1.	L	D'		R2	R D'				
2.	U' D2 B		F'		U' L2				
3.	F U2 R2	L	L' D' F2		R F2	B R'	D2 L'		
4.	L2 B' D	R2		R2	R L2				
5.					B2 L2			R2 L	

1.	R' F R' U2 R U2 R2 F' U2 F R	
2.	U'RU'R'FR'U'RUR'U	
3.	R U2 R' U R' U2 F2 R2 U R U2	
4.	U' R' F' R2 U' R2 U' F R F' U	
5.	U R' U2 R2 U2 R2 U2 F U' F U	

444 Scrambles for 2019-05-24

		חו	D	1 lv. <i>t</i>	<u>D</u>	Гъ.,	Dut	
	Fw'	D'	В	Uw	D	FW	Rw'	
	L	Fw2	D'	R'	Rw2	F'	U2	
1.	L Dv./	D'	Fw'	В	Rw'	F'	B'	
	Rw'	R'	В'	Rw2	F	В	U'	
	R	F2	L	R'	Uw2	L	U	
	B2	D2	B2	F'	Uw			
	R2	В	R2	D'	U'	L'	В	
	L	В	R	D2	B'	D'	L2	
2.	В'	F	Rw'	B'	L	D	Uw'	
2.	L'	R2	Rw	D'	Uw	F2	Uw'	
	F	Rw2	Uw2	Rw2	R	L'	D2	
	F'	U'	R2	L2	U'			
	Fw'	Uw2	D'	В	F'	Uw2	R2	
	Uw2	D	Rw'	L2	Fw2	Rw	L2	
	Fw	U	R'	U	D'	Fw2	R'	
3.	Rw2	L2	В'	Fw2	Uw	F	D2	
	F	D2	F2	Fw2	B2	L'	D2	
	Uw	U'	Rw'	В'	Uw2			
	F'	Fw'	U2	L	D'	Rw	R2	
	i	D	FW	Uw	F2	Uw	B2	
	- Uw2	D'	L'	F'	Fw2	Uw2	D	
4.	L2	F	_ D2	R2	F2	Uw'	D'	
	 В	U	Uw	Fw	Uw2		B'	
	Ĺ	D	Rw'	Fw2	F		_	
	В	Rw2	U'	B2	U'	L'	F	
	Rw'	FW	R2	L	Rw'	Uw2	R	
	D	B'	R'	D'	F2	D2	L'	
5.	R2	D'	B2	R	Rw2	_	Uw2	
		R	B	Uw	Rw2	L	B	
	F'		U'	Fw'	UW	-		
			0	ı vv	O VV			

	Uw2	Dw2	Fw	F2	В	L	U	R	Fw	
	L2	R	Dw	Bw'	Lw'	L'	R2	В'	R	
	Bw2	Lw'	Fw'	L2	Uw2	Rw'	Lw	D'	F'	
1.	Lw'	U2	F'	D	F	R'	L2	B2	Dw'	
	L	U2	Dw	D'	Fw	Dw2	U'	Lw'	Dw	
	D2	L2	Bw'	U	Bw2	Fw2	Dw	Rw'	Fw'	
	Dw	U2	L2	Fw	Rw2	Bw				
		D.I.		D. (2	n I	n I	D. (2	D. /	1	
	R U'	B'	R	Dw2	D'	B' R'	Bw2	DW	L	
	L'	D2 D	Rw2 Uw'	L'	Lw2 U	Dw	B B2	R2 Rw'	Rw2 U'	
	Uw2	Rw2	B	U2	F'	B	Rw2	DW	_	
2.	Dw'	Lw'	F'	B2	DW	D'	Uw'	RW	Fw D2	
	B	UW	Lw'	U'	Dw'	F'	Lw2		DW'	
	U2	L	UW	Lw	Bw	Dw'	LWZ	U	DW	
	02	L	UW	LW	DW	DW				
	Fw	Lw'	Uw2	D'	Bw	F	Uw	Lw	R'	
	Bw	R2	Rw'	Bw	U'	Fw'	L	В	Rw'	
	U	Uw2	L2	Uw	U	Lw'	Rw2	Uw2	D'	
3.	B2	Dw'	В	L	Rw'	В	R	D2	Dw	
	U2	В	Lw2	Fw'	Uw2	Dw	F'	Lw2	Bw2	
	U'	Rw2	U2	D	Fw	B'	L2	В'	R2	
	Dw'	Fw2	L'	R'	Dw2	R2				
	В	Uw'	D2	Bw'	R2	D	F	D2	Lw2	
	R'	В'	Rw'	Bw	Fw	D'	R	Dw	Rw'	
	Bw	Dw'	Fw2	F'	В	Lw2	Dw'	U'	Bw'	
4.	F	R'	Dw2	U'	Bw'	Fw2		Uw	R	
	Dw	Lw	Uw'	F'	Uw	Dw2	Fw'	Rw2	Lw2	
	Dw2	Uw2	Rw	Fw'	L2	Rw	Lw	Fw2	R'	
	Uw'	U'	Dw'	Lw2	D'	R				
	Rw2	Uw2	D'	В	Dw	L2	Fw2	R2	Uw2	-
	F2	Uw	Dw	Fw'	Lw	Fw'		Rw2	L2	
	B2	Bw2	Fw	Uw'	U'	Lw2	R	Fw	Lw	
5.	Bw2	D2	F	Lw'	В'	Dw	F	Uw2	D	
5.	L'	Dw	F	Uw2	Lw'	Fw'	D2	U	R2	
	- Fw'	L'	D2	U2	Fw'	Bw'	D'	Ĺ	D	
	L2	Fw2	Dw	Rw	Fw	D				
		-								

