

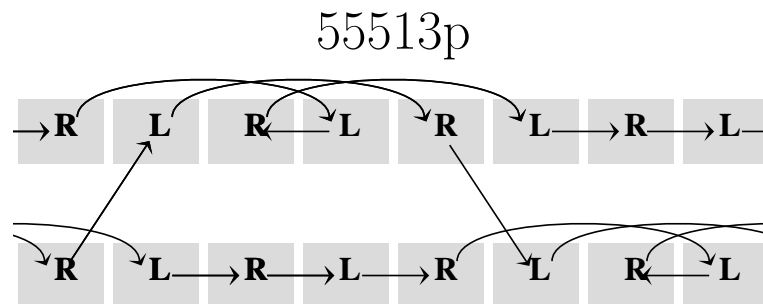
Will's passing patterns

by Will Murray, wmurray@csulb.edu

I wrote down these notes after a convention in Alby, Sweden in January 2007 and last updated them on October 26, 2009. The point was just for me to remember stuff I would like to work on with my wife Rhonda Murray and my other passing friends. The notes are very Will- and Rhonda-centric (e.g. "Inventor" really means "who taught us the pattern"), but other people are welcome to try them if they're interested. Let me know how it goes!

I have more complete articles on several classes of patterns that are not listed here, Long Beach Popcorn, Scratch Your Head, and 7 Club Doubles. They are on my website:

<http://www.csulb.edu/~wmurray>



Clubs: 7

Inventor:

Will and Rhonda...

Jugglers: 2

We got this from Peter Kaseman, but other people do it.

can do this forever, with occasional tricks (replacing 5551 with 7441, 6451, 5641, 7531, 4444 on singles, etc.).

Related patterns

Add a club:

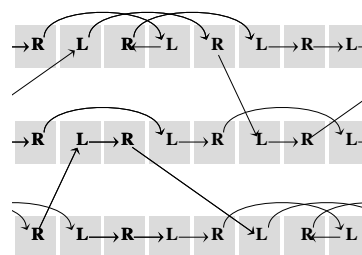
Other related patterns:

Par, which is symmetric.

Sympar

55513pFeed

55513pFeed



Clubs: 11

Inventor:

Will and Rhonda...

Jugglers: 3

Will

haven't done this. Will did it with Peter and Greg Kennedy in Winston-Salem, and later with Laura. It's a little weird for the feeder to figure out, but ultimately not too hard.

Related patterns

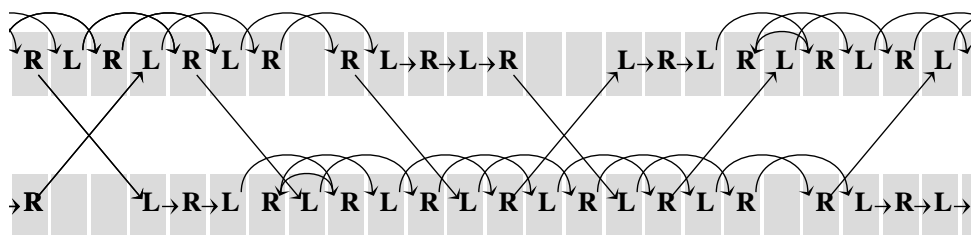
Subtract a club:

Other related patterns:

This could be done with 10 clubs with the feeder just doing all 3's. But that might be boring for the feeder and might also create a collision possibility when he is passing to the person on his left and receiving from the person on his right.

55513p

5vs3



Clubs: 8

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Rhonda

can occasionally get this for a few cycles.

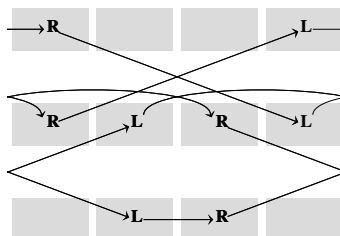
Good practice for 10 club 4-count and the 15 club feed. You can also feed 14 clubs by having the feeder do 4 club double singles 2-count and the feedees doing 5 club 4-count. Will has done this with Peter and Laura.

Related patterns

Other related patterns:

5vs3vs3

5vs3vs3



Clubs: 11

Inventor:

Will and Rhonda...

Comments:

Jugglers: 3

Will

have gotten this with Athena long enough for someone to lie down underneath us and film it.

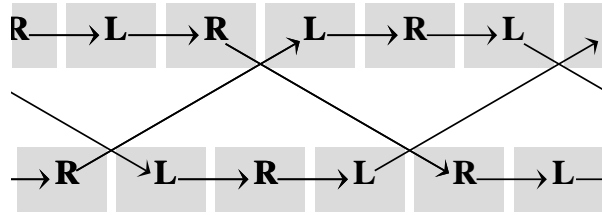
Good practice for the 15 club feed.

Related patterns

Other related patterns:

5vs3, Shooting Gallery (righty-lefty version of this)

7club3count



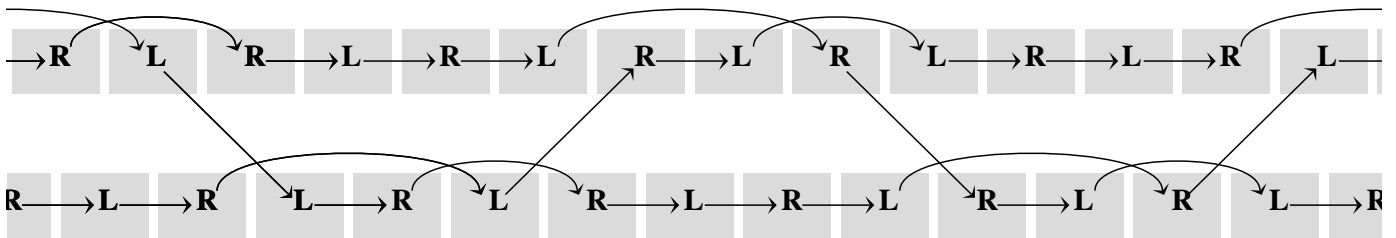
Clubs: 7
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 folklore
 can run this all day.
 This is 966, the symmetric version of 7 club doubles.
 Jon's workshop in Alby suggested changing (4.5) 3 to 4 (3.5) (French 3-count), 3 (4.5) 3 to 5 (4.5) 1, or (4.5) 3 3 to (4.5) 4 2.

