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REPORT:

IN THE JUNE ISSUE OF YOUR NEWSLETTER THERE WAS AN AD FOR THE 'RF-II'. I HAVE BEEN USING THE UNIT FOR ABOUT 90 DAYS AND FIND THAT IT IS A VERY GOOD ADDITION TO MY TRS-80. THE RF-II WILL CONTROL TWO (2) TAPE RECORDERS WITH REWIND AND CROSS OVER FROM ONE TO THE OTHER.

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COST: FOR CTR-80 IS \$54 95  
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HI SOB.

I'VE BEEN USING THESE TWO ROUTINES TO OPERATE MY TT 37. I MODIFIED A PROGRAM BY LEAH R. O'CONNOR TO WORK BETTER FOR MY USES. I USE THE PROGRAM 'PRINT' TO PRINT A CONTINUOUS RUN AND I USE 'PRINTER' TO SKIP OVER THE PERFORATIONS.

I HAVE PUT REM'S TO HELP ANYBODY MODIFY IT TO WORK BETTER FOR THEM. I HAVE ENCLOSED A CHECK FOR 2 YRS. AS 1 YR. SEEMS SO SHORT. MY SUBSCRIPTION HAS RUN OUT AND LIKE SO MANY THINGS ITS NOT MISSED TILL YOU DON'T GET ANY MORE.

I DO HAVE A SUGGESTION TOO. SINCE YOU'RE GATHERING INFORMATION TO DO SOME GROUP BUYS. WHY NOT SEND A QUESTIONNAIRE WITH A NEWSLETTER FOR YOUR READERS TO ANSWER IN CATEGORIES. WHAT EQUIPMENT THEY WANT (LIKE ON DISK DRIVES HOW MANY TRACKS AND WHETHER OR NOT WITH CABINETS OR POWER SUPPLIES. LIKE ME. I PREFER DRIVES ONLY. NO CABINET OR POWER SUPPLY. I FIND I SAVE MORE AND MY OWN CABINET ALLOW S ME TO ARRANGE THEM TO SUIT ME.

I DO HAVE A QUESTION FOR SPECULATION? WHY CAN'T DRIVES ON A TRS-80 BE PUT INTO 4 DRIVES TO A GROUP AND HAVE 2 OR MORE GROUPS. A BUFFER TO HANDLE THE EXTRA LOGIC LOAD AND A SELECTOR TO SELECT WHICH GROUP. MAYBE CONTROLLED BY AN OUT PORT AND A MODIFICATION TO DOS TO COUNT MORE DRIVES. IT SEEMS LIKE A WAY FOR THOSE OF US WHO ALLREADY HAVE 4 DRIVE TO EXPAND AND NOT HAVE TO SELL THE DRIVES WE HAVE OR TRANSFER ALL THOSE PROGRAMS TO A NEW SYSTEM. DOES ANYONE KNOW WHY IT WOULD OR WOULDN'T WORK?

RESPECTFULLY,

RAY LUNKWITZ

P. O. BOX 671

GRAND ISLAND NEBR 68881

```

1 REM ** THIS WILL PRINT 58 LINES TO THE PAGE **
2 REM ** IT WILL SKIP 8 LINES AND START NEW PAGE **
3 REM ** IT PRINTS 80 CHARACTERS TO A LINE **
4 REM ** IT ADD LINE FEED AFTER A CARRIAGE RETURN **
5 REM ** POKE-124,1 TO SET TOP OF PAGE **
6 REM ** POKE-136,? TO SET CHARACTERS PER LINE **
7 REM ** POKE-167,? TO SET LINES PER PAGE **
8 REM ** POKE-157,? TO SET SKIP LINES TO NEW PAGE **
9 REM ** THIS PROGRAM IS FOR A TT 33,35 OR 37 RUNNING AT 110 BAUD, WITH RS-232 INTERFACE **
10 REM ** POKE NEW DCB TYPE AND ADDRESS IN RAM ( 16425 ) **
11 REM ** -256 TO -219 INITIALIZES INTERFACE **
12 REM ** -218 TO -205 CHECKS FOR READY TO SEND **
13 REM ** -204 TO -145 LINES TO PAGE AND SKIP LINES CHECKS **
14 REM ** -144 TO -128 CHARACTERS PER LINE **
15 REM ** -127 TO -121 DATA STORAGE FOR ROUTINES
16 REM ** FOR RS - 232 , SET UP AT 110 BAUD, PARITY ENABLE. **
17 REM ** 8 BIT WORD AND EVEN PARITY **
18 REM ** THIS ROUTINE ORIGINALLY WRITTEN BY LEAH R. O'CONNOR **
19 REM ** 6315 W. RAVEN, CHICAGO, ILL 60646 (312) 792-3253 **
20 POKE 16421, 2: POKE 16422, 0: POKE 16423, 255
30 REM ** POKE RS-232-C I/O DRIVER INTO HIGH MEM (65255) **
40 FOR X=-256 TO -121
50 READ Y
60 POKE X, Y
70 NEXT X
75 END
80 DATA 229,197,245,58,129,255,254,1,40
90 DATA 26,62,1,58,129,255,211,232,219,233
100 DATA 238,248,246,4,58,138,255,211,234
110 DATA 219,233,238,7,62
120 DATA 34,211,233,241,193,225,219,232
130 DATA 203,119,32,258,219,234
135 DATA 203,119,40,244,121,211,235,254
140 DATA 13,32,4,14,10,24,233,254,10,32,46
144 DATA 58,133,255,60,61,40,8,61,58,133,255,14,10,24,214
145 DATA 58,132,255,60,50,132,255,14,58,185,32,12
146 DATA 62,0,58,132,255,62,8,58,133,255,24,209
150 DATA 62,0,58,131,255,24,16,58,131
160 DATA 255,60,58,131,255,14,80,185,32,4,14,13,24
170 DATA 167,201,0,0,0,1,0,34,0

