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AUCKLAND COLOUR GENIE USERS GROUP

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P. O. Box 27-387,
AUCKLAND, 4.

ISSUE NO: 9

OCTOBER, 1984

Hi,

Last month (17th September) a crowd of 68 came along to the meeting. We now have 118 'financial' members, with many having two or more family members which come along to our meetings. Hopefully, everyone knows now, that our meetings are on every fourth Monday, not the fourth Monday of the month. However, please mark your calendars with the meeting dates from now to Christmas:-

15 October 1984 - tonight
12 November 1984
10 December 1984

By the way, Rakon have a couple of EACA recorders left at \$119.50 each.

Re tape copying - we have had a few problems sorting this out, but hopefully we now have it licked!! It hasn't actually been too bad, there haven't been many tapes returned. Probably about 15 out of hundreds. One chap who said at the meeting how a tape he had got from us wouldnt load, turned out to be talking about a Rakon tape.

All tapes that are returned to me for recopying have to be posted on to Ken, who recopies them, then posts them back to me. I then have to post them back to you. So, from this, you can see where the delay comes in for your recopied tapes to be sent back to you, can't you. Probably about a week in the Post Office's hands, let alone the time spent checking and recopying your bad tape. So, don't panic if you don't get your tape back within the first few days of posting it off to me.

We would also like to point out, that in line with other software producers in New Zealand, we do not give a warranty on software. If you cannot load your tape, we will re-copy it for you, but under no circumstances are we prepared to give you your money back. We realise that in a lot of cases you are buying 'sight unseen', but where else can you get such cheap software??? And we do give a bit of leeway where country members are concerned.

We have our first problem with a member now, regarding the above paragraph. Mr Stirling Barr is taking us to the Small Claims Court, because we will not return his money to him after he purchased a Word Processing tape last month. We have pointed out that we are quite willing to redo his tape if it doesn't load, but the problem seems to be that Allan Clarke has left some errors in his program. It is our understanding that Allan Clarke has made his programs available with the agreement that there could be errors which he will fix and update copies sold when he returns to New Zealand next year. It is my considered opinion, as a secretary/typist of some 100 years (no, perhaps only 19 years) that this word processing tape is quite good. I have now used three word processing tapes on the Colour Genie, and of the three, I feel that Allan Clarke's tape stands out, apart from the annoying habit which is built in to the program deliberately, of wiping out all your blank lines (unless you have remembered to put in the special symbol) when printing. 17 people have now purchased this program, do you all really find it 'full of errors'?

However, Mr Barr, it really wasn't necessary to ring and abuse my husband, was it? He knows nothing at all about the Colour Genie group and what goes on therein.

Regarding the software, right at the back of this magazine you will find two blank order forms. If you could use these forms when ordering items from us in future, this will make it easier than writing out letters. If these could be filled out before you come to the meeting, it would also help my hand (the one that gets writers cramp!)

Can someone please help Ray Dyer (5 Browne Street, Kawerau) with his common Philips TV rolling problem. Could someone please write to him with a fix for this. I know Olwen gave the cure at one of the early meetings. Can anyone remember what it was?

- Nola Huggins

E R R A T A

Easycode

There is an error in line 16200 - delete the first of two quote marks (keybounce again!!) Keith McGill

George Muzyka would like to make the following corrections to the Programmable Graphics Generator, published in a recent issue.

```
570 IF PEEK(16444)=8 THEN C=C-40:IF C < 125 THEN C=C+40 ELSE PRINT@C," "
580 IF PEEK(16444)=32 THEN C=C-1:IF ((C/40)-(INT(C/40)))*40 < 5.5 THEN
    C=C+1 ELSE PRINT@C," "
590 IF PEEK(16444)=64 THEN C=C+1:IF ((C/40)-(INT (C/40)))*40 >21.5 THEN
    C=C-1 ELSE PRINT@C," "
600 IF PEEK(16444)=16 THEN C=C+40:IF C >7 THEN C=C-40 ELSE PRINT@C," "
1610 K$=INKEY$
```

