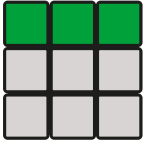
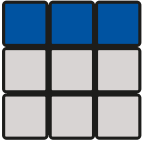
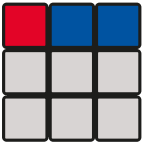
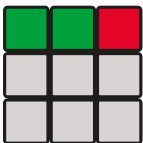
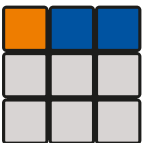
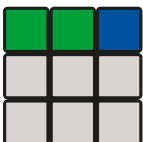
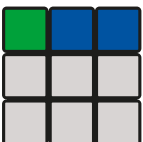
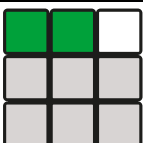
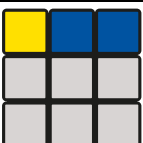
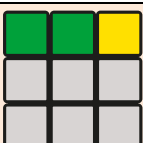
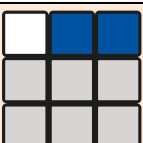
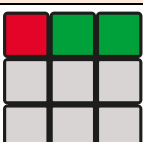
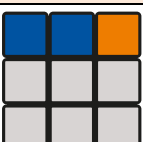
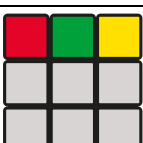
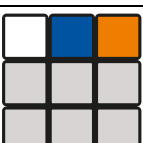
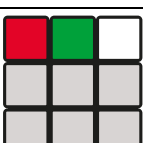
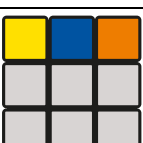


Appendix: List of algorithms

Stage I. Top layer

No	Pixel scheme	Inverse pixel scheme (+U2 after Stage II)	Core algorithm	Supplementary algorithm* at Stage II
I-1			L2 B2 R2 D2 F2 R2 U2 F2 R2 B D2 U2 F' R2 U2	
I-2			U F2 L2 U' F2 L2 D2 F2 L2 U' F L2 F' R2 D' B' D2 R2 U'	
I-3			B2 F2 U' F2 R2 F2 U L2 U' B' U' F2 R2 D2 F' U F	
I-4			F2 R2 D2 F2 R2 D2 F2 L2 U2 B U2 B R2 D2 F U2 F	
I-5			B2 L2 U F2 U' R2 D U F2 D F U' B2 L2 F' U' F' R2 F2	
I-6*			B2 F2 U F2 R2 D2 B2 U R2 U' F D2 B2 L2 D L2 B' L2 F'	Complete Stage II then apply algorithm L D2 L2 D2 L2 D2 L
I-7			R2 B2 U2 R2 B2 U' L2 D L2 U' F D' B2 U' L2 U F'	
I-8			D' B2 L2 B2 D2 B2 D' L2 F2 U F' D L2 B L2 F' U B2 D' U'	
I-9			R2 U2 R2 U' L2 U F2 U' L2 U' R' B U2 L' D2 L U2 B' R	

I-10			U2 B2 R2 U' R2 B2 D' R2 D2 L2 B' D2 F2 D F' R2 U2 F' R2	
I-11			L2 D F2 D2 R2 U B2 R2 D' L2 F U2 F D2 L2 F' L2	
I-12			L2 U' B2 U L2 F2 R2 F2 D2 L2 B D U2 F R2 F' D F U2	
I-13			U2 B2 D R2 D F2 U R2 U' B2 F L2 U2 F2 D F U' F U	
I-14			D2 L2 F2 U F2 D F2 U B2 D F U' R2 D2 F2 U B2 D	
I-15			U2 B2 U R2 D2 F2 R2 D2 B2 U' F U' L2 R2 U' B2 R2 U'	
I-16			D R2 U F2 D' L2 R2 D' R2 U' B' U2 F U2 L2 R2 F D2	
I-17			D2 B2 L2 U R2 F2 L2 R2 U' R2 B D' B2 R2 D2 R2 U' R2 U'	
I-18			D' F2 D2 L2 U' B2 L2 D' F2 U2 B' D2 B' D2 L2 D2 L2 B R2	
I-19*			U2 L2 F2 R2 F2 D2 U' F2 U F L2 B D U2 R2 B' U' B' U'	Complete Stage II then apply algorithm L D2 L2 D2 L2 D2 L
I-20			F2 R2 U2 B2 D' B2 L2 B2 D B R2 U' F2 U' R2 B R2 F2	

I-21			U' L2 D2 B2 D L2 B2 L2 B2 R2 B U' F2 D' B2 U' F2 U R2 U'	
I-22			D F2 U' R2 B2 D2 U' L2 D R2 F' U' L2 B2 D F2 D' B2 F U'	
I-23			B2 F2 D2 B2 L2 U' L2 B2 U R2 F U' B2 L2 D2 R2 D' R2 U'	
I-24			R2 F2 D R2 F2 U' F2 L2 B2 D F L2 D R2 D2 F2 U F2 U2 R2	
I-25			D B2 D L2 D R2 U2 R2 B2 D2 F D' U2 F R2 B' U F2 D U'	
I-26			R2 F2 D' R2 B2 D' F2 R2 B2 U F R2 D' L2 D2 F2 U' B2 U2 R2	
I-27			U R2 U2 R2 B2 U' B2 L2 B2 U2 F' L2 U' F2 U R2 D2 F2 U	
I-28			U R2 D2 L2 F2 U' F2 R2 F2 D2 F L2 D' L2 D' F2 U2 L2 U'	
I-29*			U2 L2 D' L2 U R2 D' R2 F2 L2 B F2 D' B' F' U2 F' D F2	Complete Stage II then apply algorithm L D2 L2 D2 L2 D2 L
I-30			U2 R2 F2 U L2 D R2 D2 B2 D F L2 U F' U B' F U2 B	
I-31			D' R2 F2 R2 B2 D B2 D' F2 U2 B' D' F2 D' F2 D' R2 F'	

