

3objects 2jugglers 1pass

AJ ₃ 3.5p 1 ₄	AK ₂ 3.5p 1 ₅	AL ₂ 3.5p 1 ₆	AM ₂ 3.5p 1 ₇	AN ₂ 3.5p 1 ₈	2 ₅ 3.5p 1 ₉
AP ₃ p 1 ₃	AO ₂ 3p 1 ₄	AR ₂ 3p 1 ₅	AS ₂ 3p 1 ₆	AT ₂ 3p 1 ₇	2 ₅ 3p 1 ₈
AU ₂ 2.5p 1 ₂	AV ₂ 2.5p 1 ₃	AW ₂ 2.5p 1 ₄	AX ₂ 2.5p 1 ₅	AY ₂ 2.5p 1 ₆	2 ₅ 2.5p 1 ₇
2p 1	AZ ₂ 2p 1 ₂	BA ₂ 2p 1 ₃	BB ₂ 2p 1 ₄	BC ₂ 2p 1 ₅	2 ₅ 2p 1 ₆
1.5p	BD ₂ 1.5p 1	BE ₂ 1.5p 1 ₂	BF ₂ 1.5p 1 ₃	BG ₂ 1.5p 1 ₄	2 ₅ 1.5p 1 ₅
2 1p	BH ₂ 1p 1	BI ₂ 1p 1 ₂	BJ ₂ 1p 1 ₃	2 ₅ 1p 1 ₄	

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4objects 2jugglers 2passes

3.5p ₂ 1 ₃	3 3.5p ₂ 1 ₄	3 ₂ 3.5p ₂ 1 ₅	3 ₃ 3.5p ₂ 1 ₆	3 ₄ 3.5p ₂ 1 ₇	3 ₅ 3.5p ₂ 1 ₈
3p ₂ 1 ₂	3 3p ₂ 1 ₃	3 ₂ 3p ₂ 1 ₄	3 ₃ 3p ₂ 1 ₅	3 ₄ 3p ₂ 1 ₆	3 ₅ 3p ₂ 1 ₇
2.5p ₂ 1	3 2.5p ₂ 1 ₂	3 ₂ 2.5p ₂ 1 ₃	3 ₃ 2.5p ₂ 1 ₄	3 ₄ 2.5p ₂ 1 ₅	3 ₅ 2.5p ₂ 1 ₆
2p ₂	3 2p ₂ 1	3 ₂ 2p ₂ 1 ₂	3 ₃ 2p ₂ 1 ₃	3 ₄ 2p ₂ 1 ₄	3 ₅ 2p ₂ 1 ₅
	3 1.5p ₂	3 ₂ 1.5p ₂ 1	3 ₃ 1.5p ₂ 1 ₂	3 ₄ 1.5p ₂ 1 ₃	3 ₅ 1.5p ₂ 1 ₄
		3 ₂ 1p ₂	3 ₃ 1p ₂ 1	3 ₄ 1p ₂ 1 ₂	3 ₅ 1p ₂ 1 ₃

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X ₄ 4.5p 2 ₄	Y ₃ 4.5p 2 ₅	Z ₃ 4.5p 2 ₆	AA ₃ 4.5p 2 ₇	AB ₃ 4.5p 2 ₈	3 ₅ 4.5p 2 ₉
AD ₄ p 2 ₃	AE ₃ 4p 2 ₄	AF ₃ 4p 2 ₅	AG ₃ 4p 2 ₆	AH ₃ 4p 2 ₇	3 ₅ 4p 2 ₈
AI ₃ 3.5p 2 ₂	AJ ₃ 3.5p 2 ₃	AK ₃ 3.5p 2 ₄	AL ₃ 3.5p 2 ₅	AM ₃ 3.5p 2 ₆	AN ₃ 3.5p 2 ₇
AO ₃ p 2	AP ₃ 3p 2 ₂	AQ ₃ 3p 2 ₃	AR ₃ 3p 2 ₄	AS ₃ 3p 2 ₅	AT ₃ 3p 2 ₆
2.5p	AU ₃ 2.5p 2	AV ₃ 2.5p 2 ₂	AW ₃ 2.5p 2 ₃	AX ₃ 2.5p 2 ₄	AY ₃ 2.5p 2 ₅
	3 2p	AZ ₃ 2p 2	BA ₃ 2p 2 ₂	BB ₃ 2p 2 ₃	BC ₃ 2p 2 ₄
		BD ₃ 1.5p	BE ₃ 1.5p 2	BF ₃ 1.5p 2 ₂	BG ₃ 1.5p 2 ₃
		BH ₃ 1p	BI ₃ 1p 2	BJ ₃ 1p 2 ₂	
				3 ₄ 0.5p	3 ₅ 0.5p 2

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5objects 2jugglers 3passes

4.5p ₃ 1 ₄	4 4.5p ₃ 1 ₅	4 ₂ 4.5p ₃ 1 ₆	4 ₃ 4.5p ₃ 1 ₇	4 ₄ 4.5p ₃ 1 ₈
4p ₃ 1 ₃	4 4p ₃ 1 ₄	4 ₂ 4p ₃ 1 ₅	4 ₃ 4p ₃ 1 ₆	4 ₄ 4p ₃ 1 ₇
3.5p ₃ 1 ₂	4 3.5p ₃ 1 ₃	4 ₂ 3.5p ₃ 1 ₄	4 ₃ 3.5p ₃ 1 ₅	4 ₄ 3.5p ₃ 1 ₆
3p ₃ 1	4 3p ₃ 1 ₂	4 ₂ 3p ₃ 1 ₃	4 ₃ 3p ₃ 1 ₄	4 ₄ 3p ₃ 1 ₅
2.5p ₃	4 2.5p ₃ 1	4 ₂ 2.5p ₃ 1 ₂	4 ₃ 2.5p ₃ 1 ₃	4 ₄ 2.5p ₃ 1 ₄
	4 2p ₃	4 ₂ 2p ₃ 1	4 ₃ 2p ₃ 1 ₂	4 ₄ 2p ₃ 1 ₃
		4 ₂ 1.5p ₃	4 ₃ 1.5p ₃ 1	4 ₄ 1.5p ₃ 1 ₂
			4 ₃ 1p ₃	4 ₄ 1p ₃ 1

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5objects 2jugglers 1pass synchronous

