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10 RESTORE 80:FOR a=1 TO 4:a%(a)=1:a%
(a+5)=2:NEXT:INK 0,0:INK 1,2:INK 2,6:
INK 3,26:MODE 1:PAPER 0:GOSUB 90:LOCA
TE 5,7:PRINT"1 2 3 4 5 6 7 8 9"
20 LOCATE 10,1:PRINT"Lucas Problem so
lution":FOR a=1 TO 24:READ x%:LOCATE
5,10:PRINT"Press Spacebar for next mo
ve":WHILE INKEYS<>" ":WEND:LOCATE 5,1
0:PRINT SPACES(30)
30 LOCATE 3+(2*x%),8:PEN 3:PRINT""
40 IF x%=1 THEN a%(1)=0:a%(3)=1:GOSUB
90:GOTO 80 ELSE IF x%=9 THEN a%(9)=0
:a%(8)=2:GOSUB 90:GOTO 80
50 IF a%(x%-1)=0 THEN a%(x%-1)=a%(x%)
:a%(x%)=0 ELSE IF a%(x%+1)=0 THEN a%(
x%+1)=a%(x%):a%(x%)=0
60 IF a%(x%-2)=0 THEN a%(x%-2)=a%(x%)
:a%(x%)=0 ELSE IF a%(x%+2)=0 THEN a%(
x%+2)=a%(x%):a%(x%)=0
70 GOSUB 90
80 FOR b=1 TO 200:NEXT:LOCATE 3+(2*x%
),8:PRINT" ":NEXT:PEN 3:LOCATE 10,10:
PRINT"Finished":END
90 LOCATE 5,5:FOR z=1 TO 9:PEN a%(z):
PRINT CHR$(143);:PEN 0:PRINT CHR$(143
);:NEXT:PEN 3:RETURN
100 DATA 4,6,7,5,3,2,4,6,8,9,7,5,3,1,
2,4,6,8,7,5,3,4,6,5

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