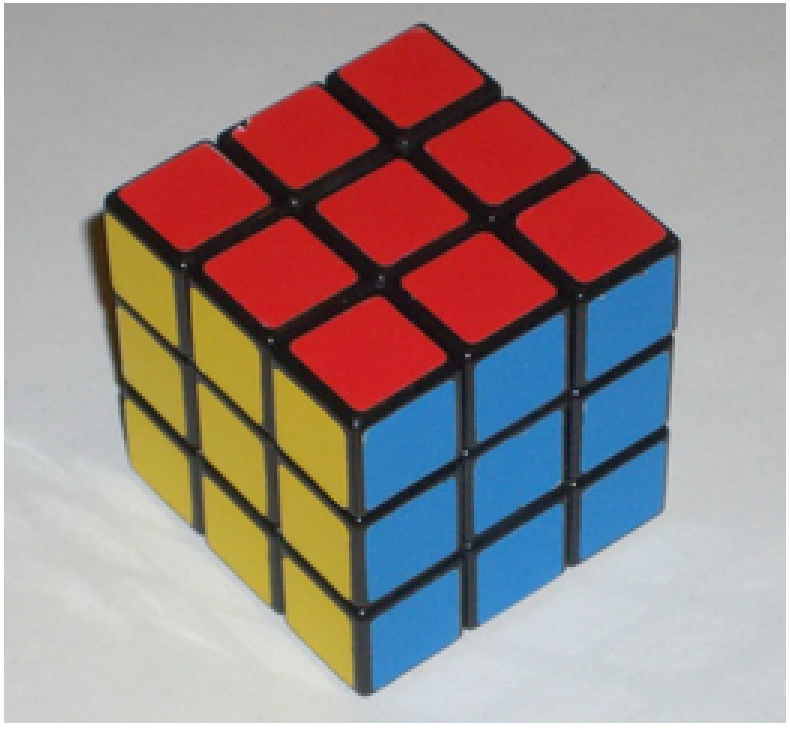
Il cubo di Rubik

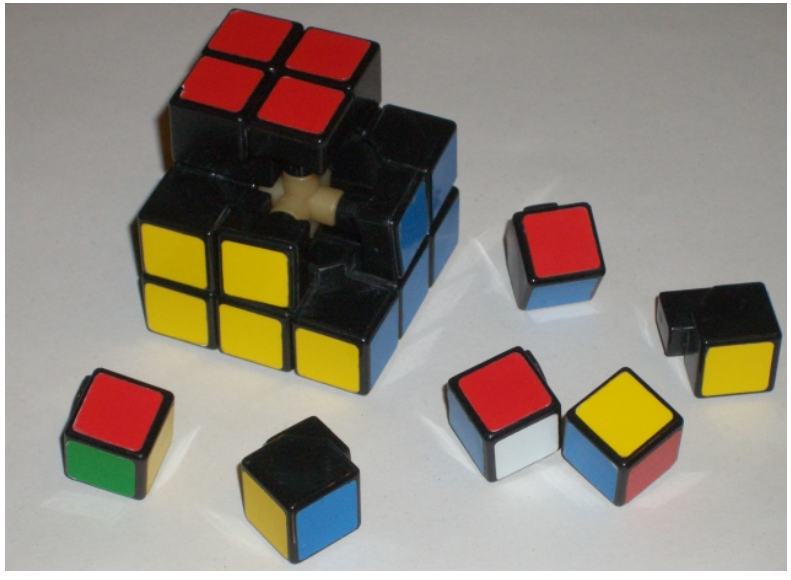
E. Paolini

Dip. Mat. “U. Dini”, Univ. Firenze

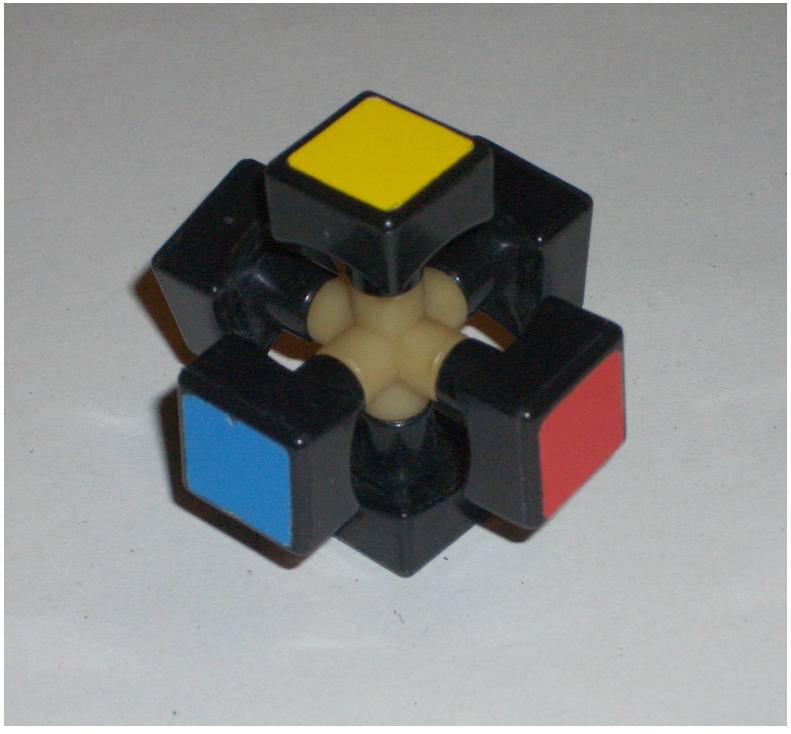
