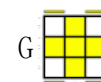
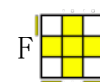
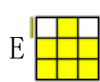
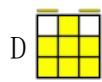
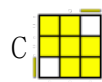
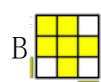
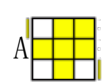


COLL观察
翻角

换角

1



2



3



4



5



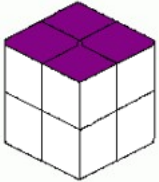
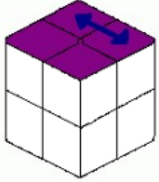
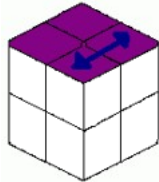
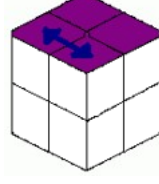
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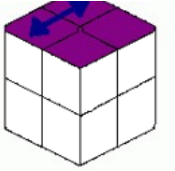
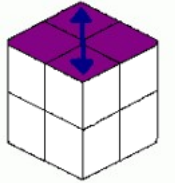


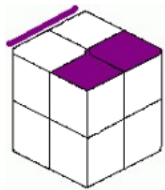
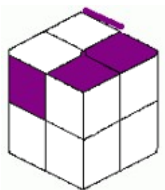
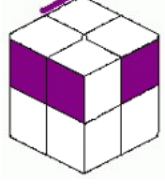
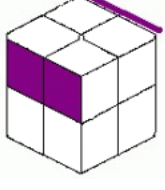
简单说明-
先按图片自
会发现F和
非顶面的
格子来判断
解释清楚

PLL XLL观察略

一下COLL观察法。首先
内方向摆好二阶，你
IU面仅有四个格子是
颜色，就是靠这四个
断角块位置。（不知
是否有）

Orientation case $\longrightarrow$						
Permutation case 1 A layer complete. 2 A connect pair. (on the B-side) 3 No pairs connected. $\downarrow$		1	2	3	4	
A		1		$RU' 2R' U' RU' R' (7f)$	$R' F2RUR' FR (7f)$	$(U') R2U' RU2R' U2RU' R2 (9f)$
		2	$(x) RU' RU2R' FRU2R2 (9f)$	$(U' x) URU2R2F2U2RUR' (9f)$	$(U) R2U' RU2R2F' U' F (8f)$	$(U) R2UFU2R' URU' B (9f)$
		3	$RU' RUR' F2R' U' R' UF2 (11f)$	$(z') U2R' UR' F2UR' FR2B (10f)$	$R' F2U' FU2F' U' F2U' R (10f)$	$(x') U' R' FU' RU2F' RUR' (10f)$
B		1	$(x') RU' RU2R' FRU2R2 (9f)$	$(U) R' FRF' RUR' (7f)$	$(U') RU' L' UR' U' L (7f)$	$(U') F' RUR' U' R' FR (8f)$
		2	$(U2) R2UF2U' 2R2UR2 (7f)$	$R' URF2U2F' UF2R2 (9f)$	$R' FR' F2R' U' F2R2FB (10f)$	$R' U2R' F' R2xU' R' U$
		3	$R' FR' F2RU' R (7f)$	$(x) R' UR' UF2R2U' B2R2U' (10f)$	$(U) RU2R' F2R' UR' F (8f)$	$(U') R2FU2FRUR2U' R (9f)$
C		1	$RU2R' U' RU2L' UR' U' R (11f)$	$(U') R2FRU2F' U2R' F' R2 (9f)$	$(U') R' F2RU2RU' R' F (8f)$	$(U') R' F2R2U2R' UR' F2RF' (10f)$
		2	$(U) R2UF2U' 2R2UR2 (7f)$	$R' U' R' F' UF2R2U' R' (9f)$	$(U) R' FU2R2BU' (6f)$	$FU' RU' R' U' F2R' FR (10f)$
		3	$(U') R' FR' F2RU' R (7f)$	$(U2) RUR' UF2R' UR' F (9f)$	$(x) U2R' U2FU' FUL (8f)$	$(U') B' U2R' URU2B' R2F2$
D		1	$(U') RU2R' U' RU2L' UR' U' R (11f)$	$(U) F' RUR' U2R' F2R (8f)$	$(U') FR' F' RU' 2RU2R' (8f)$	$RU' R' U2F2U' F' DRU' R$
		2	$R2UF2U' 2R2UR2 (7f)$	$(z') U' R' F2U' F2U2RF'$	$(U2) RU' R' F2U2FU' F2 (8f)$	$(z') R2URU' R2U' F' U' F2 (9f)$
		3	$R' UR' F2RF' R (7f)$	$(x) F' L' U' FU' R2BR2 (8f)$	$(U') RU' R' UR2FU' FUR' (10f)$	$(U') RU2R' U2F' U' FR2F2B2 (10f)$
		1	$(U' x) URU2R2F2U2RUR' (9f)$	$(U) RU' 2R' U' 2R' FRF' (8f)$	$(U') R2FRU2FU2R' F' R2 (9f)$	$(U2x') UR' U' LURU' R' (8f)$