200 should be PRINT@880 not 920

LIST OF FINANCIAL COLOUR GENIE GROUP MEMBERS AS AT 24/9/84

ALVAREZ, Fred	49 Astley Ave, New Lynn	873 120	
ANDREWS, Rhys	18 Bramley Drive, Pakuranga		Student
AUSTIN, Des	Karaka North Rd, R.D.1, Papakura		Country
AVIS, Stephen	12 Ruru Crescent, Putaruru	7750	Country
BARKER, Anne & family	1 Carbery Place, Manurewa	267 4833	
BARR, Stirling	32 Kapuka Rd, Mangere Bridge	668 551	
BERMAN, Robert	16 Asbury Cres, Campbells Bay	478 4022	Student
BISHOP, Chris	6 Jenanne Place, Glenfield	444 5301	
BOYLE, Danny	224 Park St, Winton, Invercargill		Country
BROOKE, Richard	PO Box 700, Hastings		Country
BURROWES, David	86 Wood St, Palmerston North		Country
BURTON, Ron	P O Box 208, Te Aroha	625 Man.	Country
BYRNES, Ces	31 Rosehill Drive, Papakura	298 4107	Country
CAIRNS, Keith	Box 36, Ngongotaha,		Country
CAMERON, Sean	3A Quovadus Place, Red Beach		Student
CARIAN, Craig	42A Comins Cres, Mission Bay	583 061	
	Postal Box 4326, Auckland		
COLLINS, Dick	Box 301, Paraparaumu	86431PRM	Country
COLSON, Keith	21 Stapleford Cres, Browns Bay		Student
COWEN, J.	Milson Line 5 R.D. Feilding		Country
CRANE, Darrell	64 Ranald Ave, Glenbrook Beach		
CRUMP, S.J.	No. 6 R.D., Gore		Country