```

```

1 REM ** THIS ROUTINE PRINTS 80 CHARACTERS TO A LINE **
2 REM ** AND ADDS A LINE FEED AFTER CARRIAGE RETURN **
3 REM ** IT IS DESIGNED FOR A TT 33, 35 OR 37 AT 110 BAUD **
4 REM ** AND RS-232 INTERFACE SET UP FOR 110 BAUD, **
5 REM ** PARITY ENABLE, 8 BIT WORD AND EVEN PARITY **
6 REM ** POKE -169, ? TO CHANGE CHARACTERS PER LINE **
10 REM ** POKE NEW DCB TYPE AND ADDRESS IN RAM ( 16421 ) **
11 REM ** THIS PROGRAM ORIGINALLY BY LEAH R. OCONNER **
12 REM ** FREE LANCE COMPUTER PROGRAMMER AND TECHNICAL WRITER **
13 REM ** 6315 W. RAVEN, CHICAGO, ILL. 60646 (312) 792-3253 **
20 POKE 16421, 2: POKE 16422, 0: POKE 16423, 255
30 REM ** POKE RS-232-C I/O DRIVER INTO HIGH MEM ( -256 ) **
40 FOR X=-256 TO -156
50 READ Y
60 POKE X, Y
70 NEXT X
75 END
80 DATA 229, 197, 245, 58, 96, 255, 254, 1, 40
90 DATA 32, 62, 1, 50, 96, 255, 211, 232, 219, 233
100 DATA 230, 248, 246, 4, 50, 97, 255, 211, 234
110 DATA 219, 233, 230, 7, 33, 100, 255, 6, 0, 79, 62
120 DATA 34, 211, 233, 241, 193, 225, 219, 232
130 DATA 203, 119, 32, 250, 219, 234
135 DATA 203, 119, 40, 244, 121, 211, 235, 254
140 DATA 13, 32, 4, 14, 10, 24, 233, 254, 10
150 DATA 32, 7, 62, 0, 50, 96, 255, 24, 16, 58, 98
160 DATA 255, 60, 50, 98, 255, 14, 80, 185, 32, 4, 14, 13, 24
170 DATA 206, 201, 0, 0, 0, 34, 0

```

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MICRO ARCHITECT  
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ARLINGTON, MA 02174

20 REM OREGON TRAIL FROM MAY-JUNE "CREATIVE COMPUTING" 1978

TYPED BY PRISCILLA STARKEY REV (1) POW SUB UP DATE

EDITED BY RUSSELL STARKEY

100 CLEAR100:CLS:SP\$="HOW MUCH DO YOU WANT TO SPEND ON ":RANDOM

160 PRINT"DO YOU NEED INSTRUCTIONS (YES/NO)":INPUTC\$

200 IF C\$="NO" OR C\$="N" THEN 700

230 REM \*\*\*INSTRUCTIONS\*\*\*

240 CLS:PRINT:PRINT:PRINT"THIS PROGRAM SIMULATES A TRIP OVER THE OREGON TRAIL FROM"

250 PRINT"INDEPENDENCE, MISSOURI TO OREGON CITY, OREGON IN 1847."

270 PRINT"IN 5-6 MONTHS --- IF YOU MAKE IT ALIVE."

280 PRINT

290 PRINT"YOU HAD SAVED \$900 TO SPEND FOR THE TRIP, AND YOU'VE JUST"

300 PRINT" PAID \$200 FOR A WAGON."

310 PRINT"YOU WILL NEED TO SPEND THE REST OF YOUR MONEY ON THE"

320 PRINT" FOLLOWING ITEMS:"

330 GOSUB9000

340 PRINT" OXEN - YOU CAN SPEND \$200-\$300 ON YOUR TEAM"

350 PRINT" THE MORE YOU SPEND, THE FASTER YOU'LL GO"

360 PRINT" BECAUSE YOU'LL HAVE BETTER ANIMALS"

380 PRINT" FOOD - THE MORE YOU HAVE, THE LESS CHANCE THERE"

390 PRINT" IS OF GETTING SICK"

410 PRINT" AMMUNITION - \$1 BUYS A BELT OF 50 BULLETS"

420 PRINT" YOU WILL NEED BULLETS FOR ATTACKS BY ANIMALS"

430 PRINT" AND BANDITS, AND FOR HUNTING FOOD"

450 PRINT" CLOTHING - THIS IS ESPECIALLY IMPORTANT FOR THE COLD"0

460 PRINT" WEATHER YOU WILL ENCOUNTER WHEN CROSSING"

470 PRINT" THE MOUNTAINS"

490 PRINT" MISCELLANEOUS SUPPLIES - THIS INCLUDES MEDICINE AND"

500 PRINT" OTHER THINGS YOU WILL NEED FOR SICKNESS"

510 PRINT" AND EMERGENCY REPAIRS"

520 GOSUB9000

530 PRINT

540 PRINT" YOU CAN SPEND ALL YOUR MONEY BEFORE YOU START YOUR TRIP --"

550 PRINT"OR YOU CAN SAVE SOME OF YOUR CASH TO SPEND AT FORTS ALONG"

560 PRINT"THE WAY WHEN YOU RUN LOW. HOWEVER, ITEMS COST MORE AT"

570 PRINT"THE FORTS. YOU CAN ALSO GO HUNTING ALONG THE WAY TO GET"

580 PRINT"MORE FOOD."

590 PRINT" WHENEVER YOU HAVE TO USE YOUR TRUSTY RIFLE ALONG THE WAY,"

600 PRINT"YOU WILL BE TOLD TO TYPE IN A WORD (ONE THAT SOUNDS LIKE A"

610 PRINT"GUN SHOT.) THE FASTER YOU TYPE IN THAT WORD AND HIT THE"

620 PRINT"ENTER KEY. THE BETTER LUCK YOU'LL HAVE WITH YOUR GUN."

640 PRINT"AT EACH TURN, ALL ITEMS ARE SHOWN IN DOLLAR AMOUNTS"

650 PRINT"EXCEPT BULLETS"

660 PRINT" WHEN ASKED TO ENTER MONEY AMOUNTS, DON'T USE A \$"

680 PRINT"GOOD LUCK!!!!"

690 GOSUB9000

700 PRINT

710 PRINT"HOW GOOD A SHOT ARE YOU WITH YOUR RIFLE?"

720 PRINT" (1) ACE MARKSMAN, (2) GOOD SHOT, (3) FAIR TO MIDDLIN"

730 PRINT" (4) NEED MORE PRACTICE, (5) SHAKY KNEES"

740 PRINT"ENTER ONE OF THE ABOVE -- THE BETTER YOU CLAIM YOU ARE, THE"

750 PRINT"FASTER YOU'LL HAVE TO BE WITH YOUR GUN TO BE SUCCESSFUL."

760 INPUT D9

770 IF D9>5 OR D9<1 THEN RUN

800 REM \*\*\*INITIAL PURCHASES\*\*\*

810 X1=-1

830 PRINT

840 PRINT

850 PRINT SP\$;"YOUR OXEN TEAM";

860 INPUT A

870 IF A >= 200 THEN 900

880 PRINT"NOT ENOUGH"

890 GOTO 850

900 IF A <= 300 THEN 930

IF ANYONE WANTS A TAPE WITH ALL THREE  
(POD GUESS WILL BE IN OCT 79 ISSUE)  
OF THE PROGRAMS ON IT - PLEASE SEND  
ME \$5 OR \$4.99 & I WILL SEND YOU A TAPE.