(5p,2x) (2,2) ₂	(2,4x) (5p,2x) (2,2) ₃	(4x,2)(2,4x) (5p,2x) (2,2) ₄
(4p,2x) (2,2)	(2,4x) (4p,2x) (2,2) ₂	(4x,2)(2,4x) (4p,2x) (2,2) ₃
(3p,2x)	(2,4x) (3p,2x) (2,2)	(4x,2)(2,4x) (3p,2x) (2,2) ₂
	(2,4x) (2p,2x)	(4x,2)(2,4x) (2p,2x) (2,2) ₁
		(4x,2)(2,4x) (1p,2x)
		(2,4x)(4x,2)(2,4x) (5p,2x) (2,2) ₅
		(2,4x)(4x,2)(2,4x) (4p,2x) (2,2) ₄
		(2,4x)(4x,2)(2,4x) (3p,2x) (2,2) ₃
		(2,4x)(4x,2)(2,4x) (2p,2x) (2,2) ₂
		(2,4x)(4x,2)(2,4x) (1p,2x) (2,2)

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6objects 2jugglers 2passes

4.5p ₂ 2 ₃	4 4.5p ₂ 2 ₄	4 ₂ 4.5p ₂ 2 ₅	4 ₃ 4.5p ₂ 2 ₆	4 ₄ 4.5p ₂ 2 ₇	4 ₅ 4.5p ₂ 2 ₈
4p ₂ 2 ₂	4 4p ₂ 2 ₃	4 ₂ 4p ₂ 2 ₄	4 ₃ 4p ₂ 2 ₅	4 ₄ 4p ₂ 2 ₆	4 ₅ 4p ₂ 2 ₇
3.5p ₂ 2	4 3.5p ₂ 2 ₂	4 ₂ 3.5p ₂ 2 ₃	4 ₃ 3.5p ₂ 2 ₄	4 ₄ 3.5p ₂ 2 ₅	4 ₅ 3.5p ₂ 2 ₆
3p ₂	4 3p ₂ 2	4 ₂ 3p ₂ 2	4 ₃ 3p ₂ 2 ₃	4 ₄ 3p ₂ 2 ₄	4 ₅ 3p ₂ 2 ₅
	4 2.5p ₂	4 ₂ 2.5p ₂ 2	4 ₃ 2.5p ₂ 2 ₂	4 ₄ 2.5p ₂ 2 ₃	4 ₅ 2.5p ₂ 2 ₄
		4 ₂ 2p ₂	4 ₃ 2p ₂ 2	4 ₄ 2p ₂ 2 ₂	4 ₅ 2p ₂ 2 ₃
			4 ₃ 1.5p ₂	4 ₄ 1.5p ₂ 2	4 ₅ 1.5p ₂ 2 ₂
				4 ₄ 1p ₂	4 ₅ 1p ₂ 2

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7objects 2jugglers 1pass

L ₅ 5.5p 3 ₄	M ₄ 5.5p 3 ₅	N ₄ 5.5p 3 ₆	O ₄ 5.5p 3 ₇	P ₄ 5.5p 3 ₈	4 ₅ 5.5p 3 ₉
R ₅ p 3 ₃	S ₄ 5p 3 ₄	T ₄ 5p 3 ₅	U ₄ 5p 3 ₆	V ₄ 5p 3 ₇	4 ₅ 5p 3 ₈
W ₄ 4.5p 3 ₂	X ₄ 4.5p 3 ₃	Y ₄ 4.5p 3 ₄	Z ₄ 4.5p 3 ₅	AA ₄ 4.5p 3 ₆	AB ₄ 4.5p 3 ₇
AC ₄ p 3	AD ₄ 4p 3 ₂	AE ₄ 4p 3 ₃	AF ₄ 4p 3 ₄	AG ₄ 4p 3 ₅	AH ₄ 4p 3 ₆
3.5p	AI ₄ 3.5p 3	AJ ₄ 3.5p 3 ₂	AK ₄ 3.5p 3 ₃	AL ₄ 3.5p 3 ₄	AM ₄ 3.5p 3 ₅
	AO ₄ 3p	AP ₄ 4p 3	AQ ₄ 3p 3 ₂	AR ₄ 4p 3 ₃	AS ₄ 4p 3 ₄
		AU ₄ 2.5p	AV ₄ 3p 3	AW ₄ 2.5p 3 ₂	AX ₄ 2.5p 3 ₃
			AZ ₄ 2p	BA ₄ 4p 3	BB ₄ 4p 3 ₂
				BE ₄ 4p 1.5p	BF ₄ 4p 1.5p 3
					BI ₄ 4p 1p

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7objects 2jugglers 3passes

5.5p ₃ 2 ₄	5 5.5p ₃ 2 ₅	5 ₂ 5.5p ₃ 2 ₆	5 ₃ 5.5p ₃ 2 ₇	5 ₄ 5.5p ₃ 2 ₈
5p ₃ 2 ₃	5 5p ₃ 2 ₄	5 ₂ 5p ₃ 2 ₅	5 ₃ 5p ₃ 2 ₆	5 ₄ 5p ₃ 2 ₇
4.5p ₃ 2 ₂	5 4.5p ₃ 2 ₃	5 ₂ 4.5p ₃ 2 ₄	5 ₃ 4.5p ₃ 2 ₅	5 ₄ 4.5p ₃ 2 ₆
4p ₃ 2	5 4p ₃ 2 ₂	5 ₂ 4p ₃ 2 ₃	5 ₃ 4p ₃ 2 ₄	5 ₄ 4p ₃ 2 ₅
3.5p ₃	5 3.5p ₃ 2	5 ₂ 3.5p ₃ 2 ₂	5 ₃ 3.5p ₃ 2 ₃	5 ₄ 3.5p ₃ 2 ₄
	5 3p ₃	5 ₂ 3p ₃ 2	5 ₃ 3p ₃ 2 ₂	5 ₄ 3p ₃ 2 ₃
		5 ₂ 2.5p ₃	5 ₃ 2.5p ₃ 2	5 ₄ 2.5p ₃ 2 ₂
			5 ₃ 2p ₃	5 ₄ 2p ₃ 2

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2
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7objects 2jugglers 1pass synchronous

(4,6p) (4x,2x) ₃	(4,4) (4,6p) (4x,2x) ₄	(4,4) ₂ (4,6p) (4x,2x) ₅
(4,5p) (4x,2x) ₂	(4,4) (4,5p) (4x,2x) ₃	(4,4) ₂ (4,5p) (4x,2x) ₄
(4,4p) (4x,2x)	(4,4) (4,4p) (4x,2x) ₂	(4,4) ₂ (4,4p) (4x,2x) ₃
(4,3p)	(4,4) (4,3p) (4x,2x)	(4,4) ₂ (4,3p) (4x,2x) ₂