I-32			U2 B2 F2 R2 D F2 U2 R2 U R2 F' D' L2 R2 D' F2 R2 U	
I-33			U2 R2 B2 U B2 D B2 U F2 D B' U' L2 U2 F2 U B2 D	
I-34			D2 L2 U2 R2 U2 B2 U2 B' R2 F' U2 F D2 F U2	
I-35*			F2 L2 U' F2 L2 U F2 R2 U R2 F' L2 U B' D2 U B D2 B	Complete Stage II then apply algorithm L D2 L2 D2 L2 D2 L
I-36			D' F2 D' L2 R2 U R2 D' F2 D F' U2 F D2 L2 F' L2	
I-37			U2 L2 F2 R2 D L2 R2 U2 L2 D' R' F' D' F2 D L2 R' B' R2	
I-38			U' R2 U B2 R2 U2 B2 R2 U2 R2 F R2 U F2 U' R' F' R B2	
I-39			D2 B2 D' F2 U L2 U F2 L2 R F' R U' R U L2 B2 R'	
I-40			D2 F2 U' B2 F2 U2 F2 U F2 R2 B' L2 F D2 L B' L' U2 L2 U'	
I-41*			D L2 R2 U' R2 D2 F2 L2 U R B2 F2 D' B2 D B F2 U R'	Complete Stage II then apply algorithm L D2 L2 D2 L2 D2 L
I-42			F2 L2 D2 B2 L2 F2 D' U' R2 D R U' L U' L R' U F' U' L2	

I-43			B2 D R2 F2 D2 B2 U L2 R2 U R D R2 U2 B R2 D' R U F'	
I-44			F2 L2 U R2 D2 B2 L2 U R2 D' F R2 D' B D' R F2 R F D2	
I-45			R2 U L2 F2 D B2 U F2 U' R2 F D' U' R' U L2 U' F' R	
I-46			F2 R2 D F2 U F2 U B2 D' R F' L' R2 B' U2 B U2 L' U R'	
I-47			B2 L2 F2 D F2 D R2 B2 U' R B U L' D2 U' L' B' U' R U2	
I-48			B2 D' L2 D' L2 U' F2 U2 L2 U2 L B2 L R2 B2 D' F' U2 L2 U	
I-49			D' F2 R2 B2 U R2 D2 B2 U' L F2 L' D' F' U' B2 U' L2 U	
I-50			D F2 R2 B2 L2 D2 R2 D R2 D' B' U' L2 D' B R F2 R D2 F	
I-51			B2 D F2 D' B2 D R2 U2 L2 B2 R F' D2 L2 D' L R F' L'	
I-52			B2 U L2 U' B2 F2 U2 R2 F2 L2 F U' L2 F2 D F' D' R' F' R	
I-53			D' B2 D L2 U2 L2 F2 U R2 B2 F' U' L2 F D' R' F' R	

I-54			R2 D R2 D R2 U2 R2 F2 U L2 F' U2 L2 U2 R2 B2 D R F' R	
I-55			U2 B2 D' U2 F2 L2 U' L2 R2 F L2 R2 D F2 U' R' U2 B U2 R'	
I-56			L2 B2 D2 L2 D B2 L2 B2 F2 D' L' F U' L2 F R' D' R2 U' R'	
I-57			D' R2 F2 D' L2 F2 D2 L2 D' F2 L B' D2 L U' B2 R' U2 R' U	
I-58			U' R2 D B2 D' R2 U' L2 R2 D2 B' U2 R' B R' F' U F D2 F'	
I-59			D2 L2 D L2 R2 D U2 B2 D L2 R' D B' U2 B D' R' D' F' U'	
I-60*			L2 D F2 D L2 B2 U' R2 B2 R B2 R' B' U2 B U' R2 B' R2	Complete Stage II then apply algorithm L D2 L2 D2 L2 D2 L
I-61			D U2 F2 D U2 R2 B2 R2 B2 R U' R U' L2 B D' F2 D' R2 U	
I-62			U F2 D L2 F2 D U R2 B2 F' R B L2 R B F R' B' U R'	
I-63			F2 R2 D R2 D2 U' F2 D F2 U' L F U2 L2 F2 L F2 L F U	
I-64			B2 U F2 D' L2 B2 D' F U' B' L2 U' F L' B' L2 F' L' U2	

