

# Lesson 4

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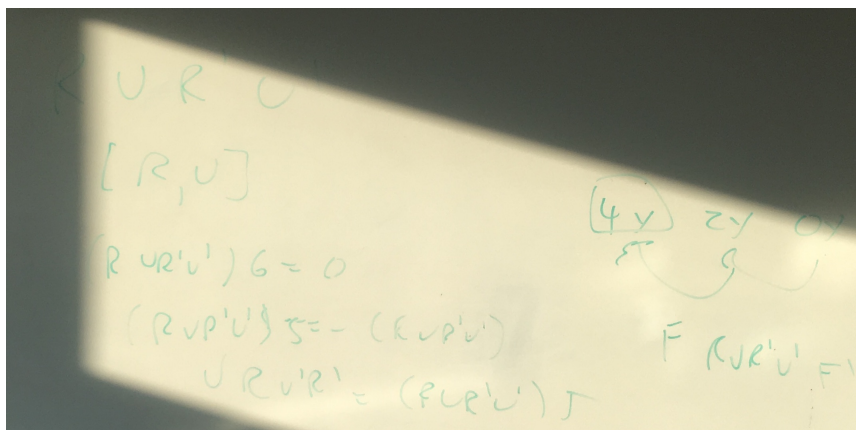


Figure 1: Process to get to all edges oriented on the last layer

## 2 Algorithms

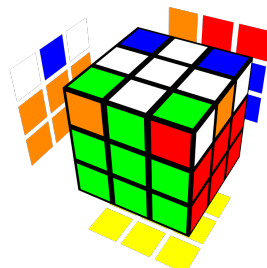
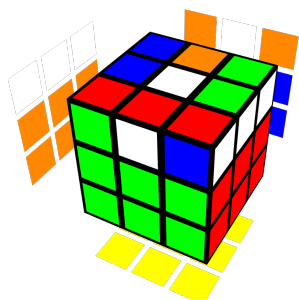
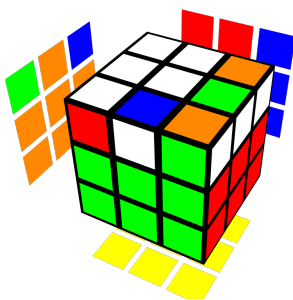


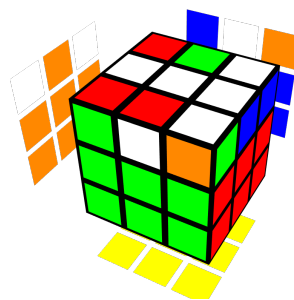
Figure 2: Goal state for the end of this step



(a) Zero edges oriented



(b) Two edges oriented



(c) Two edges oriented

Figure 3: Last layer edge cases

- Case 1, 2, and 3:  $F R U R' U' F'$