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DICKENS, Brent	154 Normandale Rd, Normandale	666 133	Country
DIX, Keith	21 Adel Place, Weymouth	267 0434	
DONALDSON, David & family	80 Woolfield Rd, Papatoetoe	278 7598	
DRAPER, Mr C.F.	C/- Lakeland TV & Stereo, Box 892, Taupo	88 888	Country
DUNNINGHAM, Neville	5 Kingswood Rd, Papatoetoe	278 3105	
DYER, Ray	5 Browne Street, Kawerau	6199 Kaw.	Country
EDWARDS, Don	10 Fairview Ave, Feilding		Country
ELLEY, family	40 Mary Dreaver St, Block Bay	675 024	
ELISAK, Alex & Kevyn	14 Awakino Place, Manurewa	266 7423	
FISHER, Peter	64 Old Wairoa Rd, Papakura	298 4654	
GEBBIE, George	141 Flanshaw Rd, Te Atatu Sth	83 46028	
GOLDIE, Willie & Andrew	24 Douglas Ave, Mt Albert	867 533	
GORDON, Terry	99 Reeves Rd, Pakuranga	566 564	
GREEN, Gordon & family	62 Rajkot Tce, Khandallah, Wgn4.		Country
GREEN, Mike	49 Astley Ave, New Lynn	873 120	Student
GROVE, Chris & family	4 Salem Place, Torbay		
GRUSNING, Neill	48 Beatty Rd, Pukekohe	86 712	Country
GURNEY, P.A.	10 Norfolk Rise, Waiuku	59 682	Country
HAMILL, family	26 Ashlyne Ave, Papatoetoe	278 9585	
HARNESS, Justin	18 Wynyard Rd, Mt Eden	602 189	Student
HARRIS, Bert & family	15 Seakens Way, Glen Eden	818 4660	
HEAP, family	23 Leatham Crescent, Papakura	298 5550	
HILL, Gerrard & family	86 Wallace Rd, Papatoetoe	278 3446	
HISLOP, Adam	3 Martin Gr, Normandale, Lower Hut		Country
HOLES, Freda & family	10 Rowan Terrace, Te Atatu Sth	83 45244	
HOLT, Bernie	P.O. Box 23-303, Papatoetoe		
HOYES, Peter	17 Luton Avenue, Pakuranga		
* HUGGINS, Nola	612 Mt Albert Rd, Royal Oak	655 718	
* HYNDS, Ken	13 Ngahue Cres, Whenuapai	416 7404	
IRVINE, Robyn	430 Massey Rd, Mangere East	275 7007	
JONES, Murray	6 Shearman Grove, Tauranga		Country
JOYCE, Noel D.	196 Conon Street, Invercargill		Country
KANE, Mrs Deidre	31 Momona Rd, Greenlane	542 254	
KUMAR, Susil	Fl.10, 7 Tralee Place, Hamilton	68 262	Country
KAY, Ross	2/9 Longreach Drive, Glen Eden	818 4818	
LAMBOURN, A P & family	32 Mead St, Avondale	866 918.	
LANGDON, Mark	6 Trias Road, Glenfield	444 4247	
LEWIS, Stuart	39 Hillcrest Ave, Rotorua		Country
LIDDEL, family	91 Taikata Rd, Te Atatu Nth	834 7129	
LOCKERBIE, Claire & Roger	63 Grampian Road, St Heliers	580 270	
LYALL, R.G.	78 Dimock St, Titahi Bay, Wgn		Country
MacALPINE, Mr E.	45 Mutu St, Te Awamutu		Country
McCREEDY, Bert	16 Walpole St, Ellerslie	597 308	
MacDONALD, Iain	3 Amy Street, Ellerslie	596 412	
McFARLANE, Tom	2/14 Calkin Cres, Papatoetoe	278 2366	
McGILL, Keith	15 Manapouri Place, Pakuranga	565 643	
MAGGS, Philip	21 Cheltenham Rd, Devonport	450 029	
MANAWARU SCHOOL	R.D.1, Te Aroha, Attn: Brian Fellows, Principal		Country
MAWBY, David J.	40 Gordon Tce, Gore	5000	Country
MELLARS, Les	564 Beach Road, Rothesay Bay		
METCALFE, E.K.	Box 13031, University of Waikato P.O., Hamilton		Country
MILLAR, Robert	17 Onewa Rd, Northcote	486 504	Student
MILLER, Paul	C/- WO's & SNCO's Mess, RNZAF Base, Wigram, Christchurch.		Country

