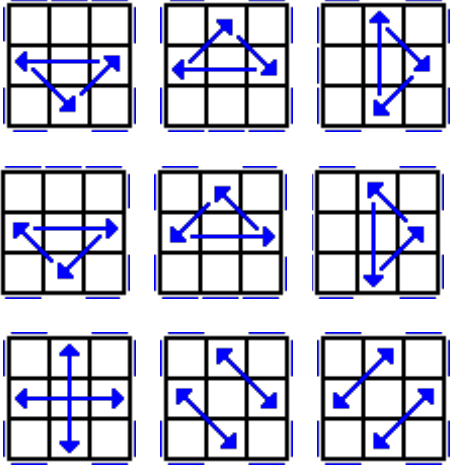
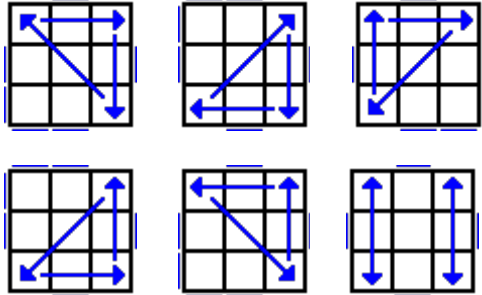
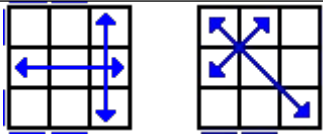
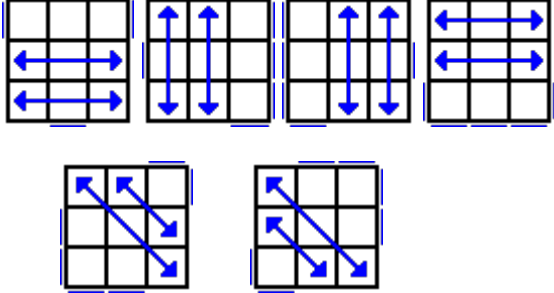
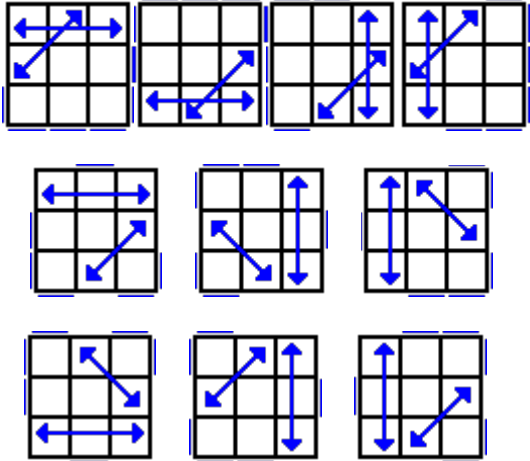
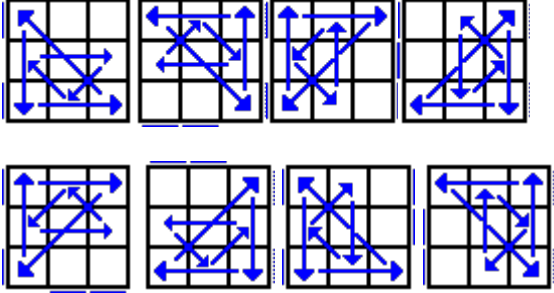
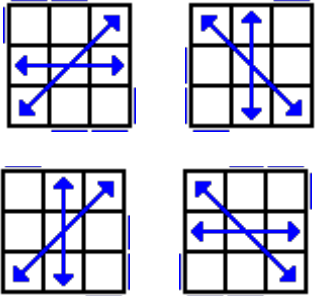


基础 (棱)		01. $(R\ U'\ R)(U\ R\ U\ R)(\underline{U}'\ R'\ \underline{U}'\ R^2)$ $(R'\ U\ R'\ \underline{U}')(R'\ \underline{U}')(R'\ U\ R\ U)R^2$ $(R^2\ U\ R\ U)(R^2\ U')(R'\ U')(R'\ U^2\ R')$ 02. $(R^2\ U)(R\ U\ R'\ U')(R'\ U')(R'\ U\ R')$ $(R^2\ U')(R'\ U'\ R\ U\ R\ U)(R\ \underline{U}'R)$ $(R\ U\ \underline{U}')(R\ U\ R\ U)(R^2\ U')(R'\ U'\ R^2)$ 03. $L^2(I'\ U)L^2(I'\ U^2)L^2(I'\ U)L^2\ I^2$ 04. $(R'\ \underline{U}')(R\ \underline{U}'\ R)(U\ R\ \underline{U}')(R'\ U\ R\ U)(R^2\ \underline{U}')R'$ U^2 $(U\ R'\underline{U}')(R\ \underline{U}'R)(U\ R\ \underline{U}')(R'\ U\ R\ U)(R^2\ \underline{U}')$ $(R'U)$
基础 (角)		05. $(I'\ U\ R')D^2(R\ U'\ R')D^2\ R^2$ $x'\ R^2\ D^2(R'\ \underline{U}'\ R)D^2(R'\ U\ R')$ $x'(\underline{U}'\ R\ U')L^2(U\ R'\ \underline{U}'\ r^2\ D^2)$ 06. $(I\ U'\ R)D^2(R'\ U\ R)D^2\ R^2$ $x\ R^2\ D^2(R\ U\ R')D^2\ (R\ U'\ R)$ 07. $x'(R\ U'\ R'\ D)(R\ U\ R')u^2(R'\ U\ R)D(R'\ \underline{U}'\ R)$ $L\ x'(R\ U\ R')(D\ R'\underline{U}')(r'\ R'\ F)(r\ D'\ z'\ \underline{u}'\ F')$
手法 (1)		08. $(R\ U\ R'\ \underline{U}')(R'\ F)(R^2\ \underline{U}'\ R'\ \underline{U}')(R\ U\ R'\ F')$ 11. $F(R\ U\ R'\ U')(R\ U\ R'\ F')(R\ U\ R'\ U')$ $(R'\ F\ R\ F')$

