

Pattern. **Overlapping chocolate-bar 3-count feed**

A B C  
D E F G

*D & G do 3-count; A & C chocolate bar; C,E, & F double 3-count; B does a tough 1-count (hard to do and hard to remember!).*

7 jugglers/ both hands counting	1	2	3	4	5	6	7	8	9	10	11	12
A	D	E			E	F			F	D		
B	E	F	F	D	F	G	D	E	G	E	E	F
C			G	E			E	F			F	G
D	A			B			B			A		
E	B	A		C	A		C	B		B	B	
F		B	B		B	A		C	A		C	B
G			C			B			B			C

First tried by MAJ, Sunday Aug 13, 2017

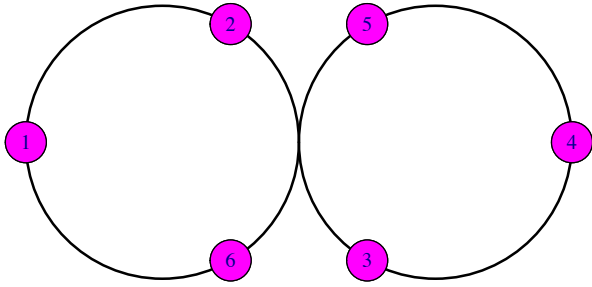
Pattern. *Foi Graham*

A B C  
D E F

positons						
	A	B	C	D	E	F
1	1	9	5	5'	9'	1'
2	2	10	6	6'	10'	2'
3	3	11	7	7'	11'	3'
4	4	12	8	8'	12'	4'
5	5	1	9	9'	1'	5'
6	6	2	10	10'	2'	6'
7	7	3	11	11'	3'	7'
8	8	4	12	12'	4'	8'
9	9	5	1	1'	5'	9'
10	10	6	2	2'	6'	10'
11	11	7	3	3'	7'	11'
12	12	8	4	4'	8'	12'

passes						
	A	B	C	D	E	F
1	F					A
2		E			B	
3		D	E	B	C	
4	E	F			A	B
5		E			B	
6			D	C		
7	D		F	A		C
8		D	E	B	C	
9			D	C		
10	F					A
11	E	F			A	B
12	D		F	A		C

**Pattern.  $2\pi/3$ .** Three moving jugglers, A, B, and C; six passing beats (on count of choice; rows of tables) for full cycle. Everyone moves through the figure eight; in contrast to a Turbo or Bruno's nightmare?, there is not a feeder being swapped here; all folks are moving all the time. Four count is fun; three count is more fun. In any count, it's pass-one, pass-the other, self. Whatever is the base count the pattern has a gap (in this layout, positions 2 and 5) where you can plug in any other juggler or pattern that matches that count (including three other jugglers doing a  $2\pi/3$ !). Looks like two pies when viewed from above, and it's 3 jugglers. Plus, each circle in the layout is divided into 3, hence the name. Lots of  $2\pi/3$  from summer 2017.

positons				passes				layout
	A	B	C		A	B	C	
1	1	5	3	1	C		A	
2	2	6	4	2		C	B	
3	3	1	5	3	B	A		
4	4	2	6	4	C		A	
5	5	3	1	5		C	B	
6	6	4	2	6	B	A		

**Variations:** add one feeder to fill the gap (4 jugglers); `mate` two  $2\pi/3$ 's to fill both gaps (6 jugglers); do that switching sides or not.