MILLS, Andrew	59 Blackbeech St, Akatarawa, Lower Hutt		Country
MITCHELL, Geoff	Box 95, Mangawhai, Northland	68 175	Country
MULLEN, Peter	54 Park Road, Glenfield	444 9155	
MUZYKA, George	33 Vermont St, Ponsonby	789 176	Student
NICHOL, Bryce	C/- FEPB, Private Bag, Pukekohe	299 6203	Student
NOGAJ, Jan	Mauku Street, Manaku, Rotorua ?		Country
NOWILL, Malcolm	16 Fd Regt RNZA, Papakura Camp		
O'CALLAHAN, Robert	8A Komaru St, Remuera		
PAKES, Robert	3 Russell Crescent, Rotorua		Country
PETERS, D.R.	6 Tane Lane, Whakatane		Country
PHILLIPSEN, Mr H.E.	Box 409, Havelock Nth, Hawkes Bay		Country
PUKU, Joe	33 Dalloch Street, Manurewa		
QUAIN, family	12 Wilkinson Way, Browns Bay		
RAKON COMPUTERS LTD	Private Bag, Newmarket	600 421	
RICHMOND, Bob	181 Browns Bay Rd, Browns Bay	478 4745	
RIGNEY, Gene	Kaharoa Rd, R.D.2, Ngongotaha		Country
ROBINSON, Ian	4 Kingsley Street, Gisborne		Country
* ROOTS, Ernie	512 Glenfield Rd, Glenfield	444 9669	
* RUSSELL, Andy	2 Takitimu St, Whenuapai	416 6249	
RUSSELL, Bill	25 Sturdee Road, Manurewa		
SALT, T.K.	92 Omapere St, Whitby, Wgtn.		Country
SAUNDERS, A.M.	96 Oriel Ave, Tawa, Wellington		Country
SAVILLE, family	7A Southlynn Rd, Titirangi	817 6491	
SCOTHERN, D.J.	64 Princess Road, Tauranga		Country
SEATON, Michael	56 Compton St, Northcote	481 042	Student
SEYB, Bruce & family	127 Cannongate St, Birkdale	439 746	
SIMPSON, Ron	25 Renata Cres, Te Atatu Nth	834 6987	
SMITH, Barry	23 Eliot St, New Plymouth		Country
SPRATT, Dave	11 Ball Place, Mt Roskill	675 676	
STAMP, Linton	11 Mary Beth Place, Papakura		
STARKE, Mrs L.M.	Urquharts Rd, Karaka, R.D.1., Papakura		Country
STEPHENS, Frances & family	35 Raurenga Ave, Royal Oak	654 120	
STRANAGHAN, family	29 Haseler Cres, Howick	535 7450	
SWASBROOK, family	43 Pickwick Parade, Howick		
TODD, A.J.	46A Hutton Street, Otahuhu	276 7886	
TRUE, Murray & Anne	4/503 Oliphant Rd, Hastings		Country
TUAVERA, Jeffery	732 Sandringham Rd, Sand	693 986	
VERMUELEN, Mr D.P.	Strathmore Rd, Reporoa		Country
WALKER, Barry & Irene	20 Ellesmere Cres, Palm, North		Country
WALKER, David	Kiwitea, No 7 R.D, Feilding		Country
WAWMAN, Don	5/53 Bellevue Rd, Mt Eden	797 440 X685(work)	
WESSELING, Ralph	112 Pt View Drive, Papatoetoe	535 6134	
* WILLIAMS, Olwen	3/26A West End Rd, Herne Bay	761 954	
WILTON-JONES, Jason	11 Mountain Rd, Henderson	837 0564	Student

Total - 118 members

* -Committee Members

PUNTER \$12.00
A horse-race-simulation/game. This is really good, the horses with their jockeys look very realistic racing across the screen. Another thinking-type game, definitely not arcade. Put bets on the horses you think will win. Can ask what the horse's form is. Up to nine people can play at the same time.

GENIE TREK \$12.00
Another 'Space Trek' game, like the one available now. I haven't tried it out yet, but it has received a very good write-up in England.

ROCKSOFT GAMES \$12.00
Four games on the one tape, all called up from a menu. Good value.

ROCKSOFT UTILITIES \$12.00
Four utilities all on the one tape, also called up from a menu. A screen scroller, title-producer, a program to load or save tapes faster or slower, and a Genie-plot program, with which you can draw pictures and save them to tape.

BACH ORGAN \$12.00
This is another great program - turns the Genie into an organ.

FULL SCREEN EDITOR \$20.00
Move your cursor all over the screen at will. Price includes 4 page manual. Available either from us, or from Phil Lovegrove, at Rakon Computers Ltd. A terrific utility. We would prefer that you buy from us of course, then we make a little bit on each tape sold.

INVOICING \$15.00
A complete Sales Invoice, well set out. When you have finished invoicing, it gives you a total of what has been invoiced. Basic program will need VAT part deleting.

NOMINAL LEDGER \$15.00
A complete ledger program for the Colour Genie.

E. A. Jackson's software is now available - these are:-

P.O.B. GRAPHICS EDITOR \$10.00
This is a program that allows you to create your own 'Picture Object Blocks'. There is a two page manual to go with it, which includes full instructions, and another small program on how to use the POBs once you have created them.

SHAPE DESIGNER \$10.00
This is an extremely good program, allowing you to design shapes on the screen, using a Shape cursor. Two pages on how to use it, plus another small program on how to use the shapes once created.

GENIE CALC \$15.00
This program is a spreadsheet that shows three columns on the screen at one time. Has a three page manual, which is very comprehensive.