I-65*			D' U F2 U' R2 D2 L2 B2 L2 U2 B' D' L2 D L2 B' R' B U R'	Complete Stage II then apply algorithm L D2 L2 D2 L2 D2 L
I-66			U2 R2 D B2 D' L2 U2 L2 D2 R' F R2 D2 B R F' L2 U' L2 D2	
I-67*			D' R2 F2 U F2 D U L2 F' D' F2 L B' L' F' R2 F' L2 U2	Complete Stage II then apply algorithm L D2 L2 D2 L2 D2 L
I-68			R2 D' F2 R2 F2 U B2 U' R2 D' R' F' D' F2 D L2 R' B R2	
I-69			B2 L2 R2 U' L2 B2 R2 U L2 U R F' R D U' L2 R U R' D'	
I-70			F2 D R2 U2 L2 R2 D' B2 F2 U B U2 L F2 L' R2 U2 B U	
I-71			L2 D R2 F2 D' B2 R2 D L2 R2 B U' R2 U2 B U R' F' R	
I-72			U B2 U2 F2 U B2 U' L B' L B2 R2 B' D2 L' F U'	
I-73			U2 F2 D' R2 F2 R2 D F2 R2 U L F R B U B' L' U' R'	
I-74			L2 F2 D2 L2 U2 L2 D' R' D F' L2 R B R B2 R2 B	
I-75			F2 U' L2 R2 U F2 L2 U L2 R2 B' L' F L' U B2 F' D2 U F2	

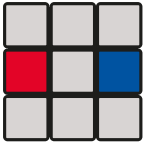
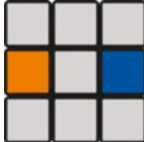
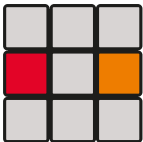
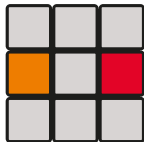
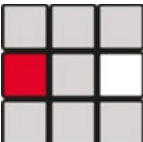
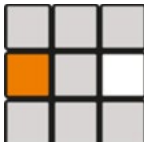
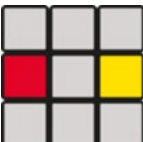
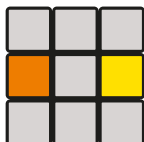
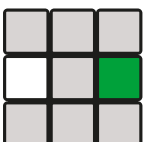
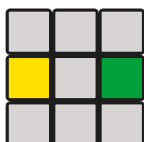
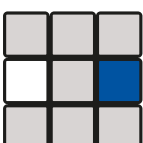
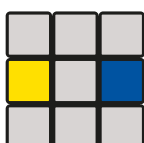
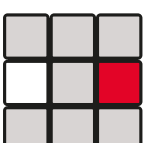
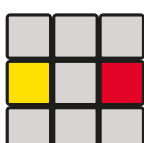
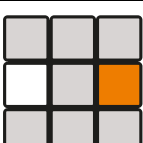
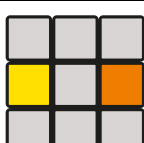
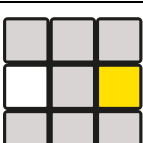
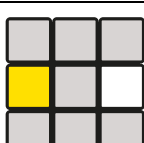
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I-77			F2 R2 U2 R2 F2 D F2 D' L2 U' F U' F2 U' F2 L' F2 L' U F'	
I-78*			U B2 R2 B2 U2 R2 U' R2 U2 R2 B R' U2 L U R' F' U L' U	Complete Stage II then apply algorithm L D2 L2 D2 L2 D2 L
I-79			B2 U' R2 U' L2 F2 D2 R2 F2 U' L B' L' U F' L B L U'	
I-80			L2 D2 L2 U R2 D R2 U F2 L R U' L' B' R2 D F D R F2	
I-81			L2 D2 F2 R2 U2 B2 D R2 F2 R2 B' L2 R F R D' L2 D' U	
I-82			D' F2 U' R2 F2 L2 F2 D U B U2 F' U' B R' B' R' U B2 R2	
I-83			B2 U B2 L2 R2 D L2 R2 U2 B2 L F L' B R' U' B' R' B2 U2	
I-84			D' R2 F2 R2 D' L2 U2 R2 B2 D2 F' U2 L' F2 L' F' U' F U' F'	
I-85			R2 D R2 D L2 D2 U' B2 R' F R B2 L' D' U2 L2 D F U L'	
I-86			U' F2 D L2 U' F2 L2 U' F' L' R2 B' L' R2 U L2 U L2 U2	

I-87			D' R2 D' L2 R2 B2 D' L2 F2 L' D' L D2 B' R F' R F' D2 F	
I-88			R2 B2 U B2 U2 R2 U2 L' B2 L2 U F2 R F' L' R2 B' U2 R'	
I-89			D2 L2 D L2 R2 U F2 U2 R U F2 D2 L' B R D F2 D2 F R	
I-90			F2 D2 L2 U L2 F2 U' B2 F2 L' B L' U' B F2 D2 B U' R2 U'	
I-91*			L2 D2 R2 D B2 D2 R2 F2 D2 L2 F' R' F D2 F' L2 D' R D' U'	Complete Stage II then apply algorithm L D2 L2 D2 L2 D2 L
I-92			L2 B2 L2 B2 U F2 D2 U' R2 D2 B' U2 R2 B F2 L U2 L U' F	
I-93			F2 D L2 U2 R2 B2 U L2 D R F L F L F' R2 F2 R' U' F	
I-94			L2 D2 R2 D' R2 D F2 D' R2 D2 R F' L2 R' B R2 F' U' F U2	
I-95			U2 R2 D2 F2 D' B2 D L2 B2 L' D F L' U2 B L F D B' D	
I-96			F2 U2 L2 F2 L2 U' B2 U2 B2 U' B' U2 R' B' R F' R2 U B2 U2	
I-97			R2 D F2 U F2 U' R2 D L2 R' B L2 R U' R2 B' U' L2 D2 R2	