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8objects 2jugglers 2passes

5.5p ₂ 3 ₃	5 5.5p ₂ 3 ₄	5 ₂ 5.5p ₂ 3 ₅	5 ₃ 5.5p ₂ 3 ₆	5 ₄ 5.5p ₂ 3 ₇	5 ₅ 5.5p ₂ 3 ₈
5p ₂ 3 ₂	5 5p ₂ 3 ₃	5 ₂ 5p ₂ 3 ₄	5 ₃ 5p ₂ 3 ₅	5 ₄ 5p ₂ 3 ₆	5 ₅ 5p ₂ 3 ₇
4.5p ₂ 3	5 4.5p ₂ 3 ₂	5 ₂ 4.5p ₂ 3 ₃	5 ₃ 4.5p ₂ 3 ₄	5 ₄ 4.5p ₂ 3 ₅	5 ₅ 4.5p ₂ 3 ₆
4p ₂	5 4p ₂ 3	5 ₂ 4p ₂ 3 ₂	5 ₃ 4p ₂ 3 ₃	5 ₄ 4p ₂ 3 ₄	5 ₅ 4p ₂ 3 ₅
	5 3.5p ₂	5 ₂ 3.5p ₂ 3	5 ₃ 3.5p ₂ 3 ₂	5 ₄ 3.5p ₂ 3 ₃	5 ₅ 3.5p ₂ 3 ₄
		5 ₂ 3p ₂	5 ₃ 3p ₂ 3	5 ₄ 3p ₂ 3 ₂	5 ₅ 3p ₂ 3 ₃

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2
2



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8objects 2jugglers 2passes synchronous

(8p,6p) (2x,4x) ₃	(6x,4) (8p,6p) (2x,4x) ₄	(4,6x)(6x,4) (8p,6p) (2x,4x) ₅
(7p,5p) (2x,4x) ₂	(6x,4) (7p,5p) (2x,4x) ₃	(4,6x)(6x,4) (7p,5p) (2x,4x) ₄
(6p,4p) (2x,4x)	(6x,4) (6p,4p) (2x,4x) ₂	(4,6x)(6x,4) (6p,4p) (2x,4x) ₃
(5p,3p)	(6x,4) (5p,3p) (2x,4x)	(4,6x)(6x,4) (5p,3p) (2x,4x) ₂

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2
2s



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9objects 2jugglers 1pass

A ₆ 5p 4 ₄	B ₅ 6.5p 4 ₅	C ₅ 2 6.5p 4 ₆	D ₅ 3 6.5p 4 ₇	E ₅ 4 6.5p 4 ₈	5 ₅ 6.5p 4 ₉
F ₆ 4 ₃	G ₅ 6p 4 ₄	H ₅ 2 6p 4 ₅	I ₅ 3 6p 4 ₆	J ₅ 4 6p 4 ₇	5 ₅ 6p 4 ₈
K ₅ 5p 4 ₂	L ₅ 5.5p 4 ₃	M ₅ 2 5.5p 4 ₄	N ₅ 3 5.5p 4 ₅	O ₅ 4 5.5p 4 ₆	P ₅ 5 5.5p 4 ₇
Q ₅ 4	R ₅ 5p 4 ₂	S ₅ 2 5p 4 ₃	T ₅ 3 5p 4 ₄	U ₅ 4 5p 4 ₅	V ₅ 5 5p 4 ₆
4.5p	W ₅ 4.5p 4	X ₅ 2 4.5p 4 ₂	Y ₅ 3 4.5p 4 ₃	Z ₅ 4 4.5p 4 ₄	AA ₅ 4.5p 4 ₅
	AC ₅ 4p	AD ₅ 2 4p 4	AE ₅ 3 4p 4 ₂	AF ₅ 4 4p 4 ₃	AG ₅ 4p 4 ₄
		AI ₅ 2 3.5p	AJ ₅ 3 3.5p 4	AK ₅ 4 3.5p 4 ₂	AL ₅ 3.5p 4 ₃
			AP ₅ 3 3p	AQ ₅ 4 3p 4	AR ₅ 3p 4 ₂

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9objects 2jugglers 3passes

6.5p ₃ 3 ₄	6 6.5p ₃ 3 ₅	6 ₂ 6.5p ₃ 3 ₆	6 ₃ 6.5p ₃ 3 ₇	6 ₄ 6.5p ₃ 3 ₈	6 ₅ 6.5p ₃ 3 ₉
6p ₃ 3 ₃	6 6p₃ 3₄	6 ₂ 6p ₃ 3 ₅	6₃ 6p₃ 3₆	6 ₄ 6p ₃ 3 ₇	6₅ 6p₃ 3₈
5.5p ₃ 3 ₂	6 5.5p ₃ 3 ₃	6 ₂ 5.5p ₃ 3 ₄	6 ₃ 5.5p ₃ 3 ₅	6 ₄ 5.5p ₃ 3 ₆	6 ₅ 5.5p ₃ 3 ₇
5p ₃ 3	6 5p₃ 3₂	6 ₂ 5p ₃ 3 ₃	6₃ 5p₃ 3₄	6 ₄ 5p ₃ 3 ₅	6₅ 5p₃ 3₆
4.5p ₃	6 4.5p ₃ 3	6 ₂ 4.5p ₃ 3 ₂	6 ₃ 4.5p ₃ 3 ₃	6 ₄ 4.5p ₃ 3 ₄	6 ₅ 4.5p ₃ 3 ₅
	6 4p₃	6 ₂ 4p ₃ 3	6₃ 4p₃ 3₂	6 ₄ 4p ₃ 3 ₃	6₅ 4p₃ 3₄
		6 ₂ 3.5p ₃	6 ₃ 3.5p ₃ 3	6 ₄ 3.5p ₃ 3 ₂	6 ₅ 3.5p ₃ 3 ₃
			6₃ 3p₃	6 ₄ 3p ₃ 3	6₅ 3p₃ 3₂

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9objects 2jugglers 1pass synchronous

(7p,4x) (4,4) ₂	(4,6x) (7p,4x) (4,4) ₃	(6x,4)(4,6x) (7p,4x) (4,4) ₄
(6p,4x) (4,4)	(4,6x) (6p,4x) (4,4) ₂	(6x,4)(4,6x) (6p,4x) (4,4) ₃
(5p,4x)	(4,6x) (5p,4x) (4,4)	(6x,4)(4,6x) (5p,4x) (4,4) ₂
	(4,6x) (4p,4x)	(6x,4)(4,6x) (4p,4x) (4,4)
		(6x,4)(4,6x) (3p,4x)