E		1	$(U\ X)\ RU\ RU\ Z\ R\ FRU\ Z\ R\ Z\ (9f)$	$(U)\ RU\ Z\ R\ U\ Z\ R\ FR\ F\ (8f)$	$(U)\ R\ Z\ FRU\ Z\ FU\ Z\ R\ F\ R\ Z\ (9f)$	$(U\ Z\ X)\ RU\ R\ U\ LURU\ R\ (8f)$
		2	$(U')\ R\ U\ F\ U\ F\ U'\ 2R\ U\ R\ 2\ (7f)$	$(Z')\ RU'\ R\ U'\ RU\ U\ F\ U\ Z\ R'\ F\ 2\ R\ (9f)$	$(U\ 2)\ R\ U\ F\ U'\ RU'\ RU'\ B\ 2\ (8f)$	$R'\ U\ 2\ F\ 2\ R'\ F\ DRU'\ R\ (9f)$
		3	$(U')\ R'\ UR'\ F\ 2\ R\ F'\ R\ (7f)$	$(X)\ R\ 2\ U'\ R\ 2\ U'\ FRU\ 2\ R'\ F\ (9f)$	$(U')\ R'\ UR'\ FR\ 2\ U'\ BU'\ B'\ (9f)$	$(U\ 2)\ R'\ U\ 2\ F\ U'\ F'\ U\ 2\ F'\ R\ (8f)$
F		1	$RU'\ R'\ U'\ F\ 2\ U'\ RUR'\ U\ F\ 2\ (11f)$	$(U')\ R\ U\ 2\ R'\ FR'\ F'\ RU'\ R\ U'\ R'\ (11f)$	$(U')\ F'\ RU\ 2\ R'\ FU\ 2\ F'\ U'\ F\ 2\ (9f)$	$(U)\ RU\ 2\ R'\ FRU\ 2\ R\ 2\ FR\ (9f)$
		2	$(Z\ 2)\ R'\ UR'\ F\ 2\ R\ F'\ R\ (7f)$	$(Y'\ U)\ R\ 2\ UR\ 2\ U'\ RU\ 2\ R'\ U'\ RUR'\ (11f)$	$(Y')\ RU'\ R'\ URU\ 2\ R'\ UR\ 2\ U'\ R\ 2\ (11f)$	$F'\ U'\ RU\ 2\ RUR'\ F\ 2\ (8f)$
		3	$R\ 2\ F\ 2\ R\ 2\ (3f)$	$(U')\ R'\ U'\ RU'\ R'\ U'\ 2\ R'\ F\ 2\ R\ 2\ (9f)$	$R'\ F\ 2\ RUR'\ FR'\ F\ 2\ R\ 2\ (9f)$	$RU\ 2\ R'\ U\ 2\ F\ 2\ R\ 2\ BR'\ U\ (9f)$