Т	1.	011 6	0D '	_		0.00
	Lw .		3Rw'		Uw2	3Rw
	3Fw'	L	3Fw2	U'	F	Fw'
	L	Bw2	F2	Uw'	F'	U2
	Uw'	3Uw'	Dw2	Fw'	В	Rw2
	R	3Fw2	L2	Dw	F	Dw'
	D	F'	Dw	R	3Uw	U'
	Fw'	Lw'	Uw2	L'	F2	R
1.	U'	В'	Uw2	Dw'	В	Rw2
	3Uw	B2	F'	U	L	3Uw2
	R	3Rw	Uw'	Bw'	Uw2	R2
	Dw2	Bw2	Fw'	D	LW	B2
	3Rw'	LW'	D	Bw2	Dw'	Bw
	Lw	3Uw2	Bw2	L'	3Rw2	Bw
	L'	Uw'				
	U	Rw2	L	R'	Lw2	3Rw'
	Dw	Lw2	D	F'	Uw2	Dw2
	3Fw	R2	Fw'	F'	R2	RW
	Fw'	Uw2	U'	D2	LW'	3Rw'
		LW	В	BW	R'	Dw2
	Bw		В		В	Rw'
	R	Rw2		Dw'		
2.	В	Lw2	R2	В	BW	D2
۲٠	R'	Rw'	L	Bw'	B' .	R
	Bw	В'.	L	F	Bw'	B2
	Uw	Rw'	U2	Fw2	L'	F'
	Bw2	Uw2	Rw	U	3Uw2	L
	F2	3Rw2	Dw2	Uw2	R'	В
	Fw2	3Fw2	Uw	Lw'	B2	Rw2
	F	Bw				
	11 1	_		05: .0	D I	5.0
	Uw'	В	L	3Fw2		D2
	R'	3Uw'	Rw	Dw'	Rw2	LW
	Dw2	Uw2	B2	3Fw2		F2
	3Uw'	Fw2	3Uw2	LW	Uw'	3Fw2
	Fw	В	Uw'	3Rw	U2	F2
	U'	3Rw'	3Fw2	R2	Fw'	3Rw'
	Bw'	Lw	F	B2	3Uw2	Bw2
3.	Lw	3Uw2	3Fw	Dw	3Rw	R'
	3Uw	F'	D2	3Rw	D2	3Fw'
	3Uw'	D	U2	Rw'	Fw	3Rw2
	R'	L2	Rw'	Lw'	3Uw	Bw
	Dw	U'	B'	3Rw'	B	Uw2
	Fw'	Lw2	L2	R	Uw'	U
	Rw'	LW L	LZ	11	OW	U
	ΓW	LW				