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10objects 2jugglers 2passes

6.5p ₂ 4 ₃	6 6.5p ₂ 4 ₄	6 ₂ 6.5p ₂ 4 ₅	6 ₃ 6.5p ₂ 4 ₆	6 ₄ 6.5p ₂ 4 ₇	6 ₅ 6.5p ₂ 4 ₈
6p₂ 4₂	6 6p ₂ 4 ₃	6₂ 6p₂ 4₄	6 ₃ 6p ₂ 4 ₅	6₄ 6p₂ 4₆	6 ₅ 6p ₂ 4 ₇
5.5p ₂ 4	6 5.5p ₂ 4 ₂	6 ₂ 5.5p ₂ 4 ₃	6 ₃ 5.5p ₂ 4 ₄	6 ₄ 5.5p ₂ 4 ₅	6 ₅ 5.5p ₂ 4 ₆
5p₂	6 5p ₂ 4	6₂ 5p₂ 4₂	6 ₃ 5p ₂ 4 ₃	6₄ 5p₂ 4₄	6 ₅ 5p ₂ 4 ₅
	6 4.5p ₂	6 ₂ 4.5p ₂ 4	6 ₃ 4.5p ₂ 4 ₂	6 ₄ 4.5p ₂ 4 ₃	6 ₅ 4.5p ₂ 4 ₄
		6₂ 4p₂	6 ₃ 4p ₂ 4	6₄ 4p₂ 4₂	6 ₅ 4p ₂ 4 ₃
			6 ₃ 3.5p ₂	6 ₄ 3.5p ₂ 4	6 ₅ 3.5p ₂ 4 ₂
				6₄ 3p₂	6 ₅ 3p ₂ 4

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11objects 2jugglers 1pass

7p 5 ₃	6 7p 5₄	6 ₂ 7p 5 ₅	6₃ 7p 5₆	6 ₄ 7p 5 ₇	6₅ 7p 5₈
6.5p 5 ₂	A ₆ 6.5p 5 ₃	B ₆ 2 6.5p 5 ₄	C ₆ 3 6.5p 5 ₅	D ₆ 4 6.5p 5 ₆	E ₆ 5 6.5p 5 ₇
6p 5	F₆ 6p 5₂	G ₆ 2 6p 5 ₃	H ₆ 3 6p 5 ₄	I ₆ 4 6p 5 ₅	J₆ 6p 5₆
5.5p	K ₆ 5.5p 5	L ₆ 2 5.5p 5 ₂	M ₆ 3 5.5p 5 ₃	N ₆ 4 5.5p 5 ₄	O ₆ 5 5.5p 5 ₅
	P₆ 5p	R ₆ 2 5p 5	S₆ 5p 5₂	T ₆ 4 5p 5 ₃	U₆ 5p 5₄
		W ₆ 2 4.5p	X ₆ 3 4.5p 5	Y ₆ 4 4.5p 5 ₂	Z ₆ 5 4.5p 5 ₃
			AD₆ 4p	AE₆ 4p 5	AF₆ 5p 5₂
				AJ ₆ 4.5p	AK₆ 5p 5₃

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4objects 3jugglers 1pass

C ₂ 3p 1 ₃	A ₂ 2.3p 1 ₅	C ₂ 2 2.3p 1 ₇	A ₂ 3 2.3p 1 ₉	C ₂ 4 2.3p 1 ₁₁	A ₂ 5 2.3p 1 ₁₃
B ₂ p 1 ₂	E ₂ 2p 1 ₄	B ₂ 2 2p 1 ₆	E ₂ 3 2p 1 ₈	B ₂ 4 2p 1 ₁₀	E ₂ 5 2p 1 ₁₂
C ₁ 6p 1	A ₂ 1.6p 1 ₃	C ₂ 2 1.6p 1 ₅	A ₂ 3 1.6p 1 ₇	C ₂ 4 1.6p 1 ₉	A ₂ 5 1.6p 1 ₁₁
	E ₂ 1.3p 1 ₂	B ₂ 2 1.3p 1 ₄	E ₂ 3 1.3p 1 ₆	B ₂ 4 1.3p 1 ₈	E ₂ 5 1.3p 1 ₁₀
	A ₂ 1p 1	C ₂ 2 1p 1 ₃	A ₂ 3 1p 1 ₅	C ₂ 4 1p 1 ₇	A ₂ 5 1p 1 ₉

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5objects 3jugglers 1pass

A ₄ 3p 1 ₄	C ₂ 2 4.3p 1 ₅	A ₂ 4 4.3p 1 ₆	C ₂ 6 4.3p 1 ₇	A ₂ 8 4.3p 1 ₈	C ₂ 10 4.3p 1 ₉
C ₃ 6p 1 ₃	A ₂ 2 3.6p 1 ₄	C ₂ 4 3.6p 1 ₅	A ₂ 6 3.6p 1 ₆	C ₂ 8 3.6p 1 ₇	A ₂ 10 3.6p 1 ₈
A ₃ p 1 ₂	C ₂ 2 3p 1 ₃	A ₂ 4 3p 1 ₄	C ₂ 6 3p 1 ₅	A ₂ 8 3p 1 ₆	C ₂ 10 3p 1 ₇
C ₂ 3p 1	A ₂ 2 2.3p 1 ₂	C ₂ 4 2.3p 1 ₃	A ₂ 6 2.3p 1 ₄	C ₂ 8 2.3p 1 ₅	A ₂ 10 2.3p 1 ₆
1.6p	C ₂ 2 1.6p 1	A ₂ 4 1.6p 1 ₂	C ₂ 6 1.6p 1 ₃	A ₂ 8 1.6p 1 ₄	C ₂ 10 1.6p 1 ₅
	A ₂ 2 1p	C ₂ 4 1p 1	A ₂ 6 1p 1 ₂	C ₂ 8 1p 1 ₃	A ₂ 10 1p 1 ₄

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2/1

7objects 3jugglers 1pass

E ₃ 3p 2 ₃	B ₃ 3.3p 2 ₅	E ₃ 2 3.3p 2 ₇	B ₃ 3 3.3p 2 ₉	E ₃ 4 3.3p 2 ₁₁	B ₃ 5 3.3p 2 ₁₃
A ₃ p 2 ₂	C ₃ 3p 2 ₄	A ₃ 2 3p 2 ₆	C ₃ 3 3p 2 ₈	A ₃ 4 3p 2 ₁₀	C ₃ 5 3p 2 ₁₂
E ₂ 6p 2	B ₃ 2.6p 2 ₃	E ₃ 2 2.6p 2 ₅	B ₃ 3 2.6p 2 ₇	E ₃ 4 2.6p 2 ₉	B ₃ 5 2.6p 2 ₁₁
	C ₃ 2.3p 2 ₂	A ₃ 2 2.3p 2 ₄	C ₃ 3 2.3p 2 ₆	A ₃ 4 2.3p 2 ₈	C ₃ 5 2.3p 2 ₁₀
	B ₃ 2p 2	E ₃ 2 2p 2 ₃	B ₃ 3 2p 2 ₅	E ₃ 4 2p 2 ₇	B ₃ 5 2p 2 ₉
	C ₃ 1.6p	A ₃ 2 1.6p 2 ₂	C ₃ 3 1.6p 2 ₄	A ₃ 4 1.6p 2 ₆	C ₃ 5 1.6p 2 ₈
		E ₃ 2 1.3p 2	B ₃ 3 1.3p 2 ₃	E ₃ 4 1.3p 2 ₅	B ₃ 5 1.3p 2 ₇
		A ₃ 2 1p	C ₃ 3 1p 2 ₂	A ₃ 4 1p 2 ₄	C ₃ 5 1p 2 ₆

