 1960 LL\$=CHR\$(127) 4220 CLOSE #DE	· · · · · · · · · · · · · · · · · · ·			
AS #1 ELSE OPEN "SCRN:" 1960 LL\$=CHR\$(127) 4220 CLOSE #DE				
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		$ = x + x + \cdots + y + y + y + y + y + y + y + y + y$		

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Wishbringer

James V. Trunzo

Requirements: Commodore 64; Apple IIseries computer with at least 48K RAM; Atari 400/800, XL, or XE with at least 48K RAM; IBM PC with at least 48K RAM; Expanded Model PCjr; Amiga; Atari 520ST; Macintosh; Kaypro CP/M; or a TRS-80 Model III. All versions require a disk drive. The Commodore 64 version was reviewed.

The latest entry from Infocom, the soft-

general map is included. If you find the Wishbringer, your second job is to use the powers of the stone (which are awesome in some ways, yet limited in others) to save your town—a town that no longer resembles what it was at the start of the adventure. Now it's filled with trolls, vultures, and other evil creatures.

Wishbringer conforms to the usual Infocom style. That is, it employs no graphics, relying on detailed descriptions and the player's imagination to provide the "pictures." The sophisticated parser, an Infocom trademark, lets you type in compound sentences rather than just primitive verb-noun commands. Other features let you save games in progress and send text to a printer. And as always with an Infocom package, Wishbringer is attractively designed. It includes a beautifully illustrated storybook, "The Legend of Wishbringer," and even a plastic Wishbringer stone that glows in the dark. Starting with a simple premise--one that may seem almost childish at first-Wishbringer quickly becomes an enjoyable, playable adventure for all but the most hardened veterans of adventure games.

to organize and memorize facts. It also helps you practice and test yourself on those techniques.

Two fundamental design principles give *Remember!* its power: You enter the facts you want to memorize only once, and the program then presents them to you in a variety of ways; and the program helps you build associations with the facts you're learning.

You begin by using the Create or Edit Lesson section to enter the facts you want to memorize into question and answer blocks. Once the lesson is entered, you can add hints to help you memorize the information. These hints can be in any of three formats: pictorial, musical, or written. Only one hint is allowed per question, and all hints for a given lesson must be in the same format. Editing functions allow you to make changes in the questions, answers, or hints at any time. Entering hints is not quite as simple as entering the questions and answers. Although the program is generally flexible, drawing pictures or entering musical notation is not as intuitive as typing in questions. Both take some practice to master. One irritating aspect of entering pictorial or musical hints is that they are not automatically saved when you choose the Get Next Word option. This is the only time you must tell the program to save something, and it's easy to forget. (Remember! will remind you, however.)

ware industry's most prolific producer of text adventures, is a novel mystery/ adventure entitled *Wishbringer*. It's billed as an introductory-level adventure, but veteran gamers should not be put off by the label. When Infocom calls a game "introductory," it simply means you might need only 20 or 30 hours to solve the adventure instead of 60 or 70 hours.

Actually, *Wishbringer* offers several very challenging puzzles, starting at the very beginning of the game when you have to map your way over the mountain leading to the Majick Shoppe. What makes *Wishbringer* slightly easier than a more advanced Infocom game is that some of the mapping is done for you, the scope of the storyline is not as broad, and the puzzles are slightly less devious. However, this should not be construed to mean that the game is child's play—far from it.

As the accompanying storybook says, you're in the role of an ordinary postal clerk in an "ordinary little town," and you've been performing your ordinary mail clerk's duties in an altogether ordinary way. But there's something quite extraordinary about today's mail." From that point your adventure begins, and nothing is the same any more. A Piece Of The Rock The adventure is twofold: First, you must seek out and obtain a magic stone known as the Wishbringer. To keep track of your location in the game's imaginary world, you should compile a map as you go along, even though a

Wishbringer Infocom 125 Cambridge Park Drive Cambridge, MA 02140 \$39.95

Remember!

Karen McCullough

Requirements: Commodore 64; Apple IIseries computer with at least 64K RAM; IBM PC with at least 128K RAM and color/graphics adapter; or an Expanded Model IBM PCjr. All versions also require a disk drive. Joystick and printer optional.