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910 PRINT"TOO MUCH"
920 GOTO 850
930 PRINTSP$;"FOOD";
940 INPUT F
950 IF F >= 0 THEN 980
960 PRINT"IMPOSSIBLE"
970 GOTO 930
980 PRINT SP$;"AMMUNITION";
990 INPUT B
1000 IF B >= 0 THEN 1030
1010 PRINT"IMPOSSIBLE"
1020 GOTO 980
1030 PRINT SP$;"CLOTHING";
1040 INPUT C
1050 IF C >= 0 THEN 1080
1060 PRINT"IMPOSSIBLE"
1070 GOTO 1030
1080 PRINT SP$;"MISCELLANEOUS SUPPLIES";
1090 INPUT M1
1100 IF M1 >= 0 THEN 1130
1110 PRINT"IMPOSSIBLE"
1120 GOTO 1080
1130 T=700-A-F-B-C-M1
1140 IF T >= 0 THEN 1170
1150 PRINT"YOU OVERSPENT--YOU ONLY HAD $700 TO SPEND. BUY AGAIN"
1160 GOTO 830
1170 B=50*B
1180 PRINT"AFTER ALL YOUR PURCHASES, YOU NOW HAVE ";T;" DOLLARS LEFT"
1190 PRINT
1200 PRINT"MONDAY MARCH 29 1847"
1210 PRINT
1220 GOTO 1750
1230 IF M >= 2040 THEN 5430
1240 REM ***SETTING DATE***
1250 D3=D3+1
1260 PRINT
1270 PRINT"MONDAY ";
1280 IF D3>10 THEN 1300
1290 ON D3 GOTO 1310,1330,1350,1370,1390,1410,1430,1450,1470,1490
1300 ON D3-10 GOTO 1510,1530,1550,1570,1590,1610,1630,1650,1670,1690
1310 PRINT"APRIL 12 ";
1320 GOTO 1720
1330 PRINT"APRIL 26 ";
1340 GOTO 1720
1350 PRINT"MAY 10 ";
1360 GOTO 1720
1370 PRINT"MAY 24 ";
1380 GOTO 1720
1390 PRINT"JUNE 7 ";
1400 GOTO 1720
1410 PRINT"JUNE 21 ";
1420 GOTO 1720
1430 PRINT"JULY 5 ";
1440 GOTO 1720
1450 PRINT"JULY 19 ";
1460 GOTO 1720
1470 PRINT"AUGUST 2 ";
1480 GOTO 1720
1490 PRINT"AUGUST 16 ";
1500 GOTO 1720
1510 PRINT"AUGUST 31 ";
1520 GOTO 1720

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1530 PRINT"SEPTEMBER 13 ";
1540 GOTO 1720
1550 PRINT"SEPTEMBER 27 ";
1560 GOTO 1720
1570 PRINT"OCTOBER 11 ";
1580 GOTO 1720
1590 PRINT"OCTOBER 25 ";
1600 GOTO 1720
1610 PRINT"NOVEMBER 8 ";
1620 GOTO 1720
1630 PRINT"NOVEMBER 22 ";
1640 GOTO 1720
1650 PRINT"DECEMBER 6 ";
1660 GOTO 1720
1670 PRINT"DECEMBER 20 ";
1680 GOTO 1720
1690 PRINT"YOU HAVE BEN ON THE TRAIL TOO LONG -----"
1700 PRINT"YOUR FAMILY DIES IN THE FIRST BLIZZARD OF WINTER"
1710 GOTO 5170
1720 PRINT"1847"
1730 PRINT
1740 REM ***BEGINNING EACH TURN***
1750 IF F >= 0 THEN 1770
1760 F=0
1770 IF B >= 0 THEN 1790
1780 B=0
1790 IF C >= 0 THEN 1810
1800 C=0
1810 IF M1 >= 0 THEN 1830
1820 M1=0
1830 IF F >= 0 THEN 1850
1840 PRINT"YOU'D BETTER DO SOME HUNTING OR BUY FOOD AND SOON!!!!"
1850 F=INT(F)
1860 B=INT(B)
1870 C=INT(C)
1880 M1=INT(M1)
1890 T=INT(T)
1900 M=INT(M)
1910 M2=M:IFM<2040 THEN 5420
1920 IF S4=1 THEN 1950
1930 IF K8=1 THEN 1950
1940 GOTO 1990
1950 T=T-20
1960 IF T<0 THEN 5080
1970 PRINT"DOCTOR'S BILL IS $20"
1980 K8=0:S4=0
1990 IF M9=1 THEN 2020
2000 PRINT"TOTAL MILEAGE IS ";M
2010 GOTO 2040
2020 PRINT"TOTAL MILEAGE IS 950"
2030 M9=0
2040 GOSUB9200
2060 IF X1=-1 THEN 2170
2070 X1=X1*(0)
2080 PRINT"DO YOU WANT TO (1) STOP AT THE NEXT FORT, (2) HUNT, ";
2090 PRINT"OR (3) CONTINUE"
2100 INPUT X
2110 IF X>2 THEN 2150
2120 IF X<1 THEN 2150
2130 X=INT(X)
2140 GOTO 2270
2150 X=3

```

```

2160 GOTO 2270
2170 PRINT"DO YOU WANT TO (1) HUNT, OR (2) CONTINUE"
2180 INPUT X
2190 IF X=1 THEN 2210
2200 X=2
2210 X=X+1
2220 IF X=3 THEN 2260
2230 IF B>39 THEN 2260
2240 PRINT"TOUGH---YOU NEED MORE BULLETS TO GO HUNTING"
2250 GOTO 2170
2260 X1=X1*(0)
2270 ON X GOTO 2290,2540,2720
2280 REM ***STOPPING AT FORT***
2290 PRINT"ENTER WHAT YOU WISH TO SPEND ON THE FOLLOWING"
2300 PRINT"FOOD";
2310 GOSUB 2330
2320 GOTO 2410
2330 INPUT P
2340 IF P<0 THEN 2400
2350 T=T-P
2360 IF T >= 0 THEN 2400
2370 PRINT"YOU DON'T HAVE THAT MUCH---KEEP YOUR SPENDING DOWN"
2375 PRINT"YOU MISS YOUR CHANCE TO SPEND ON THAT ITEM"
2380 T=T+P
2390 P=0
2400 RETURN
2410 F=F+2/3*P
2420 PRINT"AMMUNITION";
2430 GOSUB 2330
2440 B=INT(B+2/3*P+50)
2450 PRINT"CLOTHING";
2460 GOSUB 2330
2470 C=C+2/3*P
2480 PRINT"MISCELLANEOUS SUPPLIES";
2490 GOSUB 2330
2500 M1=M1+2/3*P
2510 M=M-45
2520 GOTO 2720
2530 REM ***HUNTING***
2540 IF B>39 THEN 2570
2550 PRINT"TOUGH---YOU NEED MORE BULLETS TO GO HUNTING"
2560 GOTO 2080
2570 M=M-45
2580 GOSUB 6140
2590 IF B1 (<= 1 THEN 2660
2600 IF 100*RND(0)<13*B1 THEN 2710
2610 F=F+48-2*B1
2620 PRINT"NICE SHOT--RIGHT ON TARGET--GOOD EATIN' TONIGHT!!"
2630 B=B-10-3*B1
2640 GOTO2720
2650 REM **BELLS IN LINE 2660**
2660 PRINT"RIGHT BETWEEN THE EYES---YOU GOT A BIG ONE!!!!"
2670 PRINT"FULL BELLIES TONIGHT!"
2680 F=F+52+RND(0)*6
2690 B=B-10-RND(0)*4
2700 GOTO 2720
2710 PRINT"YOU MISSED---AND YOUR DINNER GOT AWAY....."
2720 IF F >= 13 THEN 2750
2730 GOTO 5060
2740 REM ***EATING***
2750 PRINT"DO YOU WANT TO EAT (1) POORLY (2) MODERATELY"
2760 PRINT"OR (3) WELL";
2770 INPUT E

```

