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100 REM ##### SHUFFLES #####
110 DIM a(9)
120 A:
130 GOSUB Dashes
140 PRINT "      SHUFFLES      "
150 GOSUB Dashes
160 LET m = 0
170 PRINT "Level="
180 l = INKEY$
190 FOR i=1 TO 9
200     LET a(i) = i
210 NEXT i
220 FOR i=1 TO l
230     LET r = RND(1,4)
240     LET z = 1
250     ON r GOTO 530,620,710,800
260 NEXT i
270 GOTO 390
280 LET m = m + 1
290 PRINT m
300 PRINT " ";s
310 GOSUB Dashes
320 PRINT "1-4 ?"
330 n = INKEY$
340 IF n>4 THEN 320
350 IF n<1 THEN 320
360 LET z = 2
370 ON n GOTO 530,620,710,800
380 REM ===== Load s =====
390 LET s = 0
400 FOR i=1 TO 9
410     LET s = s * 10
420     LET s = a(i) + s
430 NEXT i
440 IF NOT s=123456789 THEN 280
450 IF m=0 THEN 190
460 PRINT " ";s
470 PRINT "Won in      "
480 PRINT "moves";m
490 GOSUB Dashes
500 PRINT
510 STOP
520 REM ===== 1 =====
530 LET p = 1
540 LET q = 4
550 GOSUB 880
560 LET p = 2
570 LET q = 3
580 GOSUB 880
590 IF z=1 THEN 260
600 GOTO 390
610 REM ===== 2 =====
620 LET p = 2
630 LET q = 5
640 GOSUB 880
650 LET p = 3
660 LET q = 4
670 GOSUB 880
680 IF z=1 THEN 260
690 GOTO 390
700 REM ===== 3 =====
710 LET p = 5
720 LET q = 8
730 GOSUB 880
740 LET p = 6
750 LET q = 7
760 GOSUB 880
770 IF z=1 THEN 260
780 GOTO 390
790 REM ===== 4 =====

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```
800 LET p = 6
810 LET q = 9
820 GOSUB 880
830 LET p = 7
840 LET q = 8
850 GOSUB 880
860 IF z=1 THEN 260
870 GOTO 390
880 LET b = a(p)
890 LET d = a(q)
900 LET a(p) = d
910 LET a(q) = b
920 RETURN
930 Dashes:
940 PRINT "-----"
950 RETURN
960 END
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