Firenze, 27 ottobre 2008

Il cubo

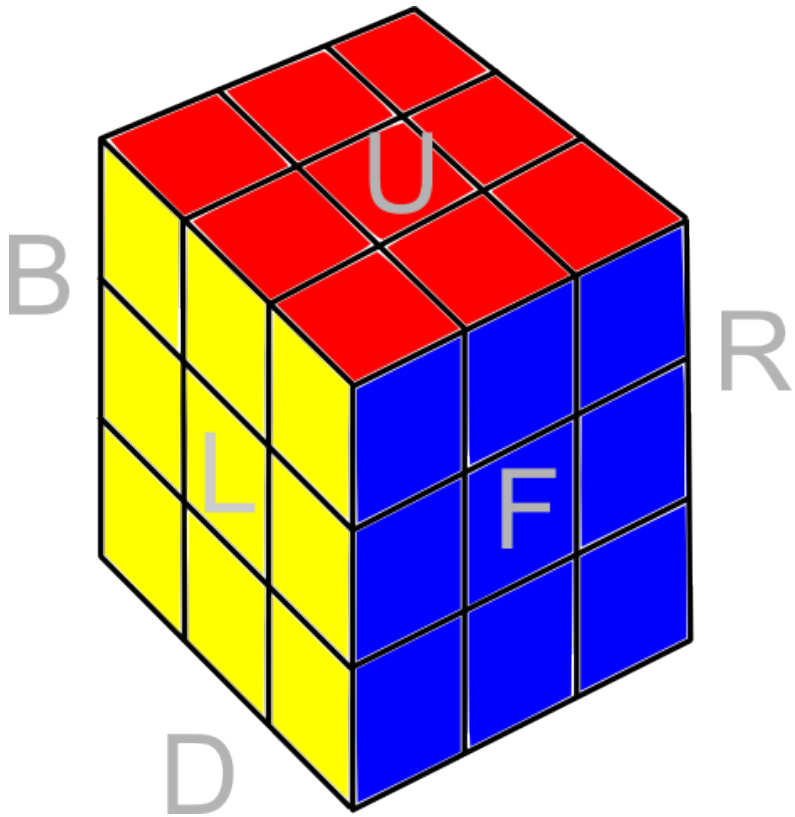




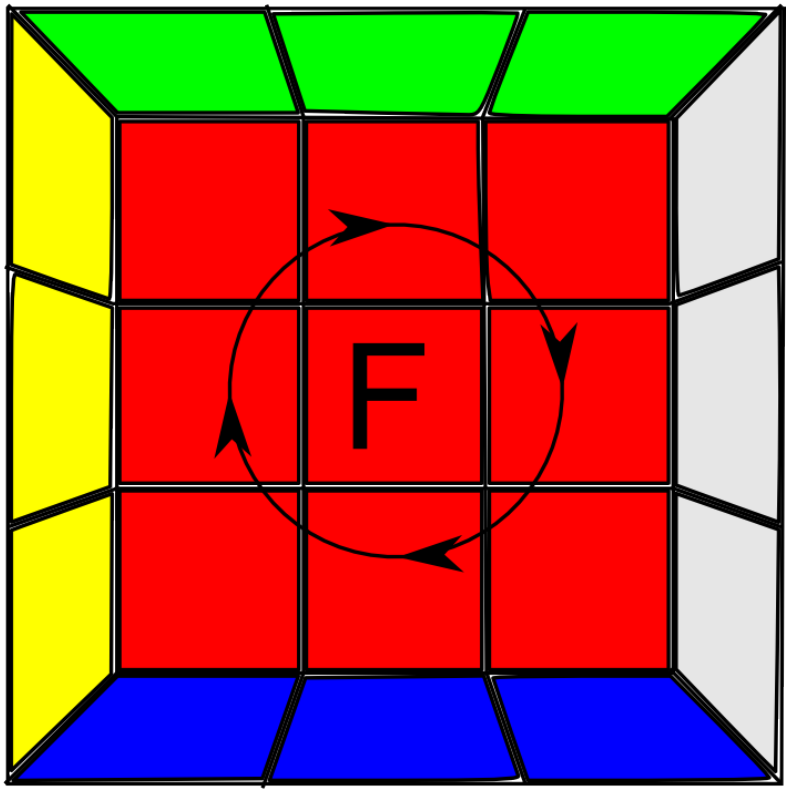
le facce centrali



I generatori