Foreign Language Characters

Once the facts are entered, you have the option of reviewing them or testing yourself in various ways. The Familiarization option displays both questions and answers for review and study. When you feel thoroughly familiar with the material, you can choose the Practice option. In this mode, Remember! displays either the question or answer (your option), and you supply the missing part. If you can't remember the answer, pressing RETURN or Enter displays a hint (if you supplied one), and pressing the key again calls up the correct response. Finally, you can evaluate your progress with the Test option, which is similar to Practice mode.

Remember! bills itself as a "powerful, yet simple tool designed to help students from junior high through college master difficult subjects and improve memory skills." The claim is not exaggerated. This program presents an effective study system that teaches how ite.

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Programming the TI

C. Regena

Christmas Graphics

Try this special Christmas program. It can only be typed in on a TI-99/4A	(450 CALL CHAR(49, "F6E6E0400	810 CALL SOUND(2*T,330,2,1 6,6,165,8)
console.)	89CFEFE") 460 Call Char(50,"070707000	820 CALL CHAR(76, "FFFFFFFF FFFFFFF)
	EØFØ1") 470 Call Char(51,"Føføf8f67	030 CALL CHAR(77, "E1F0F8F0 CFEFEFE")
Ale Three Ki	E7C3911") 480 CALL CHAR(52,"000000000	840 CALL CHAR(78, "3F3F3F3F F3F3F3F")
We Three Kings	Ø1C3F8F") 490 PRINT TAB(7);""()\$ +,"	850 PRINT TAB(6); "6789:;<= ?@ABCD"
100 REM WE THREE KINO9 110 CALL CLEAR	500 CALL CHAR(53,"00000000 030F8FC")	860 CALL CHAR(79, "FCF8FØE0
120 T=375	510 CALL CHAR(54,"000001030	ØC1C1C3")
130 CALL SOUND(2*T,494,2,39	7070718")	870 CALL CHAR(80,"18008080
2,6,165,8)	520 CALL CHAR(55, "1F9FCFC7E	")
40 CALL CHAR(152,"00010103	7F3F9FC")	880 CALL CHAR(81,"3F7F0004
Ø3FF7F1F")	530 CALL SOUND (2*T, 494, 2, 39	FFFFFFF")
50 CALL CHAR(153,"Ø7Ø7ØF1F	2, 6, 165, 8)	890 Call Char(82,"FF930046
1C3Ø3Ø4")	540 CALL CHAR(56, "FØFØE6FØE	Ø818101")
60 CALL SCREEN(2)	ØC3CF1F")	900 PRINT TAB(5);"EFGHI:JK
70 CALL CHAR(154,"8080C0C0	550 CALL CHAR(57, "39190949E	MNOPQRS"
E0FFFEF8")	1F1F9F9")	910 CALL SOUND(2*T,392,4,3
80 CALL CHAR(155,"E0E0F078 180C0C02")	560 CALL CHAR(58, "FDFDFDFDF	Ø,8,165,10) 920 CALL CHAR(83,"38387810
90 CALL CHAR(33,"000000051 5DF7F78")	DFDFDFD") 570 CALL CHAR(59,"7C0CEØFCF FFFFFFF")	Ø8") 930 CALL CHAR(84,"79F9F9F9
00 CALL SOUND(T,440,2,370,	580 CALL CHAR(60, "000103030	9710101")
6,165,9)	383C7C7")	940 CALL CHAR(85, "FFFFFFE
