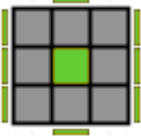
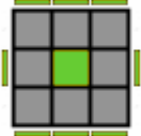
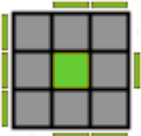
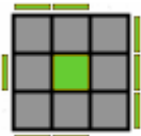


【OLL手法】 作者：张砷镓 2009. 12. 17

编号	CASE	公式	时间
1		$(R\ U)\ \underline{B}'\ (R\ B\ R'^2)\ \underline{U}'\ (R'\ F\ R\ F')$	1.4s
		$U'\ (R\ U)\ \underline{B}'\ (R\ B\ R'^2)\ \underline{U}'\ (R'\ F\ R\ F')$	1.5s
		$F\ (R\ U\ R'\ \underline{U}')\ F'\ f\ (R\ U\ R'\ \underline{U}')\ f'$	1.3s
2		$(U\ r'\ \underline{U}'\ r\ U'\underline{U}')\ (R'\ U^2\ R\ U'\underline{U}')\ (r'\ U\ r)$	1.4s
		$f\ (R\ U\ R'\ \underline{U}')\ f'\ \underline{U}'\ F\ (R\ U\ R'\ \underline{U}')\ F'$	1.6s
		$F\ (U\ R\ \underline{U}'\ R')\ F'\ U\ F\ (R\ U\ R'\ \underline{U}')\ F'$	1.7s
4		$f\ (R\ U\ R'\ \underline{U}')\ y\ x\ R'\ F\ (R\ U\ R'\ \underline{U}')\ F'$	1.7s



$F (U R \underline{U}' R') F' U' F (R U R' \underline{U}') F'$

1.5s

5



$(r' R U) (R U R' \underline{U}') r (R'^2 F R F')$

1.5s



$F (U R \underline{U}' R'^2 F') \underline{U}' F (U R \underline{U}') F'$

1.7s

6



$F (R U R') (U y') (R' U^2) (R' F R F')$

1.5s



$F (R' F' R) (U R \underline{U}' R' U) F (R U R' \underline{U}') F'$

1.6s

7



$(R U R' U)(R' F R F') U^2 (R' F R F')$

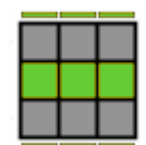
1.7s



$F (U R' \underline{U}' F') U (F R^2) (U R' \underline{U}') F'$

1.8s

8



$R' F (U R \underline{U}' R'^2 \underline{F}' R^2) (U R' \underline{U}' R)$

1.6s



$U' R' F (U R \underline{U}' R'^2 \underline{F}' R^2) (U R' \underline{U}' R)$

1.7s

9


 $(R' \underline{U}' R \underline{U}') (R' U) y' (R' U R B)$

1.1s


 $(L' \underline{U}' L) \underline{U}' (r' F \underline{U}' F) U r$

1.2s

10


 $f (R U R' \underline{U}') * 2 f$

1.0s


 $F (U R \underline{U}' R') * 2 F'$

1.1s

11


 $F (R U R' \underline{U}') (R F) (r U R' \underline{U}' r')$

1.3s


 $(\underline{U}' r U r') (U R \underline{U}' R') * 2 (r \underline{U}' r')$

1.3s

12


 $F (R U R' \underline{U}') * 2 F'$

0.8s

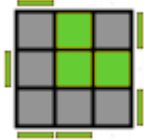
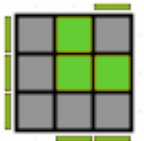
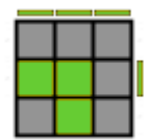
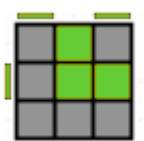
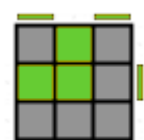
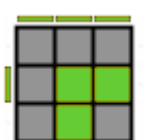

 $f (U R \underline{U}' R') * 2 f$

1.1s

13


 $B' (R' \underline{U}' R U) * 2 B$

1.2s

		$I' \underline{B}' (R' U R \underline{U}')^2 B I$	1.2s
14		$(I \underline{U}') (I'^2 U) (I^2 U I'^2) \underline{U}' I$	1.2s
		$(r \underline{U'U'}) (R^2' \underline{U}' R^2 \underline{U}' r') (R' U^2 R)$	1.3s
15		$(r' U) (r^2 \underline{U}') (r'^2 \underline{U}' r^2) U r'$	1.1s
		$(R' F) (R^2 B') (R^2 F') (R^2 B R')$	1.3s
16		$(r' U^2) (R U R' \underline{U}') (R U R' U) r$	1.3s
		$(U r' \underline{U}') (R \underline{U}' R' U R \underline{U}' R') (U' \underline{U}' r)$	1.3s
17		$(r \underline{U'U'}) (R' \underline{U}') (R U R' \underline{U}') (R U' r')$	1.3s
		$\underline{U}' (r U R' U) (R \underline{U}' R' U) (R \underline{U'U}' r')$	1.3s