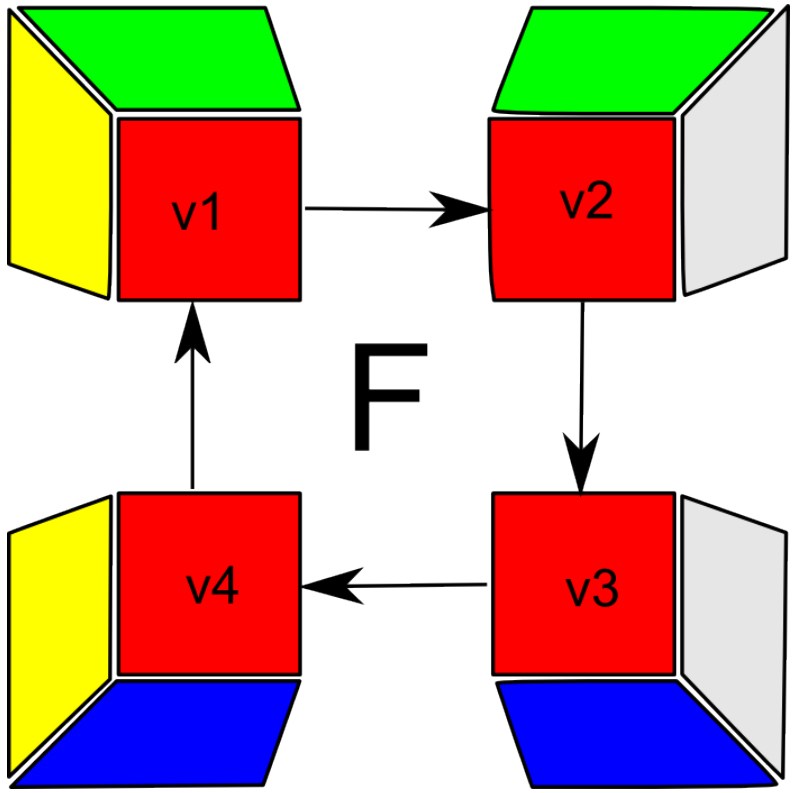


Primo invariante



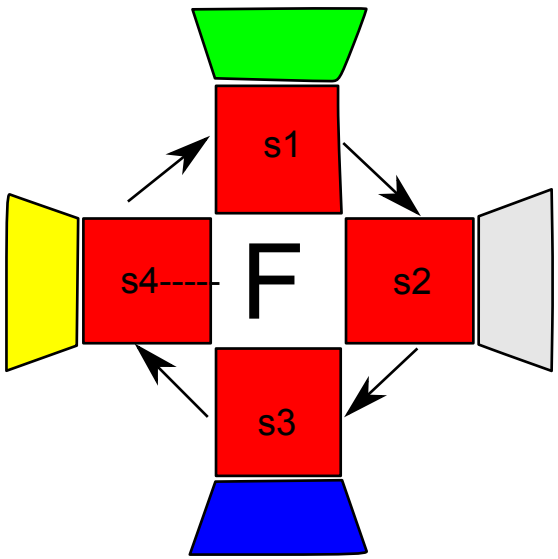
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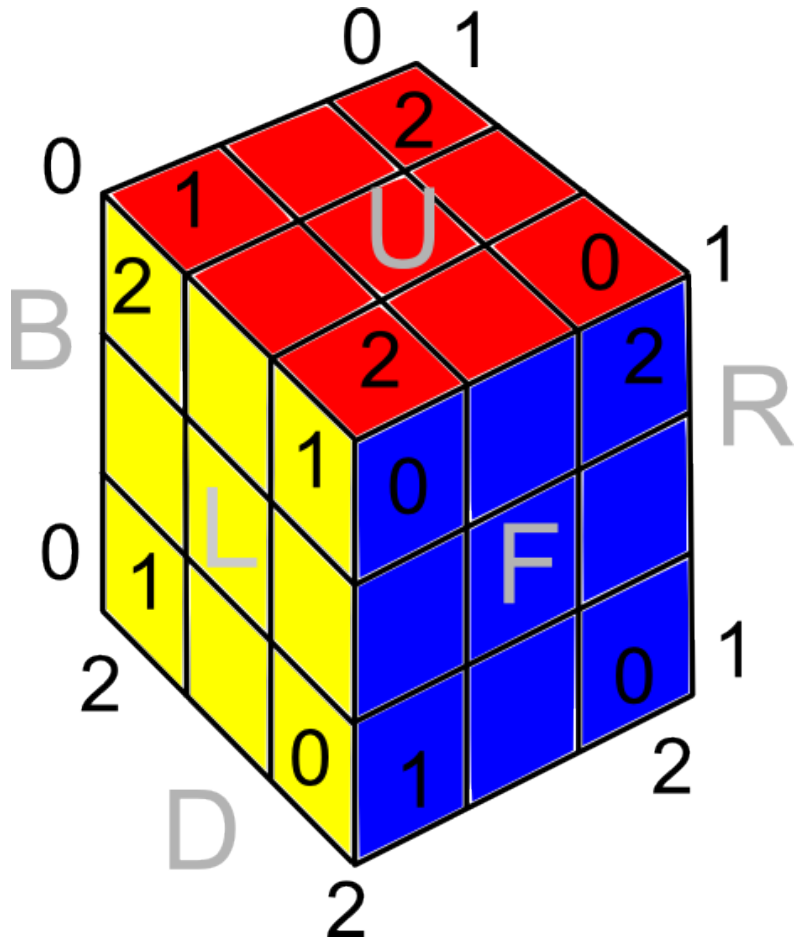


