

Merlin

Merlin				
				Display
Play...				Init.

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M E R L I N

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Memory game

Merlin plays a sequence of notes and displays the note number. You must repeat the sequence.

Progressive game :

- note 1
- then note 1, note 2
- then note 1, note 2, note 3
- until note 1, note 2, ..., note n

Step	Procedure	Keys	Display
1	Initialization x = level (2<n<10)	x E	Merlin note 1
2.1	Play (n1= note number) * great if good note again if error	n1 A	result * note 1 note 2
2.2	Jeu (nx= note number) * great if good note again if error	n1 A n2 A	suiwant.. result * note 1 note 2 note 3
Repeat until n1 A, n2 A, n3 A, ..., nx A			

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Merlin

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1 3 RTN
1 4 RTN
1 5 RTN
1 6 RTN
1 7 RTN
2 1 RTN
2 2 RTN
2 3 RTN
1 3 RTN

// ##### INITIALIZATION #####
LBL E
X/T
2 GE IXI
9 INV GE IXI
CMS
X/T
STO 10 STO 00
LBL ADV
OP 51 * 9 = INT
CP EQ ADV
SUM 01
1 0 INV PRD 01
DSZ 0 ADV
OP 59
1 STO 02
SBR PRT
PAU PAU

// ##### DISPLAY NUMBERS #####
LBL E'
RCL 02 STO 03
RCL 01 STO 04 STO 05
LBL P/R
RCL 04 * 1 0 = STO 04 INT INV SUM 04 PAU
- 1 = * 3 = STO 11 SB* 11 OP 57
OP 00 OP 55
1 0 PRD 05
DSZ 03 P/R
RCL 02 STO 03
0 STO 07
OP 00
3 3 2 7 1 3 4 5 4 0 OP 03
4 0 4 0 0 0 0 0 0 0 OP 04
OP 55
R/S

// ##### WAITING ####
LBL YX
3 1 1 7 4 4 3 7 4 0 OP 03
4 0 4 0 0 0 0 0 0 0 OP 04
OP 55
R/S

// ##### PLAY #####
LBL A
CP EQ E'
X/T
1 0 PRD 07

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X/T SUM 07
- 1 = * 3 = STO 11 SB* 11 OP 57
DSZ 03 YX
OP 28
RCL 07 X/T RCL 05 INT
INV EQ X2
2 2 3 5 1 7 1 3 3 7 OP 03
7 3 0 0 0 0 0 0 0 OP 04
OP 55 PAU
RCL 10 - RCL 02 =
CP EQ 1/X
OP 22
GTO E'

// ##### SCORE #####
LBL 1/X
6 3 0 0 0 2 0 1 0 0 OP 04
RCL 10 / RCL 08 = * 1 0 = INT OP 06
R/S

// ##### ERROR #####
LBL IXI
OP 00
1 7 3 5 OP 03
3 5 3 2 3 5 0 0 7 3 OP 04
OP 55
R/S

// ##### AGAIN #####
LBL X2
1 3 2 2 1 3 2 4 3 1 OP 03
4 0 4 0 4 0 0 0 0 0 OP 04
OP 55 PAU
GTO E'

// ##### TITLE #####
LBL PRT
OP 00
3 0 1 7 3 5 OP 03
2 7 2 4 3 1 0 0 0 0 OP 04
OP 55
RTN

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L A B E L S
028 15 E
044 98 ADV
074 10 E'
086 37 P/R
160 45 YX
189 11 A
266 35 1/X
294 50 IXI
319 33 X2
350 99 PRT

Adr	Branch.
1/X	259 67 EQ
ADV	052 67 EQ
ADV	061 97 DSZ
E'	191 67 EQ
E'	263 61 GTO
E'	347 61 GTO
IXI	031 77 GE
IXI	035 77 GE
P/R	120 97 DSZ
PRT	069 71 SBR
X2	225 67 EQ
YX	213 97 DSZ

Reg.	Instr.
00	041 42 STO
01	054 44 SUM 059 49 PRD 079 43 RCL
02	067 42 STO 075 43 RCL 123 43 RCL 255 43 RCL
03	077 42 STO 125 42 STO
04	081 42 STO 087 43 RCL 093 42 STO 097 44 SUM
05	083 42 STO 118 49 PRD 221 43 RCL
07	128 42 STO 196 49 PRD 199 44 SUM 218 43 RCL
08	282 43 RCL
10	039 42 STO 252 43 RCL 279 43 RCL
11	106 42 STO 207 42 STO