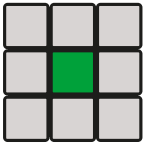
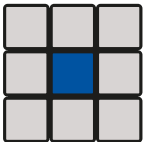
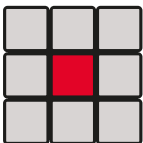
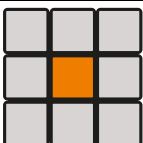
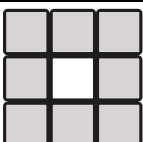
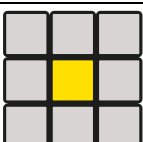
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I-99*			B2 D U2 L2 F2 U L2 R2 B' R U' B2 R2 B' R U B2 R'	Complete Stage II then apply algorithm L D2 L2 D2 L2 D2 L
I-100			R2 U2 L2 D' R2 F2 R2 D' L D B D R2 F' R' F L R U	
I-101			F2 R2 D F2 L2 R2 D L2 F2 R B R' D' F' R2 F U' R2 U	
I-102			B2 D' L2 R2 U R2 D2 B2 U2 R2 F' R' B F' D' L' R' F L R'	
I-103*			R2 F2 U F2 U R2 D2 U' L2 F L B' R U R' U' L B D2 U'	Complete Stage II then apply algorithm L D2 L2 D2 L2 D2 L
I-104			R2 D' R2 U' F2 D R2 B2 R' U' L2 U2 B L' R2 F L D2 R	
I-105			F2 D2 F2 U' B2 R2 B2 F2 D' B2 R' B' D L2 D' R' B' D2 F U	
I-106			U2 B2 L2 R2 D2 L2 B2 L2 D R' D F' L2 R B R B2 R2 B	
I-107			D2 L2 R2 B2 R2 D' F2 U' F2 D' F U' F2 U' F2 L' F2 L' U F'	
I-108			L2 D L2 B2 L2 U F2 D' U' L2 R' B' R B L2 R2 F' L' U L'	

Stage II. Middle layer

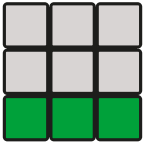
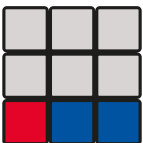
No	Pixel scheme	Algorithm	No	Pixel scheme	Algorithm
II-1		No algorithm	II-2		D2 L2 D2 U2 R2 U2
II-3		D U' L2 F2 D2 U2 B' L2 D U' F2 L' B2	II-4		U2 L2 F2 D2 B2 R2 U2 R2 D U' B' L2 D U' F2 L' F2
II-5		U R2 D' U B2 F2 R' D B D U' L' D' B L2 U'	II-6		F2 D2 L2 F2 D' U' R2 F2 U' B2 R' D B D U' L' D' B L2 U'
II-7		B2 D2 R2 F2 D' U' L2 F2 D' U'	II-8		F2 U2 L2 F2 D U R2 F2 D' U'
II-9		R2 D' F2 D F2 R2 D R2 D' R2 F' R' D R2 D' R F'	II-10		R2 F2 U2 R2 B2 D U R2 F2 U2 F' U2 F D U' R' U2 R'
II-11		D' R2 F2 D' B2 F2 D R2 F2 D2 B R' D' L2 R2 U R F' U'	II-12		B2 L2 D2 R2 F2 D2 U2 R2 D' U' F' R2 F D' U R' D2 R'
II-13		F2 R2 U B2 U' R2 U B2 U' R2 F' R' D R2 D' R F'	II-14		B2 U2 L2 B2 D2 F2 R2 U2 R D2 U2 L'
II-15		D' R2 F2 D' B2 F2 D R2 F2 U2 F L' U' B2 F2 D R F' U'	II-16		U' R2 B2 R2 D2 L2 F2 R2 D' L F' L B F' D' B R'
II-17		F2 R2 U R2 U' B2 U R2 U' R2 F' U' R B2 R' U F'	II-18		D2 R2 B2 D2 F2 D2 U2 R2 D' U' R' F' R' D' U F L F'

II-19		D2 R2 F2 D' U' L2 F2 D' B2 L B L' U' L2 B' L' B'	II-20		F2 D2 U' R2 D' U L F L' D' L2 F' L' F'
II-21		B2 D' U R2 F2 R2 B L2 D U' F2 L' B2 R2	II-22		F2 U2 F2 R2 D' U' F2 L2 U2 R2 B' L2 D U' F2 L' B2 R2
II-23		U L2 D' U R' D B D U' L' D' B L2 U'	II-24		U R2 F2 L2 U L2 F2 R2 U B2 R D B' U' L2 B' U' L
II-25		D' L2 F2 U2 B2 R2 D U R2 U' F R' D U' B R' D U'	II-26		U' R2 U2 F2 R2 D U B2 R2 U' R' D' F D' U L' D F
II-27		F2 R2 D B2 U' L2 U B2 D' R2 F' U' R B2 R' U F'	II-28		R2 D R2 D B2 F2 D' B2 D' R2 F L' D' L2 R2 U L B'
II-29		L2 D R2 D' U F2 U' L' D2 U2 R' D2 U2	II-30		D' U R2 D2 U2 L' D' L' D' U B D B'
II-31		R2 D' U F2 U L2 B' D' R' D U' B D L F2 U'	II-32		U' R2 D2 B2 L2 D2 R2 F2 U' F' L D' U B' L D U'
II-33		D F2 R2 B2 D L2 B2 D2 U' B2 R D B' U' L2 B' U' L F2	II-34		B2 D2 R2 F2 U2 F2 R2 D' L' U' F D' U L' U B U'
II-35		D' F2 U2 L2 U2 F2 U2 B' D' R' D U' B D L F2 U'	II-36		D2 U' R2 D U' R' D B D U' L' D' B L2 U'