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Primo invariante

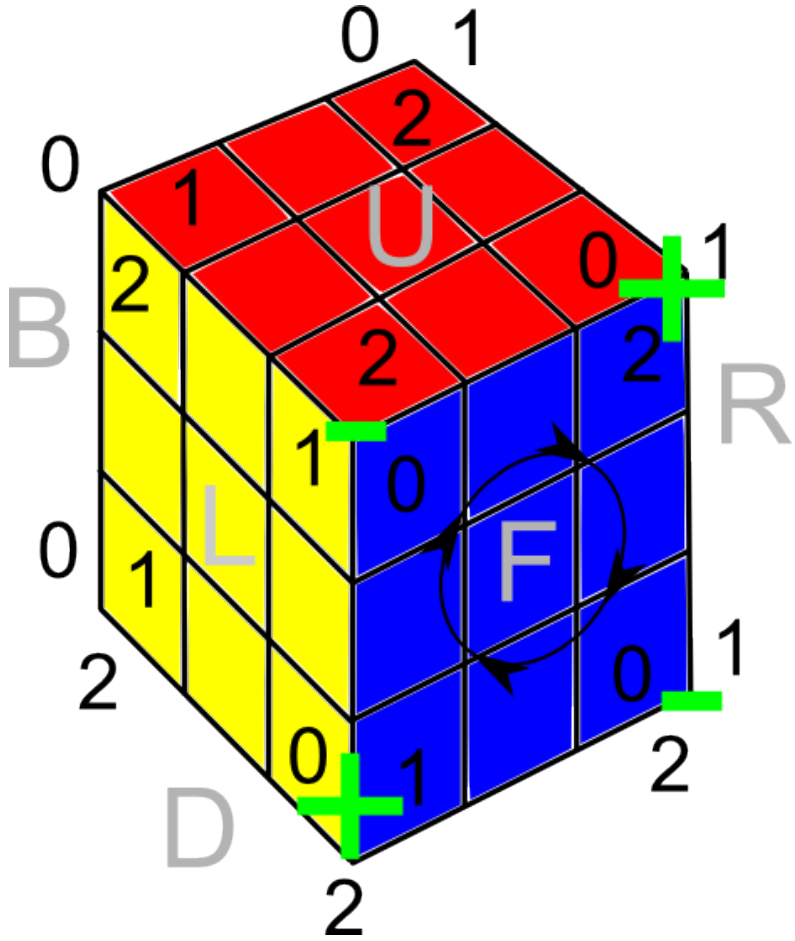


Secondo invariante