```

2780 IF E>3 THEN 2750
2790 IF E<1 THEN 2750
2800 E=INT(E)
2810 F=F-8-5*E
2820 IF F >= 0 THEN 2860
2830 F=F+8+5*E
2840 PRINT"YOU CAN'T EAT THAT WELL"
2850 GOTO 2750
2860 M=M+200+(A-220)/5+10*RND(0)
2870 L1=C1=0
2880 REM ***RIDERS ATTACK***
2890 IF RND(10)>5 THEN 3550
2900 PRINT"RIDERS AHEAD. THEY ";
2910 S5=0
2920 IF RND(0)<.8 THEN 2950
2930 PRINT"DON'T ";
2940 S5=1
2950 PRINT"LOOK HOSTILE"
2960 PRINT"TACTICS"
2970 PRINT"(1) RUN (2) ATTACK (3) CONTINUE (4) CIRCLE WAGONS"
2980 IF RND(0)>.2 THEN 3000
2990 S5=1-S5
3000 INPUT T1
3010 IF T1<1 THEN 2970
3020 IF T1>4 THEN 2970
3030 T1=INT(T1)
3040 IF S5=1 THEN 3330
3050 IF T1>1 THEN 3110
3060 M=M+20
3070 M1=M1-15
3080 B=B-150
3090 A=A-40
3100 GOTO 3470
3110 IF T1>2 THEN 3240
3120 GOSUB 6140
3130 B=B-81*40-80
3140 IF B1>1 THEN 3170
3150 PRINT"NICE SHOOTING---YOU DROVE THEM OFF"
3160 GOTO3470
3170 IF B1 <= 4 THEN 3220
3180 PRINT"LOUSY SHOT---YOU GOT KNIFED"
3190 K0=1
3200 PRINT"YOU HAVE TO SEE OL' DOC BLANCHARD"
3210 GOTO 3470
3220 PRINT"KINDA SLOW WITH YOUR COLT . 45"
3230 GOTO 3470
3240 IF T1>3 THEN 3290
3250 IF RND(0)>.8 THEN 3450
3260 B=B-150
3270 M1=M1-15
3280 GOTO 3470
3290 GOSUB 6140
3300 B=B-81*30-80
3310 M=M-25
3320 GOTO 3140
3330 IF T1>1 THEN 3370
3340 M=M+15
3350 A=A-10
3360 GOTO 3470
3370 IF T1>2 THEN 3410
3380 M=M-5
3390 B=B-100
3400 GOTO 3470

```

```

3410 IF T1>3 THEN 3430
3420 GOTO 3470
3430 M=M-20
3440 GOTO 3470
3450 PRINT"THEY DID NOT ATTACK"
3460 GOTO 3550
3470 IF S5=0 THEN 3500
3480 PRINT"RIDERS WERE FRIENDLY, BUT CHECK FOR POSSIBLE LOSSES"
3490 GOTO 3550
3500 PRINT"RIDERS WERE HOSTILE--CHECK FOR LOSSES"
3510 IF B >= 0 THEN 3550
3520 PRINT"YOU RAN OUT OF BULLETS AND GOT MASSACRED BY THE RIDERS"
3530 GOTO 5170
3540 RE, ***SELECTION OF EVENTS***
3550 D1=0
3560 RESTORE
3570 R1=100*RND(0)
3580 D1=D1+1
3590 IF D1=16 THEN 4670
3600 READ D
3610 IF R1>D THEN 3580
3620 DATA 6, 11, 13, 15, 17, 22, 32, 35, 37, 42, 44, 54, 64, 69, 95
3630 IF D1>10 THEN 3650
3640 ON D1 GOTO 3660, 3700, 3740, 3790, 3820, 3850, 3880, 3960, 4130, 4190
3650 ON D1-10 GOTO 4220, 4290, 4340, 4560, 4610, 4670
3660 PRINT"WAGON BREAKS DOWN--LOSE TIME AND SUPPLIES FIXING IT"
3670 M=M-15-5*RND(0)
3680 M1=M1-8
3690 GOTO 4710
3700 PRINT"OX INJURES LEG---SLOWS YOU DOWN REST OF TRIP"
3710 M=M-25
3720 A=A-20
3730 GOTO 4710
3740 PRINT"BAD LUCK---YOUR DAUGHTER BROKE HER ARM"
3750 PRINT"YOU HAD TO STOP AND USE SUPPLIES TO MAKE A SLING"
3760 M=M-5-4*RND(0)
3770 M1=M1-2-3*RND(0)
3780 GOTO 4710
3790 PRINT"OX WANDERS OFFJ---SPEND TIME LOOKING FOR IT"
3800 M=M-17
3810 GOTO 4710
3820 PRINT"YOUR SON GETS LOST---SPEND HALF THE DAY LOOKING FOR HIM"
3830 M=M-10
3840 GOTO 4710
3850 PRINT"UNSAFE WATER--LOSE TIME LOOKING FOR CLEAN SPRING"
3860 M=M-10*RND(0)-2
3870 GOTO 4710
3880 IF M>950 THEN 4490
3890 PRINT"HEAVY RAINS---TIME AND SUPPLIES LOST"
3910 F=F-10
3920 B=B-500
3930 M1=M1-15
3940 M=M-10*RND(0)-5
3950 GOTO 4710
3960 PRINT"BANDITS ATTACK"
3970 GOSUB 6140
3980 B=B-20*B1
3990 IF B >= 0 THEN 4030
4000 PRINT"YOU RAN OUT OF BULLETS---THEY GET LOTS OF CASH"
4010 T=T/3
4020 GOTO 4040
4030 IF B1 <= 1 THEN 4100
4040 PRINT"YOU GOT SHOT IN THE LEG AND THEY TOOK ONE OF YOU OXEN"

```

