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## Pyraminx V first algorithms

### V first / L4E (Last 4 Edges)

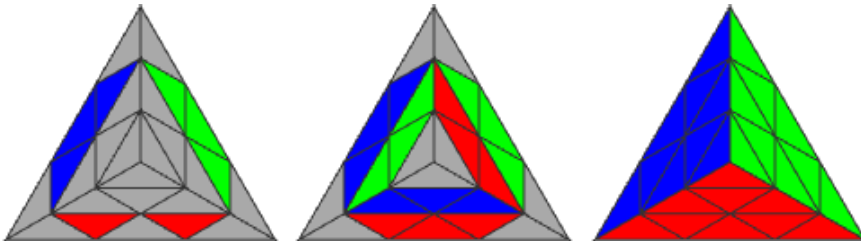
In V first method, we first solve one layer except for one edge, this is done intuitively.

Then we apply an algorithm to solve last 4 edges together. To reduce algorithm count, we allow the top layer to be misaligned with bottom layer.

Eventually, we do top layer AUF and tips.

This method is also known as L4E (last 4 edges).

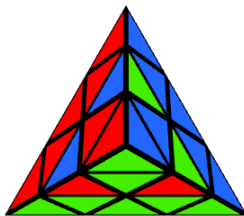
We present all the L4E algorithms here.



### L4E Algorithms

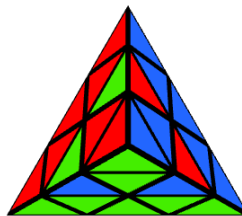
Tips: you may drag those pyraminx visualization in case the hidden sticker on the bottom is unclear at bird eye view.

DS2



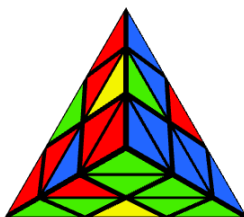
$(R' U' R') U' (R' U' R')$

DS3



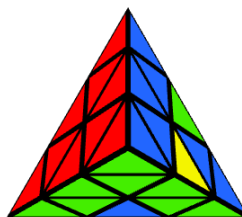
$(L' U' L) U (L' U' L)$

DS4



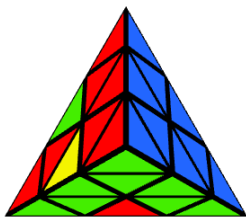
$(R' L R L') U (L' U' L)$

DS5

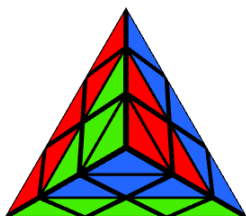


$L (U R U' R') L'$

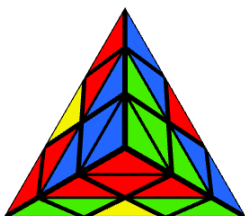
DS6

 $R' (U' L' U L) R$ 

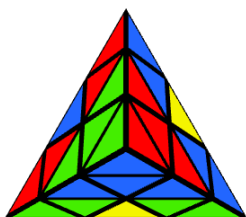
DF1



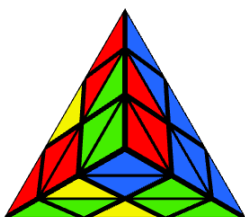
DF2

 $(R' L R L') U (R' L R L') U (R' L R L')$  $(L R' L' R) U (L R' L' R)$ 

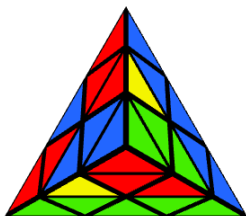
DF3



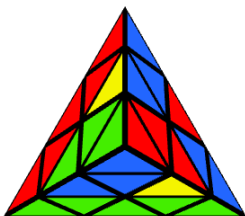
DF4

 $(R' L R L') U' (R' L R L')$  $(R' L R L') (R U' R')$ 

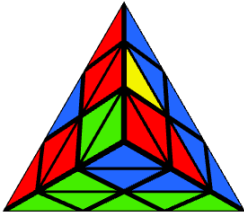
DF5



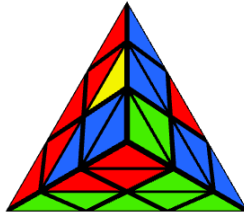
DF6

 $(R U' R') (L' U' L)$  $(L' U L) (R U R')$

US1



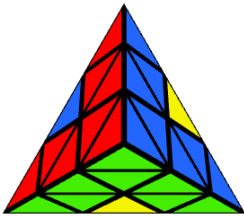
US2



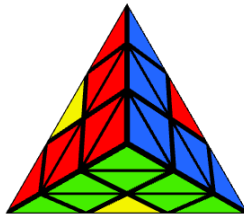
L' U' L

R U R'

US3



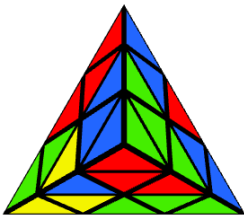
US4



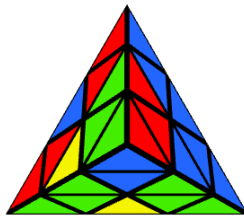
L R' L' R

R' L R L'