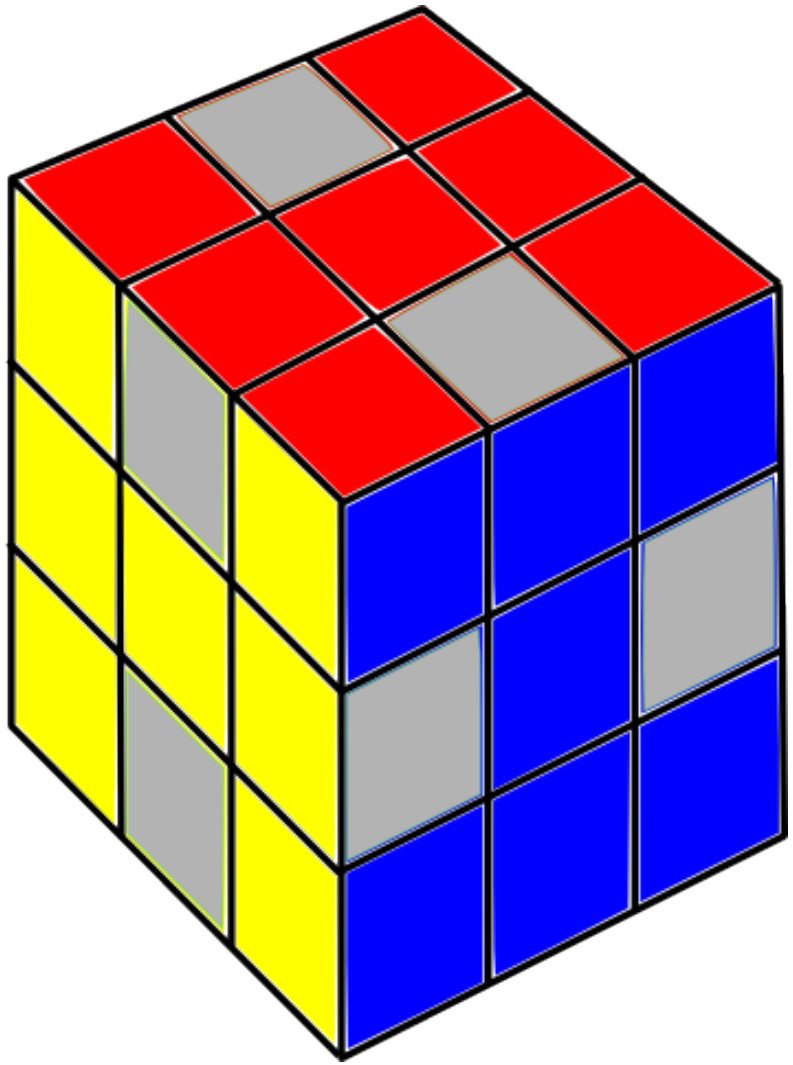


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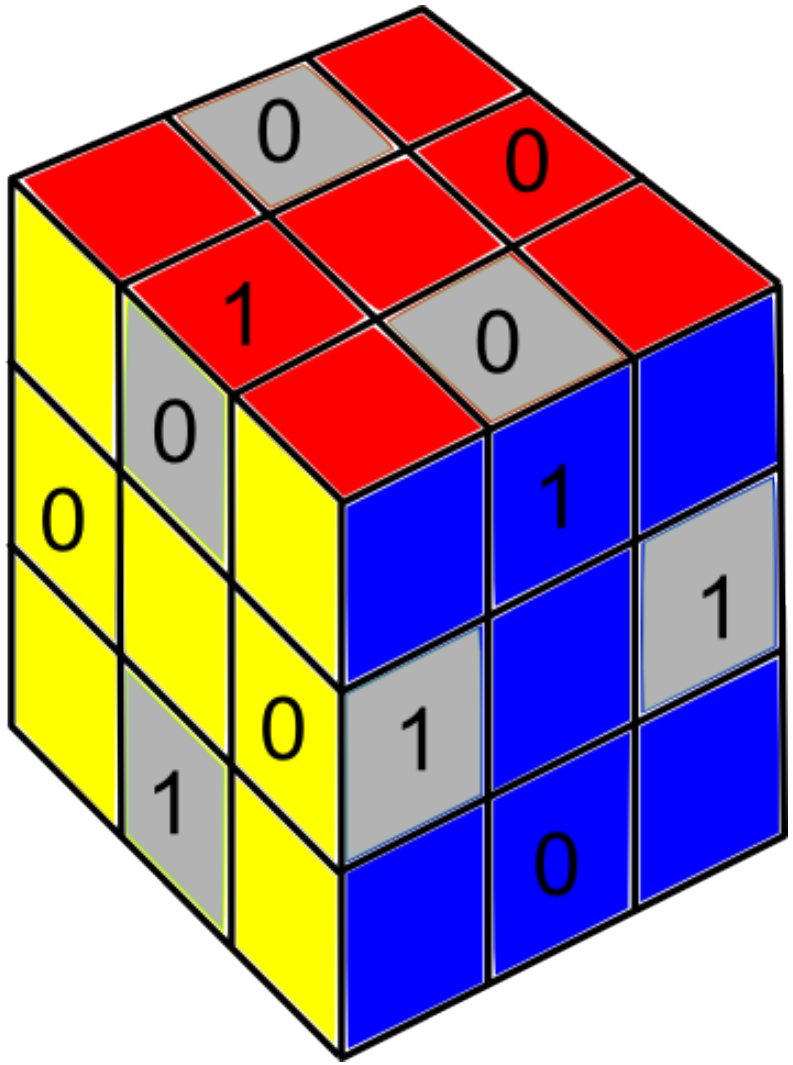