```

4050 K8=1
4060 PRINT"BETTER HAVE A DOC LOOK AT YOUR WOUND"
4070 M1=M1-5
4080 A=A-20
4090 GOTO 4710
4100 PRINT"QUICKEST DRAW OUTSIDE OF DODGE CITY!!!"
4110 PRINT"YOU GOT 'EM!"
4120 GOTO 4710
4130 PRINT"THERE WAS A FIRE IN YOU WAGON--FOOD AND SUPPLIES DAMAGE!"
4140 F=F-40
4150 B=B-400
4160 M1=M1-RND(0)*8-3
4170 M=M-15
4180 GOTO 4710
4190 PRINT"LOSE YOUR WAY IN HEAVY FOG---TIME IS LOST"
4200 M=M-10-5*RND(0)
4210 GOTO 4710
4220 PRINT"YOU KILLED A POISONOUS SNAKE AFTER IT BIT YOU"
4230 B=B-10
4240 M1=M1-5
4250 IF M1 >= 0 THEN 4280
4260 PRINT"YOU DIE OF SNAKEBITE SINCE YOU HAVE NO MEDICINE"
4270 GOTO 5170
4280 GOTO 4710
4290 PRINT"WAGON GETS SWAMPED FORDING RIVER--LOSE FOOD AND CLOTHES"
4300 F=F-30
4310 C=C-20
4320 M=M-20-20*RND(0)
4330 GOTO 4710
4340 PRINT"WILD ANIMALS ATTACK!"
4350 GOSUB 6140
4360 IF B>39 THEN 4410
4370 PRINT"YOU WERE TOO LOW ON BULLETS--"
4380 PRINT"THE WOLVES OVERPOWERED YOU"
4390 K8=1
4400 GOTO 5120
4410 IF B1>2 THEN 4400
4420 PRINT"NICE SHOOTIN' PARDNER---THEY DIDN'T GET MUCH"
4430 GOTO 4450
4440 PRINT"SLOW ON THE DRAW---THEY GOT YOUR FOOD AND CLOTHES"
4450 B=B-20*B1
4460 C=C-B1*4
4470 F=F-B1*8
4480 GOTO 4710
4490 PRINT"COLD WEATHER---BRRRRRRR!---YOU ";
4500 IF C>22+4*RND(0) THEN 4530
4510 PRINT"DON'T ";
4520 C1=1
4530 PRINT"HAVE ENOUGH CLOTHING TO KEEP YOU WARM"
4540 IF C1=0 THEN 4710
4550 GOTO 6300
4560 PRINT"HAIL STORM---SUPPLIES DAMAGED"
4570 M=M-5-RND(0)*10
4580 B=B-200
4590 M1=M1-4-RND(0)*3
4600 GOTO 4710
4610 IF E=1 THEN 6200
4620 IF E=3 THEN 4650
4630 IF RND(0)>.25 THEN 6300
4640 GOTO 4710
4650 IF RND(0)<.5 THEN 6300
4660 GOTO 4710

```



```

4670 PRINT"HELPFUL INDIANS SHOW YOU WHERE TO FIND MORE FOOD"
4680 F=F+14
4690 GOTO 4710
4700 REM ***MOUNTAINS***
4710 IF M <= 950 THEN 1230
4720 IF RND(0)>.5 THEN 4860
4730 PRINT"RUGGED MOUNTAINS"
4740 IF RND(0)>.1 THEN 4780
4750 PRINT"YOU GOT LOST---LOSE VALUABLE TIME TRYING TO FIND TRAIL!"
4760 M=M-60
4770 GOTO 4860
4780 IF RND(0)>.11 THEN 4840
4790 PRINT"WAGON DAMAGED!---LOSE TIME AND SUPPLIES"
4800 M1=M1-5
4810 B=B-200
4820 M=M-20-RND(30)
4830 GOTO 4860
4840 PRINT"THE GOING GETS SLOW"
4850 M=M-45-RND(50)
4860 IF F1=1 THEN 4900
4870 F1=1
4880 IF RND(0)<.8 THEN 4970
4890 PRINT"YOU MADE IT SAFELY THROUGH SOUTH PASS---NO SNOW"
4900 IF M<1700 THEN 4940
4910 IF F2=1 THEN 4940
4920 F2=1
4930 IF RND(0)<.7 THEN 4970
4940 IF M>950 THEN 1230
4950 M3=1
4960 GOTO 1230
4970 PRINT"BLIZZARD IN MOUNTAIN PASS---TIME AND SUPPLIES LOST"
4980 L1=1
4990 F=F-25
5000 M1=M1-10
5010 B=B-300
5020 M=M-30-RND(40)
5030 IF C<10+2*RND(0) THEN 6300
5040 GOTO 4940
5050 REM ***DYING***
5060 PRINT"YOU RAN OUT OF FOOD AND STARVED TO DEATH"
5070 GOTO 5170
5080 T=0
5090 PRINT"YOU CAN'T AFFORD A DOCTOR"
5100 GOTO 5120
5110 PRINT"YOU RAN OUT OF MEDICAL SUPPLIES"
5120 PRINT"YOU DIED OF ";
5130 IF K8=1 THEN 5160
5140 PRINT"PNEUMONIA"
5150 GOTO 5170
5160 PRINT"INJURIES"
5170 PRINT
5180 FOR Q=1 TO 2000:NEXT:PRINT"DUE TO YOUR UNFORTUNATE SITUATION, THERE ARE A FEW"
5190 PRINT"FORMALITIES WE MUST GO THROUGH"
5200 PRINT
5210 PRINT"WOULD YOU LIKE A MINISTER?"
5220 INPUT C$
5230 PRINT"WOULD YOU LIKE A FANCY FUNERAL?"
5240 INPUT C$
5250 PRINT"WOULD YOU LIKE US TO INFORM YOUR NEXT OF KIN?"
5260 INPUT C$
5270 IF C$="YES" THEN 5310
5280 PRINT"BUT YOUR AUNT SADLE IN ST. LOUIS IS REALLY WORRIED ABOUT YOU"
5290 PRINT
5300 GOTO 5330

```