7
3
1



3/2

8objects 3jugglers 1pass

D ₅ 3p 2 ₄	E ₃ 2 5.3p 2 ₅	D ₃ 4 5.3p 2 ₆	E ₃ 6 5.3p 2 ₇	D ₃ 8 5.3p 2 ₈	E ₃ 10 5.3p 2 ₉
E ₄ 6p 2 ₃	B ₃ 2 4.6p 2 ₄	E ₃ 4 4.6p 2 ₅	B ₃ 6 4.6p 2 ₆	E ₃ 8 4.6p 2 ₇	B ₃ 10 4.6p 2 ₈
D ₄ p 2 ₂	E ₃ 2 4p 2 ₃	D ₃ 4 4p 2 ₄	E ₃ 6 4p 2 ₅	D ₃ 8 4p 2 ₆	E ₃ 10 4p 2 ₇
E ₃ 3p 2	B ₃ 2 3.3p 2 ₂	E ₃ 4 3.3p 2 ₃	B ₃ 6 3.3p 2 ₄	E ₃ 8 3.3p 2 ₅	B ₃ 10 3.3p 2 ₆
2.6p	E ₃ 2 2.6p 2	D ₃ 4 2.6p 2 ₂	E ₃ 6 2.6p 2 ₃	D ₃ 8 2.6p 2 ₄	E ₃ 10 2.6p 2 ₅
	B ₃ 2 2p	E ₃ 4 2p 2	B ₃ 6 2p 2 ₂	E ₃ 8 2p 2 ₃	B ₃ 10 2p 2 ₄
		D ₃ 4 1.3p	E ₃ 6 1.3p 2	D ₃ 8 1.3p 2 ₂	E ₃ 10 1.3p 2 ₃

8
3
1



3/2

8objects 3jugglers 2passes

4 4.6p ₂ 2 ₈	4 ₂ 4.6p ₂ 2 ₁₀	4 ₃ 4.6p ₂ 2 ₁₂	4 ₄ 4.6p ₂ 2 ₁₄
4 4p ₂ 2 ₆	4 ₂ 4p ₂ 2 ₈	4 ₃ 4p ₂ 2 ₁₀	4 ₄ 4p ₂ 2 ₁₂
4 3.3p ₂ 2 ₄	4 ₂ 3.3p ₂ 2 ₆	4 ₃ 3.3p ₂ 2 ₈	4 ₄ 3.3p ₂ 2 ₁₀
4 2.6p ₂ 2 ₂	4 ₂ 2.6p ₂ 2 ₄	4 ₃ 2.6p ₂ 2 ₆	4 ₄ 2.6p ₂ 2 ₈
4 2p ₂	4 ₂ 2p ₂ 2 ₂	4 ₃ 2p ₂ 2 ₄	4 ₄ 2p ₂ 2 ₆

8
3
2



4/2

9objects 3jugglers 3passes

5p ₃ 2 ₆	5 5p ₃ 2 ₈	5 ₂ 5p ₃ 2 ₁₀	5 ₃ 5p ₃ 2 ₁₂	5 ₄ 5p ₃ 2 ₁₄
4p ₃ 2 ₃	5 4p ₃ 2 ₅	5 ₂ 4p ₃ 2 ₇	5 ₃ 4p ₃ 2 ₉	5 ₄ 4p ₃ 2 ₁₁
3p ₃	5 3p ₃ 2 ₂	5 ₂ 3p ₃ 2 ₄	5 ₃ 3p ₃ 2 ₆	5 ₄ 3p ₃ 2 ₈
		5 ₂ 2p ₃ 2	5 ₃ 2p ₃ 2 ₃	5 ₄ 2p ₃ 2 ₅
			5 ₃ 1p ₃	5 ₄ 1p ₃ 2 ₂

9
3
3



5/2

10objects 3jugglers 1pass

C ₅ p 3 ₅	A ₄ 5p 3 ₇	C ₄ 5p 3 ₉	A ₃ 5p 3 ₁₁	C ₄ 5p 3 ₁₃	A ₅ 5p 3 ₁₅
B ₄ .6p 3 ₄	E ₄ 4.6p 3 ₆	B ₄ 4.6p 3 ₈	E ₄ 4.6p 3 ₁₀	B ₄ 4.6p 3 ₁₂	E ₄ 4.6p 3 ₁₄
C ₄ .3p 3 ₃	A ₄ 4.3p 3 ₅	C ₄ 4.3p 3 ₇	A ₃ 4.3p 3 ₉	C ₄ 4.3p 3 ₁₁	A ₅ 4.3p 3 ₁₃
B ₄ p 3 ₂	E ₄ 4p 3 ₄	B ₄ 4p 3 ₆	E ₄ 4p 3 ₈	B ₄ 4p 3 ₁₀	E ₄ 4p 3 ₁₂
C ₃ .6p 3	A ₄ 3.6p 3 ₃	C ₄ 3.6p 3 ₅	A ₃ 3.6p 3 ₇	C ₄ 3.6p 3 ₉	A ₅ 3.6p 3 ₁₁
	E ₄ 3.3p 3 ₂	B ₄ 2.3.3p 3 ₄	E ₄ 3.3p 3 ₆	B ₄ 4.3.3p 3 ₈	E ₄ 5.3.3p 3 ₁₀
	A ₄ 3p 3	C ₄ 2.3p 3 ₃	A ₃ 3p 3 ₅	C ₄ 3p 3 ₇	A ₅ 3p 3 ₉

10
3
1



4/3

10objects 3jugglers 1pass synchronous

(6p,4) (2x,4x) ₅	(4,4) (6p,4) (2x,4x) ₇	(4,4) ₂ (6p,4) (2x,4x) ₉
(5.3p,4) (2x,4x) ₄	(4,4) (5.3p,4) (2x,4x) ₆	(4,4) ₂ (5.3p,4) (2x,4x) ₈
(4.6p,4) (2x,4x) ₃	(4,4) (4.6p,4) (2x,4x) ₅	(4,4) ₂ (4.6p,4) (2x,4x) ₇
(4p,4) (2x,4x) ₂	(4,4) (4p,4) (2x,4x) ₄	(4,4) ₂ (4p,4) (2x,4x) ₆
(3.3p,4) (2x,4x)	(4,4) (3.3p,4) (2x,4x) ₃	(4,4) ₂ (3.3p,4) (2x,4x) ₅