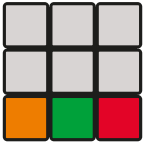
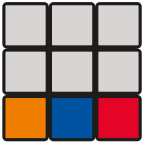
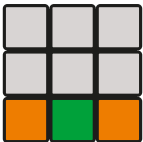
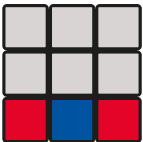
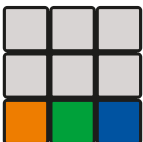
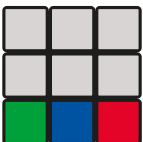
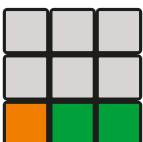
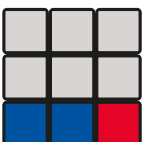
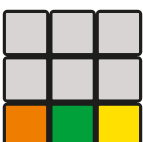
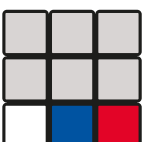
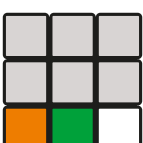
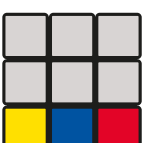
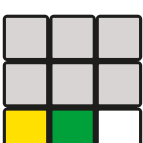
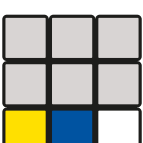
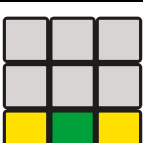
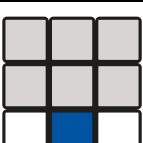
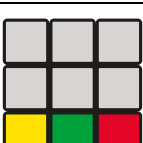
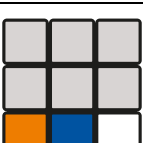
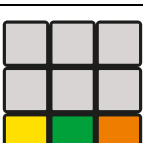
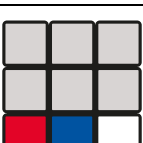
Stage III. Center

<i>No</i>	<i>Pixel scheme</i>	<i>Algorithm</i>
III-1		No algorithm. Pattern is ready.
III-2		M2 E M2 E'
III-3		E' M E M'
III-4		E M E' M'
III-5		M E M' E'
III-6		M' E M E'

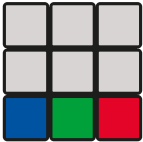
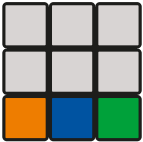
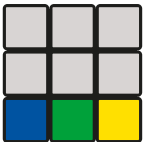
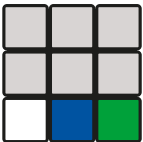
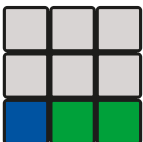
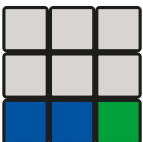
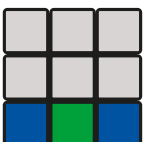
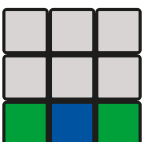
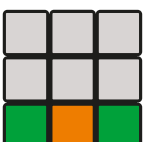
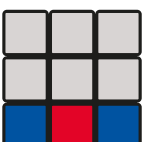
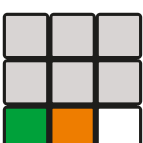
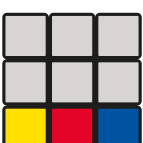
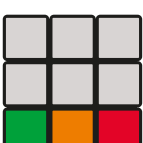
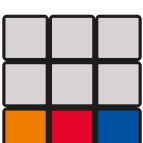
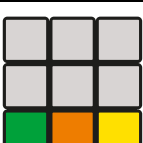
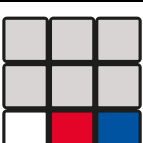
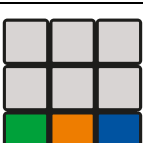
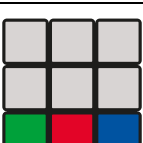
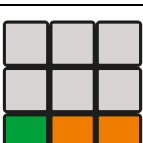
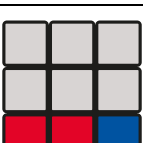
Stage IV. Bottom layer