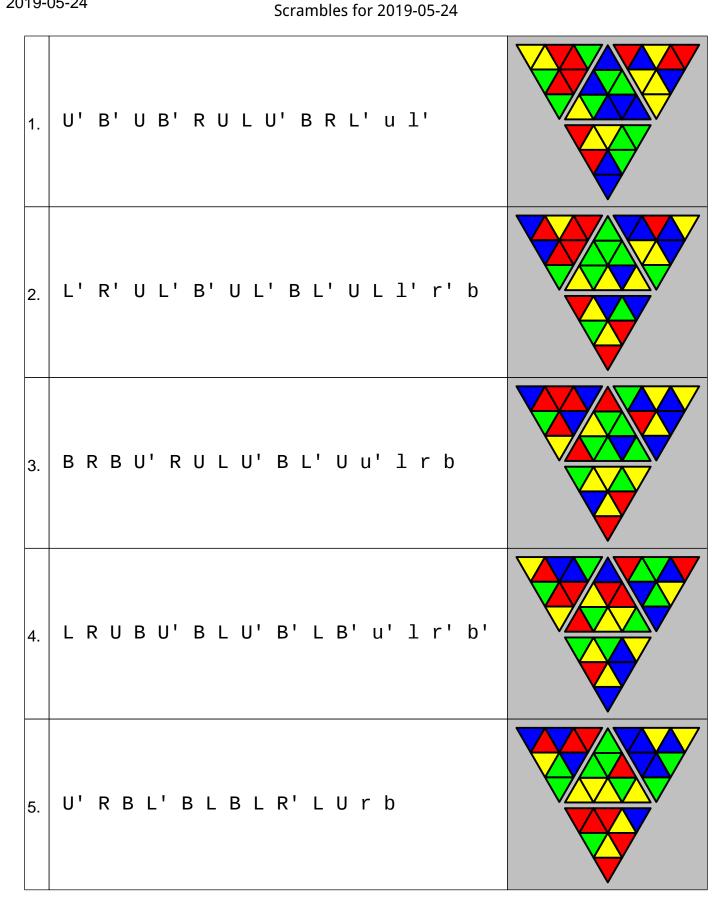
	F2	3Lw2	Rw2	D	Dw'	Bw2	Rw2	
	Fw'	3Rw	R2	3Bw2	R'	U2	В	
	Rw2	3Fw'	B2	3Rw'	3Fw2	L2	U'	
	Bw	Rw2	U2	D'	3Fw'	3Dw2	Dw'	
	3Lw'	Lw'	U2	R'	Lw2	3Fw	Dw2	
	L'	Rw	U2	R	3Fw2	3Bw'	3Uw2	
	Fw'	3Rw2	3Lw	Fw	D2	U	Bw'	
1.	D'	3Lw	Lw	F2	U	3Rw2	3Bw	
۱۰ [3Rw2	Bw2	В'	Rw	3Rw	3Uw2		
	В	R'	Lw'	3Bw'	Bw'	F'	U	
	3Rw2	3Dw2	Fw'	F'	Lw'	3Bw	D'	
	Lw2	U	B2	Fw	3Fw2	L'	U	
	L	3Lw2		Dw	F	D	L	
	В	Lw	Bw'	Fw'	3Uw'	3Dw2	Lw'	
	R2	3Dw'						
	30, 13	D!	3Dw'	211.7	D	20.7	Eu/2	
	3Dw2			3Uw	R	3Rw	Fw2	
	Lw' U'	FW	3Bw'	Rw'	F	UW	LW	
		F	Uw	F2	Uw	Bw	3Lw'	
	3Uw	Bw'	Uw2	3Bw'	D	U	LW	
	R2	Fw'	Dw2	FW	3Dw'	U2	Bw L'	
	Dw2	RW	3Bw2	3Dw	Fw'	R'		
	D Dud	L2	U2	L'	B2	3Bw	Fw'	
2.	Rw'	3Lw'	Uw	3Fw	3Uw	Dw'	F2	
	L'	Fw'	D	В	L2	3Fw2	3Lw	
	Bw	Rw2	Uw2	F	BW	3Dw'	FW	
	R	3Lw2		3Uw	3Rw'	3Lw	Uw2	
	3Dw	U'	D'	Fw2	LW	D'	Rw2	
	L2	D	R2	3Fw	3Dw'	Fw2	3Dw2 F'	
	F Fw'	R2 Lw'	Lw2	Bw	Rw2	R'	F	
	rw	LW						-
			_					
	Lw'	3Lw'		Bw'	3Rw	L2	U2	
	Bw	R2	Uw2	B	BW	L	R	
	F2	Lw2	L2	Rw'	3Bw2		Dw'	
	3Bw	R2	Rw2				3Dw2	
	U	B2	R	LW	3LW	FW	D2	
	3Uw2		L	Rw'	Bw'	3FW	Fw'	
	3Lw'	D'	Lw2	L	Bw'	3Dw2		
3.	3Bw'	Fw'	U'	Dw	LW	Uw	3Bw2	
	U'	Rw'		3Lw'	3Fw'	3Dw	B2	
	Bw'	Lw2	В	Fw2	F2	3Uw	3Lw'	
	3Uw'	3Rw	В'	Lw'	R'	3Rw	D'	
	R'	3Bw2		D' .	Rw	3Bw'	R2	
	Dw'	3Bw	L2	Lw'	R	F	Fw'	
	D'	В	3Rw	LW	R2	L	Dw2	
	Bw	3Uw'						
- 1								