5		6		7		8	
RUR' FU' RU' R' U2F2 (10f)	R' F2U2RUR' UF' R (9f)	(U) FRUR' U' RUR' U' F' (9f)	R2U2RU2R2 (5f)				
R' FUF' R2URU2R2F (10f)	R' FU' F' R2U' B2U2R' F' (10f)	(x) URU2RU2F2R' F' R2 (9f)	RU' RF' R' FR2F (8f)				
FRUR' U' FR' 2F2 (8f)	F2RU' R' FU' R2B2R' (9f)	RU' R2U' F2R' U2R' F (9f)	F2RU2R2F2R' F2 (7f)				
RU' R' U2R' FRF2U2F (10f)	(U2) R' F' RURU' R' F (8f)	(U') R' F2U2y' R' U2RU2RB (9f)	(U2) RU' R' FU2R2FRU' R (10f)				
(U2) F2U' FU2FRUR' (8f)	(U2) R' U2FRF' R' FU' R' (9f)	RU' R' URU' R' FRU' R' (11f)	(U) R' U' R' F2UF' RF' (8f)				
(x) R2U2R' FU' R' U' R' F (9f)	FU' R2U' R' UR2F' (8f)	R' UF' RUR' U2F2R (9f)	(U2) R' U2R' FR2FR2UF' (9f)				
FU' RUR' U' F' U2y' RU' R' (11f)	R' F2R' F2RU2R' F2R2 (9f)	RU2R2FRU2y' R' U' R2U' R' (11f)	(U2) R' U' F2U' F2UF2U2R (9f)				
RU' R' FRU' R2FR (9f)	RU2R2FR' FU' F' R2 (9f)	R2U' R2U' FR2F2U' RF (10f)	(U2) RUR' F' RUR' U' RUR' (11f)				
(x) RU' RBU2R' FR' FD (10f)	R' U' F2U2F' U' FU' FR (10f)	RU2R' UR2F2R' U' R' (9f)	R' F2U2RU' R' FU' R (9f)				
(U2) R' FU' F' RU' R' U2FR (10f)	RUR' U' R' FRF' (8f)	(U') R' UR' F' R2U2F' RUR' (10f)	RU' R' FU2R2FRU' R (10f)				
(U2) R' FRU' F2D' LU' R (9f)	R2FR' U' R2U' FR (8f)	(x) UR' U2RUF2U' FRU' (10f)	(U') R' U' R' F2UF' RF' (8f)				
FU' F' R' U2RU2R' F2R (10f)	FRUFU2FU2R' F2 (9f)	R2URUF2R' UR' UF' (10f)	R' U2R' FR2FR2UF' (9f)				
(U') D' U2F' DU' D' DU2F2 (10f)	(x) DU2F2 U' DU2F' U' DU' U' D (11f)	(U') D' F2DU2F2DU' D2F' DU2 (11f)	D' U' DU2F' DU2F2DU2F (9f)				

(U)R UZF RU R FUZF R(101)	(Z)RUZR U RUZL UR U R(111)	(U)R FZRUZR RUZF RU F(111)	R U FZU FZUFZUZK(91)
FRU2R' F2RU2R' F' (9f)	F' RU2R' F' U2RUR' (9f)	(x)R' U2RU' FRF' UF2U' (10f)	RUR' F' RUR' U' RUR' (11f)
R' U' R' F2R2U2R' FR(9f)	R' F2R' F2RU2R (7f)	RUR' UR2F2R' U2R' (9f)	(U2)R' F2U2RU' R' FU' R(9f)
FRUR' U' F' (6f)	(U2)R2U2RU2R' FRF' U' R' (10f)	(U')F2R2U' R2FU2FR2U' R2(10f)	(y' x')R2UF2U' 2R2UR2(7f)
(y')R2U' R' U2R' U' 2R' (7f)	R' FR2U' FU2F' R' (8f)	RU' R2FR2U' R' (7f)	R2UR' U' RF2U' RUR(10f)
FU' R2U' R' U2R' U' R2B' (10f)	R' FR' FU' FUR2(8f)	UR' U2R2U' R' F2R2F' (9f)	R2F2U2RU2R2(6f)

Clown QQ:1044243327
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2009. 11. 1