Related patterns

Add a club: 996 (8 club PPS)
 OllerupPopcorn(10-7-7)
 Subtract a club: FrankZappalot (855)
 Other related patterns: Techno
 PPSfeed

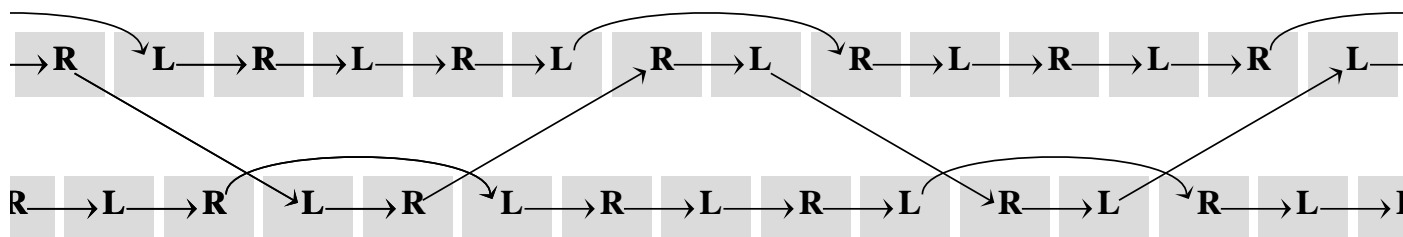
7countFrenchPopcorn



Clubs: 7
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 Jon and Mandy, in a workshop in Ollerup.
 may never have tried this.
 This is 10 6 6 6 8 6 7, the Frenchified 7countPopcorn. In this one, the same club goes back and forth each time. Another way to think about it is as 534(pass)333, so you can replace the 534 with different 4-club siteswaps and 333 with different 3-club siteswaps, as in 55513p. (If you replace 534 with 444, you get the slow version of French 3-count.)

7countPopcorn



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

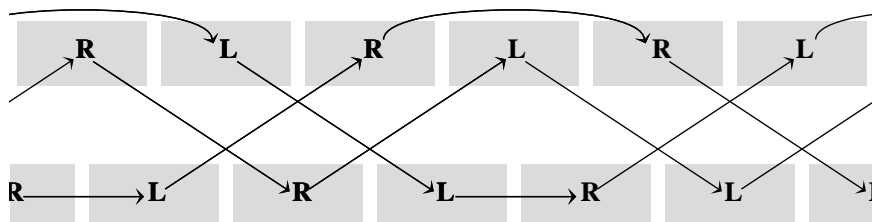
Jugglers: 2

Jon, in his workshop in Alby, but it's folklore.

may never have tried this.

This is 10 6 6 6 9 6 6, the symmetric version of standard 7 club popcorn.

867777



Clubs: 7

Inventor:

Will and Rhonda...

Jugglers: 2

Will

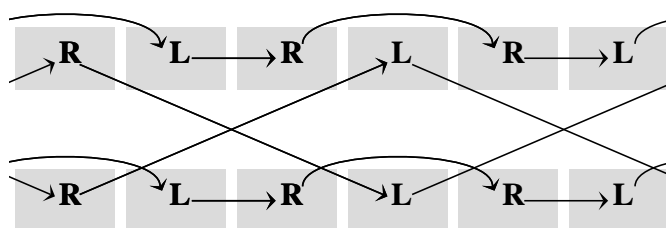
have never done this. We should try it sometime.

Related patterns

Other related patterns:

Jen'sThreeCount (868677)

8club3count



Clubs: 8

Inventor:

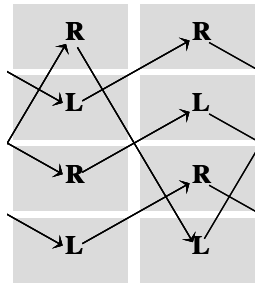
Will and Rhonda...

Jugglers: 2

Rhonda, among others

may have done this. Will did it with Colin in Portland.

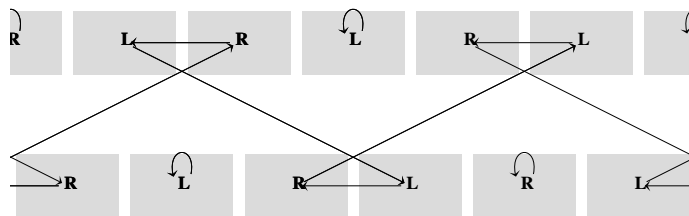
8SinglesSwitchingSides



Clubs: 8
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 Mandy
 don't work on 8 singles much.
 You can also pass crossing and throw the single self straight up. This works better than some of Mandy's other challenges (e.g. 10 club 5-count, 3-count, and 1-count.)

942



Clubs: 5
 Inventor:
 Will and Rhonda...
 Comments:

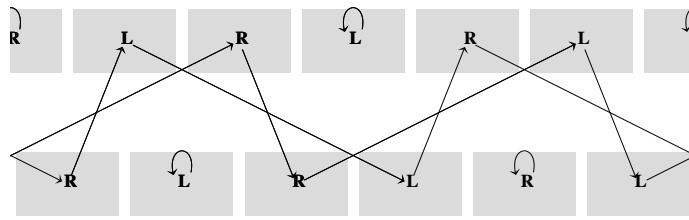
Jugglers: 2
 Daniel
 haven't done this. Daniel and Will did it successfully in Irvine.
 This has three "magic" clubs and two clubs that stay on their own sides. You can make the 4's actual flips instead of just holding them.

Related patterns

Add a club:

945
 Christoph's Colors (972)

945



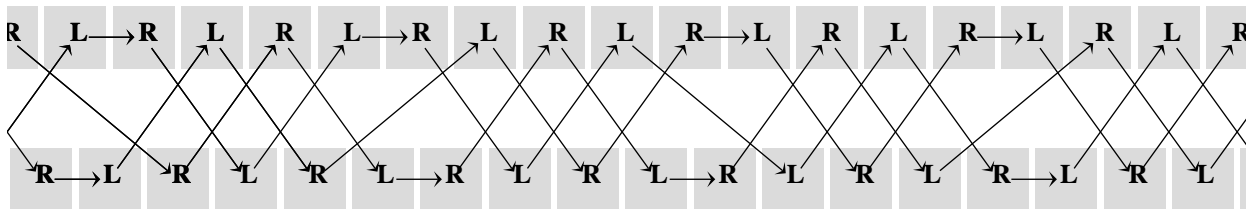
Clubs: 6
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 Will
 have worked on this. It's quite challenging, but doable and really fun.
 This might be a good warmup for ZapOpusTwo.
 To start, the person throwing crossing has two clubs in each hand. She throws left to left crossing double and then a right to right crossing zap. The other juggler starts with one club in each hand, waits as long as possible, and then throws a right to left straight double and then a left to right straight zap.
 (This is the way Will and Rhonda start because Rhonda doesn't want to throw a left zap when she has two clubs in her left hand. For other people, it might make more sense for the straight person to start with four clubs and the crossing person to start with two. Then each person can start with a right double.)

Related patterns

Add a club: ZapOpusTwo (975)
 Subtract a club: 925

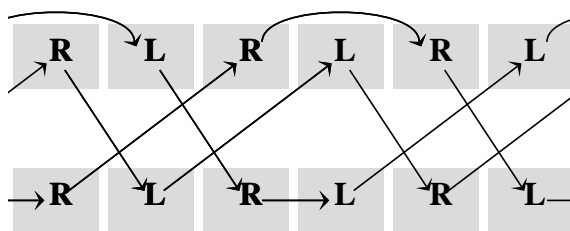
9countPopcorn



Clubs: 7
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 Evl
 have never tried this. Will did it with Clara in Durham.
 Each person does 967776777. It's fun when you get the sequence down. Make the 9 club a different color.

