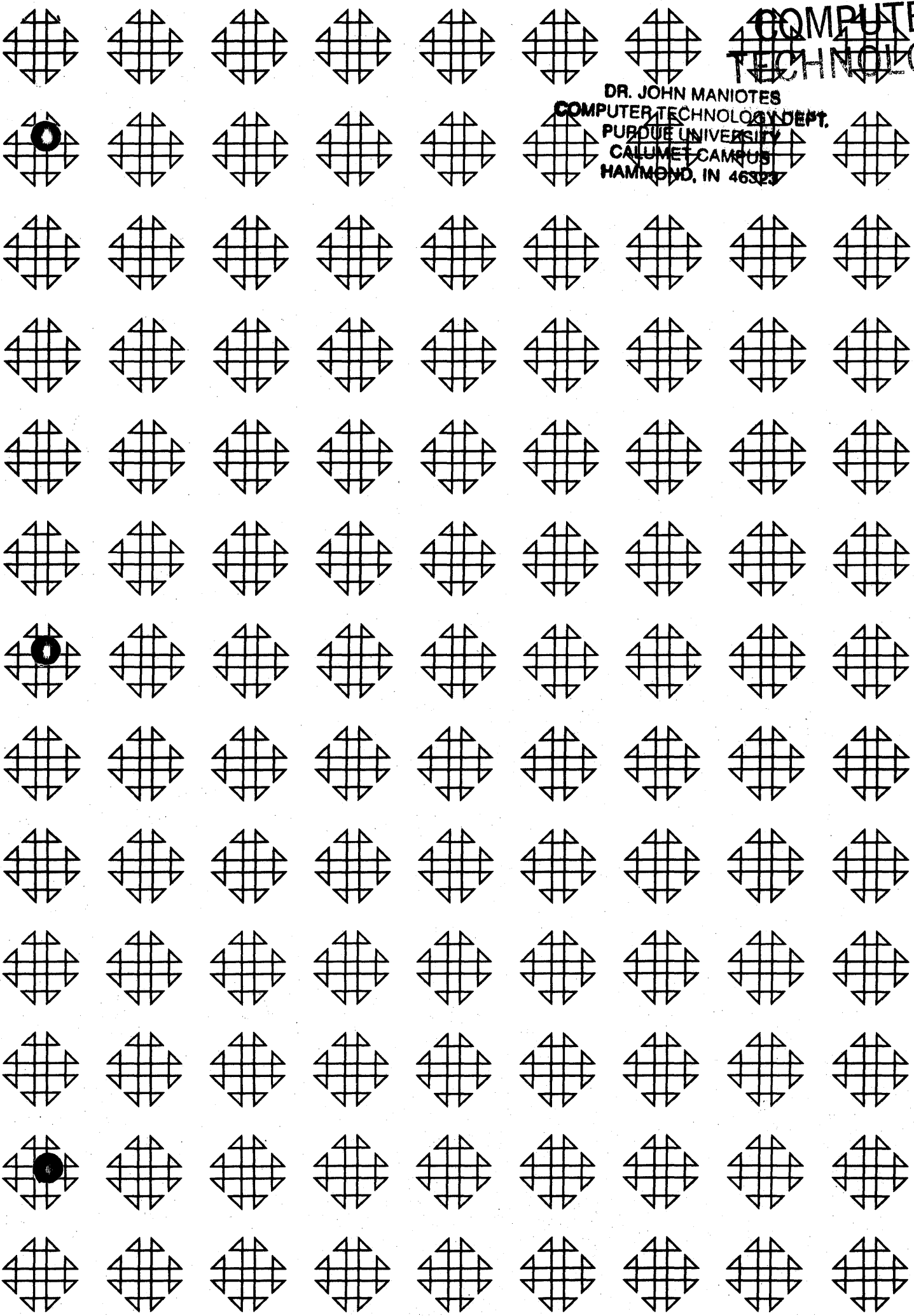


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Tic - Tac - Toe Demonstration

11.0.012

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## Operating Instructions for Tic-Tac-Toe

Set all machine check switches to "program" and the four program switches to "off".

Clear Memory. A suggested method is to press INSTANT STOP, RESET, and INSERT. Then type 310000400003 and the R-S key. When core is cleared, press RESET. Place object deck in card reader, then press LOAD on the card reader. After the object deck, including sub-routines, is loaded, the words LOAD DATA will be typed. The data is included at the end of the object deck, so by pushing START on the console and READER START on the card reader, the data will be read in. When the data is loaded, instructions for playing the game will be typed.