```

5310 PRINT"THAT WILL BE $4.50 FOR THE TELEGRAPH CHARGE."
5320 PRINT
5330 PRINT"WE THANK YOU FOR THIS INFORMATION AND WE ARE SORRY YOU"
5340 PRINT"DIDN'T MAKE IT TO THE GREAT TERRITORY OF OREGON"
5350 PRINT"BETTER LUCK NEXT TIME"
5360 PRINT
5370 PRINT
5380 PRINT TAB(30); "SINCERELY"
5390 PRINT
5400 PRINT TAB(17); "THE OREGON CITY CHAMBER OF COMMERCE"
5410 END
5420 REM ***FINAL TURN***
5430 F9=(2040-M2)/(M-M2)
5440 F=F+(1-F9)*(8+5*E)
5450 PRINT:FOR YY=1 TO 1500:NEXT
5460 REM **BELLS IN LINES 5470, 5480**
5470 PRINT"YOU FINALLY ARRIVED AT OREGON CITY"
5480 PRINT"AFTER 2040 LONG MILES---HOORAY!!!!!"
5490 PRINT"A REAL PIONEER!"
5500 PRINT
5510 F9=INT(F9*14)
5520 D3=D3*14+F9
5530 F9=F9+1
5540 IF F9<8 THEN 5560
5550 F9=F9-7
5560 ON F9 GOTO 5570, 5590, 5610, 5630, 5650, 5670, 5690
5570 PRINT"MONDAY ";
5580 GOTO 5700
5590 PRINT"TUESDAY ";
5600 GOTO 5700
5610 PRINT"WEDNESDAY ";
5620 GOTO 5700
5630 PRINT"THURSDAY ";
5640 GOTO 5700
5650 PRINT"FRIDAY ";
5660 GOTO 5700
5670 PRINT"SATURDAY 2+
5680 GOTO 5700
5690 PRINT"SUNDAY ";
5700 IF D3> 124 THEN 5740
5710 D3=D3-93
5720 PRINT"JULY "; D3; " 1847"
5730 GOTO 5780
5740 IF D3>155 THEN 5780
5750 D3=D3-124
5760 PRINT"AUGUST "; D3; " 1847"
5770 GOTO 5920
5780 IF D3>185 THEN 5820
5790 D3=D3-155
5800 PRINT"SEPTEMBER "; D3; " 1847"
5810 GOTO 5920
5820 IF D3>216 THEN 5860
5830 D3=D3-185
5840 PRINT"OCTOBER "; D3; " 1847"
5850 GOTO 5920
5860 IF D3>246 THEN 5900
5870 D3=D3-216
5880 PRINT"NOVEMBER "; D3; " 1847"
5890 GOTO 5920
5900 D3=D3-246
5910 PRINT"DECEMBER "; D3; " 1847"
5920 PRINT

```

```

5930 PRINT"FOOD BULLETS CLOTHING MISC. SUPP. CASH"
5940 IF B>0 THEN 5960
5950 B=0
5960 IF C>0 THEN 5980
5970 C=0
5980 IF ML>0 THEN 6000
5990 ML=0
6000 IF T>0 THEN 6020
6010 T=0
6020 IF F>0 THEN 6040
6030 F=0
6040 PRINT INT(F); " "; INT(B); " "; INT(C); " "; INT(ML); " "; INT(T);
6050 PRINT
6060 PRINT TAB(11); "PRESIDENT JAMES K. POLK SENDS YOU HIS"
6070 PRINT TAB(17); "HEARTIEST CONGRATULATIONS"
6080 PRINT
6090 PRINT TAB(11); "AND WISHES YOU A PROSPEROUS LIFE AHEAD"
6100 PRINT
6110 PRINT TAB(22); "AT YOUR NEW HOME"
6120 STOP
6130 REM ***SHOOTING SUB-ROUTINE***
6131 REM FOR TRS-80 LEVEL 2
6140 REM
6150 S$(1)="BRANG"
6160 S$(2)="BLAM"
6170 S$(3)="POW"
6180 S$(4)="WHAM"
6190 S6=RND(4)
6200 PRINT"TYPE "; S$(S6)
6205 CP=1:N=0
6210 R$=INKEY$:N=N+1:IF R$="" THEN 6210
6215 IF N=0 THEN 6240
6220 IF R$=MID$(S$(S6),CP,1) THEN 6240
6225 IF CP=LEN(S$(S6)) THEN B1=INT(N/(6+(D9*3))):PRINT$:RETURN
6230 CP=CP+1:PRINT$:GOTO 6210
6240 B1=9:PRINT:RETURN
6290 REM ***ILLNESS SUB-ROUTINE***
6300 IF 100*RND(0)<10+35*(E-1) THEN 6370
6310 IF RND(100) < 20 THEN 6410
6320 PRINT"SERIOUS ILLNESS---"
6330 PRINT"YOU MUST STOP FOR MEDICAL ATTENTION"
6340 M1=M1-10
6350 S4=1
6360 GOTO 6440
6370 PRINT"MILD ILLNESS---MEDICINE USED"
6380 M=M-5
6390 M1=M1-2
6400 GOTO 6440
6410 PRINT"BAD ILLNESS---MEDICINE USED"
6420 M=M-5
6430 M1=M1-5
6440 IF M1<0 THEN 5110
6450 IF L1=1 THEN 4940
6460 GOTO 4710
6470 REM ***IDENTIFICATION OF VARIABLES IN THE PROGRAM***
6480 REM A
6490 REM REM NOT DONE THRU 6790
6800 END
9000 PRINT:PRINT"PRESS ENTER TO CONTINUE. "; INPUT FF:CLS:RETURN
9200 REM
9210 PRINT"FOOD BULLETS CLOTHING MISC. SUPP. CASH"
9235 IF N=2040 THEN 5420
9240 PRINTF; " "; B; " "; C; " "; ML; " "; T:RETURN

```

```

TARGET REFERENCED IN LINE #
A 860 870 900 1130 2860 3090 3090 3350 3350 3720 3720
4080 4080
B 990 1000 1130 1170 1170 1770 1780 1860 1860 2230
2440 2440 2540 2630 2630 2690 2690 3080 3080 3130
3130 3260 3260 3300 3300 3390 3390 3510 3920 3920
3980 3980 3990 4150 4150 4230 4230 4360 4450 4450
4580 4580 4810 4810 5010 5010 5940 5950 6040 9240
B1 2590 2600 2610 2630 3130 3140 3170 3300 3980 4030
4410 4450 4460 4470 6225 6240
C 1040 1050 1130 1790 1800 1870 1870 2470 2470 4310
4310 4460 4460 4500 5030 5960 5970 6040 9240
C$ 160 200 200 5220 5240 5260 5270
C1 2870 4520 4540
CP 6205 6220 6225 6230 6230
D 3600 3610 5740
D1 3550 3580 3580 3590 3630 3640 3650
D3 1250 1250 1280 1290 1300 5520 5520 5700 5710 5710
5720 5750 5750 5760 5780 5790 5790 5800 5820 5830
5830 5840 5860 5870 5870 5880 5900 5900 5910
D9 760 770 770 6225
E 2770 2780 2790 2800 2800 2810 2830 4610 4620 5440
6300
EVENTS
F 3540
940 950 1130 1750 1760 1830 1850 1850 2410 2410
2610 2610 2680 2680 2720 2810 2810 2820 2830 2830
3910 3910 4140 4140 4300 4300 4470 4470 4680 4680
4990 4990 5440 5440 6020 6030 6040 9240
F1 4860 4870
F2 4910 4920
F9 5430 5440 5510 5510 5520 5530 5530 5540 5550 5550
5560
FF 9000
K8 1930 1980 3190 4050 4390 5130
L1 2870 4980 6450
M 1230 1900 1900 1910 1910 2000 2510 2510 2570 2570
2860 2860 3060 3060 3310 3310 3340 3340 3380 3380
3430 3430 3670 3670 3710 3710 3760 3760 3800 3800
3830 3830 3860 3860 3880 3940 3940 4170 4170 4200
4200 4320 4320 4570 4570 4710 4760 4760 4820 4820
4850 4850 4900 4940 5020 5020 5430 6380 6380 6420
6420 9235
M1 1090 1100 1130 1810 1820 1880 1880 2500 2500 3070
3070 3270 3270 3680 3680 3770 3770 3930 3930 4070
4070 4160 4160 4240 4240 4250 4590 4590 4800 4800
5000 5000 5980 5990 6040 6340 6340 6390 6390 6430
6430 6440 9240
M2 1910 5430 5430
M9 1990 2030 4950
N 6205 6210 6210 6215 6225
OF 3540
P 2330 2340 2350 2380 2390 2410 2440 2470 2500
Q 5180
R$ 6210 6210 6220 6225 6230
R1 3570 3610
RE 3540
S$ 6150 6160 6170 6180 6200 6220 6225
S4 1920 1980 6350
S5 2910 2940 2990 2990 3040 3470
S6 6190 6200 6220 6225
SELECTI 3540
SP$ 100 850 930 980 1030 1080

```