333bf Scrambles for 2019-05-24

1.	U2 R2 F2 U2 F R2 B D2 L2 F D' F R' F D2 B' F2 R U B' F' Rw2 Uw2	
2.	F2 R2 D L2 U L2 D2 R2 F2 L2 F' L' R' F R2 U B2 D2 L' B Uw	
3.	D B2 R2 D2 R2 F D2 F' D' F2 D2 U R U B R2 FW UW'	

333oh Scrambles for 2019-05-24

1.	D2 B' U2	L	U F2 B			D2 B2		
2.	D2		D2 R2 B'	F'				
3.	D2 B F2	R'	U2 L B2			U D2		
4.	U' L F	L2 D U	F2 B2			L2 B		
5.		R2 U' L2		F R' R'		D2 D	B2 B'	

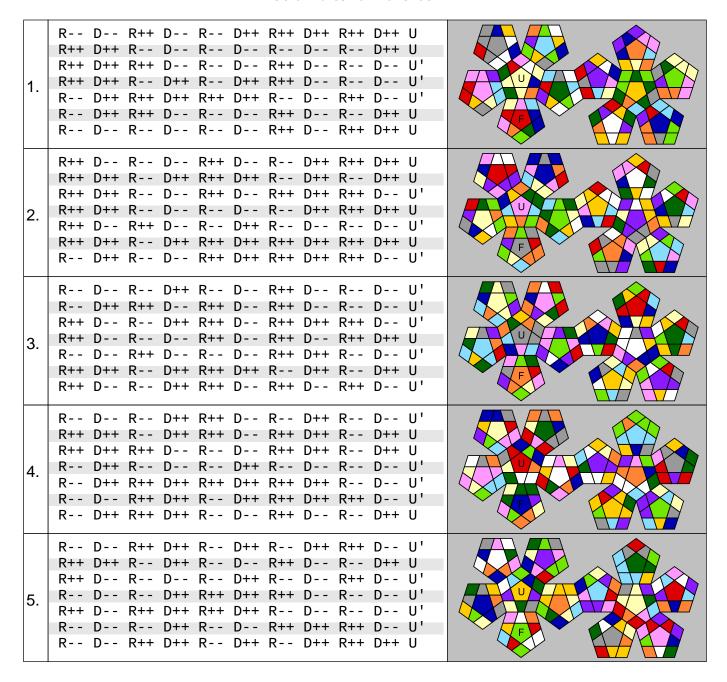


pyram

1.	L B U' R B L' B L R B U	
2.	LRU'RUL'RB'UL'B'	
3.	LRB'LR'L'U'RBRB'	
4.	LRB'ULRL'BLB'U	
5.	R L' R' B' L B R U' R B' R	

1.	(0,2) / (4,-2) / (-3,0) / (3,-3) / (0,-3) / (-1,0) / (-2,0) / (0,-2) /	(-2,0) / (6,-4) /	
2.	(1,3) / (-3,3) / (3,-3) / (6,0) / (-3,0) / (0,-1) / (-2,0) / (0,-5) /	(0,-5) / (2,-3) /	
3.	(6,0) / (-4,-1) (3,0) / (0,-3)	/ (1,4) / / (-5,-3) / / (0,-4) / / (-2,-4) /	
4.	(1,0) / (2,-1) (6,-1) / (3,0) (0,-2) / (-5,0) (-3,-2) / (3,-4)	/ (-4, -5) / / (-4, 0) /	
5.	(3,-1) / (-5,-2) (-4,-1) / (1,-3) (6,0) / (-5,0) (6,-4) / (0,-3)	/ (0,-3) / / (0,-2) /	