Ampersand



Clubs: 7

Inventor:

Will and Rhonda...

Jugglers: 2

Rhonda, from Tom Hamill's 6-club Nizer's Nightmare.

can run this all day.

Related patterns

Add a club:

Subtract a club:

Other related patterns:

Ampersand8

Nizer's Nightmare

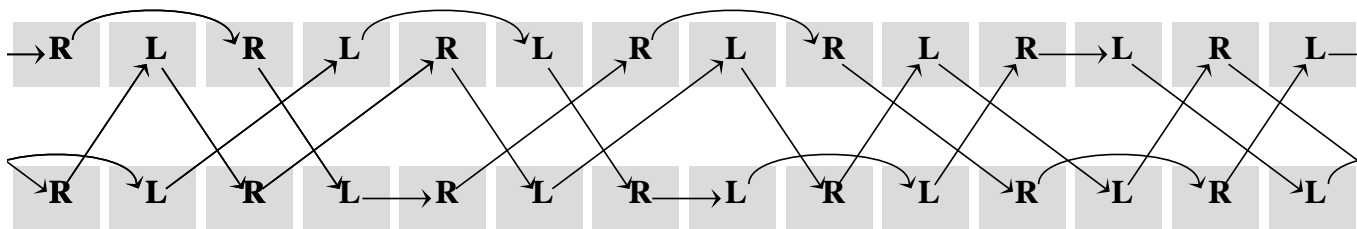
6-club PPS

same pattern with crossing singles and straight doubles

AmpersandSwitch

Ollerand

AmpersandSwitch



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Rhonda

may not have tried this.

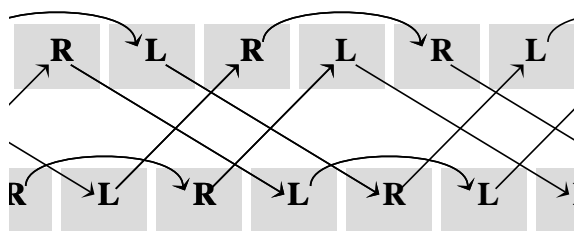
This is Ampersand with two people switching the two roles.

Related patterns

Other related patterns:

Ampersand

Ampersand8



Clubs: 8

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Rhonda, from basic Ampersand.

can run this a bit.

This is just 8 club 1-count (97) with heffs on every third throw (PPS).

Related patterns

Subtract a club:

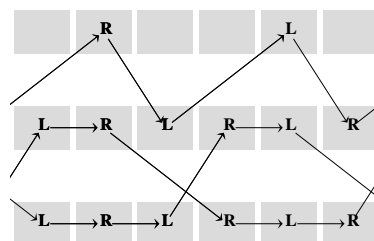
Ampersand

868677

Other related patterns:

This is 979788. You can also do it with half as many passes, 978888.

Antonio's Angst



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Antonio, in Vitoria

did this in Irvine in August 2009.

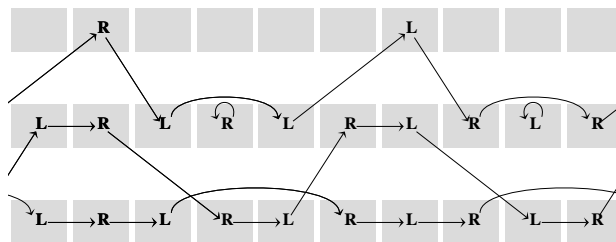
This is really a two person pattern; the top line in the diagram above is just to show that the top person is throwing multiplexes. Will starts with two in each hand and throws left to right self, then right multiplex with one club going as a single to his left hand and one as a crossing double to Rhonda's right, then right to left self, then left multiplex. Rhonda throws standard three-count, passing straight, with the first pass from the left hand, maybe slightly techno-ish.

Related patterns

Other related patterns:

Antonio's Anxiety, FiveWithBenefits

Antonio's Anxiety



Clubs: 7
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 Antonio, in Vitoria
 did this in Irvine in August 2009.

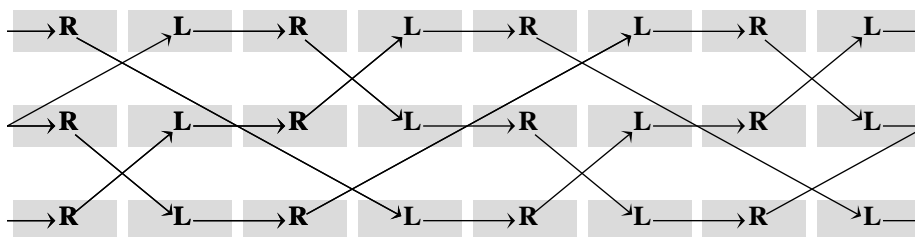
This is really a two person pattern; the top line in the diagram above is just to show that the top person is throwing multiplexes. Will does the same thing as in Antonio's Angst, except that he has time to do an extra 2 in the hand that just threw the multi (and do it as a shoulder throw, albert, or whatever). Rhonda throws BogotáPopcorn, passing straight, starting with a triple from the left hand. She has to wait a little on the triples since the incoming passes are doubles instead of the normal singles in BogotáPopcorn.

Related patterns

Other related patterns:

Antonio's Angst, FiveWithBenefits

BogotaLine

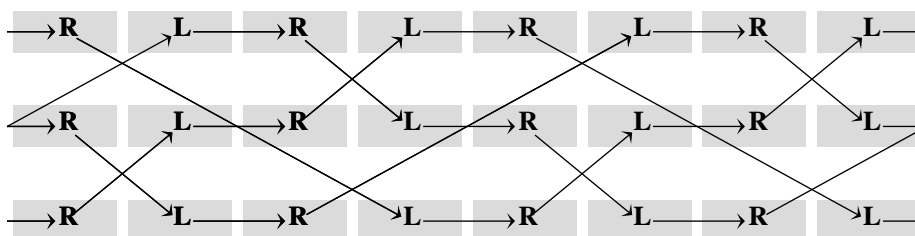


Clubs: 10
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 3
 someone in Bogotá, probably Nene.
 probably did this in Bogotá.

To do this, the middle person has to make every left hand throw over the head and do a half pirouette. This gets pretty dizzifying. Maybe I'm misremembering this?

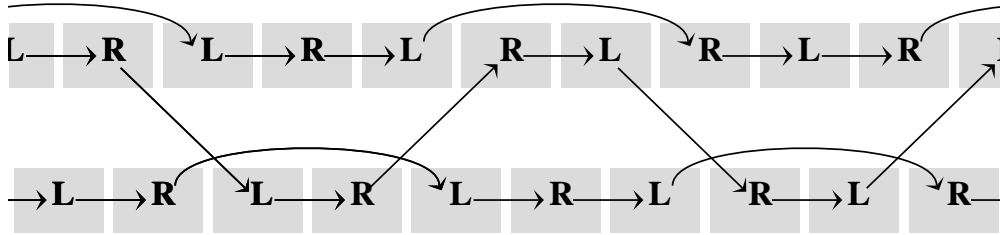
BogotaLine



Clubs: 10
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 3
 Will
 have not done this.
 The middle person alternates dropbacks and throws over the head with half pirouettes.