10 CALL CHAR(34,"0206666606	570 CALL SOUND(T,440,2,370,	EFCF8F")
06773F1")	6,165,9)	950 PRINT TAB(5);"TUVHW:LX
20 CALL CHAR(35,"000000004 0C0E0F")	6,103,97 600 CALL CHAR(61,"E7F3F8FCF EFFFFFF")	YVZ[\]" 960 CALL CHAR(86, "3F7F7F7F
30 CALL SOUND(2#T,392,2,33 0,6,165,8)	610 CALL CHAR(62,"C0E6FE7E3	FFFFFFF") 970 CALL CHAR(87,"F3F3F3F3
40 CALL CHAR(36, "E0C0D2929	F1F8FC7")	3F3F3F3")
3333373")	620 CALL SOUND(2#T,392,2,33	980 Call Sound(T,392,5,330
50 CALL CHAR(37,"010701000	Ø,6,165,8)	9,165,11)
1010101")	630 Call Char(63,"Ø70Fø0383	990 CALL CHAR(88, "63617171
60 CALL CHAR(38,"50F0C0103	FØØØF3F")	Ø78787C")
080808")	640 Call Char(64,"FFFFFF3F8	1000 Call Char(89,"F7F7F7F
70 CALL CHAR(39,"010001030	ØØØFEFE")	F8F8F1E1")
70704")	650 Call Char(65,"80C0C0D01	1010 CALL SOUND(2*T,440,4,
80 CALL CHAR(40,"F000808087	Ø2C4C1C")	70,8,147,10)
8086")	660 PRINT TAB(7);"~./Ø1 234	1020 CALL CHAR(90,"C282868
90 PRINT TAB(10);"!"	5"	8080802")
00 Call Sound(T,330,2,196,	670 Call Char(66,"030307030	1030 Call Char(91,"0101010
6,165,9)	91C1F3F")	Ø3070F1F")
10 CALL CHAR(41,"787878F8F	680 CALL CHAR(67,"FCFEFFFFF	1040 CALL CHAR(92,"FEFCFCF
BFBFBFB")	F1FCØCE")	F8F8F8F")
20 Call Char(42,"80808080F	690 CALL SOUND(T,330,2,196,	1050 PRINT TAB(4);"^_*LHWa
CF8F8F")	6,165,9)	bcdVeHf"
30 CALL SOUND(T,370,2,311,	700 CALL CHAR(68,"FCFEFFFFF	1060 CALL CHAR(93,"0303030
6,123,9)	F1FCØCE")	Ø4ØC18E")
40 Call Char(43,"030307060	710 Call Char(69,"000001010	1070 CALL CHAR(94,"Ø707070
4010307")	1091939")	Ø7070703")
50 Call Char(44,"90000020F	720 CALL SOUND(T,370,2,311,	1080 Call Sound(T,440,5,37)
ØFØFØF")	6,123,8)	,9,147,11)
60 Call Sound(t,392,2,311,	730 CALL CHAR(70,"78F9F9F8F	1090 Call Char(95,"F9F9F9F
7,123,9)	BFCFEFF")	F9F9F9F9")
70 CALL CHAR(45,"030707070	740 CALL CHAR(71,"F8F0E0C30	1100 Call Char(96,"F8F0F0F
70F0F0F")	70F1F3F")	EØE4E4C4")
80 Call Char(46,"80C0C0C0E	750 CALL SOUND(T,392,2,311,	1110 CALL SOUND(2*T,494,3,
ØEØEØF")	5,123,8)	92,7,196,9)
90 CALL SOUND(T,370,2,311,	760 Call Char(72,"9F9F9F9F9	1120 CALL CHAR(97,"FCFCFCF
6,123,8)	F9F9F9F")	FCFCFCFC")
ØØ CALL CHAR(47,"ØØØØØ8Ø81	770 Call Char(73,"F9F9F9F1F	1130 CALL CHAR(98,"6000000
8183839")	1F1F3F3")	ØF3F3F3F")
10 CALL CHAR(48, "F9F9F8F8F	780 CALL SOUND(T,370,2,311,	1140 CALL CHAR(99, "3F3F1F0
9FDFDFC")	6,123,9)	BØE1FBFA")
20 CALL SOUND(2#1,330,2,19	790 Call Char(74,"FFFFFFFF	1150 PRINT TAB(4);"g_hLHij
6,6,165,8) 30 PRINT TAB(10);CHR\$(34)	FFF") Bøø Call Char(75,"E7E7E7EFE	Nk1mno"
	F87Ø723")	1160 CALL CHAR(100,"C3870F; F7F7F7F75")