minx Scrambles for 2019-05-24



1.	UR5- UL4- D4+ y2 D0+ DR	DR1- U5- L3+ U5+ L3-	DL6+ R4- ALL3- R3+ ALL6+	
2.	UR5+ UL0+ D0+ y2 D5- DR	DR1+ U1- L5- U4- L2+ DL	DL3+ R2- ALL3- R2- ALL4- UL	
3.	UR2- UL3- D4+ y2 D5+ UR	DR4- U0+ L2- U1+ L2- UL	DL5- R5+ ALL5+ R0+ ALL4+	
4.	UR4- UL6+ D1- y2 D0+ DR	DR1+ U1+ L4+ U4+ L0+	DL4+ R2- ALL2+ R3- ALL5-	
5.	UR4+ UL2- D5+ y2 D2- DR	DR3+ U3- L3- U4- L4+ DL	DL2+ R5+ ALL1+ R3+ ALL6+	

Fewest Moves

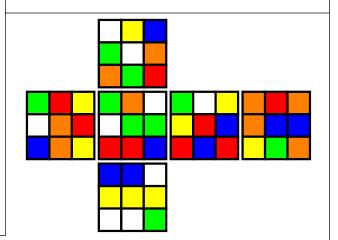
- -> You have 60 minutes to find and write a solution.
- -> Write 1 move per bar. To delete a move, clearly blacken it.
- -> Your solution must not be directly derived from any part of the scrambling algorithm.
- -> Your solution must be at most 80 moves, including rotations.
- -> Your result will be counted in OBTM.
- -> Only use notation from Article 12 of the WCA Regulations. If you are uncertain, use only the exact moves listed here:

Face Moves

Clockwise F U D Counter-clockwise F' U' B' D' Double F2 R2 U2 B2 L2 D2 **Rotations** Clockwise [f] [l] [d] [r] [u] [b] Counter-clockwise [f'] [r'] [u'] [b'] [l'] [d'] Double [f2] [r2] [u2] [b2] [l2] [d2]

Scrambles for 2019-05-24 333fm

Competitor:	
WCA ID:	
DO NOT FILL IF YOU A	RE THE COMPETITOR.
Graded by:	Result:



Scramble: R' U' F D U L2 B2 U' L2 B2 L2 D' U' B R U R2 B F U F' R' U' F

Fewest Moves

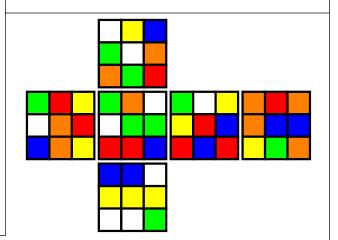
- -> You have 60 minutes to find and write a solution.
- -> Write 1 move per bar. To delete a move, clearly blacken it.
- -> Your solution must not be directly derived from any part of the scrambling algorithm.
- -> Your solution must be at most 80 moves, including rotations.
- -> Your result will be counted in OBTM.
- -> Only use notation from Article 12 of the WCA Regulations. If you are uncertain, use only the exact moves listed here:

Face Moves

Clockwise F U D Counter-clockwise F' U' B' D' Double F2 R2 U2 B2 L2 D2 **Rotations** Clockwise [f] [l] [d] [r] [u] [b] Counter-clockwise [f'] [r'] [u'] [b'] [l'] [d'] Double [f2] [r2] [u2] [b2] [l2] [d2]

Scrambles for 2019-05-24 333fm

Competitor:	
WCA ID:	
DO NOT FILL IF YOU A	RE THE COMPETITOR.
Graded by:	Result:



Scramble: R' U' F D U L2 B2 U' L2 B2 L2 D' U' B R U R2 B F U F' R' U' F

333ft Scrambles for 2019-05-24

1.	D F' L'	R2 D' U'	D R' B'	L2 B'	R2 R2		B2 R'		
2.	F F' D	D2 D' R'	B2 F D2	D2 L' B2		B' B2		B' B'	
3.	L' F D'	D	R2 F D2	U2 U'				R L2	
4.	F2 R' L2	В	R D'						
5.	R' D' B		U2 F F'			F R2			