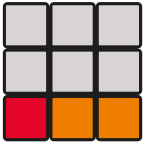
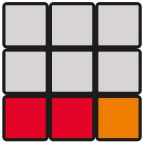
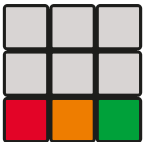
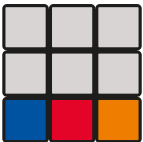
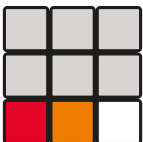
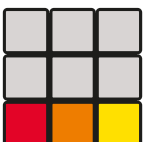
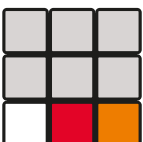
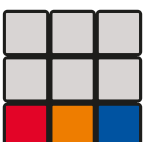
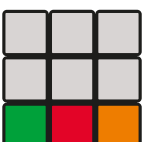
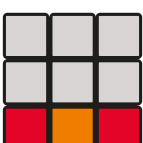
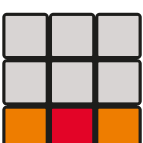
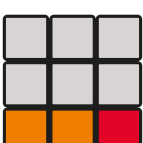
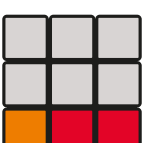
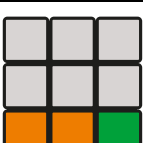
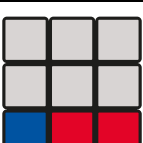
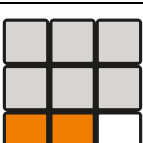
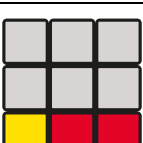
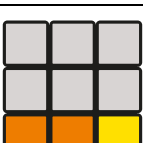
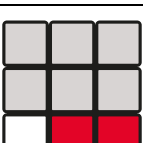
<i>No</i>	<i>Pixel scheme</i>	<i>Inverse pixel scheme (+ D2 after Core Alg)</i>	<i>Core algorithm</i>
IV-1			No algorithm
IV-2			B2 L2 D B2 R2 U' F2 U F2 L2 R' U L2 U' R U F2 R2

IV-3			R2 U' R2 U F2 D' F U F2 D F2 U' F
IV-4			D L2 D' F2 D L2 D' F2 U R D' L2 D R' U' F2
IV-5			F2 D2 R2 B2 F2 D F2 D2 L2 U L U2 R' F2 U2 L' U2 R' U'
IV-6			B2 D' R2 D R2 B2 U R2 U2 R D' R' U R D R
IV-7			U R2 U L2 B2 D L2 D' U' R2 F D F2 L2 D' L2 U' F
IV-8			B2 R2 D L2 B2 F2 D F2 D' R2 F' D B2 D' F U F2 R2
IV-9			L2 D F2 D2 F2 L2 D F2 D F2 R U2 R2 D' R2 U2 R'
IV-10			U' B2 U B2 U2 F2 U' F2 U' B2 R U2 L' D2 L U2 R'
IV-11			D R2 U' L2 U' R2 D2 L2 D B2 R U2 R' B2 R U2 R'
IV-12			D F2 D R2 U L2 U L2 U2 R D R F2 D2 L D' L'

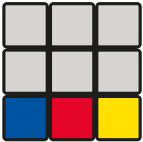
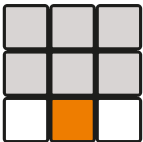
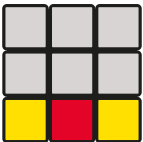
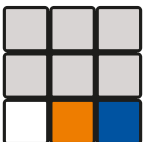
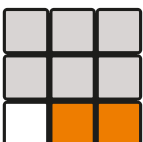
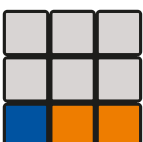
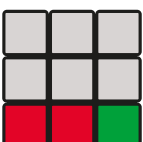
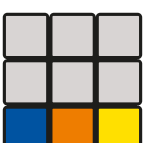
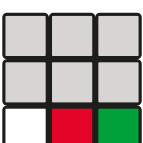
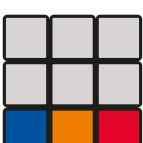
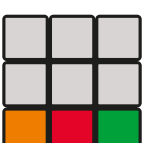
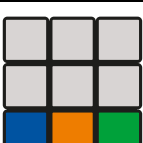
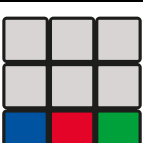
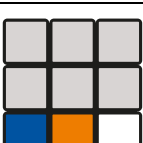
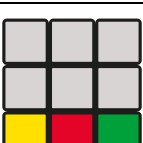
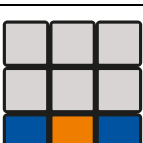
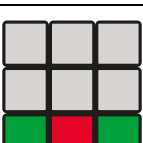
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IV-15			R2 D' B2 L2 U F2 U' L2 D' L' D L B2 D2 R D' R'
IV-16			L2 U L2 U' F2 D F' U' F2 D' F2 U F'
IV-17			U' R2 U' B2 U' L2 U2 R2 F2 U B D' B' L2 D F' D2 F
IV-18			U F2 R2 D L2 U' B2 U2 L2 U' F U' F' R2 D F' D2 F
IV-19			D F2 U' F2 L2 D' B2 U B2 U' L F2 R F2 L D2 R D2 R'
IV-20			R2 D2 R2 U' R2 U2 R2 B2 L2 U2 L D L2 B2 D2 R D' F2 R'
IV-21			U L2 U B2 U R2 U2 L2 F2 U' B' D B R2 D' F D2 F'
IV-22			R2 U' L2 B2 D' B2 D L2 B2 U R' F2 R B2 R' F2 R'

