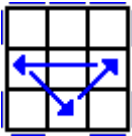
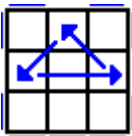
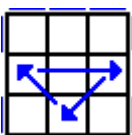
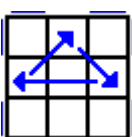
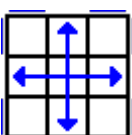
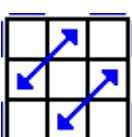
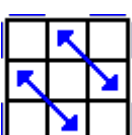
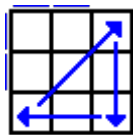
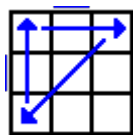


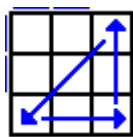
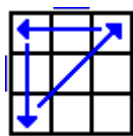
【来去英雄传】 作者：张砷镓 2009. 2. 25

编号	CASE	公式
1		$(R \underline{U}' R) U (R U R \underline{U}' R' \underline{U}' R^2)$
		$(R'^2 U' R' U') (R U R) U (R U' R)$
		$(R'^2 U) (R U R' \underline{U}') (R' \underline{U}') (R' U R')$
2		$(R' U R' \underline{U}') (R' \underline{U}') (R' U R) U R^2$
		$(L r l' R' U) (L r l' R' U^2) (L r l' R' U) L r l' R'$
3		$x' (R \underline{U}' R' U) D (R' \underline{U}' D) (R' U R) D^2$
		$(R U) (l \underline{U}' R' U) x (\underline{U}' R' f) (R U R' \underline{U}') f$

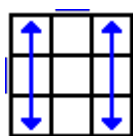
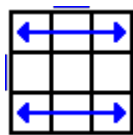
5


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

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

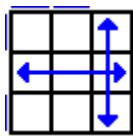
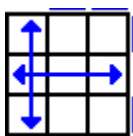
6


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

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

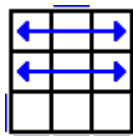
7

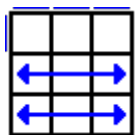

 $z' (R' F R^2) (U R' B' R \underline{U}') (R'^2 F') R U z x' U I'$

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

8


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

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

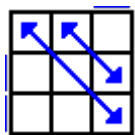
9


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

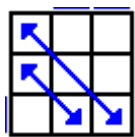


$(R' U^2 R') d' (R' F R^2 \underline{U}' R' U R' F R) \underline{U}' F$

10

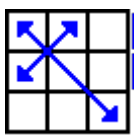


$(R' U R') d' (R' F R^2) (\underline{U}' R' U R' F R) F$

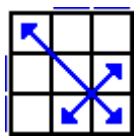


$(R \underline{U}') L' (U R' \underline{U}' R U') L (U R' z) (R^2 \underline{U}' R^2 U)$

11

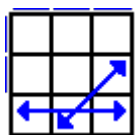


$F (R \underline{U}' R' \underline{U}') (R U R') F (R U R' \underline{U}') (R' F R F)$

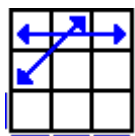


$(L' \underline{U}' r) D^2 (r' U L U) y (R^2 \underline{U}' R^2' \underline{U}' R^2)$

12

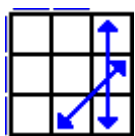


$L' (U R' z) (R^2 U R' \underline{U}' R^2) U D$

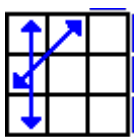


$x' (R^2 \underline{u}' R' u) R^2 x' y' (R' U R' \underline{U}' R^2)$

13

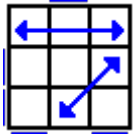


$(R U R') F (R U R' \underline{U}') (R' F R^2) \underline{U}' R'$

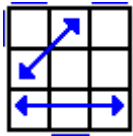


$z U D (R^2 \underline{U}' R' U) (R^2 D') (R U')$

14

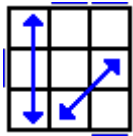


$$(R' U^2) (R \underline{U' U'}) (R' F) (R U R' \underline{U'}) R' F R^2$$

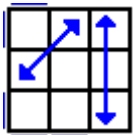


$$(r' F^2) (r \underline{U' U'}) (r' U r) U (L' \underline{U'} r' \underline{U'}) L r$$

15

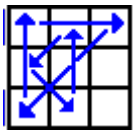


$$x' (R' \underline{U'} F) (U R' \underline{U'}) x (U R' \underline{U'}) (R' U I U I' R')$$

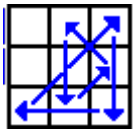


$$(R'^2 B') (R' \underline{U'}) (R' U I U I') (\underline{U' U'} R \underline{U' U'} R')$$

16

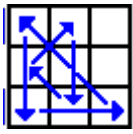


$$(R U R') y' (R'^2 \underline{u'} R U') (R' U R') u R^2$$

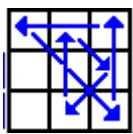


$$(L U L') y (R'^2 \underline{u'} R U') (R' U R') u R^2$$

17

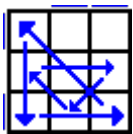


$$(R' d' F) (R^2 u) (R' U R \underline{U'}) (R u' R'^2)$$

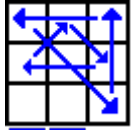


$$(L' \underline{U'} L) y' (R^2 u) (R' U R \underline{U'}) (R u' R'^2)$$

18

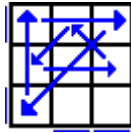


$$(R'^2 \underline{u'}) (R U') (R U R') u (R'^2 f R' f')$$

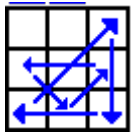


$x (R' U^2) L' (U R \underline{U}') x' (\underline{U}' L U) x (U R' U R)$

19

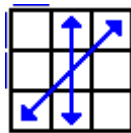


$(R^2 u) (R' U R' U') (R u') (R'^2 b' R b)$



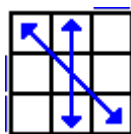
$x' (R U' \underline{U}') (L \underline{U}' R' U) x (U r' F') (\underline{U}' R \underline{U}' R')$

20



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

21



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

时间

1.0s

1.1s

1.1s

1.1s

1.4s

1.5s

1.5s

1.1s

1.6s

1.1s

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1.5s

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