	DALL CHAR (141 8337373E	1634	CALL CHAR(126, "707870F	2160	CALL HCHAR(23,16,14#)
11/0	CALL CHAR(101, "337373F 3F3F3F3F3")		ØFØFØFØF8")	2170	CALL HCHAR(23, 17, 141)
1180	CALL SOUND (T, 494, 4, 392		CALL CHAR(127, "FBF1F1E	2180	CALL HCHAR(23,18,142)
1	,8,196,10)		1E1EØEØE")		CALL HCHAR(24, 6, 143)
1190	CALL CHAR(102, "FØFØEØE		CALL CHAR(128, "FCF8FØF		CALL HCHAR(24,7,144)
	ØCØ8Ø8")		ØF&FØF&F*)	2210	CALL HCHAR(24,8,145)
1200	CALL CHAR (103, "2323636		CALL HCHAR(22,11,127)	2220	CALL HCHAR(24,10,138) CALL HCHAR(24,11,146)
1	3C3C38383")		CALL HCHAR(22,12,128) CALL CHAR(129, "CØCØCØC	2230	CALL HCHAR(24, 12, 143)
1210	CALL SOUND(T,587,2,392 ,6,247,8)		6C6C6C6C")		CALL HCHAR(24,13,147)
1220	CALL CHAR (104, "C4C68E0		CALL CHAR(130, "1F1F0F0		CALL HCHAR(24,15,148)
	EØEØEØE9E")		FØ7Ø7Ø7Ø3")		CALL HCHAR(24, 16, 149)
1230	CALL CHAR(105, "E7E7E7E	1790	CALL SOUND (T, 440, 2, 262		CALL HCHAR(24,17,150)
	7EØEØES")		,8)	2290	CALL SOUND(T/2,9999,30
1240	CALL SOUND (T, 523, 2, 370		CALL CHAR(131, "@103030		
1254	,6,220,8) Call Char(106,"FCFCFCF		303030303") Call Char(132,"C0C0C08	2300	CALL SOUND(2*T,392,2,2 94,7,165,9)
1236	C0000000F4")		5648 ")	2316	CALL SOUND (T, 392, 4, 294
1260	CALL CHAR(107, "F2F2F2F	1730	CALL SOUND (217, 372, 0, 2	2412	,9,165,11)
	2F2E60404")		74, 6, 176, 8)	2320	CALL SOUND (2*1, 392, 2, 2
1270	CALL SOUND(T,494,2,392	174Ø	CALL COLOR(16,16,1)		94,7,165,9)
	,6,196,8)	1750	CALL CHAR(133, "ØEØC1C1	233Ø	CALL SOUND (T, 294, 2, 247
1280	CALL CHAR(108, "7F7FFCF		C383060E")		,6,196,8)
1 1000	CF 0C1031F") CALL CHAR(109 "BE0E1E1	1760	CALL CHAR(134, "0000010	2340	CALL SOUND(2*T, 392, 2, 2
1270	CALL CHAR(109,"8F0F1F1 F1F9DBC38")	1774	103030307") Call Char(135,"E0C0C00	7184	47,6,165,8) Call Sound(T,330,2,262
1366	CALL SOUND (T, 440, 3, 370	1770	Ø8")	2350	,6,131,8)
	,7,228,9)	1780	CALL HCHAR(22,13,129)	2360	CALL SOUND (2#1, 392, 2, 2
1310	CALL CHAR(110, "F3F3F3F3F	1790	CALL CHAR(136, "78783C1		94.6,196,8)
	3F3FØFØF")		CØCØ30606")	237Ø	CALL SUUND(T, 9999, 30)
1320	CALL CHAR(111, "9E9C988	1800	CALL CHAR(137, "6060404	238Ø	CALL SOUND (2*1, 392, 3, 2
1770	Ø8") Call Sound(t,494,3,392	1010	Ø4Ø4") Call Sound(T,392,1,294	7394	47,7,165,9) For C=1 TO 15
1.302	,7,220,9)	TOTA	,7,196,9)		CALL COLOR(C, 16, 1)
1340	CALL CHAR(112, "070F1F3	1820	CALL HCHAR (2,23,156,3)	2410	NEXT C
	F7F7F7E7C")	1830	CALL VCHAR(4,28,158,5)	242Ø	CALL SOUND(T, 392, 4, 247
1350	CALL CHAR(113, "F8F1E3C	1840	CALL HCHAR(4,26,157)		,8,165,10)
	78E18")		CALL HCHAR(5,25,157) Call Sound(2‡T,392,0,2	2430	CALL SOUND(2*T,440,2,3 70,6,147,8)
1200	CALL SOUND(T,440,3,370 ,7,220,9)	1000	94,6,196,8)	2440	CALL SOUND (T, 494, 2, 370
1370	CALL CHAR(114, "909830	1870	CALL CHAR(138, #0303030		,7,147,9)
1	7ØF1F3F7F")		19191")	2459	CALL SOUND (2#T, 523, 1, 3
1380	CALL CHAR(115,"1F1F1F0	1880	CALL CHAR(139, 8000000000000000000000000000000000000		92, 5, 131, 8)