ELECTRONIC DESK \$15.00
This is the program we have all been waiting for. It includes a calculator, name/telephone index (with sorting and searching capabilities), calendar, jotter/diary pad, and a budgeting program. Also includes a comprehensive two-page manual on using this program.

With any of the utility programs, a free copy of Etch and Sketch and/or Toolkit will also be included. Etch and Sketch has one page instructions.

LEARN TO COUNT WITH FREDDY FROG \$10.00
A game for young children, which teaches counting and basic arithmetic.

PONTOON/SNAKE SNATCH \$10.00
This program includes two games on the one tape. Snake Snatch is the same as the 'Snake' program that Rakon have.

DEMON DERBY AND GAMES BOARD \$10.00
More games.

HI-LO and TUNES & COLOURS \$10.00
Hi-Lo is a very good version of 'Play your cards right' (TV game). Tunes and Colours is a 'Simon Says' game.

SCREEN DUMP TO PRINTER

Chris Bishop

Printers will not accept "PRINT @" statements because they may not be in order in the program
e.g.

```
30 PRINT@ 345,"HELLO"  
40 PRINT@ 160,"GOODBYE"
```

The following short program is a screen dump and can be added to your own programs. It scans the screen memory locations in order from top left to bottem right and prints what it sees

```
10000 F=17408  
10010 FOR J=0 TO 24      (23 for old roms)  
10020 FOR S=F TO P+39  
10030 G=FEEK(S)  
10040 LPRINT CHR$(G);:LPRINT" ";  
10050 NEXT S  
10060 LPRINT CHR$(128)  
10070 F=F+40  
10080 NEXT J
```

The next line is a GOTO or RETURN to suit your program.

You will see that we have made the newsletter a little smaller. With sending out back issues to everyone, I have had to hire a photocopy machine for a month. I really couldn't load poor Chris down with any more - he has already got a pile to do. So, with this, it is now costing \$1.60 to photocopy each magazine - quite a cost. Therefore, we are going to have to cut down the size of the magazine, so that we don't have to put the cost of the subscription up.

Please note that we are putting postage costs to country members up to \$1.50 from now on. The bubbly bags cost 60c each for the large one we use, which only leaves 40c for cost of postage. As postage usually costs more than 40c we are losing money. Thank you to those country members (like Neill Grusning and Ces Byrnes, and Christchurch group to name a few) that have been adding more money to their postage costs.

