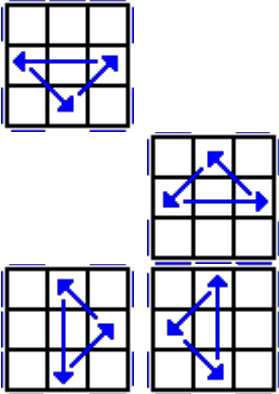
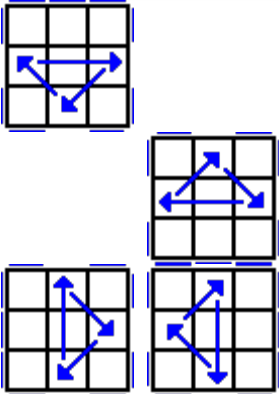
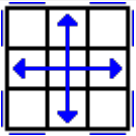
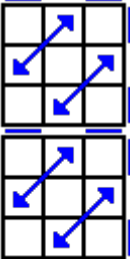
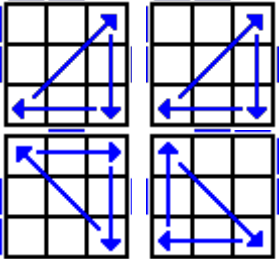
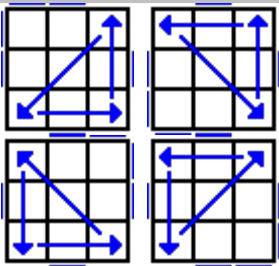
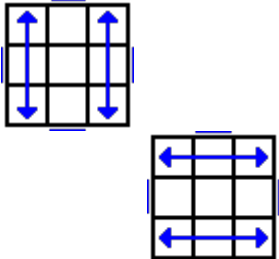
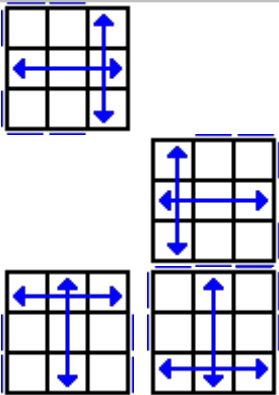
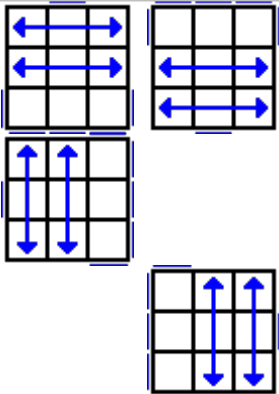
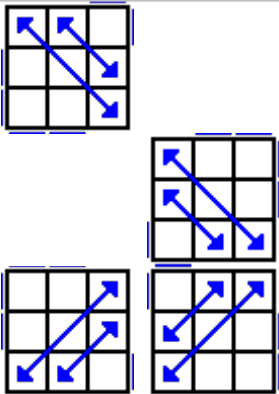
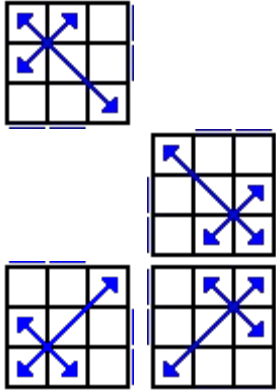
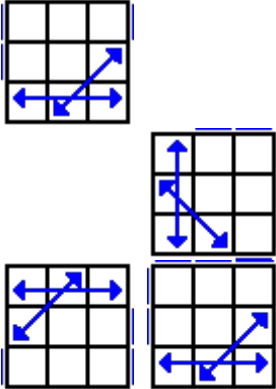
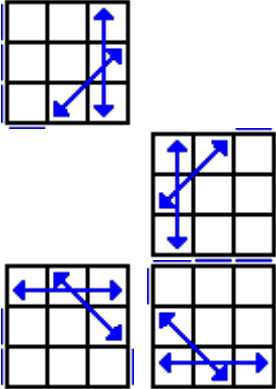
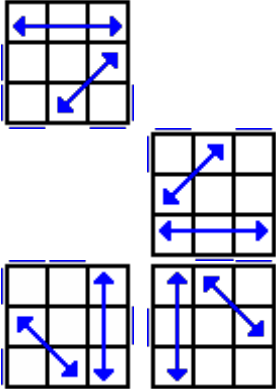
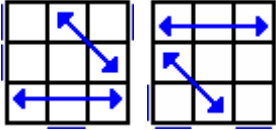
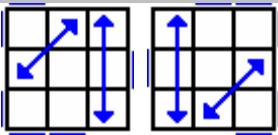
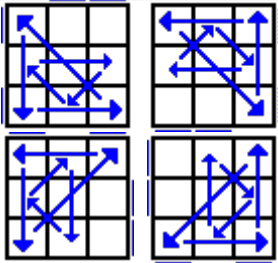
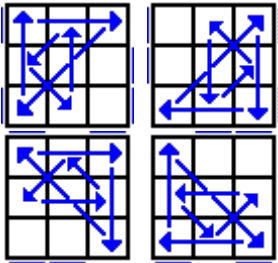
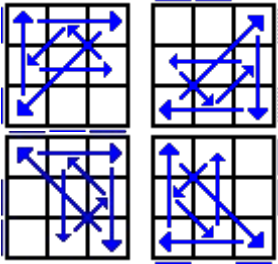
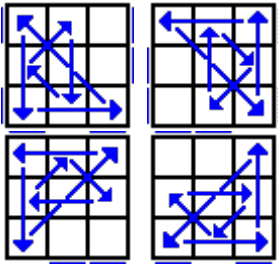
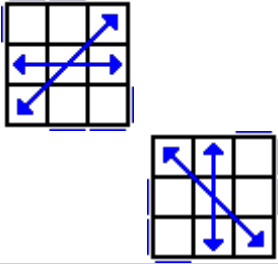


