

Connect4FR03 sub-program for Connect4				

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The TI seeks... then plays !

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// ##### THE TI PLAY #####
LBL A
1 +/- STO 99 E'
9 STO 99 E'
1 0 STO 99 E'
1 1 STO 99 E'
1 STO 99 E'
E
RTN
LBL E'
2 STO 06 D'
1 STO 06 D'
RTN
LBL D'
RCL 81 A' C'
RCL 82 A' C'
RCL 83 A' C'
RCL 84 A' C'
RCL 85 A' C'
RCL 86 A' C'
RCL 87 A' C'
RTN

// ##### TESTS IF 3 WERE FOUND OR NOT #####
LBL C'
RCL 08 X/T 3 EQ LNX
RTN

// ##### 3 WERE FOUND #####
LBL LNX
. 1 SM* 07
RTN

// ##### LOOKING IF 3 ARE ALIGNED #####
LBL A'
STO 07 STO 05
0 STO 08
LBL LOG
RCL 05 + RCL 99 = STO 05 B'
IFF 7 COS
RC* 05 INT X/T RCL 06 INV EQ COS
OP 28
GTO LOG
LBL COS
INV STF 7
RTN

// ##### IS THE BOX VALID? #####
LBL B'
/ 1 0 = STO 03 INV INT * 1 0 = STO 04
RCL 03 INT X/T
6 INV GE X2
0 EQ X2
RCL 04 X/T
0 EQ X2
8 EQ X2
RTN
LBL X2
STF 7

```



RTN

// ##### SEARCH THE GREATEST VALUE #####

LBL E

0 STO 01

RCL 81 STO 02 B

RCL 82 STO 02 B

RCL 83 STO 02 B

RCL 84 STO 02 B

RCL 85 STO 02 B

RCL 86 STO 02 B

RCL 87 STO 02 B

2 ST* 07

RCL 07 / 1 0 = INV INT * 1 0 = STO 89 PAU

RTN

LBL B

RC* 02

X/T

RCL 01

GE C

X/T STO 01

RCL 02 STO 07

LBL C

RTN



L A B E L S		
001	11	A
028	10	E'
039	19	D'
070	18	C'
079	23	LNK
086	16	A'
095	28	LOG
122	39	COS
128	17	B'
165	33	X2
170	15	E
229	12	B
245	13	C

Adr	Branch.		
A'	042	16	A'
A'	046	16	A'
A'	050	16	A'
A'	054	16	A'
A'	058	16	A'
A'	062	16	A'
A'	066	16	A'
B	178	12	B
B	183	12	B
B	188	12	B
B	193	12	B
B	198	12	B
B	203	12	B
B	208	12	B
B'	104	17	B'
C	235	77	GE
C'	043	18	C'
C'	047	18	C'
C'	051	18	C'
C'	055	18	C'
C'	059	18	C'
C'	063	18	C'
C'	067	18	C'
COS	105	87	IFF
COS	115	67	EQ
D'	032	19	D'
D'	036	19	D'
E	025	15	E
E'	006	10	E'
E'	010	10	E'
E'	015	10	E'
E'	020	10	E'
E'	024	10	E'
LNK	075	67	EQ
LOG	119	61	GTO
X2	149	77	GE
X2	152	67	EQ
X2	158	67	EQ
X2	161	67	EQ

Reg.	Instr.		
01	172	42	STO
	233	43	RCL
	238	42	STO
02	176	42	STO
	181	42	STO
	186	42	STO
	191	42	STO
	196	42	STO
	201	42	STO
	206	42	STO
	230	73	RC*
03	240	43	RCL
	133	42	STO
04	143	43	RCL
	141	42	STO
05	154	43	RCL
	089	42	STO
06	096	43	RCL
	102	42	STO
	108	73	RC*
	030	42	STO
07	034	42	STO
	112	43	RCL
	082	74	SM*
	087	42	STO
	210	72	ST*
08	212	43	RCL
	242	42	STO
81	071	43	RCL
	092	42	STO
82	040	43	RCL
	174	43	RCL
83	044	43	RCL
	179	43	RCL
84	048	43	RCL
	184	43	RCL
85	052	43	RCL
	189	43	RCL
85	056	43	RCL
	194	43	RCL



86	060	43	RCL
	199	43	RCL
87	064	43	RCL
	204	43	RCL
89	224	42	STO
99	004	42	STO
	008	42	STO
	013	42	STO
	018	42	STO
	022	42	STO
	099	43	RCL