Also, please note that Technical Manuals are now freely available from the Group. They cost \$12.00 each plus \$1.50 postage and package.

```
10 REM OTHELLO/REVERSI
20 REM PETER B MAGGS
30 REM BYTE NOVEMBER 1979
40 REM COVERTED TO COLOUR GENIE
105 DIMA(100)
110 DIMB(100)
112 DIMC(100)
113 DIMD(8)
114 DIME(100)
115 RANDOM
171 D(1)=1
172 D(2)=11
173 D(3)=10
174 D(4)=9
175 D(5)=-1
176 D(6)=-11
177 D(7)=-10
178 D(8)=-9
185 GOSUB9000
200 GOSUB8000
205 IFQ.LT.5 THEN 295
215 GOSUB1300
220 IFT=1 THEN 295
225 T3=T3+1
226 IF T3.LT.2 THEN 254
228 PRINT:PRINT"THE GAME IS OVER"
229 N=0
230 J=0
231 FORZ=12 TO 89
232 IFB(Z)=-1 THEN 239
234 IFB(Z).LT..GT.1 THEN244
235 J=J+1
237 GOTO 244
239 N=N+1
244 NEXTZ
245 PRINT"BLACK HAS ";N;"WHITE HAS ";J;"PIECES"
248 PRINT"DO YOU WISH TO PLAY AGAIN
      (0=NO, 1=YES";
250 INPUT T
251 RESTORE
252 IF T=1 THEN 185
253 GOTO9998
254 PRINT
255 IF P=1 THEN 260
256 PRINT"BLACK HAS NO PLAY, LOSES TURN"
258 GOTO950
260 PRINT"WHITE HAS NO PLAY, LOSES TURN"
270 GOTO 950
295 GOSUB 1100
```



```
380 IF M.LT..GT.1 THEN 500
390 IF Q.GT.4 THEN 430
402 M=45
403 IFB(M)=2 THEN 540
404 M=M+1
405 GOTO403
430 GOSUB3000
500 IFM.LT.1 THEN 800
510 IFM.GT.100 THEN 800
520 IFQ.GT.4 THEN 600
530 IFB(M).LT..GT.2 THEN 800
540 B(M)=P
550 GOTO830
600 GOSUB1400
640 IF T.LT..GT.0 THEN 950
800 PRINT 'ILLEGAL PLAY':FORX=0TO200:NEXT
820 GOTO 200
830 Q=Q+1
950 P=-P
955 IF E(M) .LT..GT.64 THEN 200
960 GOSUB 5000
970 GOTO200
1100 PRINT
1101 PRINT'IF YOU WANT THE COMPUTER TO PLAY,
ENTER 0,0'
1115 IF P=1 THEN 1140
1120 PRINT'BLACK';
1130 GOTO 1145
1140 PRINT 'WHITE';
1145 PRINT'S TURN, ENTER X,Y';
1150 INPUT X,Y
1160 M=X+1+10*Y
1170 RETURN
1300 T=1
1301 PRINT 'CHECKING';
1302 M=1
1310 IFU.LT.4 THEN 1318
1316 U=0
1317 PRINT '.';
1318 U=U+1
1320 IFB(M).LT..GT.0 THEN 1390
1330 N=1
1340 J=D(N)
1350 IFB(M+J).LT..GT.-P THEN 1385
1370 K=M+J+J
1380 IFB(K)=3 THEN 1385
1381 IFB(K)=0 THEN 1385
1382 IFB(K)=P THEN 1396
1383 K=K+J
1384 GOTO 1380
1385 N=N+1
1386 IFN.LT.9 THEN 1340
1390 M=M+1
1391 IFM.LT.90 THEN 1310
1392 T=0
1394 RETURN
1396 T3=0
1398 RETURN
1400 T=0
```

OTHELLO P3

```

1410 IFB(M)=0 THEN 1430
1420 RETURN
1430 N=1
1440 J=D(N)
1444 IFB(M+J).LT..GT.-P THEN 1700
1470 K=M+J+J
1480 IFB(K)=3 THEN 1700
1490 IFB(K)=0 THEN 1700
1500 IFB(K)=P THEN 1530
1510 K=K+J
1515 GOTO 1480
1530 T=1
1531 L=M
1532 IF L=K THEN 1700
1533 B(L)=P
1534 L=L+J
1535 GOTO1532
1700 N=N+1
1705 IFN.LT.9 THEN1440
1710 RETURN
3000 PRINT▼▼THINKING▼▼;
3680 F=9999
3690 FORZ=12 TO 89
3700 C(Z)=B(Z)
3710 NEXTZ
3750 M=12
3752 IFU.LT.4 THEN 3759
3753 U=0
3755 PRINT▼▼.▼▼;
3759 U=U+1
3770 GOSUB1400
3780 IF T=0 THEN 3860
3790 GOSUB3900
3800 IFH.GT.F THEN 3840
3802 IFH.LT.F THEN 3810
3804 Z=RND(0)
3806 IFZ.GT..7 THEN3840
3810 F=H
3820 W=V
3840 FORZ=12 TO 89
3850 B(Z)=C(Z)
3855 NEXTZ
3860 M=M+1
3865 IFM.LT.90 THEN3752
3870 M=W
3875 PRINT
3880 RETURN