Terzo invariante

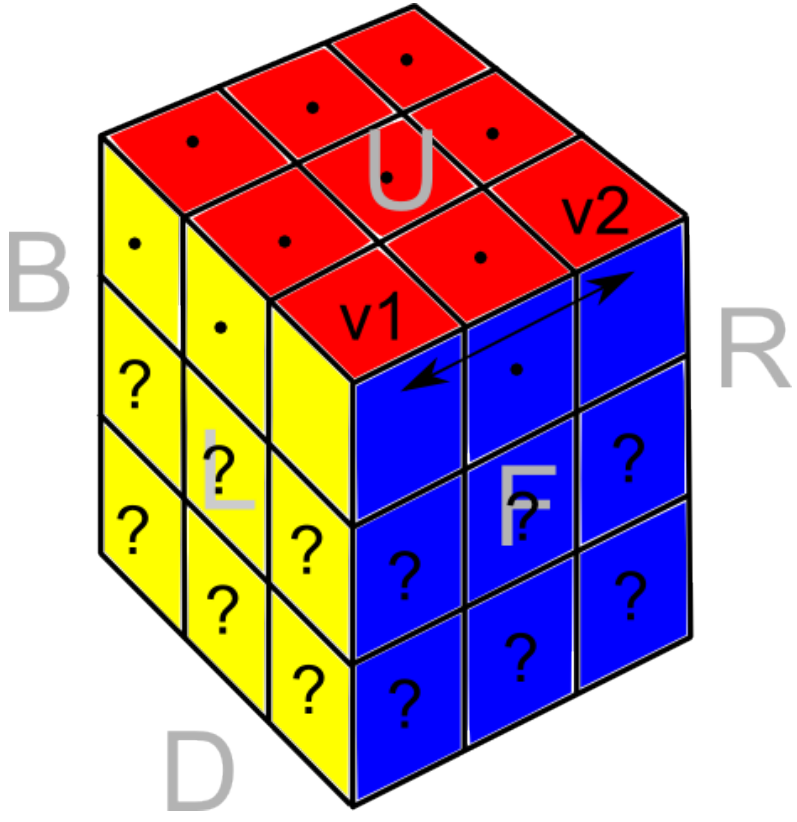


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Terzo invariante

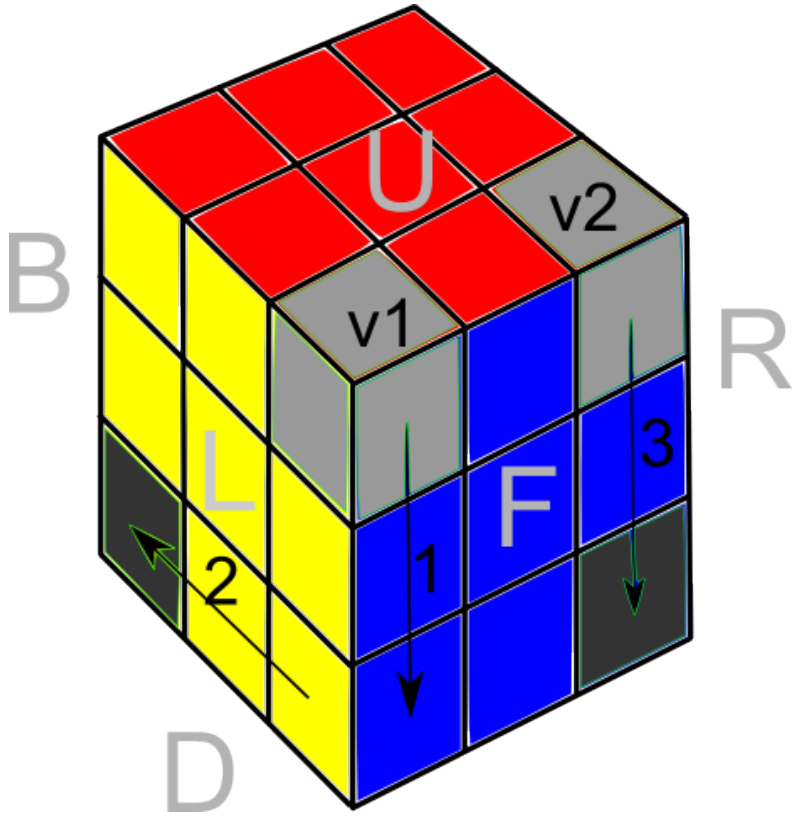