444bf Scrambles for 2019-05-24

	D.C.		-		D O	
	D2	L'	F2	R'	D2	
	R	D2	B2	R2	B2	
	L2	D'	В'	U	R'	
	U	В	L	D2	В	
1.	F'	Uw2	В'	R	Fw2	
'-	R'	F'	D2	R2	Fw2	
	F	L2	Uw'	F	R2	
	D2	В'	Uw'	D'	Rw	
	F'	U2	Fw'	D	Rw2	
	Fw'	Χ	У			
	L	F2	U2	F2	U2	
	R	U2	R	U2	L2	
	F'	R2	U'	F	U'	
	L'	D	R	B2	L2	
	Rw2	F	D	Rw2	D'	
2.	F	Rw2	Uw2	F	U2	
	Fw2	F	D	L	Fw2	
	R2	U2	Rw'	Uw'	Rw	
	L2	Uw'		F'	Uw'	
	Χ					
	U2	B2	U2	L2	В	
	D2	L2	U2	F'	R2	
	F'	D'	В	D.	R	
	U'	R'	U2	F	R2	
	Rw2	В	D	Fw2		
3.	D2	Ū	Fw2		F	
	L2	Fw2	Rw	L'	U'	
	R	F	Fw'	В	Uw	
1		•				
	R2	Fw'	Rw	B2	U'	
	R2 z'	Fw'	Rw	B2	U'	

555bf Scrambles for 2019-05-24

	F'	B'	Dw'	Lw'	В'	
	U'	F'		LW D'		
	U		Rw2 Bw'		Rw'	
		LW		Lw'	Dw'	
	Rw2	Lw'	UW	Dw2	R	
	Uw2	Bw'	Dw2	Rw2	В	
	R2	FW	L	Fw'	F	
1.	Rw2	L'	U'	L'	Bw	
	U'	F2	Bw	D	R'	
	Uw	B'	FW	F2	LW'	
	FW	D'	Fw2	Dw	Lw2	
	L2	D'	Fw	R	Bw	
	L2	Bw2	Uw	U'	LW	
	3Fw	3Uw2				
	Bw'	Dw2	Uw2	F2	Lw'	
	U	Lw'	D	L'	F'	
2.	Rw'	Dw	F	U2	Dw2	
	B2	Rw2	Bw'	Rw'	U	
	Rw	R2	Lw	В'	R'	
	F'	В'	Uw	D	R2	
	Dw2	U	Lw	F2	U	
	F	R	Fw2	F'	Uw	
	Bw2	Rw2	Lw	F'	В'	
	R2	Uw2	F2	LW	L2	
	D2	В	Bw	D2	F	
	Fw'	Dw'	Bw2	Rw'	Bw	
	3Rw'	3Uw				
	L	Fw2	Bw	D2	В'	
	R	Lw2	Fw	Rw'	R	
	F	Rw'	Uw'	В'	F	
	R	F'	Dw	Uw	U	
	Bw2	U	Rw'	D	F	
	B2	L2	Lw	Bw'	B2	
3.	L'	В	Uw2	Dw2	R	
	L	Dw	Lw	U2	Fw2	
	Dw	R'	Dw2	D2	F2	
	D	U'	Rw	U	D	
	Fw'	D'	Rw	L'	Lw2	
	Dw	R	Lw2	D2	Lw2	
	3Uw2					

1.	D' F2 L	F2 R D2	D B2 U'	L2 L B'	U F U'	F2 R' Rw'	R2 D Uw	
2.	U U R'	B2 B' U'	D2 U' L2	L2 B' R'	D2 U2 D'	U L Fw'	R2 U2 Uw'	
3.	L'	L2 F B2 F U L	' D		L2 B	_	U2 U'	
4.	L F D2	F2 R2 B	R' B2 L	F2 D' R	U2 F2 Fw'	L' U2	R2 L'	
5.	U L2 U Uw2	B2 F F2	F2 D' L	U U' R	B2 L B	D2 R2 D'	U B' Rw'	

6.	D2 L' R	В		В	F2 F F'	R L Rw	U2 B Uw2	
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