18



$(R \ U \ R' \ \underline{U}') (R' \ F \ R^2) (U \ R' \ \underline{U}') F$

1.3s



$(L' \ \underline{U}' \ L) y' (L \ \underline{F}' \ L' \ U) (r \ U \ r')$

1.4s

19



$(R \ U \ R' \ U) (R' \ F \ R \ F') (R \ \underline{U}' \underline{U}' \ R')$

1.3s



$f (U \ R' \ F \ R \ F') (R \ \underline{U}' \ R' \ f)$

1.3s

20



$(r \ \underline{U}' \underline{U}') (R' \ \underline{U}' \ R \ \underline{U}' \ r')$

0.8s



$(I \ \underline{U}' \underline{U}') (L' \ \underline{U}' \ L \ \underline{U}' \ I')$

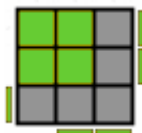
0.9s

21



$(r' \ U^2) (R \ U \ R' \ U) r$

0.8s



$(I' \ U^2) (L \ U \ L' \ U) I$

0.8s

22



$(r \ U \ R' \ U) (R \ \underline{U}' \underline{U}' \ r')$

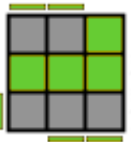
0.9s

		$(I\ U\ L'\ U)\ (L\ U'\underline{U}\ I')$	0.9s
23		$(r'\ \underline{U}'\ R\ \underline{U}')\ (R'\ U^2\ r)$	0.9s
		$(R'\ F')\ (L\ \underline{F}'\ L')\ (F^2\ R)$	0.9s
24		$(r\ R'^2\ \underline{U}'\ R\ \underline{U}')\ (R'\ U^2\ R\ \underline{U}'\ R)\ r'$	1.4s
		$(F\ R\ U)\ (R'^2\ F\ R)\ y'\ (R'^2\ U\ R\ U'\underline{U}'\ R')$	1.5s
25		$r'\ (R^2\ U\ R'\ U)\ (R\ U'\underline{U}'\ R'\ U\ R')\ r$	1.3s
		$(r\ U\ R')\ (U\ R'\ F\ R\ F')\ (R\ U'\underline{U}'\ r')$	1.4s
26		$(R'\ F\ R\ U\ R'\ F'\ R)\ (F\ U'\ F')$	1.1s
		$(r'\ U)\ (r\ U\ r'\ d')\ f\ (R\ \underline{U}'\ R')$	1.3s