Scambio tramite coniugio



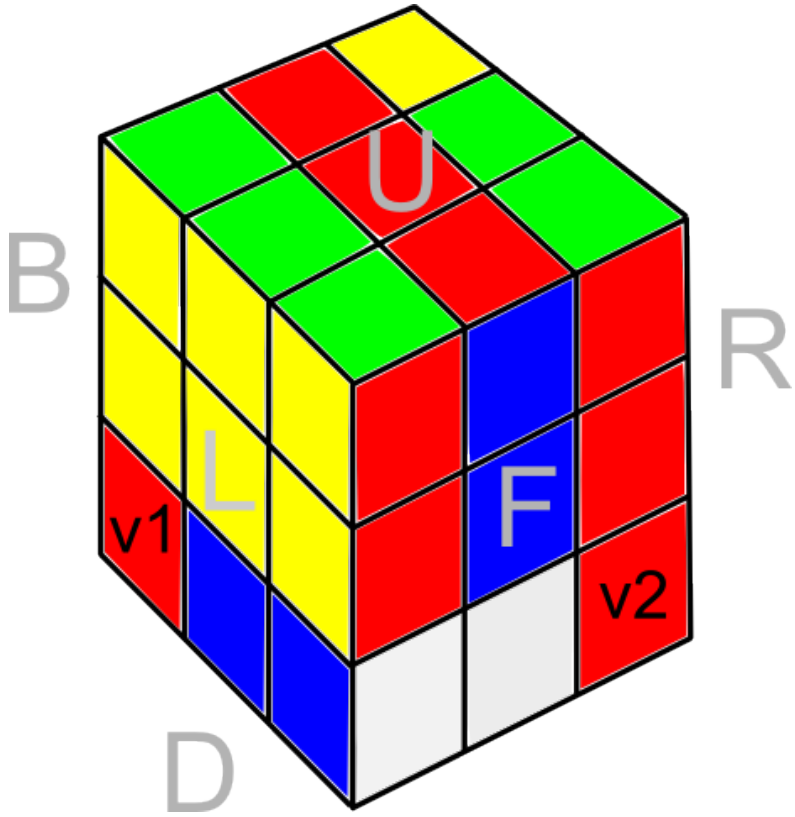
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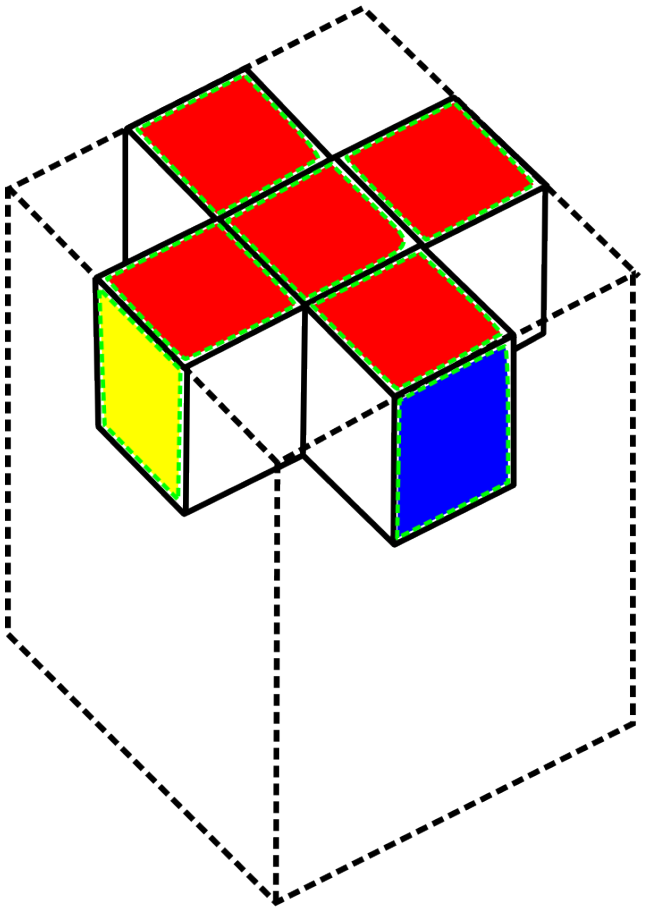