10
3
1s



4/3

11objects 3jugglers 1pass

A ₆ .3p 3 ₄	C ₄ 6.3p 3 ₅	A ₄ 6.3p 3 ₆	C ₄ 6.3p 3 ₇	A ₄ 6.3p 3 ₈	C ₄ 6.3p 3 ₉
C ₅ .6p 3 ₃	A ₄ 5.6p 3 ₄	C ₄ 5.6p 3 ₅	A ₆ 5.6p 3 ₆	C ₄ 5.6p 3 ₇	A ₁₀ 5.6p 3 ₈
A ₅ p 3 ₂	C ₄ 5p 3 ₃	A ₄ 5p 3 ₄	C ₄ 5p 3 ₅	A ₄ 5p 3 ₆	C ₄ 5p 3 ₇
C ₄ .3p 3	A ₂ 4.3p 3 ₂	C ₄ 4.3p 3 ₃	A ₆ 4.3p 3 ₄	C ₄ 4.3p 3 ₅	A ₁₀ 4.3p 3 ₆
3.6p	C ₄ 3.6p 3	A ₄ 3.6p 3 ₂	C ₄ 3.6p 3 ₃	A ₄ 3.6p 3 ₄	C ₄ 3.6p 3 ₅
	A ₂ 3p	C ₄ 3p 3	A ₆ 3p 3 ₂	C ₄ 3p 3 ₃	A ₁₀ 3p 3 ₄

11
3
1



4/3

11objects 3jugglers 2passes

5 5.6p ₂ 3 ₈	5 ₂ 5.6p ₂ 3 ₁₀	5 ₃ 5.6p ₂ 3 ₁₂	5 ₄ 5.6p ₂ 3 ₁₄
5 5p ₂ 3 ₆	5 ₂ 5p ₂ 3 ₈	5 ₃ 5p ₂ 3 ₁₀	5 ₄ 5p ₂ 3 ₁₂
5 4.3p ₂ 3 ₄	5 ₂ 4.3p ₂ 3 ₆	5 ₃ 4.3p ₂ 3 ₈	5 ₄ 4.3p ₂ 3 ₁₀
5 3.6p ₂ 3 ₂	5 ₂ 3.6p ₂ 3 ₄	5 ₃ 3.6p ₂ 3 ₆	5 ₄ 3.6p ₂ 3 ₈
5 3p ₂	5 ₂ 3p ₂ 3 ₂	5 ₃ 3p ₂ 3 ₄	5 ₄ 3p ₂ 3 ₆

11
3
2



5/3

11objects 3jugglers 1pass synchronous

(7.3p,4) (2x,4x) ₃	(4,4) ₂ (7.3p,4) (2x,4x) ₄	(4,4) ₄ (7.3p,4) (2x,4x) ₅
(6p,4) (2x,4x) ₂	(4,4) ₂ (6p,4) (2x,4x) ₃	(4,4) ₄ (6p,4) (2x,4x) ₄
(4.6p,4) (2x,4x)	(4,4) ₂ (4.6p,4) (2x,4x) ₂	(4,4) ₄ (4.6p,4) (2x,4x) ₃
(3.3p,4)	(4,4) ₂ (3.3p,4) (2x,4x)	(4,4) ₄ (3.3p,4) (2x,4x) ₂

11
3
1s



4/3

12objects 3jugglers 3passes

6p ₃ 3 ₆	6 6p ₃ 3 ₈	6 ₂ 6p ₃ 3 ₁₀	6 ₃ 6p ₃ 3 ₁₂
5p ₃ 3 ₃	6 5p ₃ 3 ₅	6 ₂ 5p ₃ 3 ₇	6 ₃ 5p ₃ 3 ₉
4p ₃	6 4p ₃ 3 ₂	6 ₂ 4p ₃ 3 ₄	6 ₃ 4p ₃ 3 ₆
	6 3p ₃	6 ₂ 3p ₃ 3 ₂	6 ₃ 3p ₃ 3 ₄

12
3
3



6/3

13objects 3jugglers 1pass

6p 4 ₅	5 6p 4 ₇	5 ₂ 6p 4 ₉	5 ₃ 6p 4 ₁₁	5 ₄ 6p 4 ₁₃	5 ₅ 6p 4 ₁₅
5.6p 4 ₄	5 5.6p 4 ₆	5 ₂ 5.6p 4 ₈	5 ₃ 5.6p 4 ₁₀	5 ₄ 5.6p 4 ₁₂	5 ₅ 5.6p 4 ₁₄
5.3p 4 ₃	5 5.3p 4 ₅	5 ₂ 5.3p 4 ₇	5 ₃ 5.3p 4 ₉	5 ₄ 5.3p 4 ₁₁	5 ₅ 5.3p 4 ₁₃
5p 4 ₂	5 5p 4 ₄	5 ₂ 5p 4 ₆	5 ₃ 5p 4 ₈	5 ₄ 5p 4 ₁₀	5 ₅ 5p 4 ₁₂
4.6p 4	5 4.6p 4 ₃	5 ₂ 4.6p 4 ₅	5 ₃ 4.6p 4 ₇	5 ₄ 4.6p 4 ₉	5 ₅ 4.6p 4 ₁₁
4.3p	5 4.3p 4 ₂	5 ₂ 4.3p 4 ₄	5 ₃ 4.3p 4 ₆	5 ₄ 4.3p 4 ₈	5 ₅ 4.3p 4 ₁₀
	5 4p 4	5 ₂ 4p 4 ₃	5 ₃ 4p 4 ₅	5 ₄ 4p 4 ₇	5 ₅ 4p 4 ₉

13
3
1



5/4

14objects 3jugglers 1pass

E ₆ .6p 4 ₃	D ₅ 6.6p 4 ₄	E ₅ 6.6p 4 ₅	D ₅ 6.6p 4 ₆	E ₅ 6.6p 4 ₇	D ₅ 6.6p 4 ₈
B ₆ p 4 ₂	E ₅ 6p 4 ₃	B ₅ 6p 4 ₄	E ₅ 6p 4 ₅	B ₅ 6p 4 ₆	E ₅ 6p 4 ₇
E ₅ .3p 4	D ₅ 5.3p 4 ₂	E ₅ 5.3p 4 ₃	D ₅ 5.3p 4 ₄	E ₅ 5.3p 4 ₅	D ₅ 5.3p 4 ₆
4.6p	E ₅ 4.6p 4	B ₅ 4.6p 4 ₂	E ₅ 4.6p 4 ₃	B ₅ 4.6p 4 ₄	E ₅ 4.6p 4 ₅
	D ₅ 4p	E ₅ 4p 4	D ₅ 4p 4 ₂	E ₅ 4p 4 ₃	D ₅ 4p 4 ₄
	B ₅ 4.3p	E ₅ 3.3p 4	B ₅ 3.3p 4 ₂	E ₅ 3.3p 4 ₃	D ₅ 3.3p 4 ₄