四向PLL

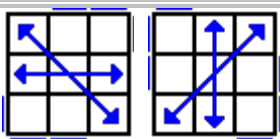
PLL01		1. $(R' U' R)(U R U')(R U' R' U' R^2)$ 2. $(R^2 U')(R' U' R U R U)(R U' R)$ 3. $R^2 U' S' U^2 S U' R^2$ 4. $L^2 U' S U^2 S' U' L^2$
PLL02		1. $(R^2' U)(R U R' U')(R' U')(R' U R')$ 2. $(R' U R' U')(R' U')(R' U)(R U R'^2)$ 3. $R^2 U S' U^2 S U R^2$ 4. $L^2 U S U^2 S' U L^2$
PLL03		$M^2' U M^2' U^2 M^2' U M^2'$
PLL04		1. $(U R' U')(R U' R)(U R U')(R' U R U)(R^2 U')(R' U)$ 2. $(R U R B')(R' B U' R')(f R U R' U' f')$ 或: $x^2 y (M^2 U S^2 U' S M^2 S')$
PLL05		1. $x' R^2 D^2 (R' U' R) D^2 (R' U R')$ (眼睛朝右) 2. $(R U R' F')(r U R' U')(r' F R^2 U' R')$ (眼睛朝左) 3. $x (R' U R') D^2 (R U' R') D^2 R^2$ (眼睛朝上) 4. $z F^2 (R U^2 R' U^2 F^2)(L' U^2 L U^2)$ (眼睛朝下)

PLL06		1. $x'(RU'R) D2 (R'UR) D2 R2$ (眼睛朝下) 2. $x R2 D2 (R U R') D2 (R U' R)$ (眼睛朝右) 3. $z U2(L'U2LF2)(U2RU2R'F2)$(眼睛朝左) 4. $(r U'L)D2(L'UL)D2L2$(眼睛朝上)
PLL07		1. $(R U R')(U R' U' R F')(R U R' U')(R' F R2 U' R'2 U R U')$ 2. $(R2UR'U') Y(RUR'U')2(RUR'F)U'F2$
PLL08		1. $(R U R' U')(R' F)(R2 U' R' U')(R U R' F')$ 2. $(L' U' L U)(L F')(L'2 U L U)(L' U' L F)$ 3. 4.
PLL09		1. $(R'URU'R2)(F'U'F)(URF)(R'F'R2U')$ 2. $(RU'R'U)(RU)(FRUR'U'F')(R'2FRF')$ 3. $z (R U R' U' R U' U') x' z' (R U R' U') x (U' R' U R U' U')$ 4. $(U'R'URU'R'2)(F'U'FUR)x(UR'U'R2)$
PLL10		1. $(R' U R') U'Y(R' F' R2 U')(R' U R' F) R F$ 2. $(L' U L' U') y' (R' F' R2 U')(R' U R' F) R F$ 3. $(L'URU')(LUL'U)(R'U'LU2RU2R')$ 4. $(R'ULU')(RUR'UL'U')(RU2LU2L')$

