Stumbling Block

STUMBLING BLOCK

Exchange the four corners as shown.

Rules for moving: A piece is allowed to slide, fly or flip over to a new position. Only one piece may be moved at a time.

START

FINISH

Designed by Dick Hess and made by Walt and Chris Hoppe 2010.
(wood pieces in a cardboard box 5.3" x 3.8" x 7/8")

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# Stumbling Block Solution Sheets

Twenty-five problems are presented in approximate order of difficulty. Problems 1-4 are on reduced boards and are intended for warm-up. Black cells in the start and finish positions indicate cells that are not to be used. (It may help to tape pieces over these cells while solving.) In many problems the object is to exchange the positions of two congruent tiles. The solution with the least known number of moves is given and is indicated by the sequence of cells exposed from one move to the next.

## Solutions

1. (10 Moves) J MGJK EGFNJ
2. (14 Moves) J KFNJC MKIOM JOEJ
3. (16 Moves) J OGIJM KEMOF JEGIN J
4. (22 Moves) D CKDJM KIAEM NIKEJ DAINK CD
5. (20 Moves) P NAPO EBIEO AKPNC ACOJP
6. (20 Moves) C FAJNP CEMOF JPDIB AFDJC 1GMFD PNJC
7. (23 Moves) A BKCF CENF CEMKJ ALGSC OFA
8. (29 Moves) F KIFIC JGIFM AGEMJ BAIGO MFKBE GKNJ
9. (30 Moves) M FDNKC MFFG NGEMK FJEUG JICFK MDGNN
10. (36 Moves) C AIMOG BFIOM KFPJNQ OFKCO GJMCF NKIMO FBGOM IAC
11. (40 Moves) F BJANJ FAKOM EGSNJ LOCDF HPJGE JMLDK IFMNE KAJBF
12. (42 Moves) F NICFE GAKPC BULDF OPIHC KDOMF HFDLJ MOGEI NPJAJ BF
13. (47 Moves) F BJUMA KONJE GPNFL OICKJ CIGOM FHPJNQ GEJMID LKIFN MEKAJ BF
14. (46 Moves) N GMOLB NPFBE MOGEB CJABJ MFNME JBNIC BEGOM EBAFP NBLOM N
15. (46 Moves) N MOLBN PFABE MOGEB KFBJG QIJFMN KMOGJ BGOMK AFNMM EBLOM N
16. (44 Moves) G OCANJ OBNFI KOMMF KNJGO CJKCN JMKFM OCKIN FBGNI ACOG
17. (42 Moves) D ACKDG OMEKN JGJIN HCKEB GDKJN JGJIN KDBEN OGDKC AD
18. (43 Moves) D ACKDG AKBDA CKDFI NHXCN AHDJB FKXNN GOMFE MOGDK CAD
19. (54 Moves) D ACKDG AKBDA CKDFI NKEMN FAIKM JBEJMN KFJNQ EKKNF DKCAD BKAGD KCAD
20. (64 Moves) D ACKDG AKBDA CKDFI NHEGB JMKIA GJLGH KMEFD LUCHN IGMOM EMCGO KCAD
21. (54 Moves) L PHCL DBJM NPGMP HCKKP GULDJP HKKHJ DLGPK IGMNC HNIMF JBDLF CHPL
22. (54 Moves) D NPCFE MDGAK BJGDJ OFCIN JGEMP FMNJQ EJGPF CJFDFD JBAKGG DOMEF CPND
23. (52 Moves) P OJHAP KMNGM KPACJ OEPDF KNAE JBAIK FDBEO JCGDP FKNGM PCAU OP
24. (68 Moves) P OJHAP KMCNF KPACJ OEJFTK IFGMP NIAEJ EFNFN EJCAE NPJMG FKJBF EOXGP KFGNM KPCL JOP
25. (90 Moves) D CFEMD GAKBJ GNDFC IKMNG EJMKI FNMEG KLMNC JPDFO MPNFD MKCIM LFRNPG MOKIN FGEMK FJEUG JMKIC FNDCG BKAGD MECCD

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