ENTER SOURCE PROGRAM, PUSH START

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08300 C TIC-TAC-TOE DEMONSTRATION
08300 C THE ARRAY N(I,J) IS THE ARRAY OF POSITIONS TO BE CHECKED AFTER
08300 C EACH OPPONENT PLAY AND BEFORE EACH MACHINE PLAY.
08300 C ARRAY NWIN(I,J) IS THE POSITION TO PLAY TO WIN.
08300 DIMENSION N(9,8), K(9), NWIN(9,8)
08300 DO 3 I=1,9
08312 READ 5,N(I,1),N(I,2),N(I,3),N(I,4),N(I,5),N(I,6),N(I,7),N(I,8)
08612 READ 4,NWIN(I,1),NWIN(I,2),NWIN(I,3),NWIN(I,4)
08768 READ 4,NWIN(I,5),NWIN(I,6),NWIN(I,7),NWIN(I,8)
08924 3 CONTINUE
08960 4 FORMAT(12,12,12,12)
08998 5 FORMAT(12,12,12,12,12,12,12,12)
09056 1 DO 6 I=1,9
09068 6 K(I)=0
09152 NCOD1=0
09176 NCOD2=0
09200 PRINT 10
09224 10 FORMAT(38HALL RIGHT, HERE WE GO. YOU PLAY FIRST.)
09324 11 PRINT 12
09348 12 FORMAT(42HTYPE THE POSITION NUMBER YOU WANT TO MARK.)
09456 14 ACCEPT 15,1
09480 ISAV=1
09504 15 FORMAT(11)
09526 NSAV=0
09550 NSAV1=0
09574 C THE PROGRAM ASSUMES 1 TO BE THE MARK OF THE OPPONENT
09574 C THE MARK OF THE MACHINE IS 2.
09574 IF(K(I))17,20,17
09654 17 PRINT 18
09678 18 FORMAT(43HSTUPID. THAT PLACE HAS ALREADY BEEN PLAYED.)
09788 GO TO 11
09796 20 K(I)=1
09844 23 DO 32 J=1,8
09856 IF(N(I,J))50,50,25
09972 25 NP=N(I,J)
10056 IF(K(NP)-1)32,26,32
10148 26 IF(NWIN(I,J))27,32,27
10264 27 NP=NWIN(I,J)
10348 IF(SENSE SWITCH 1) 270,275
10368 270 IF(I-3) 275,271,275
10436 271 IF(J-6) 275,272,275
10504 272 IF(K(4)) 275,273,275
10560 273 K(4)=2
10584 NP=4
10608 GO TO 40
10616 275 IF(K(NP))29,28,29
10696 28 NSAV=NP
10720 GO TO 32
10728 29 IF(K(NP)-1) 1,42,32
10820 32 CONTINUE
10856 GO TO 50
10864 40 PRINT 41,NP
```

↑ FIRST #  
IS 0 FROM  
HERE UP  
↓ FIRST #  
IS 1 FROM  
HERE DOWN

2

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10888 41 FORMAT(16H1 PLAY POSITION 12, 12H YOUR TURN.)
11000 GO TO 14
11008 42 PRINT 43
11012 43 FORMAT(41HWHAT HAPPENED. YOU WIN. CONGRATULATIONS.)
11118 430 PRINT 44
11142 44 FORMAT(36HIF YOU WANT TO PLAY AGAIN TYPE A 1.)
11238 PRINT 440
11262 440 FORMAT(17HIF NOT, TYPE A 2.)
11320 ACCEPT 15, 1STP
11344 IF(1STP-1)85,1,441
11412 441 PRINT 442
11436 442 FORMAT(25HHA HA, YOU ARE A QUITTER.)
11510 PRINT 443
11534 443 FORMAT(30HBTU THANKS FOR THE FUN ANYWAY.)
11618 GO TO 85
11626 45 PRINT 46
11650 46 FORMAT(37HSORRY PAL. I GUESS YOU DID YOUR BEST.)
11748 PRINT 47
11772 47 FORMAT(41HYOU REALLY DIDNT HAVE A CHANCE, YOU KNOW.)
11878 GO TO 430
11886 50 DO 520 L=1,9
11898 KNT=0
11922 IF(K(L))520,501,520
12002 501 DO 510 J=1,8
12014 IF(N(L,J)) 520,520,503
12130 503 NP=N(L,J)
12214 IF(K(NP)-1) 510,505,510
12306 505 NP=NWIN(L,J)
12390 IF(K(NP)-1) 506,506,510