```

OTHELLO P4

```

3900 H=-99999
3920 FORZ=12 TO89
3925 A(Z)=B(Z)
3930 NEXTZ
3935 P=-P
3940 V=M
3950 M=12
3970 GOSUB1400
3980 IF T=0 THEN 4080
3990 GOSUB4130
4000 IF G.LT.F THEN 4030
4016 H=G
4020 GOTO4100
4030 IFG.LT.H THEN 4050
4040 H=G
4050 FORZ=12 TO 89
4060 B(Z)=A(Z)
4070 NEXTZ
4080 M=M+1
4090 IFM.LT.90 THEN 3970
4100 M=V
4105 P=-P
4110 RETURN
4130 G=0
4140 Z=12
4150 IFB(Z)=P THEN 4190
4160 IFB(Z)=0 THEN 4300
4170 G=G-E(Z)
4180 GOTO 4300
4190 G=G+E(Z)
4300 Z=Z+1
4400 IFZ.LT.90 THEN 4150
4500 RETURN
5000 IFM.LT..GT.12 THEN 5100
5010 E(13)=5
5020 E(22)=5
5030 E(23)=5
5100 IFM.LT..GT.19 THEN 5200
5110 E(18)=5
5120 E(28)=5
5130 E(29)=5
5200 IFM.LT..GT.82 THEN 5300
5210 E(72)=5
5220 E(73)=5
5230 E(83)=5
5300 IFM.LT..GT.89 THEN 5400
5310 E(79)=5
5320 E(78)=5
5330 E(88)=5
5400 RETURN

```

```

8000 CLS:PRINT  ^^          1  2  3  4  5  6  7  8^^
8100 PRINT,
8200 FOR Y=8 TO 1 STEP-1
8300 PRINTY;^^          ^^;
8400 FORX=1 TO 8
8500 IFB(X+1+Y*10)=1 THEN 8700
8550 IF B(X+1+Y*10)=-1 THEN 8900
8600 PRINT^^-  ^^;
8650 GOTO 8990
8700 PRINT  ^^W  ^^;
8800 GOTO 8990
8900 PRINT^^B  ^^;
8990 NEXTX
8995 PRINTY:PRINT
8996 NEXTY
8997 PRINT  ^^          1  2  3  4  5  6  7  8^^
8998 RETURN
9000 FORN=11 TO90
9050 READE(N)
9060 NEXTN
9066 FORN=1 TO 100
9068 B(N)=0
9070 NEXTN
9074 FORN=1 TO 10
9076 B(N)=3
9078 B(90+N)=3
9080 B(10*N-9)=3
9082 B(10*N)=3
9085 NEXTN
9087 B(45)=2
9088 B(46)=2
9089 B(55)=2
9090 B(56)=2
9172 U=5
9186 Q=1
9062 P=-1
9191 RETURN
9220 DATA0, 64, -30, 10, 5, 5, 10, -30, 64, 0
9222 DATA0, -30, -40, 2, 2, 2, 2, -40, -30, 0
9224 DATA0, 10, 2, 5, 1, 1, 5, 2, 10, 0
9226 DATA0, 5, 2, 1, 1, 1, 1, 2, 5, 0
9228 DATA0, 5, 2, 1, 1, 1, 1, 2, 5, 0
9230 DATA0, 10, 2, 5, 1, 1, 5, 2, 10, 0
9234 DATA0, -30, -40, 2, 2, 2, 2, -40, -30, 0
9236 DATA0, 64, -30, 10, 5, 5, 10, -30, 64, 0
9998 STOP
9999 END

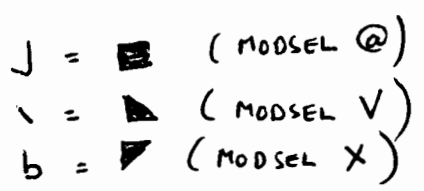
```