BogotaPopcorn



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Wilson "Nene" Vargas taught it to us, but it's folklore.

can run this.

We had fun doing this one with Steve Healy. We used oversize tennis balls for the clubs that do triples.

You can replace the 5 3 with 4 4.

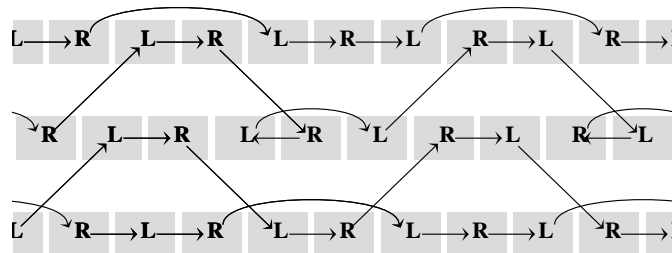
Related patterns

Other related patterns:

BogotaFeed

BogotaBigFeed

BogotaFeed



Clubs: 10

Inventor:

Will and Rhonda...

Comments:

Jugglers: 3

Jon?

have never tried this. Will did it with Rasmus and Jon in Alby.

Fairly tricky for the feeder because the passes are coming from unexpected places. Would be fun to do with Steve Healy sometime using tennis balls for the triples.

This is asymmetrical. The clubs from the different feedees do different things in the feeder's hands.

Related patterns

Add a club:

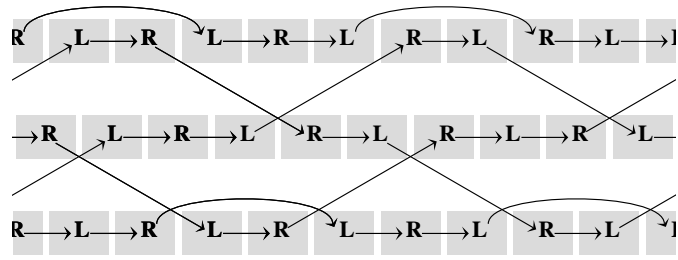
Other related patterns:

BogotaBigFeed

BogotaPopcorn

Why not (This is what the feeder is doing.)

BogotaBigFeed



Clubs: 11

Inventor:

Will and Rhonda...

Comments:

Jugglers: 3

Will

have never tried this. Will did it with Rasmus and Jon in Alby.

Symmetric version of the classic 11 club feed from the 7 club 6-count popcorn.

Fun for the feeder and not as hard as it might seem.

Related patterns

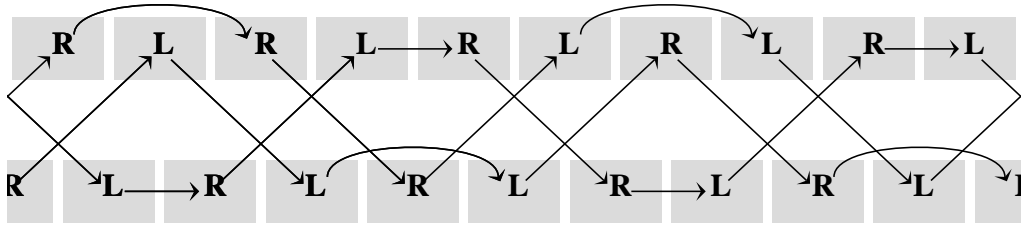
Subtract a club:

Other related patterns:

BogotaFeed

BogotaPopcorn

Bookends(86777)



Clubs: 7

Inventor:

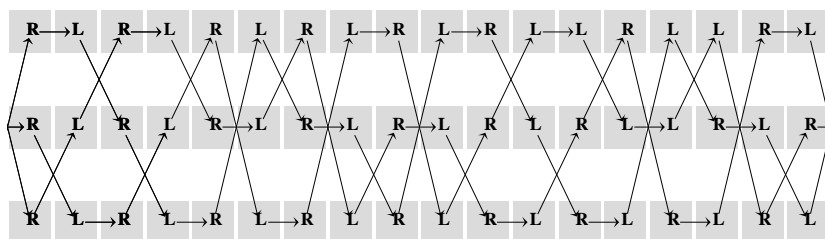
Will and Rhonda...

Jugglers: 2

Jon and Mandy, at their workshop in Ollerup.

have never done this, but it should be feasible.

Bruno's Ambidextrous Nightmare



Clubs: 9

Inventor:

Will and Rhonda...

Comments:

Jugglers: 3

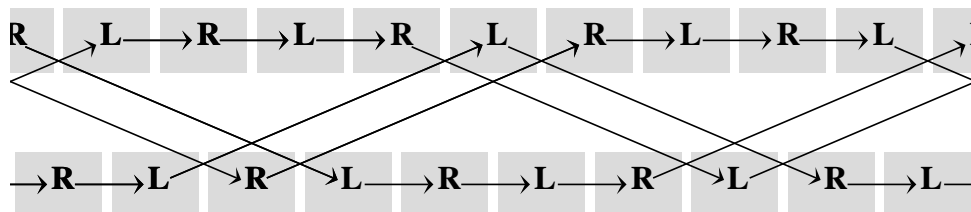
Staffan and Jochen in Durham.

haven't worked on this because Will wishes to preserve his marriage. Will worked on it with Aidan and James in Durham with reasonable success.

The diagram above doesn't show the selves. The full "9-count" pattern is PSSPSSPSS. When you do this, imagine Bruno's hands juggling the three jugglers. If the feeder starts in Bruno's right hand, as in the pattern above, everyone starts right-handed. The 7-count pattern is PSPSPSS, and you use the same starting rule. The 5-count pattern is PSPPS, and you use the opposite rule: If there are two balls in Bruno's right hand, everyone starts right-handed. (The 3-count version would be PPP with the original rule, but this doesn't seem feasible.)

The reason for this is that on the third pass, the feeder is leading one feedee up through the middle. If the feeder is in Bruno's right hand, he that third pass should come from his right hand so that giving the feedee a big lead spreads the clubs out instead of making them crash in the feedee's face. So you want that pass on an odd beat. In the 9-count and 7-count, that pass is on beats 7 and 5, respectively. In the 5-count, that pass is on beat 4, so you reverse the rule.

ChaChaPeter



Clubs: 8

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Peter, in December 2006.

have never tried this. Will and Mandy got it for a few throws in Alby, but it's tough.