```

100 REM * TRS-80 ANIMATION - BY RON MOEHLIS. MODIFIED BY
WALTER GOULD FOR SIX (6) TURTLES *
110 DIM X(86),Y(86):RANDOM
120 FORI=1T014:READX(I),Y(I):NEXTI
130 CLS:FORI=1T0120:SET(I,6):NEXTI
140 FORI=1T0120:SET(I,45):NEXTI
150 FORI=6T045:SET(121,I):NEXTI
160 PRINT@40,"TURTLE RACE":
170 FORI=1T014:SET(X(I),Y(I)):NEXTI
180 FORJ=1T05:FORI=1T014
190 K=I+14*J:X(K)=X(I):Y(K)=Y(I)+J*6
200 SET(X(K),Y(K)):NEXTI,J
210 FORI=1T01000:NEXTI
220 R=RND(6):R=R-1:T=14+R
230 K=1+T:SET(X(K),Y(K)):SET(X(K+3),Y(K+3))
240 FORI=KT04+T:RESET(X(I),Y(I)):NEXTI
250 FORI=KT04+T:X(I)=X(I)+1:SET(X(I),Y(I)):NEXTI
260 FORI=5+TT08+T:X(I)=X(I)+1:SET(X(I),Y(I)):NEXTI
270 RESET(X(9+T),Y(9+T)):RESET(X(12+T),Y(12+T))
280 FORI=9+TT014+T:X(I)=X(I)+1:SET(X(I),Y(I)):NEXTI
290 IFX(14+T)=120THEN310
300 GOTO220
310 PRINT@0,"WINNER WAS #":R+1
320 RESTORE:FORI=1T03000:NEXTI:GOTO120
330 DATA1,9,1,10,1,11,1,12,2,10,2,11,3,10
340 DATA3,11,4,9,4,10,4,11,4,12,5,10,5,11
9999 GOTO9999

```

```

30000 'ONE OF THE MINOR ANNOYANCES IN TRSDOS 2.1 IS NOT BEING
30010 'ABLE TO READ THE DIRECTORY FROM BASIC. THIS ROUTINE
30020 'WILL READ THE DIRECTORY AND PRINT IT:
30030 FORI=(#HB000)TO(#HB01F):READK:POKEI,K:NEXT:'MACHINE LANGUAGE
30040 'SUBROUTINE (AT B000) READS DIRECTORY INTO BUFFER (B100 TO B8FF)
30050 DATA6,0,17,0,177,205,193,74,194,154,10,46,0,197,1,0,1,237
30060 DATA176,193,4,120,254,8,32,235,33,0,0,195,154,10
30070 DEFUSR=#HB000:IFUSR(0)0THENPRINT"DIRECTORY READ ERROR":STOP
30080 FORI=(#HB100)TO(#HB80E)STEP 32
30085 'USER-CREATED FILES HAVE 16 AS FIRST DIRECTORY BYTE
30090 IFPEEK(I)016THEN30130
30095 'TO LIST S,I,P FILES, CHANGE 30090 TO "IF PEEK(I)=0THEN30130"
30098 'PRINT FILENAME:
30100 FORJ=5T012:P=PEEK(I+J):IFP032THENPRINTCHR*(P):NEXTJ
30105 'AND EXTENSION, IF ANY:
30110 IFPEEK(I+13)032THENPRINT"/":FORJ=13T015:PRINTCHR*(PEEK(I+J)):NEXTJ
30120 PRINT,
30130 NEXTI:END
30140 'THIS ROUTINE CAN BE SAVED IN ASCII FORMAT AND MERGED
30150 'WITH OTHER PROGRAMS. RESERVE MEMORY SIZE 45056 (= #HB000)
30160 'TO LEAVE ROOM FOR THE INPUT BUFFER.
30165 'THE MACHINE LANGUAGE SUBROUTINE IS RELOCATABLE:
30170 'IN 48K, YOU CAN MOVE THE PROGRAM UP TO F000 AND THE
30180 'BUFFER TO F100 BY EDITING LINES 30030, 30070, AND 30080.
30190 'AND BY CHANGING THE 5TH DATA ITEM FROM 177 TO 241
30200 ' PHELPS GATES
30210 ' 6 CRESTWOOD TR. PK. - RT. 4
30220 ' CHAPEL HILL, NC 27514
30230 ' 919-967-5193

```

Dear Mr. Lloyd,

I've been reading the newsletter since Jan.79 & I think you're doing a superb job. Keep up the good work!!! Enclosed is a level II cassette, on which are recorded, 4 programs I think would interest the readers. All of the programs have been renumbered using "Theirs Gate's renumbering program (Vol.2 Num.2 Pg.20) which is an excellent program. Here are descriptions of the programs & instructions for running them:

#### 1.Calendar:

Prints a calendar for any given year on the line-printer. Those of you who don't have a line-printer (like myself), just change every "LPRINT" to "PRINT" and every "TAB(40)" to "TAB(30)".

#### 2.Date:

Takes any two dates and calculates both the number of days between them and the day of week on which they come out.

#### 3.Hangman:

This game can be played on two levels (same vocabulary just a different number of guesses). At present it has a 21 word vocabulary, but you can add your own words on "DATA" lines at the end of the program & by changing the random number range in line 1060 to the new number of words.

#### 4.Text Editor:

This program enables writing and editing text on the screen & having it printed up on the line-printer. At any point, text will be entered at the cursor (CHR\*(19)). To move the cursor just press one of the four arrows in the direction you wish to move. To skip to the beginning of the next line, press the "ENTER" key. To copy the screen as is, press the "CLEAR" key.

Sincerely yours,

*Zvi D.*  
Zvi Dershowitz  
18 Harav Berlin St.  
Jerusalem, Israel

MAY 1979

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JUNE 1979

SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

DECEMBER 1979

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

