

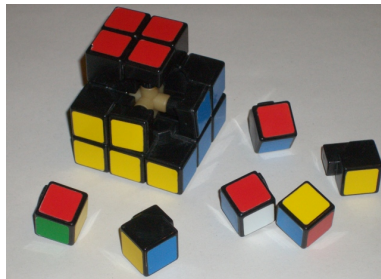
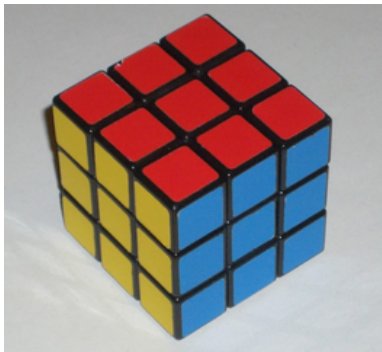
Il cubo di Rubik

E. Paolini

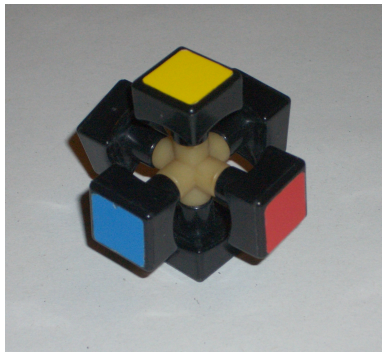
Dip. Mat. "U. Dini", Univ. Firenze

Firenze, 27 ottobre 2008

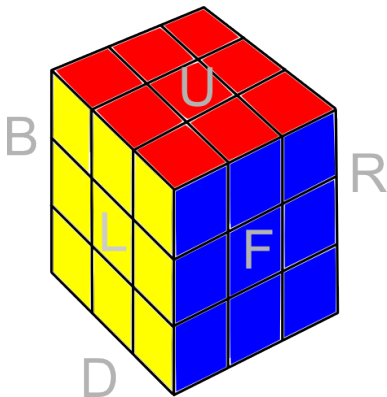
Il cubo



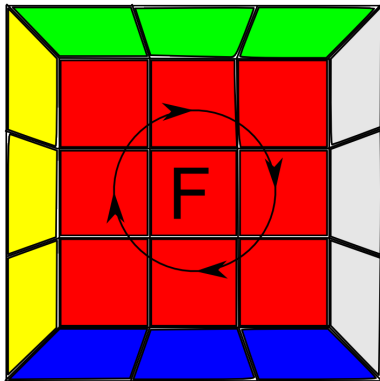
le facce centrali



I generatori

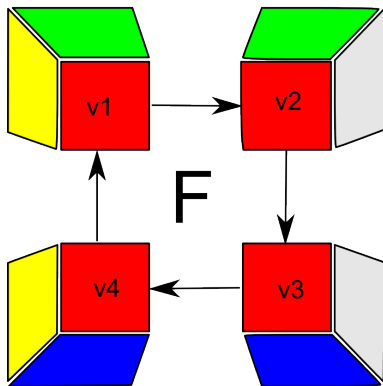


Primo invariante



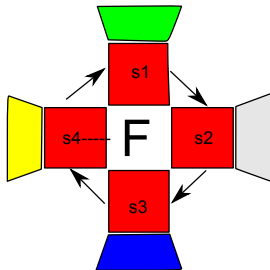
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Primo invariante

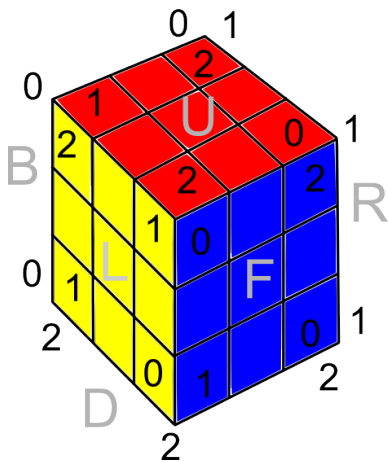


...