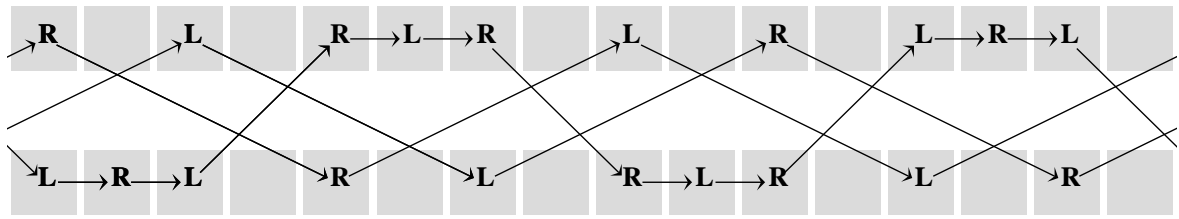
Symmetric version of ChocolateBar

Related patterns

Other related patterns:

all the other ChaChas

ChaChaWill7



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Will, in December 2006, inspired by Peter.

have never tried this. Rhonda and Staffan worked on it in Lexington.

It's probably best to do this with triples and lofty singles.

Related patterns

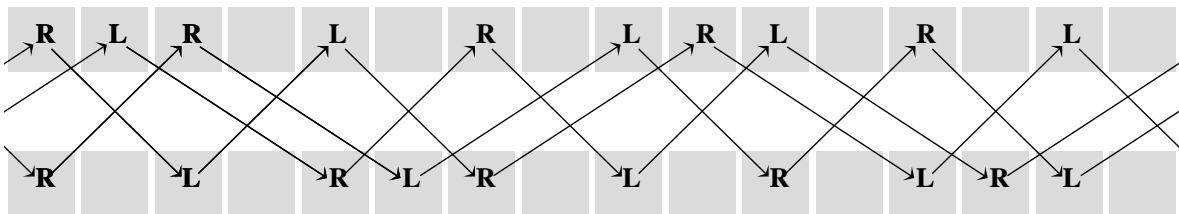
Subtract a club:

The lofty single pass is always the same club, so you can practice a six-club pattern without this club.

Other related patterns:

all the other ChaChas

ChaChaWill7club1count



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Will, in December 2006, inspired by Peter.

tried this in Alby, but it was surprisingly hard. Staffan and Will got several cycles of this in Lexington. It is doable and fun!

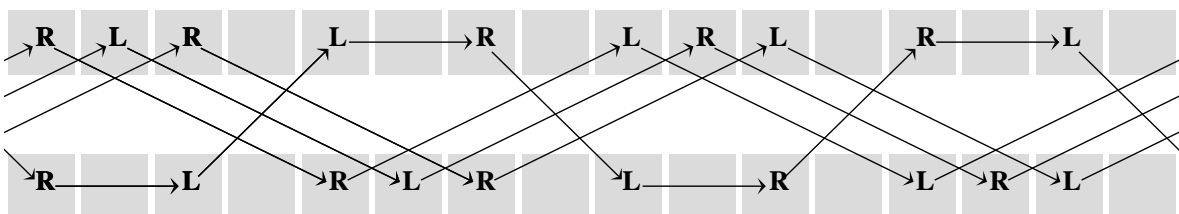
Try this with lofty singles and doubles. They may get a little random, but that's ok. In particular, the top juggler should really loft the first left-handed single (i.e., the second left-handed throw), to avoid rushing the bottom juggler.

Related patterns

Other related patterns:

all the other ChaChas

ChaChaWill8



Clubs: 8

Inventor:

Will and Rhonda...

Related patterns

Other related patterns:

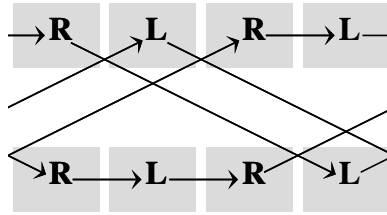
Jugglers: 2

Will, in December 2006, inspired by Peter.

tried this in Alby, and got it for a few rounds. It may be possible.

all the other ChaChas

ChocolateBar



Clubs: 8
 Inventor:
 Will and Rhonda...

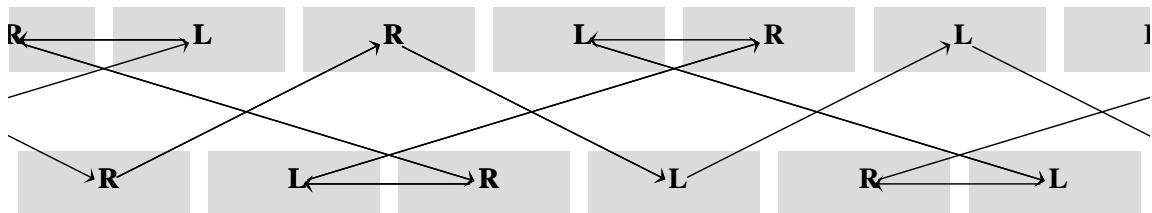
Jugglers: 2
 Luke Emery
 may or may not have done this. Will has done it fairly successfully with Peter and with Mandy.

Comments: Right-handed version of ChaChaPeter

Related patterns

Other related patterns: all the other ChaChas

Christoph'sColors



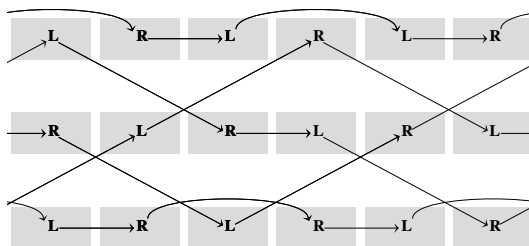
Clubs: 6
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 Christoph Shumacher
 have not done this. Will did it with Christoph in Durham.
 This is 972. Do it with 3 red and 3 yellow clubs, so that all doubles are yellow and all singles are red. Or do it with 2 red, 2 blue, and 2 yellow clubs, so that each double and answering single are the same color. The former looks better to jugglers in the pattern, and the latter looks better to spectators.

Related patterns

Add a club: ZapOpusTwo
 Subtract a club: 942

Christoph's French Feed



Clubs: 11
 Inventor:
 Will and Rhonda...

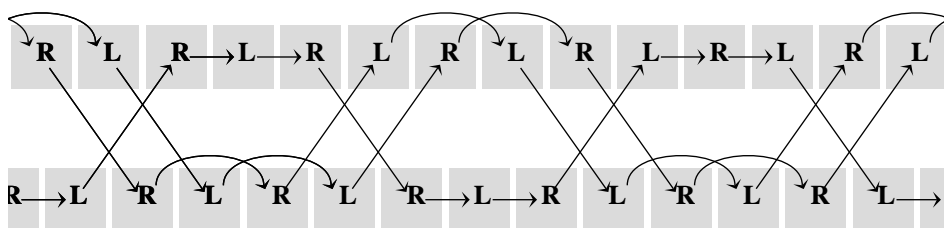
Jugglers: 3
 Christoph Shumacher
 have not done this. Will did it with Doreen and Matt in Isla Vista, fairly successfully.

Comments: The feedees are essentially doing French 3-count, except that the passes are 4's instead of 3.5's. This seems easier than the traditional 11 club PPSfeed, but maybe that's the effect of having Doreen and Matt as partners.