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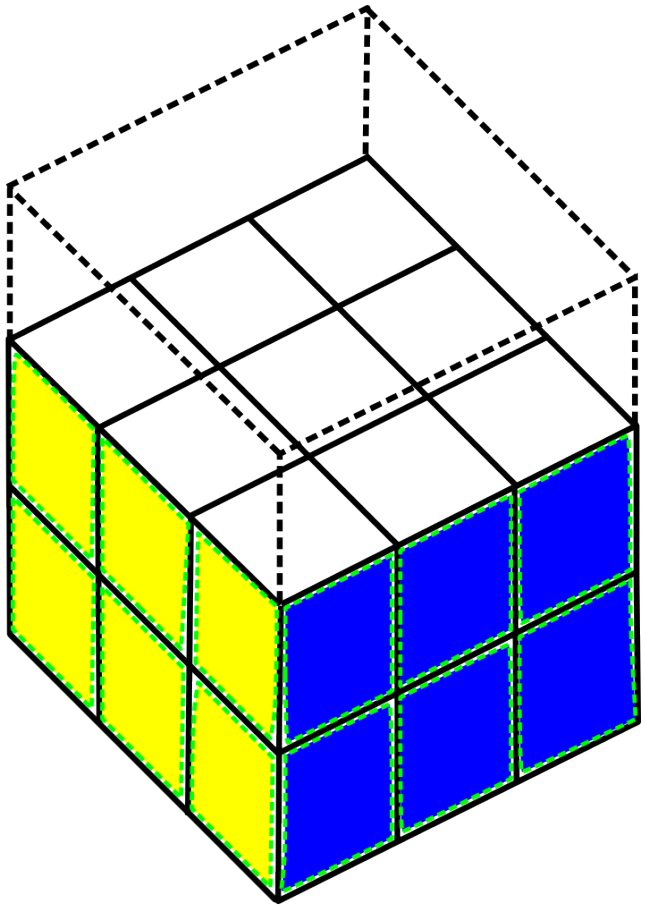
Scambio tramite coniugio



commutazione

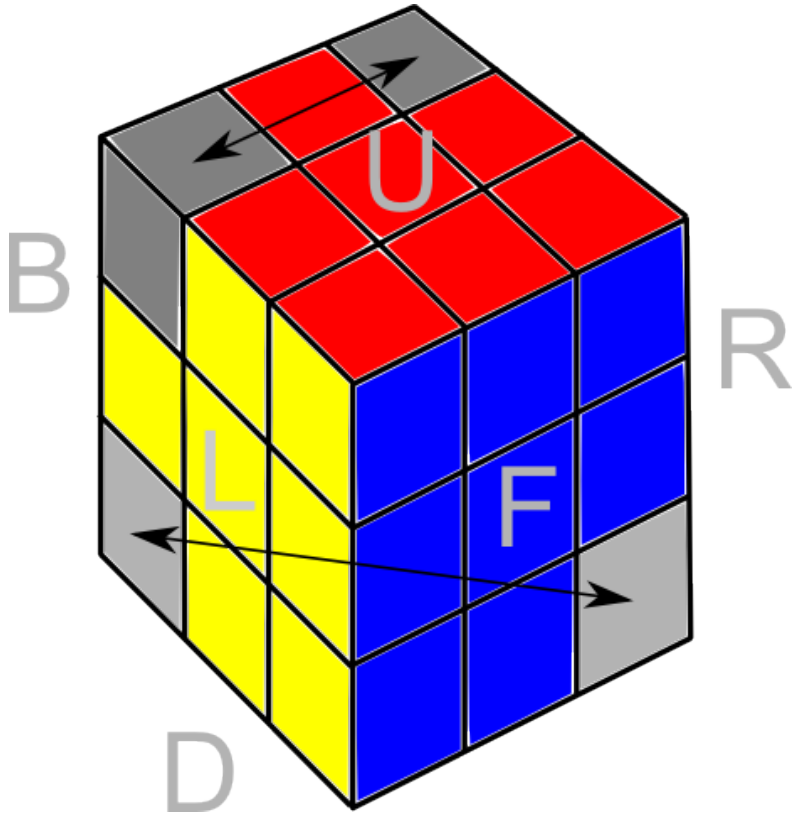


A



B

Coniugio



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Coniugio