14
3
1



5/4

14objects 3jugglers 2passes

6 6.p ₂ 4 ₈	6 ₂ 6.p ₂ 4 ₁₀	6 ₃ 6.p ₂ 4 ₁₂	6 ₄ 6.p ₂ 4 ₁₄	6 ₅ 6.p ₂ 4 ₁₆
6 6.p ₂ 4 ₆	6 ₂ 6.p ₂ 4 ₈	6 ₃ 6.p ₂ 4 ₁₀	6 ₄ 6.p ₂ 4 ₁₂	6 ₅ 6.p ₂ 4 ₁₄
6 5.3.p ₂ 4 ₄	6 ₂ 5.3.p ₂ 4 ₆	6 ₃ 5.3.p ₂ 4 ₈	6 ₄ 5.3.p ₂ 4 ₁₀	6 ₅ 5.3.p ₂ 4 ₁₂
6 4.6.p ₂ 4 ₂	6 ₂ 4.6.p ₂ 4 ₄	6 ₃ 4.6.p ₂ 4 ₆	6 ₄ 4.6.p ₂ 4 ₈	6 ₅ 4.6.p ₂ 4 ₁₀
6 4.p ₂	6 ₂ 4.p ₂ 4 ₂	6 ₃ 4.p ₂ 4 ₄	6 ₄ 4.p ₂ 4 ₆	6 ₅ 4.p ₂ 4 ₈
	6 ₂ 3.3.p ₂	6 ₃ 3.3.p ₂ 4 ₂	6 ₄ 3.3.p ₂ 4 ₄	6 ₅ 3.3.p ₂ 4 ₆

14
3
2



6/4

13objects 4jugglers 1pass

5p 3 ₇	4 5p 3 ₁₀	4 ₂ 5p 3 ₁₃	4 ₃ 5p 3 ₁₆
4.75p 3 ₆	4 4.75p 3 ₉	4 ₂ 4.75p 3 ₁₂	4 ₃ 4.75p 3 ₁₅
4.5p 3 ₅	4 4.5p 3 ₈	4 ₂ 4.5p 3 ₁₁	4 ₃ 4.5p 3 ₁₄
4.25p 3 ₄	4 4.25p 3 ₇	4 ₂ 4.25p 3 ₁₀	4 ₃ 4.25p 3 ₁₃
4p 3 ₃	4 4p 3 ₆	4 ₂ 4p 3 ₉	4 ₃ 4p 3 ₁₂
3.75p 3 ₂	4 3.75p 3 ₅	4 ₂ 3.75p 3 ₈	4 ₃ 3.75p 3 ₁₁
3.5p 3	4 3.5p 3 ₄	4 ₂ 3.5p 3 ₇	4 ₃ 3.5p 3 ₁₀
			4 ₃ 3.25p 3 ₉

13
4
1



4/3

14objects 4jugglers 2passes

5p ₂ 3 ₆	5 5p ₂ 3 ₉	5 ₂ 5p ₂ 3 ₁₂	5 ₃ 5p ₂ 3 ₁₅	5 ₄ 5p ₂ 3 ₁₈
4.5p ₂ 3 ₄	5 4.5p ₂ 3 ₇	5 ₂ 4.5p ₂ 3 ₁₀	5 ₃ 4.5p ₂ 3 ₁₃	5 ₄ 4.5p ₂ 3 ₁₆
4p ₂ 3 ₂	5 4p ₂ 3 ₅	5 ₂ 4p ₂ 3 ₈	5 ₃ 4p ₂ 3 ₁₁	5 ₄ 4p ₂ 3 ₁₄
3.5p ₂	5 3.5p ₂ 3 ₃	5 ₂ 3.5p ₂ 3 ₆	5 ₃ 3.5p ₂ 3 ₉	5 ₄ 3.5p ₂ 3 ₁₂
	5 3p ₂ 3	5 ₂ 3p ₂ 3 ₄	5 ₃ 3p ₂ 3 ₇	5 ₄ 3p ₂ 3 ₁₀

14
4
2



5/3

15objects 4jugglers 1pass

6p 3 ₃	4 ₃ 6p 3 ₄	4 ₆ 6p 3 ₅	4 ₉ 6p 3 ₆	4 ₁₂ 6p 3 ₇
5.25p 3 ₂	4 ₃ 5.25p 3 ₃	4 ₆ 5.25p 3 ₄	4 ₉ 5.25p 3 ₅	4 ₁₂ 5.25p 3 ₆
4.5p 3	4 ₃ 4.5p 3 ₂	4 ₆ 4.5p 3 ₃	4 ₉ 4.5p 3 ₄	4 ₁₂ 4.5p 3 ₅
3.75p	4 ₃ 3.75p 3	4 ₆ 3.75p 3 ₂	4 ₉ 3.75p 3 ₃	4 ₁₂ 3.75p 3 ₄
	4 ₃ 3p	4 ₆ 3p 3	4 ₉ 3p 3 ₂	4 ₁₂ 3p 3 ₃

15
4
1



4/3

17objects 4jugglers 1pass

6p 4 ₇	5 6p 4 ₁₀	5 ₂ 6p 4 ₁₃	5 ₃ 6p 4 ₁₆
5.75p 4 ₆	5 5.75p 4 ₉	5 ₂ 5.75p 4 ₁₂	5 ₃ 5.75p 4 ₁₅
5.5p 4 ₅	5 5.5p 4 ₈	5 ₂ 5.5p 4 ₁₁	5 ₃ 5.5p 4 ₁₄
5.25p 4 ₄	5 5.25p 4 ₇	5 ₂ 5.25p 4 ₁₀	5 ₃ 5.25p 4 ₁₃
5p 4 ₃	5 5p 4 ₆	5 ₂ 5p 4 ₉	5 ₃ 5p 4 ₁₂
4.75p 4 ₂	5 4.75p 4 ₅	5 ₂ 4.75p 4 ₈	5 ₃ 4.75p 4 ₁₁
4.5p 4	5 4.5p 4 ₄	5 ₂ 4.5p 4 ₇	5 ₃ 4.5p 4 ₁₀
4.25p	5 4.25p 4 ₃	5 ₂ 4.25p 4 ₆	5 ₃ 4.25p 4 ₉

17
4
1



5/4

PROGRESSIVE PATTERNS

Progressive 8objects 2jugglers 2passes

5.5p 4 5.5p 3 ₄	5 5.5p 4 5.5p 3 ₄	5 ₂ 5.5p 4 5.5p 3 ₄	5 ₃ 5.5p 4 5.5p 3 ₄	5 ₄ 5.5p 4 5.5p 3 ₄
5p 4 5p 3 ₄	5 5p 4 5p 3 ₄	5 ₂ 5p 4 5p 3 ₄	5 ₃ 5p 4 5p 3 ₄	5 ₄ 5p 4 5p 3 ₄
4.5p 4 4.5p 3 ₄	5 4.5p 4 4.5p 3 ₄	5 ₂ 4.5p 4 4.5p 3 ₄	5 ₃ 4.5p 4 4.5p 3 ₄	5 ₄ 4.5p 4 4.5p 3 ₄
4p 4 4p 4	5 4p 4 4p 3 ₄	5 ₂ 4p 4 4p 3 ₄	5 ₃ 4p 4 4p 3 ₄	5 ₄ 4p 4 4p 3 ₄
	5 3.5p 4 3.5p 4	5 ₂ 3.5p 4 3.5p 3 ₄	5 ₃ 3.5p 4 3.5p 3 ₄	5 ₄ 3.5p 4 3.5p 3 ₄
		5 ₂ 3p 4 3p 4	5 ₃ 3p 4 3p 3 ₄	5 ₄ 3p 4 3p 3 ₄