1704	ØØØØØØ7Ø7") Call Sound(2‡t,392,3,3	1004	Ø8980C0C") Call Char(140,"0606030	2469	CALL SOUND(T,494,1,392,5,196,7)
1370	30,7,247,9)	1079	CØC1C1C3C")	2476	CALL SOUND(2*T,440,1,3
1400	CALL CHAR(116, "ESESESØ	1900	CALL HCHAR(22,14,130)		92,6,147,8)
i i	ØØØ387C78">	1910	CALL HCHAR(22,16,131)	248Ø	CALL SOUND (T, 494, 2, 370
1410	CALL CHAR(117, "F4F4F4Ø	1920	CALL CHAR(141, "0103070		,6,147,9)
	0000C1C7C") - Coll Chor(110 "EEEEEA		FØFØEØEØC") 	2490	CALL SOUND(2#T,392,2,2 47,6,196,8)
1429	CALL CHAR(118,"FFFFFFØ Øøøøøeøe")		CALL CHAR(142,"CØCØ8") Call Sound(t,294,1,247	2588	CALL SOUND(T, 392, 3, 294
1430	PRINT TAB(4); "pqrUstuv	* 7 4 9	.6,196,8)		,7,196,9)
1	wxyz{"	1950	CALL CHAR (143, "30383C3	2510	CALL SOUND (2#1, 392, 2, 2
1440	CALL CHAR(119, "3030303		CØE")		47,6,196,8)
	C3E3E3E3E")	1960	CALL CHAR(144,"@60303# Føf070707")	2520	CALL SOUND(T,294,2,196 ,7,123,8)
1430	CALL CHAR(120,"C07F3F0 3")	1974	CALL SOUND(2#T,392,1,2	2574	CALL SOUND(2#T,392,2,3
1460	CALL SOUND (T, 370, 3, 311		47,7,165,9)	2JJU	30,6,131,8)
	,7,123,9)	1780	CALL CHAR(145, "0000000	2540	CALL SOUND (T, 330, 2, 262
1470	CALL CHAR(121, "FFFEFEF		<i>\$\$\$</i> 86000E") 		,6,131,9)
+ 4 0 4	ØØØØ1Ø1Ø1") Call Char(122,"3830707	1990	CALL CHAR(146,"000080C 0E0E")	2550	CALL SOUND(3#T,392,2,2
1 1 7 0 10	ØFØEØEØE">	2000	CALL CHAR(147, "EØFØ7Ø3	2844	94,6,247,9) Call Color(16,12,1)
1490	CALL SOUND (3*T, 330, 3, 1		8")		CALL COLOR(16,16,1)
	96,7,165,9)	2610	CALL HCHAR (22, 17, 132)	2580	CALL KEY(Ø,K,S)
1500	CALL CHAR (156, "FF")	2020	CALL HCHAR (22, 18, 133)		IF 9<1 THEN 2560
1510	CALL CHAR(157,"Ø1Ø2Ø4Ø 81ø2ø4ø8")	2030	CALL CHAR(148, "CØCØCØC ØFØ783C1C")		CALL CLEAR Print "Have a happy ho
1520	CALL CHAR(158,"8080808	2040	CALL CHAR(149, "3C1C#E#	2019	LIDAY SEASON!":::::
	Ø8 589868 8")		707")	2620	END ©
1532	PRINT TAB(4);" } ""	2050	CALL SOUND (T, 330, 1, 262		~
1540	PRINT TAB(4);" "		,6,131,8) : call char(156 "1010188		
1844	CALL HCHAR(2,27,152) CALL HCHAR(3,27,153)	2069	CALL CHAR(150,"1010100 8")		
	CALL HCHAR(2,28,154)	2070	CALL HCHAR(23,7,134)		
1 1 1 1 1 1	CALL HCHAR (3, 28, 155)	3404	CALL HCHAR(23.8.135)		

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1580 CALL HCHAR(3, 28, 155)
                               2080 CALL HCHAR(23,8,135)
1590 CALL CHAR(123, "F87C7C3
                               2090 CALL HCHAR(23,10,136)
                               2100 CALL HCHAR(23,11,137)
     C3E1F1FØE")
                               211Ø CALL SOUND(2*1,392,1,2
1600 CALL CHAR(124, "3030303
     @3@3@3@3")
                                    94,6,165,8)
                               2120 CALL HCHAR(23,12,124)
1610 CALL CHAR(125, "FFFCFCF
                               2130 CALL HCHAR(23,13,129)
     8FØFØEØE")
                               2140 CALL HCHAR(23,14,138)
1620 CALL SOUND (2#1, 370, 2, 2
                               2150 CALL HCHAR(23, 15, 139)
     94,6,220,8>
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