US5



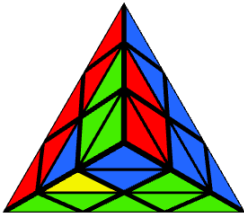
US6



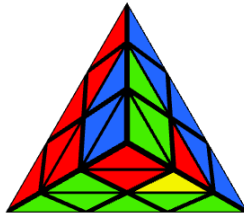
R' L R L2' U L

L R' L' R2 U' R'

US7



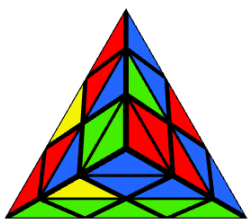
US8



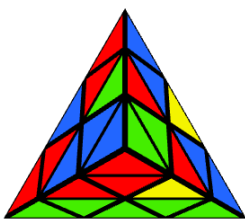
R U' R'

L' U L

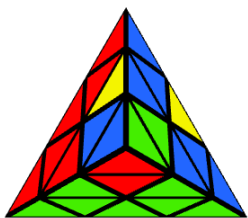
UF1



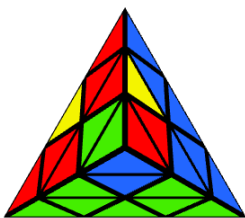
UF2


 $(R\ U\ R')\ U\ (R'\ L\ R\ L')$ 
 $(L'\ U'\ L)\ U'\ (L\ R'\ L'\ R)$ 

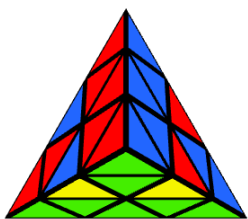
UF3



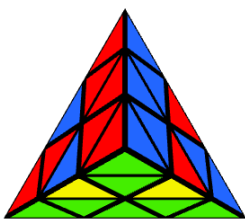
UF4


 $(L'\ U\ L)\ U'\ (R\ U\ R')$ 
 $(R\ U'\ R')\ U\ (L'\ U'\ L)$ 

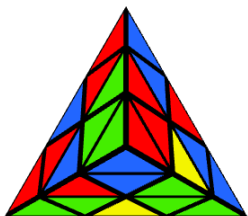
UF5



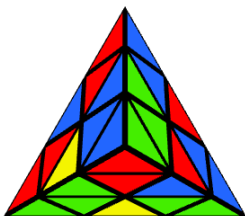
UF6


 $(R\ U\ R')\ U\ (L'\ U\ L)$ 
 $(L'\ U'\ L)\ U'\ (R\ U'\ R')$ 

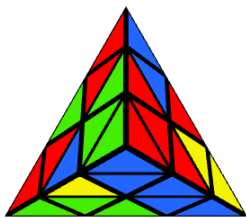
UF7



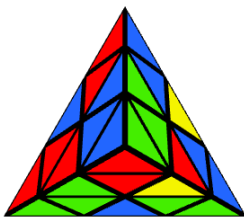
UF8


 $(R'\ L\ R\ L')\ U\ (L'\ U\ L)$ 
 $(L\ R'\ L'\ R)\ U'\ (R\ U'\ R')$

NP1



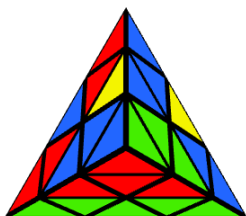
NP2



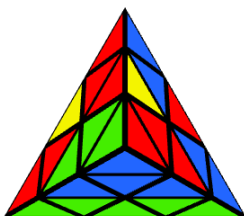
$$R\ U'\ R2'\ L\ R\ L'$$

$$L'\ U\ L2\ R'\ L'\ R$$

NP3



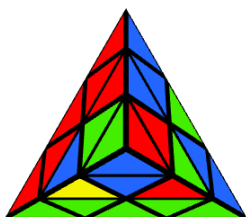
NP4



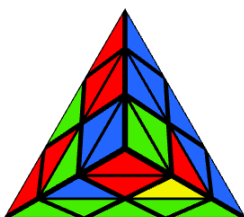
$$(L'\ U'\ L)\ U\ (R\ U\ R')$$

$$(R\ U\ R')\ U'\ (L'\ U'\ L)$$

NP5



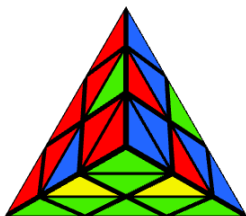
NP6



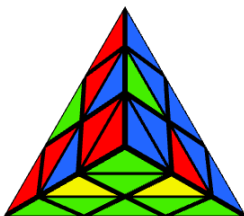
$$(R\ U'\ R')\ U'\ (R\ U\ R')$$

$$(L'\ U\ L)\ U\ (L'\ U'\ L)$$

NP7



NP8



$$(L'\ U\ L)\ (R\ U'\ R')$$

$$(R\ U'\ R')\ (L'\ U\ L)$$