Primo invariante

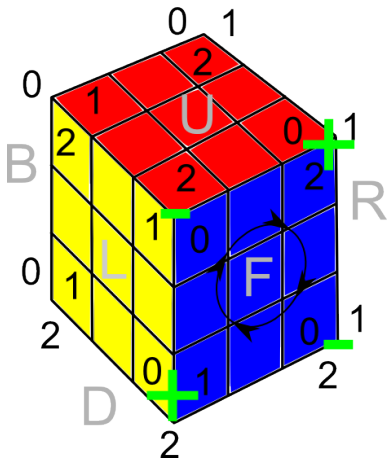


Secondo invariante

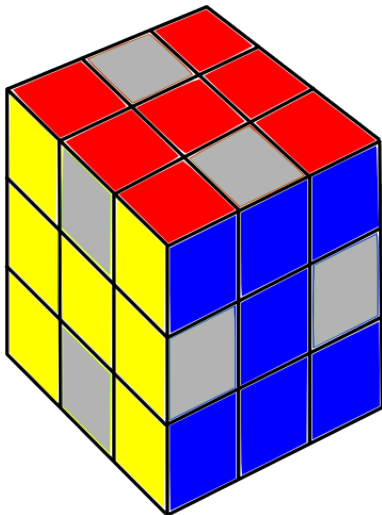


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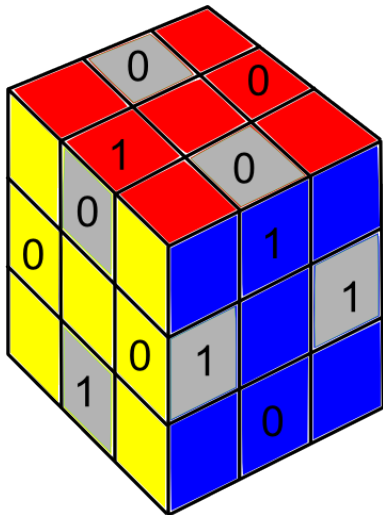
Secondo invariante



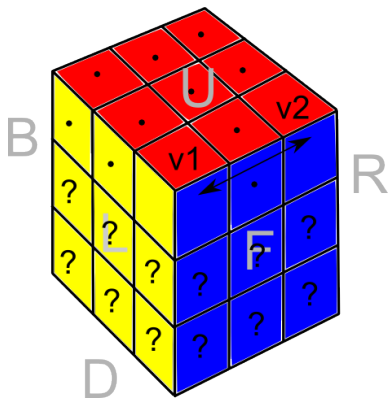
Terzo invariante



Terzo invariante

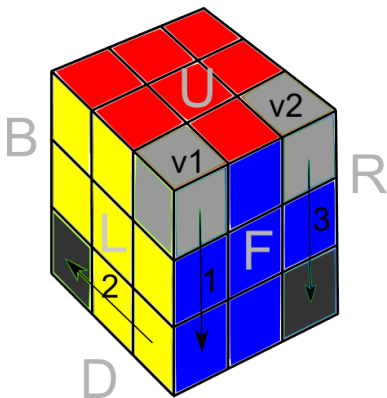


Scambio tramite coniugio



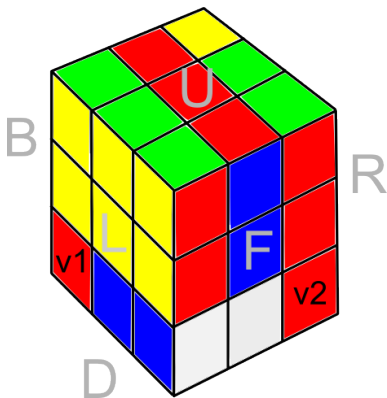
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Scambio tramite coniugio

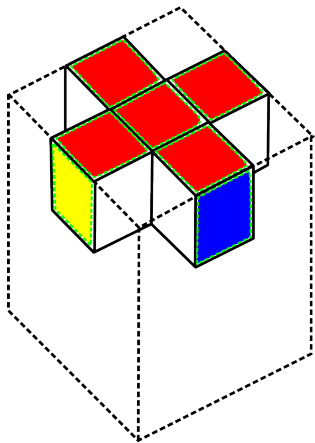


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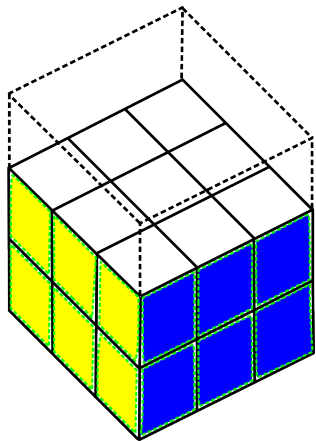
Scambio tramite coniugio



commutazione

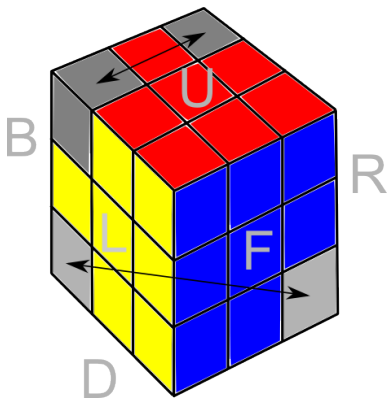


A



B

Coniugio



...

Coniugio