Related patterns

Other related patterns: French 3-count, PPSfeed

DDD1



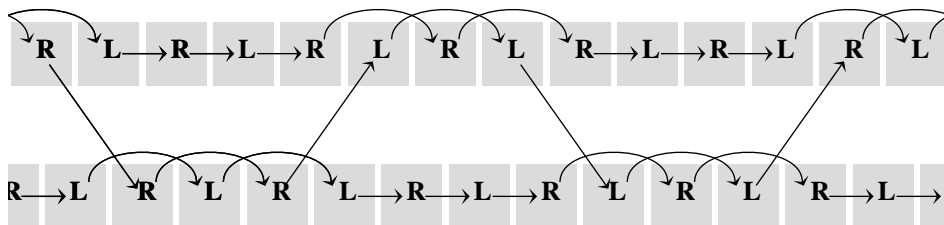
Clubs: 7
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 Doreen and Daniel, in Durham
 have not done this.
 This is 7778686. The same clubs are passed every time, so this could be color-coded.

Related patterns

Other related patterns: all the other DDD's

DDD2



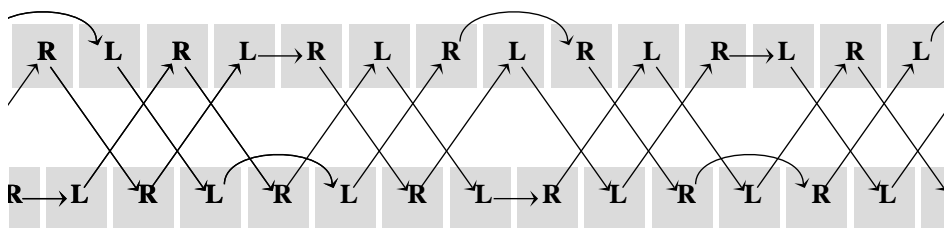
Clubs: 7
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 Doreen and Daniel, in Durham
 have not done this.
 This is 7868686. The same club is passed every time, so this could be color-coded.

Related patterns

Other related patterns: all the other DDD's

DDD3



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Doreen and Daniel, in Durham

have not done this.

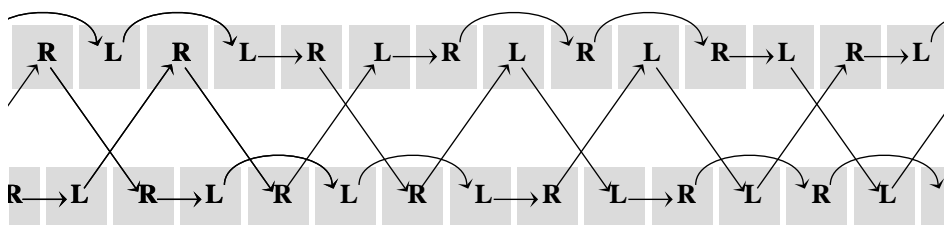
This is 7777786. The same clubs are passed every time, so this could be color-coded.

Related patterns

Other related patterns:

all the other DDD's

DDD4



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Doreen and Daniel, in Durham

have not done this.

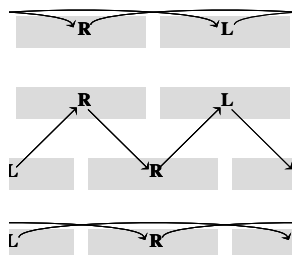
This is 7786786. The same clubs are passed every time, so this could be color-coded.

Related patterns

Other related patterns:

all the other DDD's

FiveWithBenefits



Clubs: 9

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Antonio, in Vitoria

have not done this. Will and Antonio got it to work a bit.

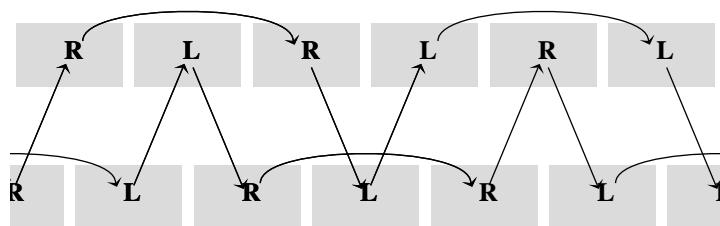
This is just five club one count with each hand throwing a multi on every throw and one club coming back to the hand that threw it.

Related patterns

Other related patterns:

Antonio'sAngst, Antonio'sAnxiety

FrankZappalot



Clubs: 6
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 Will
 can do this a bit. With practice, we should be able to run it.
 This is just 855.

Related patterns

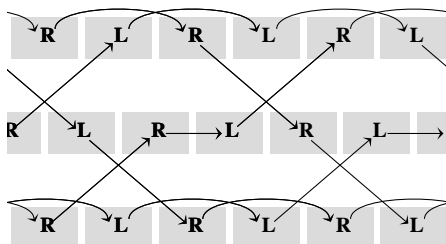
Add a club:
 Subtract a club:

Heffalump (885), 7club3count (966)
 A good warmup for this is ZapHeff (84445).
 Another 4-club version is 552 (FrankZappalite?), which is a good way to start learning this. Then you do 552 vs. 558, which is already challenging.
 Of course, there is also 5-club one count, which is pretty hard with zaps.
 It is also fun to do 852 and 582, which can be done separately, or one person can do one and the other person can do the other. Will has worked on these with Athena, and gotten them after a while.

Other related patterns:

FrankZappaFeed

FrankZappaBigFeed



Clubs: 11
 Inventor:
 Will and Rhonda...

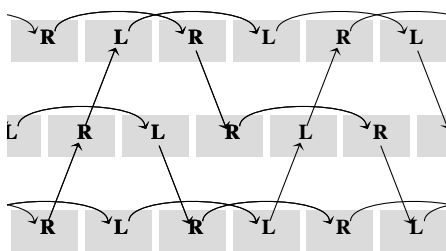
Jugglers: 3
 Will
 have never tried this, but it might be feasible with good four-club jugglers.

Related patterns

Add a club:

FrankZappaFeed

FrankZappaFeed



Clubs: 10

Inventor:

Will and Rhonda...

Comments:

Jugglers: 3

Will

worked on this with Jason in Highgate, and again with Louis in Vitoria, and started to get it.

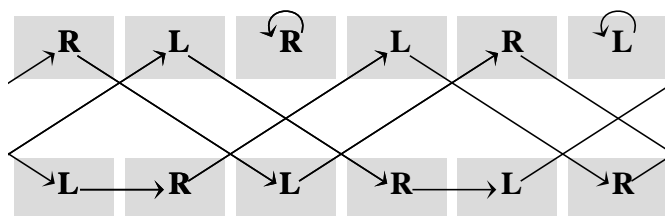
Frank Zappa feeds the heffalumps!

Related patterns

Add a club:

FrankZappaBigFeed

FrostFrenzy



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Martin

have never done this. Will does it with Martin, sometimes with long runs.