```

1 ' ----- CALENDER PROGRAM : WRITTEN BY ZVI DERSHOWITZ -----
2 '
3 '
1000 CLEAR 1000
1010 DIM LK(12), D$(7), M$(12)
1020 INPUT "WHAT YEAR?": Y1
1030 FOR T=1 TO 12
1040 M=T : D=1 : Y=Y1
1050 GOSUB 1430
1060 IF T=1 THEN S1=0
1070 IF T=7 THEN S2=0
1080 LK(T)=C
1090 NEXT T
1100 M=1 : D=1 : Y=Y1+1 : GOSUB 1430
1110 FOR T=1 TO 11
1120 LK(T)=LK(T+1)-LK(T)
1130 NEXT T
1140 LK(12)=C-LK(12)
1150 FOR T=1 TO 12 : READ M$(T) : M$(T)=M$(T)+STR$(Y1) : NEXT T
1160 FOR T=1 TO 7 : READ D$(T) : NEXT T
1170 FOR T=1 TO 6
1175 LPRINT CHR$(130)
1180 A=(26-LEN(M$(T)))/2 : B=(26-LEN(M$(T+6)))/2
1190 LPRINT STRING$(A, 32); M$(T); STRING$(A, 32); TAB(40); STRING$(B, 32); M$(T+6); STRING$(B, 32)
1200 LPRINT STRING$(27, 45); TAB(40); STRING$(27, 45)
1210 FORTT=1T07: LPRINT$(TT); " "; NEXTTT: LPRINTTAB(40); : FORTT=1T07: LPRINT$(TT); " "; NEXTTT: LPRINT
1220 LPRINT STRING$(27, 45); TAB(40); STRING$(27, 45)
1230 LPRINT STRING$(S1+4, 32);
1240 C1=C1+1 : S1=S1+1
1250 IF C1=LK(T) THEN M1=9999 : S1=S1-1 : GOTO 1290
1260 IF C1<10 THEN LPRINT " ";
1270 LPRINT STR$(C1); " ";
1280 IF NOT S1/7=INT(S1/7) THEN 1240
1290 LPRINT TAB(40);
1300 IF NOT C9=9999 THEN GOSUB 1520
1310 C2=C2+1 : S2=S2+1
1320 IF C2=LK(T+6) THEN M2=9999 : S2=S2-1 : GOTO 1370
1330 IF C2<10 THEN LPRINT " ";
1340 LPRINT STR$(C2); " ";
1350 IF NOT S2/7=INT(S2/7) THEN 1310
1360 LPRINT.
1370 IF (M1 AND M2)=0 THEN 1240
1380 IF (M1 AND M2)=9999 THEN 1410
1390 IF M1=9999 THEN 1290
1400 GOTO 1240
1410 LPRINT : LPRINT : M1=0 : M2=0 : C1=0 : C2=0 : C9=0 : S1=S1-INT(S1/7)*7 : S2=S2-INT(S2/7)*7 : NEXT T
1420 END
1430 ' DATE SUBROUTINE
1440 IF M=1 OR M=2 THEN Y=Y-1 : M=M+13 : GOTO 1460
1450 M=M+1
1460 C=INT(365.25*Y)+INT(30.6001*M)+D
1470 C=INT(C+5)
1480 D=7*((C+5)/7-INT((C+5)/7))
1490 D=INT(D+.5)
1500 RETURN
1520 LPRINT TAB(40); STRING$(S2+4, 32); : C9=9999 : RETURN
1530 DATA JANUARY, FEBRUARY, MARCH, APRIL, MAY, JUNE, JULY, AUGUST, SEPTEMBER, OCTOBER, NOVEMBER, DECEMBER
1540 DATA SUN, MON, TUE, WED, THU, FRI, SAT

```

```

A 1180 1190/2
B 1180 1190/2
C 1080 1140 1460 1470/2 1480/2
C1 1240/2 1250 1260 1270 1410
C2 1310/2 1320 1330 1340 1410
C9 1300 1410 1520
D 1010($ 1040 1060 1070 1100 1160($ 1210($2 1460 1480
1490/2
LM 1010( 1080( 1120(3 1140(2 1250( 1320(
M 1010($ 1040 1100 1150($3 1180($2 1190($2 1440/4 1450/2
1460
M1 1250 1370 1380 1390 1410
M2 1320 1370 1380 1410
S1 1060 1230 1240/2 1250/2 1280/2 1410/3
S2 1070 1310/2 1320/2 1350/2 1410/3 1520
T 1030 1040 1060 1070 1080 1090 1110 1120/3 1130 1150/5
1160/3 1170 1180/2 1190/2 1250 1320 1410
TT 1210/6
Y 1040 1100 1440/2 1460
Y1 1020 1040 1100 1150

```

```

1 '----- DATE PROGRAM : WRITTEN BY ZVI DERSHOWITZ -----
2 '
3 '
1000 FOR T=1 TO 7 : READ D$(T) : NEXT T
1010 FOR X=1 TO 2
1020 INPUT "MONTH, DAY, YEAR": M(X), D(X), Y(X)
1030 FOR F=1 TO 2 : D1(X)=D(X) : M1(X)=M(X) : Y1(X)=Y(X) : NEXT
1040 IF M(X)=10RM(X)=2THENY(X)=Y(X)-1:M(X)=M(X)+13:GOTO1060
1050 M(X)=M(X)+1
1060 V(X)=INT(365.25*Y(X))+INT(30.6001*M(X))+D(X)
1070 NEXT X
1080 S=ABS(V(1)-V(2))
1090 FOR X=1 TO 2
1100 C(X)=7*((V(X)+5)/7-INT((V(X)+5)/7))+1
1110 NEXT X
1120 C(1)=INT(C(1)+.2)
1130 C(2)=INT(C(2)+.2)
1140 F$=" ## / ## / ####"
1150 PRINT
1160 FOR T=1 TO 2
1170 PRINT USING F$; M1(T); D1(T); Y1(T);
1180 PRINT " COMES OUT ON A "; D$(C(T))
1190 NEXT
1200 PRINT " AND THERE ARE"; S; "DAYS BETWEEN THEM."
1210 DATASUNDAY, MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY, SATURDAY
1220 PRINT : GOTO 1010

```

```

C 1100( 1120(2 1130(2 1180(
D 1000($ 1020( 1030( 1060( 1180($
D1 1030( 1170(
F 1030 1140/$ 1170/$
M 1020( 1030( 1040(4 1050(2 1060(
M1 1030( 1170(
S 1080 1200
T 1000/3 1160 1170/3 1180
V 1060( 1080(2 1100(2
X 1010 1020/3 1030/6 1040/6 1050/2 1060/4 1070 1090
1100/3 1110
Y 1020( 1030( 1040(2 1060(
Y1 1030( 1170(

```