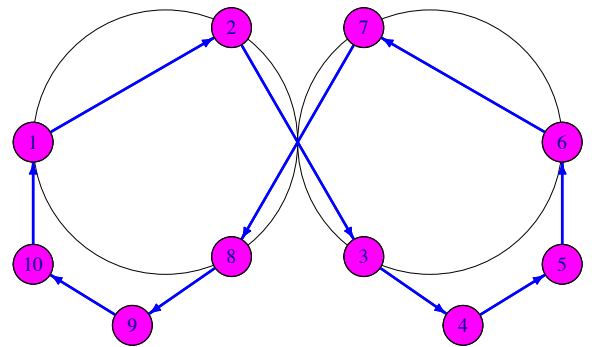
*Pattern. Ivy pi (first tried Aug 27/17; Mike, Mel, Conor, Nick, Jason)*

positions					
	A	B	C	D	E
1	1	3	5	7	9
2	2	4	6	8	10
3	3	5	7	9	1
4	4	6	8	10	2
5	5	7	9	1	3
6	6	8	10	2	4
7	7	9	1	3	5
8	8	10	2	4	6
9	9	1	3	5	7
10	10	2	4	6	8

passes					
	A	B	C	D	E
1	D	E		A	B
2	C	D	A	B	
3	D		E	A	C
4	C	E	A		B
5		D	E	B	C
6	D	E		A	B
7	C	D	A	B	
8	D		E	A	C
9	C	E	A		B
10		D	E	B	C

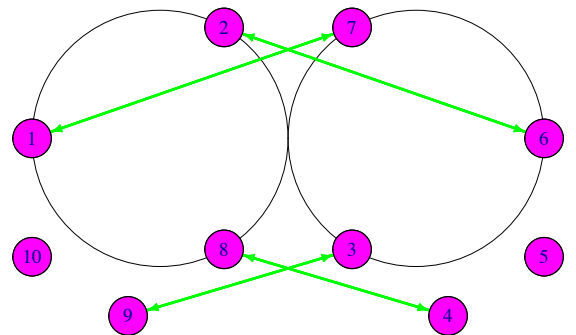
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Moves



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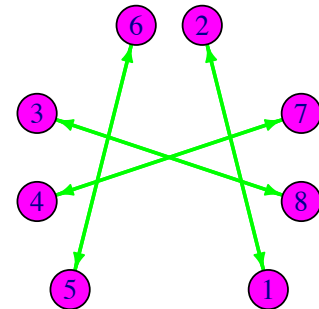
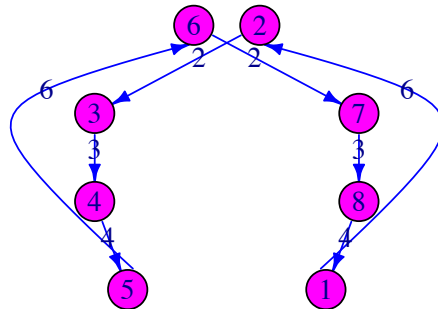
# Passes





**Pattern: Egg Beater switching handles** [5 jugglers]. (first done Nov 2, 17 by Graham=A, Mel=B, Mike=C, Jeff=D, Nick=E; nickname EggBeatOff) The table shows positions where each juggler (column) must be at that passing beat [right-hand counting in rows]. Only passes are indicated. So positions 1-2 exchange, similarly 3-8, 4-7, and 5-6. The first graph shows where each juggler moves; edge weights indicate number of right-hand counts up to next throw. Right graph shows passing events. Start with jugglers at 4, 7, near 1, 2, and on the edge moving towards 6. There are 30 right hand beats to get around, which seems excessive but doesn't feel so bad when juggling, thanks to symmetries I guess.

	A	B	C	D	E
1		7			4
2	2		1		
3					
4	3	8			
5				6	5
6					
7	4			7	
8		1	2		
9					
10			3	8	
11	5				6
12					
13			4		7
14		2		1	
15					
16		3			8
17	6		5		
18					
19	7	4			
20				2	1
21					
22	8			3	
23		5	6		
24					
25			7	4	
26	1				2
27					
28			8		3
29		6		5	
30					



*Pattern. Mel's 3-5 Foi-Graham (first tried Dec 1/17; Mike, Mel, Conor, Peter, Graham, Chan, Mark, Jeff)*

A B C  
D E F G H