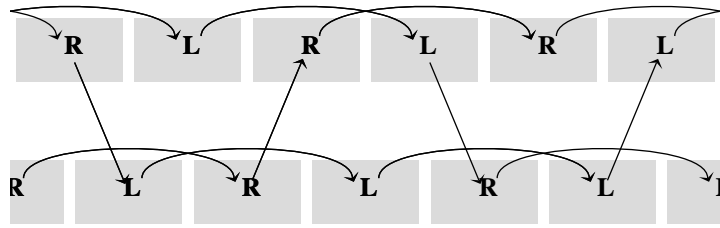
All passes are floaty singles, although it might work nicely with doubles. (It's very strenuous on singles.) To start, the top person holds two clubs in each hand and starts like right-handed 7 singles: Pass self pass pass pause pass pass pause... The bottom person responds like right-handed 7 singles: Pause pass self pass pass self pass pass self...

Related patterns

Other related patterns:

FeedingFrenzy, a 10 club pattern in which the feeder does pass pass pause and the feedees do pass self self (I think).

Heffalump



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Will

can do this a bit. With practice, we should be able to run it. Will has also started to get it with Dave.

This is just 885. It feels a lot like solo 441.

Related patterns

Add a club:

Subtract a club:

Other related patterns:

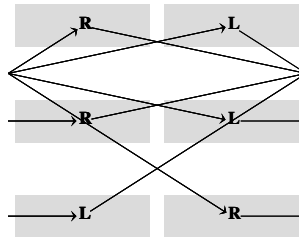
8-club PPS (996)

FrankZappalot (855)

We haven't tried 774, but it doesn't sound too interesting.

FrankZappaFeed

GorillaMixed



Clubs: 12

Inventor:

Will and Rhonda...

Comments:

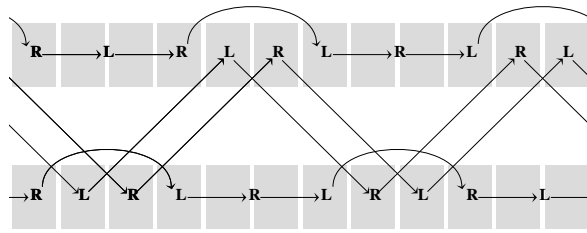
Jugglers: 3

Will

haven't tried this, but should sometime. It might work with double and single passes.

The standard 12-club gorilla feed is two unrelated 6-club patterns, which tend to drift in and out of synch. In this feed, the clubs visit all three jugglers, and it might be easier to keep the rhythm.

IrrationalGoat



Clubs: 8

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Staffan in Durham, in an attempt to find a mixed rhythm pattern that is not as extreme as the ChaChas.

haven't tried it together, but we each did it with Staffan and Jason with some success. It's not that bad once you figure out which clubs you're supposed to catch. This is homotopic to Svendborg1.5, with self doubles instead of self triples. That changes the rhythm and probably makes it a bit easier.

This pattern has endless names. Andy called it the Lumberjack because Rhonda and Staffan were wearing matching lumberjack shirts on its maiden flight. Staffan said he couldn't name it after himself because "it's not that great!" So he called it Irrational Goat Choking on Popcorn, and the rest of us called it the Pattern Unworthy of Staffan, the Pattern Formerly Known as Staffan's Pattern, Drunken Goat, or just the Goat.

Related patterns

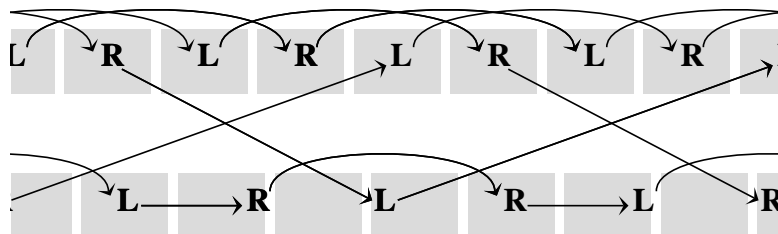
Subtract a club:

You can learn this pattern by taking out one club on one side, the club that does the self double. In that case, that side throws no self double and no selves, so that person just throws two double passes and then waits to throw the next two.

Other related patterns:

All the ChaChas

Jar



Clubs: 9

Inventor:

Will and Rhonda...

Jugglers: 2

Jim and Rhonda

can run this for a while on good days.

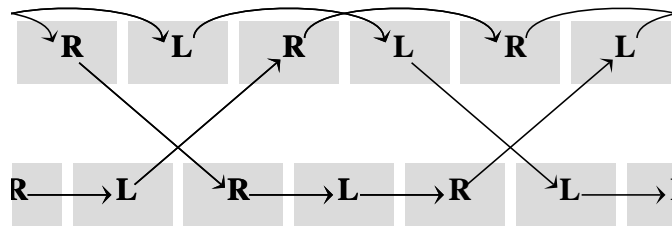
Related patterns

Other related patterns:

Nine3count, Nine4count

This becomes a 14-club feed with the feeders doing 534p.

Jen's ThreeCount



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Will

have never done this. Will tried it with Jen, fairly successfully. It's not too fast.

This is 868677.

Related patterns

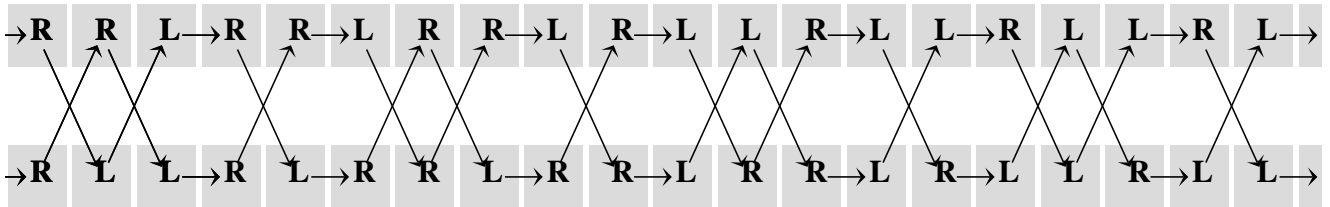
Add a club:

Other related patterns:

Ampersand8 (979788)

867777

Jim's Bookends



Clubs: 6

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Ross, in Ollerup

have never done this

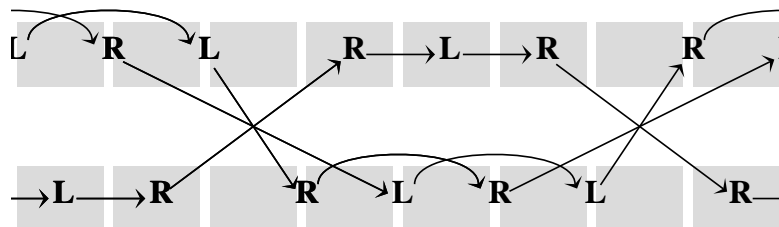
This is PPSPS with one person throwing straight and one crossing.

Related patterns

Add a club:

There is probably a seven club version with double passes, but I haven't worked it out.

Jon's Weeder



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Will, from suggestions from Jon in Madrid

may have worked on this in Madrid

The point of this is to get passes of three different heights peaking simultaneously.