Popcorn patterns with more than one pass may be staggered such that the juggler lifts from one number to another via intermediate throws. In this example, 822, the jugglers normally lift directly from 3 to 5 objects. The passes are separated by inserting the appropriate throw (a 4) and the pattern is altered such that the juggler first lifts from 3 to 4, juggles a bit, and then lifts from 4 to 5.

For example 5₂ 4p 3₂ may be transformed into 5₂ 4p 4 4p 3₂ 4, as illustrated here. This process can be extended to 5₂ 4p 4_n 4p 3₂ 4_n, where n > 1.

Any of the multiple pass patterns can be used as a basis for a progressive popcorn pattern.

Numbers in BLUE indicate the inserted throws that form the progressive popcorn pattern.

5/4/3

throwing sequences

A - BRAINTWISTER

1st PASS		2nd PASS	
1 st	2 nd	1 st	2 nd
1 st	2 nd	1 st	2 nd
1 R-R R-R L-L L-L L-R			
2 R-L L-R L-L L-R R-L L-R			
3 R-L L-L L-L L-R R-R R-R			
4 R-R R-L L-L L-L L-R R-R			

B - CLASSIC 3-count

The classic 3-count is one where everyone crosses. Two Versions:

1st PASS		2nd PASS	
1 st	2 nd	1 st	2 nd
1 st	2 nd	1 st	2 nd
1 R-R L-L R-R L-L R-R L-L			
2 R-R L-R L-R L-L R-L L-L			

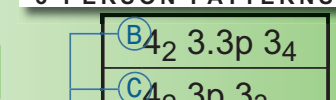
LEGEND
R Right Hand
L Left Hand
Juggler

C - CLASSIC

Can be juggled in six different ways, including the classic all rights to all lefts.

1 st		2 nd	
1 st	2 nd	1 st	2 nd
1 R-L L-L L-L L-L R-R			
2 R-L R-R L-L L-L L-L			
3 R-R L-L L-L L-L L-L			
4 L-R L-L L-L L-L L-L			
5 L-R L-L R-R L-L L-L			
6 L-L R-L L-L L-L L-L			

3-PERSON PATTERNS



Superscripts in BLUE indicate the five different kinds of 3-person popcorns: A, B, C, D and E.

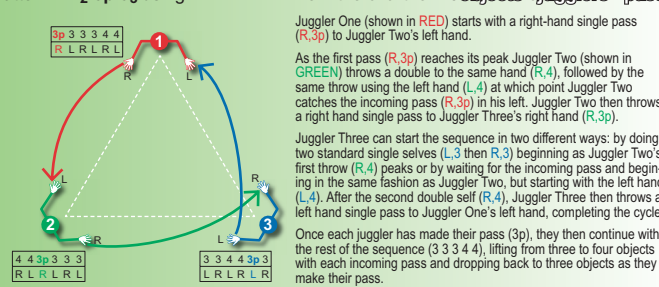
E - EQUIHANCED

This means that the passing hand and the catching hand are the same. Four versions:

1 st		2 nd	
1 st	2 nd	1 st	2 nd
1 R-R R-R R-R			
2 R-L L-L R-R			
3 L-L L-L L-L			
4 L-L R-L L-L			

EXAMPLE PATTERN

Pattern: C₄ 2p 3₃ using R-L R-R L-L from the chart for 10objects 3jugglers 1pass



Juggler One (shown in RED) starts with a right-hand single pass (R₃p) to Juggler Two's left hand.

As the first pass (R₃p) reaches its peak Juggler Two (shown in GREEN) throws a double to the same hand (L₄) followed by the same throw using the left hand (L₄) at which point Juggler Two catches the incoming pass (R₃p) in his left. Juggler Two then throws a right hand single pass to Juggler Three's right hand (R₃p).

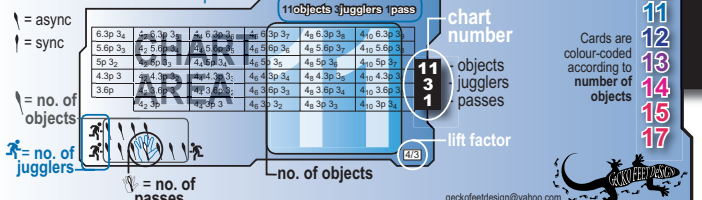
Juggler Three can start the sequence in two different ways: by doing two standard single selves (L₃ then R₃) beginning as Juggler Two's first throw (R₄) peaks or by waiting for the incoming pass and beginning in the same fashion as Juggler Two, but starting with the left hand (L₄). After the second double self (R₄), Juggler Three then throws a left hand single pass to Juggler One's left hand, completing the cycle.

Once each juggler has made their pass (3p), they then continue with the rest of the sequence (3 3 3 4 4), lifting from three to four objects with each incoming pass and dropping back to three objects as they make their pass.

POPcorn PASSING CHARTS

KEY ELEMENTS

chart description



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NOTATION

Subscripts indicate how many times a particular element is repeated. For example, the pattern 5₂ 4p 3₃ may be written out in long form as 555 4p 333.

During a popcorn pattern the juggler lifts from a lower-level to a higher-level pattern, from siteswap 5 to siteswap 6 in this chart.

The first element, 6₅, indicates the higher level.

The last element, 5₈, indicates the lower level.

Superscripts in RED are the compatibility index markers. These letters indicate two or more patterns from different charts that can be combined to form a new popcorn pattern. This allows two jugglers of different skill levels to juggle popcorn patterns together.

For example, 6₅ 6.5p 5₇ and 5₅ 6.5p 4₆ can be juggled by two people, one lifting from 5 to 6 objects and the other one lifting from 4 to 5 objects.

CLUB SPIN SUGGESTIONS

- 1-2 hand across / placement
- 2.5 fast single
- 3 single
- 3.5 floaty single
- 4 double
- 4.5 floaty double
- 5 triple
- 5.5 floaty triple
- 6 quad
- 6.5 floaty quad
- 7 quin

The patterns in bold are equihanded. This is where the passing hand is also the catching hand. These patterns can be done side by side.