27


 $F (U R \underline{U}' R^2 F) (R U R \underline{U}' R')$

1.1s


 $f (R U R^2 U' R' U R \underline{U}') f$

1.3s

28


 $(r U r') (R U R' \underline{U}') (r \underline{U}' r')$

0.9s


 $(R B R') (L U L' \underline{U}') (l \underline{U}' l')$

1.3s

29

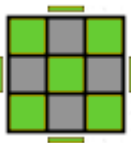

 $(r' \underline{U}' r) (R' \underline{U}' R U) (r' U r)$

1.0s


 $(R' F R) (L' \underline{U}' L U) (R' F R)$

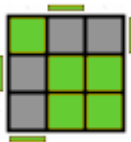
1.2s

30


 $(r' R U) (R U R' \underline{U}') (r^2 R'^2 U) (R \underline{U}' r')$

1.5s

31


 $(R U' \underline{U}') (R'^2 F R F) (R U' \underline{U}' R')$

1.2s


 $(L U' \underline{U}') (L' r' U) (L \underline{U}' r) (U' \underline{U}' L')$

1.4s

32


 $F (R \underline{U}' R' \underline{U}' R U R') F'$

0.8s


 $x (U r \underline{U}') (r' F') (r U r' \underline{U}')$

1.0s

33


 $(R U R' U) (R U' R' \underline{U}') (R' F R F')$

1.1s


 $(L U L' U) (L \underline{U}' r' F') (L' U L \underline{U}')$

1.3s

34


 $(R' \underline{U}' R \underline{U}' R' U) (R U \underline{U}' R' U)$

1.2s


 $(L' \underline{U}') (L \underline{U}' L' U L U r \underline{U}' r' F)$

1.3s

35


 $(R U) B' \underline{U}' (R' U R B R')$

1.0s


 $L U F' (\underline{U}' L' U) (r U r')$

1.2s

36


 $R' \underline{U}' F (U R \underline{U}') (R' F' R)$

1.1s



$(r' F U F) (r \underline{U}' r' \underline{U}' r)$

1.2s

37



$f (R U R' \underline{U}') f$

0.5s



$F (U R \underline{U}' R)' F$

0.7s

38



$F' (\underline{U}' L' U L) F$

0.7s



$B' (\underline{U}' R' U R B)$

0.7s

39



$(R U R' \underline{U}') (R U' R' F' \underline{U}' F) (R U R')$

1.3s



$U' (R' F R F') (R U' \underline{U}' R' \underline{U}') (F' \underline{U}' F)$

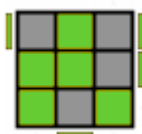
1.5s

40



$f (R U) (R^2 \underline{U}' R' U) (R^2 \underline{U}' R') f$

1.3s



$F U (R U' \underline{U}' R' \underline{U}')^2 F$

1.5s

41


 $(R \underline{U}' R' U^2 R U) y (R \underline{U}' R' \underline{U}') F'$

1.4s


 $(R U R' U) (R \underline{U}' \underline{U}') (R' F) (R U R' \underline{U}') F'$

1.2s

42


 $(R' U R \underline{U}' \underline{U}' R' \underline{U}' F' U) F (U R)$

1.5s


 $(R' \underline{U}' R \underline{U}' R' U^2 R) F (R U R' \underline{U}') F'$

1.5s

43


 $(R' F R U R' \underline{U}' F') U R$

0.9s


 $(r' U) (r U r' F' \underline{U}' F) r$

1.1s

44


 $(r \underline{U}' r' \underline{U}' r) y (R U R' f')$

1.0s


 $(R B' R' \underline{U}' R U) B \underline{U}' R'$

1.3s

45


 $(R' \underline{U}') (R' F R F') U R$

0.8s



$(r' F) (L' U L \underline{U}') F r$

1.1s

46



$(R' \underline{U}' R U) y (r U R' \underline{U}' R) r'$

1.1s



$(R U) (R^2 \underline{U}') (R' F R U R \underline{U}') F'$

1.2s

47



$F (R U R' \underline{U}') F'$

0.4s



$f (U R \underline{U}' R') f'$

0.7s

48



$(R U R' \underline{U}') (R' F R F')$

0.6s



$(L' \underline{U}' L U) (r \underline{U}' r' F)$

0.8s

49



$(R \underline{U'U'}) (R'^2 \underline{U}') (R^2 \underline{U}' R'^2) U^2 R$

1.1s



$(L' U^2) (L^2 U) (L'^2 U L^2 U^2 L')$

1.4s

50

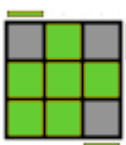

 $(R \ U' \underline{U}' \ R' \ \underline{U}') \ (R \ U \ R' \ \underline{U}' \ R \ \underline{U}' \ R')$

0.9s


 $U' \ (R \ U' \underline{U}' \ R' \ \underline{U}') \ (R \ U \ R' \ \underline{U}' \ R \ \underline{U}' \ R')$

1.0s

51


 $(R \ U \ R' \ U) \ (R \ U' \underline{U}' \ R')$

0.7s


 $(L \ U \ L' \ U) \ (L \ U^2 \ L')$

0.7s

52


 $(R \ U' \underline{U}') \ (R' \ \underline{U}' \ R \ \underline{U}' \ R')$

0.6s


 $(L \ U^2) \ (L' \ \underline{U}' \ L \ \underline{U}' \ L')$

0.9s

53


 $(R \ U \ R' \ \underline{U}') \ (r \ R' \ U \ R \ \underline{U}' \ r')$

0.8s


 $U' \ (R \ U \ R' \ \underline{U}') \ (r \ R' \ U \ R \ \underline{U}' \ r')$

0.9s

54


 $(r \ U \ R' \ \underline{U}') \ (r' \ R \ U \ R \ \underline{U}' \ R')$

0.8s



$(l\ U\ L'\ \underline{U'})\ (r\ R'\ U)\ (L\ \underline{U'}\ L')$

1.0s

55



$(R^2\ D')\ (R\ U'\underline{U'})\ (R'\ D)\ (R\ U'\underline{U'}\ R)$

1.2s



$(R^2\ D)\ (R'\ U^2)\ (R\ D')\ (R'\ U^2\ R')$

1.3s

56



$(r\ U\ R'\ \underline{U'})\ (r'\ F\ R\ F)$

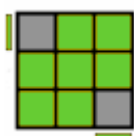
0.8s



$(R'\ F)\ (r\ U\ R\ \underline{U'})\ (r'\ F)$

0.9s

57



$F\ (r\ U\ R'\ \underline{U'})\ (r'\ F\ R)$

0.8s



$(r\ U\ R\ \underline{U'})\ L'\ (U\ R'\ \underline{U'})$

1.0s