IV-23			R2 U R2 D' B2 U' B2 U' B2 D L U L' D B2 D R D2 R'
IV-24			D' L2 D L2 U' F2 U B2 U' R2 B D' B' R2 U F' L2 B2 F'
IV-25			L2 U R2 U' L2 U B2 U' B2 U' L U B2 U B2 R2 U' L'
IV-26			D' F2 U' R2 U F2 R2 D F2 D' R' F2 U' R2 D R2 U F2 R'
IV-27			D R2 U F2 R2 D2 R2 F2 U' R D2 U R2 F2 D F2 U' R'
IV-28			U' B2 R2 U' L2 U' F2 D2 L2 U' B' D B R2 D' F D2 F'
IV-29			U2 R2 U F2 U B2 D2 R2 U2 L2 R F2 L' D' U2 R D' L' R'
IV-30			R2 D F2 D' B2 D F2 D' R' F2 R B2 R' F2 R'
IV-31			U' L2 U' R2 B2 D' R2 D U L2 F' D' F2 R2 D R2 U F'
IV-32			U F2 U F2 U' R2 U L2 U' R' U L2 F2 U' F2 U' R'

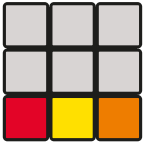
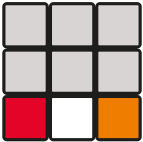
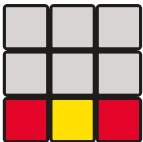
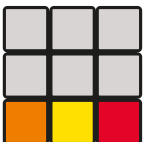
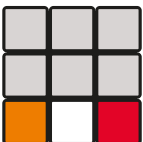
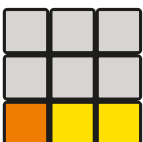
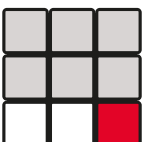
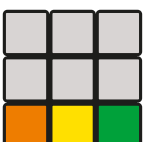
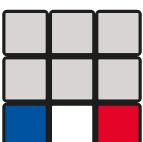
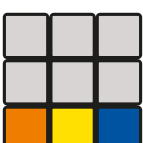
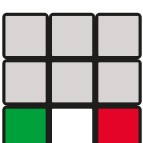
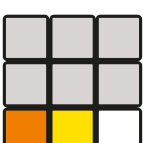
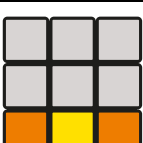
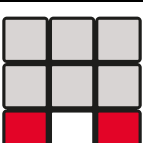
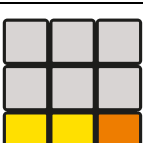
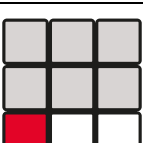
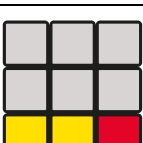
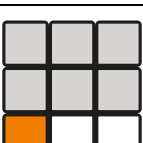
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IV-34			U' F2 U' R2 D B2 D2 B2 R2 U2 F' L2 D' B D B' L2 F'
IV-35			B2 D' R2 D R2 B2 U R D R U' R' D' R'
IV-36			L2 U2 F2 R2 U2 F2 R2 D U' R D' U' F2 L' R' U' L' R'
IV-37			R2 U F2 U' L R' F D2 F' L' R'
IV-38			U B2 D' B2 U' L2 D2 L2 B D2 R' B R B2 F L2 F'
IV-39			D' R2 U L2 U L2 U2 R' F R' D R F' R'
IV-40			L2 B2 D' L2 D2 L2 D' L2 D' B' L2 B' L2 R' B R B2
IV-41			F2 R2 U L2 U' R2 U L2 U' R2 B R' U' R U B' R2 F2
IV-42			F2 D F2 R2 F2 D F2 R2 F' D' R2 F D R F D R'

IV-43			D F2 D2 F2 U' R2 B2 D' B2 U B R B' R2 F R' F'
IV-44			B R D R' D' B'
IV-45			B2 U' F2 U2 R2 U R2 F2 U2 R' B U B' U' R B2
IV-46			D2 L2 R2 U' L2 R2 D' R2 F2 L2 R B U B' U' R B2 L2
IV-47			D' B2 L2 R2 F2 U' F2 L2 R2 B' R D R' D' B'
IV-48			B2 U' L2 U R2 U' L2 U R2 B' R D R' D' B'
IV-49			B2 U' B2 D R2 U R2 U R2 D' F' U' F D' R' F D F' R'
IV-50			D L2 U' R2 F2 D' L2 U B2 U' R' B R2 B' L2 R' U F2 L2
IV-51			R2 U' F2 R2 D B2 L2 B2 D2 R2 F' U' F2 R' F D U' F2 U R'
IV-52			B2 U R2 D' F2 D F2 U' F2 D2 B' R' F R' B2 U2 F L2 B U2