12482 506 KNT=KNT+1
12518 IF(2-KNT) 512,512,510
12586 510 CONTINUE
12602 GO TO 520
12630 512 NSAVI=L
12654 GO TO 51
12662 520 CONTINUE
12698 51 DO 60 I=1,9
12710 IF(K(I))52,60,52
12790 52 IF(K(I)-2)60,53,60
12882 53 DO 59 J=1,8
12894 IF(N(I,J)) 60,60,54
13010 54 NP=N(I,J)
13094 IF(K(NP)-2)59,55,59
13186 55 IF(NWIN(I,J))59,59,56
13302 56 NP=NWIN(I,J)
13386 IF(K(NP))59,57,59
13466 57 K(NP)=2
13514 PRINT 58, NP
13538 58 FORMAT(16H1 PLAY POSITION 12, 27H , AND THAT MAKES ME WINNER.)
13660 GO TO 45
13668 59 CONTINUE
13704 60 CONTINUE
13740 601 IF(NSAV) 605,605,600
13796 600 IF(K(NSAV)) 599,599,605
13876 599 K(NSAV)=2
13924 NP=NSAV
13948 GO TO 40
13956 605 IF(NCOD1) 607,607,21
14012 607 IF(NCOD2)604,604,609
14068 21 IF(K(8)) 22,22,604
14124 22 K(8)=2
14148 NP=8
14172 GO TO 40
14200 609 IF(K(2)) 612,612,604
14236 612 K(2)=2
14260 NP=2

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 page is 1*

3

T4284		GO TO 40
T4302	604	DO 625 L=1,9
T4304		KNT=0
T4328		IF(K(L)) 625,606,625
T4408	606	DO 615 J=1,8
T4420		IF(N(L,J)) 625,625,608
T4536	608	NP=N(L,J)
T4620		IF(K(NP)-2) 625,610,625
T4712	610	NP=NWIN(L,J)
T4796		IF(K(NP)) 625,611,615
T4876	611	KNT=KNT+1
T4912		IF(2-KNT) 617,617,615
T4980	615	CONTINUE
T5016		GO TO 625
T5024	617	K(L)=2
T5072		NP=L
T5096		GO TO 40
T5104	625	CONTINUE
T5140		IF(NSAV1) 61,61,626
T5196	626	IF(K(NSAV1)) 61,627,61
T5276	627	K(NSAV1)=2
T5324		NP=NSAV1
T5348		GO TO 40
T5356	61	IF(ISAV-1) 633,630,633
T5424	630	IF(K(5)) 631,631,650
T5480	631	K(5)=2
T5504		NP=5
T5528		NCOD1=1
T5552		GO TO 40
T5560	633	IF(ISAV-3) 635,630,635
T5628	635	IF(ISAV-7) 640,636,640
T5696	636	IF(K(5)) 638,638,650
T5702	638	K(5)=2
T5776		NP=5
T5800		NCOD2=1
T5824		GO TO 40
T5832	640	IF(ISAV-9) 650,636,650
T5900	650	IF(K(5)) 64,62,64
T5956	62	NP=5
T5980		K(5)=2
T6004		GO TO 40
T6012	64	IF(K(1)) 67,65,67
T6068	65	NP=1
T6092		K(1)=2
T6116		GO TO 40
T6124	67	IF(K(3)) 70,68,70
T6180	68	NP=3
T6204		K(3)=2
T6228		GO TO 40
T6236	70	IF(K(7)) 73,71,73
T6292	71	NP=7
T6316		K(7)=2
T6340		GO TO 40
T6348	73	IF(K(9)) 76,74,76
T6404	74	NP=9
T6428		K(9)=2
T6452		GO TO 40
T6460	76	DO 80 J=2,8,2
T6472		IF(K(J)) 80,77,80
T6552	77	NP=J
T6576		K(J)=2
T6624		GO TO 40
T6632	80	CONTINUE
T6638		PRINT 81
T6672	81	FORMAT(43HLOOKS LIKE A DRAW. YOU PUT UP A GOOD FIGHT.)
T6802		GO TO 430

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ALL CASES ON THIS  
PAGE IS 1*

*4*

16810 85 PAUSE  
16822 GO TO 1  
16830 END

PROG SW 1 ONFOR SYMBOL TABLE, PUSH START  
SW 1 OFF TO IGNORE SUBROUTINES, PUSH START  
1620 FORTRAN SUBR. 9/30/61

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