NOTE .LT. MEANS < , .GT. MEANS >

```

10 CLS:COLOUR4
20 PRINT@50,"JJJJ J J JJJJ"
30 PRINT@90,"J J J J"
40 PRINT@130,"JJJJ J J JJJb"
50 PRINT@170,"J J J J"
60 PRINT@210,"J JJJJ J J"
70 PRINT@610,"INSTRUCTIONS -Y/N";:INPUT I#
75 PRINT
80 IF I#="Y" THEN GOSUB 620 ELSE 90
90 PRINT " PRESS ANY KEY TO CONTINUE"
91 PRINT
92 K#=INKEY#;IF K#="" THEN 92
100 CLS
110 DIMA(10),F(9)
120 M=-1;O=42;X=88;P=0
130 RANDOM
140 FOR C=1 TO 9
150 A(C)=0
160 IF INT(RND(0)+.5)=0 THEN A(C)=X
170 NEXT C
180 GOSUB 360
190 M=M+1
200 N=0
210 FOR C=1 TO 9
220 IF A(C)=X THEN N=N+1
230 NEXT C
240 IF N=1 AND A(5)=X THEN 420
250 IF M>0 THEN PRINT@360,"THAT WAS MOVE ";M
260 PRINT@440,"NUMBER OF X'S IS ";N
270 PRINT@520,"YOU ONLY NEED ONE - IN THE MIDDLE SQUARE"
280 PRINT@600,"Which one do you want to flip?"
290 IF INKEY#("<")="" THEN 290
300 A#=INKEY#
310 N=VAL(A#);IF N<1 OR N>9 THEN 300
320 P=N
330 GOSUB 450
340 GOTO 180
350 END
360 :PRINT@0," "

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Adapted from Tim Hartnell's book
 Giant Book of Games
 (Fontana, 1983)

by KEITH MCGILL

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370 IF P<>0 THEN PRINT@40,"You flipped ";P
380 PRINT@130,"1 2 3",CHR$(A(1));" ";CHR$(A(2));" ";CHR$(A(3))
390 PRINT@210,"4 5 6",CHR$(A(4));" ";CHR$(A(5));" ";CHR$(A(6))
400 PRINT@290,"7 8 9",CHR$(A(7));" ";CHR$(A(8));" ";CHR$(A(9))
410 RETURN
420 PRINT:PRINT
430 PRINT@880,"YOU SOLVED IT IN ";M;" MOVES"
440 END
450 REM:IF A(N)=X THEN RETURN
460 IF N=1 THEN F(1)=2:F(2)=4:F(3)=5:F(4)=10
470 IF N=2 THEN F(1)=1:F(2)=3:F(3)=10:F(4)=10
480 IF N=3 THEN F(1)=2:F(2)=5:F(3)=6:F(4)=10
490 IF N=4 THEN F(1)=1:F(2)=7:F(3)=10:F(4)=10
500 IF N=5 THEN F(1)=2:F(2)=4:F(3)=8:F(4)=6
510 IF N=6 THEN F(1)=3:F(2)=9:F(3)=10:F(4)=10
520 IF N=7 THEN F(1)=4:F(2)=5:F(3)=8:F(4)=10
530 IF N=8 THEN F(1)=7:F(2)=9:F(3)=10:F(4)=10
540 IF N=9 THEN F(1)=8:F(2)=5:F(3)=6:F(4)=10
550 FOR G=1 TO 4
560 F=0
570 IF A(F(G))=X THEN F=1:A(F(G))=0:GOTO 570
580 IF A(F(G))=0 THEN A(F(G))=X
590 NEXT G
600 IF A(N)=X THEN A(N)=0 ELSE IF A(N)=0 THEN A(N)=X
610 RETURN
620 REM:INSTRUCTIONS
625 PRINT
630 PRINT"THE AIM OF THE GAME IS TO FINISH WITH ONLY ONE 'X' - IN THE MIDDLE"
640 PRINT
650 PRINT"FLIPPING THEN CORNER PIECES WILL CHANGE THE CORNER FOUR"
660 PRINT
670 PRINT"FLIPPING THE MIDDLE PIECE OF A SIDE WILL CHANGE THAT SIDE"
680 PRINT
690 PRINT"FLIPPING THE CENTRE PIECE WILL CHANGE ALL FOUR MIDDLE PIECES"
700 PRINT
710 PRINT"THE PIECE YOU FLIP WILL ALWAYS CHANGE"
715 PRINT
720 RETURN
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