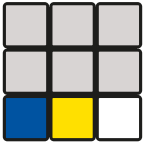
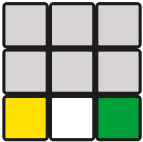
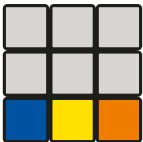
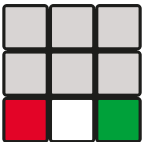
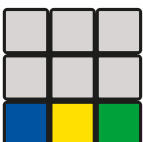
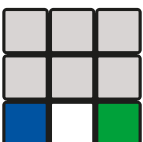
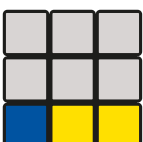
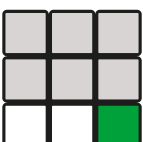
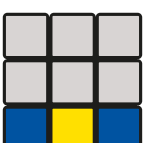
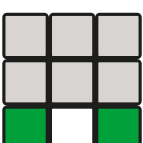
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IV-55			R2 F2 R2 D' R2 F2 R2 D F2 R2 B R2 F2 R' B' R2 F2 R'
IV-56			D2 L2 R2 U' L2 R2 D' L2 B2 L2 R' B' D' B D R' F2 R2
IV-57			B2 U' F2 U2 B2 D' B2 U' R' F2 R' B' F2 R B' L2
IV-58			L2 B2 L2 D' F2 U B2 R2 U' B2 F D B2 D F L2 R' B' R
IV-59			D F2 D R2 D' B2 D L2 B2 U R' F' R2 F D2 F D2 F' R
IV-60			D L2 F2 U R2 U' R2 U' F2 L B F2 R' F R' B' F L
IV-61			D L2 F2 U' F2 U2 R2 U' R2 U' L B F2 R' F R' B' F L
IV-62			F2 D' R2 B2 L2 U' L2 B' R2 F2 R' B' R2 F2 R'

IV-63			D2 L2 U B2 U F2 D2 R2 U2 R' F2 R' B' F2 R B' L2
IV-64			U L2 D' F2 D L2 D' R2 U F' L2 F D U2 B' R B' R
IV-65			R2 D B2 U' L2 U' L2 U B' U R B' D F D2 F' R
IV-66			L2 R2 U L2 R2 D L2 B2 L2 R' B' D' B D R' F2 R2
IV-67			R2 D' R2 F2 R2 D' R2 F2 D2 F' D' R2 F D R F D R'
IV-68			U R2 D' F2 D F2 U' B2 R2 D2 F D2 F L2 F2 R' B' R
IV-69			D2 R2 U2 L2 B2 U' R2 D L2 D F' D R' D R2 F' U' R'
IV-70			B2 R2 D R2 D' L2 D R2 D' R2 B' R D R' D' B L2 B2
IV-71			D' L2 U2 R2 U F2 L2 D B2 D' L' D2 L' F2 U L2 B R B'
IV-72			R2 F2 U2 F2 R2 D B2 D B2 U F L2 R' B L' B L' R F' U'

IV-73			F2 D' R2 F2 R2 D F2 R2 F D' U R F2 R' D U' F'
IV-74			D L2 D' L2 B2 F2 U' R2 U B2 F' D F' L2 F L D' L' F'
IV-75			L2 D F2 D' F2 L2 U' F2 U R2 B U' R' U R B' R2 F2
IV-76			F2 U2 R2 F2 L2 D' B2 L2 F2 U F D' R' D R F
IV-77			U' F2 D' L2 D F2 D2 F2 L2 F2 L D F' D2 F2 L' U' F' U2
IV-78			R2 B2 D F2 L2 U' B2 U F2 L2 B' D' B2 L2 B' L D L B
IV-79			D F2 D2 F2 L2 D L2 U' F2 U F D R' D2 R D' F
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IV-81			B2 R2 F2 U' F2 R2 F2 U B' U' R' U R B' F2
IV-82			U' B2 D R2 D R2 B2 U2 F2 L' B' L2 B L' U' F2

IV-83			U' R2 U F2 D F2 D' F2 U L D' F U2 R B2 U F R
IV-84			D2 L2 F2 D B2 R2 U' R2 B2 D2 F' D F' L2 F L D' L' F'
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IV-89			U2 B2 D' R2 F2 D F2 U' R2 U2 F U2 B2 L2 D L' D' L' U' F'
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IV-91			F2 L2 D' F2 R2 D L2 U' B2 R' B R2 B' R U F2
IV-92			F2 R2 B2 U' B2 U' B2 U2 F R U R' U2 B2 U F' R2 F2

IV-93			D' F2 R2 D F2 D' R2 F2 D R2 F' R D' R2 D R' F
IV-94			R2 U R2 D' R2 U' F2 L2 F2 R2 B' R2 F' R U' B' R' U' F R2
IV-95			L2 U' F2 L2 D' F2 R2 U B2 U' R' F R' D U L2 B D' B'
IV-96			D B2 U B2 R2 U2 L2 U' F2 R F' R D U2 L2 B D B
IV-97			B2 D R2 D' L2 D R2 D' L2 D B' R B D' B' R' B'
IV-98			U' F2 D R2 D' R2 U' R2 U R' B R2 B' R U F2
IV-99			U' B2 U' B2 U R2 U2 R2 B2 U2 R' F' R U2 B2 R2 U' R' F R'
IV-100			D' B2 U' B2 U F2 U' F2 R2 D2 R' D R F' R D' R2 D F R
IV-101			R2 D F2 D' R2 D' F2 U' R2 U R F R' D2 F2 D F D' F'
IV-102			R2 U2 B2 D' R2 B2 U' B2 F2 D' L D' L U' F' D L D' F'

IV-103			L2 B2 D2 L2 D L2 D B2 L2 U' F' D R' D2 R D' F U
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