PLL11		1.(F R U' R' U' R U) y' (R U R' B' R U' R2) 2.(L`U`r)D2(r`ULU)Y(R2U`R`2U`R2) 3.(RUR`F2)(LD`)(L`U`L2D)(L2UF2) 4.(F`L`ULUL`U`)y(L`U`LBL`UL2)
PLL12		1.(R' U2)(R U R') z (R'2U R'D RU') 2.L`U`2LUL`U2RU`LUR`</li> <li>3. x' (R2 u' R' u R2) x' y'( R' U R' U' R2)</li> <li>4.z(U`RD`)(R2UR`U`R2U)z`(RU`)
PLL13		1.(R U R' F')(R U R'U')(R' F R2 U' R'U')或: RU2R`U`RU`2L`UR`U`L 2. z U D (R'2 U' R' U) (R2 D') (R U'R`)</li> <li>3. z U R' D R'2 U' R U R2 U' D'R</li> <li>4.z`UL`D(L`2U`LUL`2U`)z(L`U)
PLL14		1.(R' U2)(R U' U')(R' F R U R'U')(R'F'R2 U') 2.(L`U2LU`2)(L`U`L)Y`(RUR`U`)Y(LF`L`F) 3.(R'2 F R U R U')(R' F') (R U' U' R' U2 R) 4. (R'2 F)(R U R' U')(R' U)(F' R' F)U' F' R'
PLL15		1. (RU`2R`U2)(RUR`)Y(L`U`LU)Y`(R`FRF`) 2. (L U'2) (L' U'2) (L F' L' U' L U) (LFL`2U)</li> <li>3. (R2 B')(R' U') (R' U R B)( R' U2 R U' U` R'U`)

		4. $x' (R' U' F')(U R' U') x (U R' U')(R' U R B R'2)$
PLL16		1. $(R2' u' R U' R)(U R' u R2) y(R U' R')($ 眼睛朝左) 2. $x (R' U2) L' (U R U') x' (U' L U) x (U R' U R)$ (眼睛朝右) 3. $(F2'D')(LU'LUL'D)(F2RU'R')$ (眼睛朝上) 4. $(L'R'U2LR)Y(LU'RU2L'UR'U2)$ (眼睛朝下)
PLL17		1. $(R U R')y'(R2' u' R U')(R' U R' u R2)$ (眼睛朝左) 2. $(L U L') y (R'2 u' R U') (R' U R') u R2$ (眼睛朝右) 3. $(R'F'RF')(U'L'UF)(R'F'LF2R)$ (眼睛朝上) 4. $(LU'RU2L'UR')Y(R'L'U2RLU2)$ (眼睛朝下)
PLL18		1. $(R2 u)(R' U R' U')(R u)y'(R' U R)$ (眼睛朝左) 2. $r2 U z' x' (U' R U' R' U r') (d' U') (R' F R)$ (眼睛朝右) 3. $(F2'D)(R'UR'U'R)(D'F2)(L'UL)$ (眼睛朝上) 4. $(RLU2R'L')Y(R'UL'U2RU'LU2)$ (眼睛朝下)
PLL19		1. $(R' d' F)(R2 u)(R' U)(R U' R u' R2)$ (眼睛朝左) 2. $(L' U' L)y'(R2 u)(R' U)(R U' R u' R2)$ (眼睛朝右) 3. $(LFL'F)(URU'F')(LFR'F2L')$ (眼睛朝上) 4. $(R'UL'U2RU'L)Y(RLU2L'R'U2)$ (眼睛朝下)
PLL20		1. $(F' R U R' U')(R' F R2)(F U' R' U' RU)F' R'$ 2. $z(R'UR'DR'2U')(RUD'R'D)(R'2U'RD')$

PLL21



1. $(R' U R U') (R' F U' F) (R U R' U' RU') Y (RUR')$

2. $z(U'RD')$

$(R^2UR'U')z'(RUR')z(R^2UR')z'(RU')$