		09. $(R\ U'\ R'\ U)R^2\ y(R\ U\ R'\ U'\ F'\ d)(R^2\ F)(R\ F')$ $z(R\ U\ R'\ U'\ R\ U'\underline{U})(x'z')(R\ U\ R'\underline{U})x(\underline{U}'R'\underline{U}\ R\ U'\underline{U})$ $\underline{U}'(R'\underline{U}\ R\ U'\ R'^2\ b')(R'\underline{F}\ R)(z\ x)(R\ U\ R'\ \underline{U}'\ R^2)$ $(R'\underline{U}\ \underline{R}\ \underline{U}'R'^2\ F')z(R'\underline{F}\ \underline{R})z'(R\ \underline{U}'\ R'^2)xz'(R'\underline{U}'R)$ 10. $(R'\ U\ R'\ d')x(l'\ U\ R'\ U')(l\ R)(U'\ R'\ U\ R\ U)$ $z(U'\ R\ U'\ l')z(R'\ U\ R'\underline{U}')(l\ R)(U'\ R'\ U\ R\ U)$
手法 (2)		12. $U'(y'z)(U'\ R\ D')(R^2\ U\ R'\ U'\ R^2\ U\ D)$ $z(\underline{U}'\ R\ D')(R^2\ U\ R'\ \underline{U}'\ R^2\ U)z'(R\ U')$ 13. $(R\ U\ R'\underline{F}')(R\ U\ R'\underline{U}')(R'\underline{F}\ R^2\ \underline{U}'R'\underline{U})$ $z\ U(R^2\ U'\ R'\ U)(R^2\ D')(R\ U'\ R'\ D)$ 14. $(R'\ U^2)(R\ U'\underline{U}')(R'\ F\ R\ U\ R'\ \underline{U}')(R'\underline{F}'\ R^2\ \underline{U}')$ $\underline{U}'(R'\ U^2)(R\ U'\underline{U}')(R'\ F\ R\ U\ R'\ U')(R'\underline{F}'\ R^2)$ $(R'^2\ F)(R\ U\ R'\ \underline{U}')(R'\ U)(F'\ R'\ F)\underline{U}'\ F'\ R'$ 15. $(R\ U'\underline{U}')(R'\ U^2)(R\ B'\ R'\ \underline{U}')(R\ U\ R\ B\ R^2\ U)$ $(U\ R\ U'\underline{U}')(R'\ U^2)(R\ B'\ R'\ \underline{U}')(R\ U\ R\ B\ R^2')$ $x'(R'\underline{U}'F')(U\ R'\underline{U}')x(U\ R'\underline{U}')(R'\underline{U}\ l\ U\ R'^2)$

手法 (3)		16. $(R2' \underline{u}' R U')(R U R' u)(R2 f' R' f)$ $r2 U'(xy')(R U')(R U R' u)(R2 f' R' f)$ 17. $(R U R')y'(R2' u' R U')(R' U R' u R2)$ $z(U R U')(z'y)(R2' u' R U')(R' U R' u R2)$ 18. $(R2 u)(R' U R' \underline{U}')(R u')(R2' F' U F)$ $r2 U(z'x')(\underline{U}' R \underline{U}' R' U r')(d' U')(R' F R)$ 19. $(R' d' F)(R2 u)(R' U)(R U' R \underline{u}' R2)$ $(L' U' L)y'(R2 u)(R' U)(R U' R \underline{u}' R2)$
手法 (4)		20. $z(R U R')z'(R U2 L' U R')$ $z(U R')z'(R U2 L' U R')$ $z(R' U R')z'(R U2 \underline{L}' U R')$ $z(U R')z'(R U2 \underline{L}' U R')$ 21. $z(\underline{U}' R D')(R2 U R' \underline{U}')z'(R U R')$ $z(R2 U R')z'(R U')$ $z(\underline{U}' R D')(R2 U R' \underline{U}')z'(R U R')$ $z(R2 U R')z'(R U)$
说明	符号系统: RLUDFB, rludfb(转两层) 如 u 就是上两层顺时针转 90 度 x(整个魔方以 R 的方向转动), y(整个魔方以 U 的方向转动), z(整个魔方以 F 的方向转动), 斜体是用右食指 下划线用左食指	