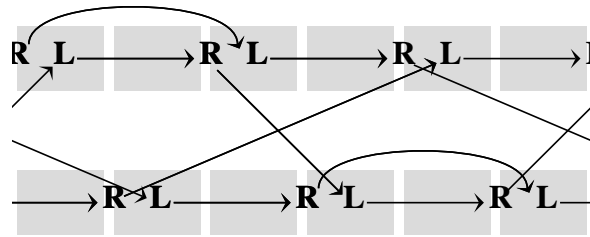
The 44 solo could also be done as a 53.

Related patterns

Other related patterns:

all the other Weeders

LongBeachPopcorn



Clubs: 8
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 Will, inspired by Nate and Adam's 13 club feed
 can run this all day, with occasional syncopations (see LongBeachPopcOrrn).
 See Will's article.

Related patterns

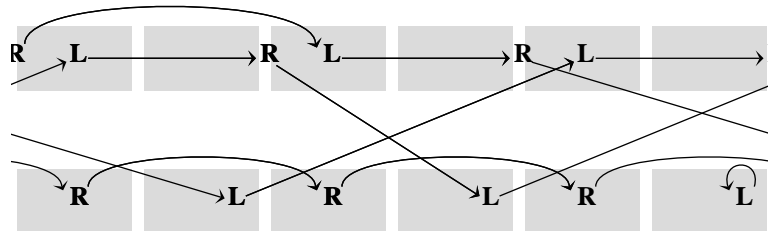
Add a club:
 Subtract a club:

9 club 2-count
 7 club traditional 6-count popcorn
 5 3 (4) 3 (or (6) 3 3 3) vs. 3 3 3 (4), which might be a good way to begin learning right-handed double selves.

Other related patterns:

Lopsided Popcorn
 WaR
 Right-handed 8 club PPS (9 club 2-count with a hole)
 12 club feed (feedees doing 4-count triples, or single passes with right-handed double selves)
 13 club feed
 LongBeachCycle
 LongBeachSpiderweb

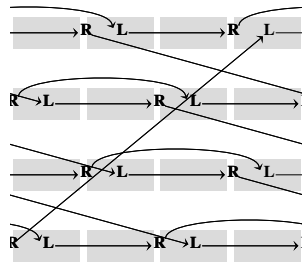
LongBeachPopcOrrn



Clubs: 8
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 Isaac Orr
 haven't worked on these enough.
 You can switch in and out of this from the regular pattern, (6) 3 5 3 (4) 3, without disrupting your partner. Or just do the first two throws, 4 (5) instead of (6) 3. Other possible syncopations include replacing 5 3 with 4 4 or replacing (4) 3 with 4 (3). You can also replace (6) 3 5 3 (4) 3 with (6) 3 (6) 3 3 3.

LongBeachCycle



Clubs: 17

Inventor:

Will and Rhonda...

Comments:

Jugglers: 4

Will

have never tried this.

This can be done in a square passing left (four collisions), a square passing right (no collisions), a Y (one collision), or two facing two (two collisions).

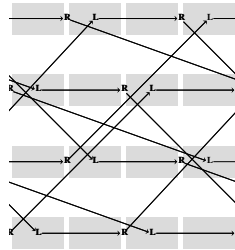
Related patterns

Other related patterns:

LongBeachPopcorn

LongBeachSpiderweb

LongBeachSpiderweb



Clubs: 17

Inventor:

Will and Rhonda...

Comments:

Jugglers: 4

Will

have never tried this.

Must be done in a square since each person is either passing or receiving from every other person.

Related patterns

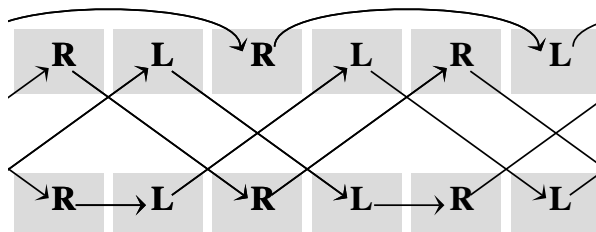
Other related patterns:

LongBeachPopcorn

LongBeachCycle

Spiderweb

LopsidedPPS8



Clubs: 8

Inventor:

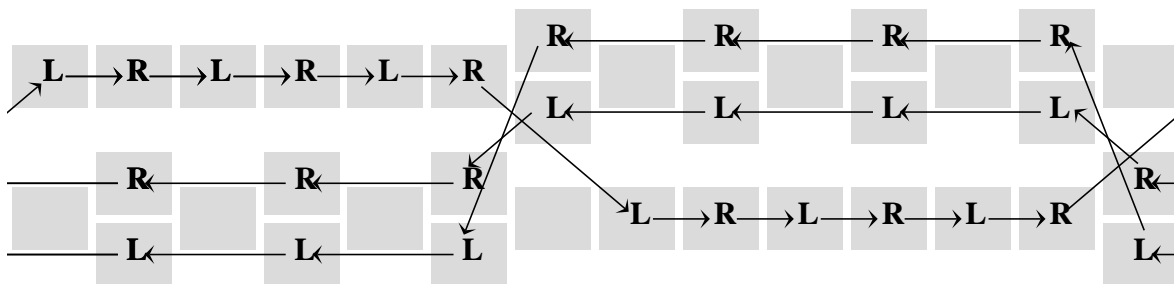
Will and Rhonda...

Jugglers: 2

Will

have had little success with this.

LukasHandoff



Clubs: 3

Inventor:

Will and Rhonda...

Comments:

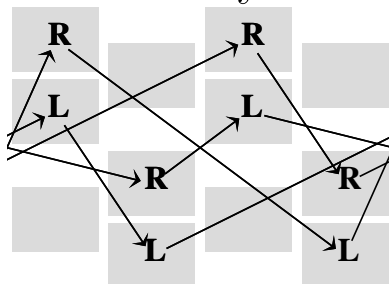
Jugglers: 2

Lukas from Freiburg, in Ollerup

haven't tried this, but it should be doable.

The high throw should be a really high triple. It's fun to do the low throws as zero spin chops, as vertical flats, treblas, shoulder throws, or whatever. You can even stand back to back and hand them back by your hips or over the shoulders (do a half flip to set them up).

LukeEmerySimul



Clubs: 8

Inventor:

Will and Rhonda...

Jugglers: 2

Luke, in discussion on the Passout list

have never tried this.

Related patterns

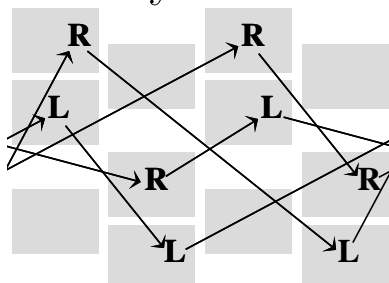
Subtract a club:

You can have just one person throwing simul triple-singles while the other throws single-singles. Will has tried this with Mandy in Millstreet and Berengar in Alby, and it's still plenty tough. You can also have lots of other combinations.

Other related patterns:

LukeEmerySimulDoubles

LukeEmerySimulDoubles



Clubs: 8

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Will, in an attempt to make LukeEmerySimul easier

have never tried this.

This gallops RLLR, which might make it interesting, or extremely hard.

Related patterns

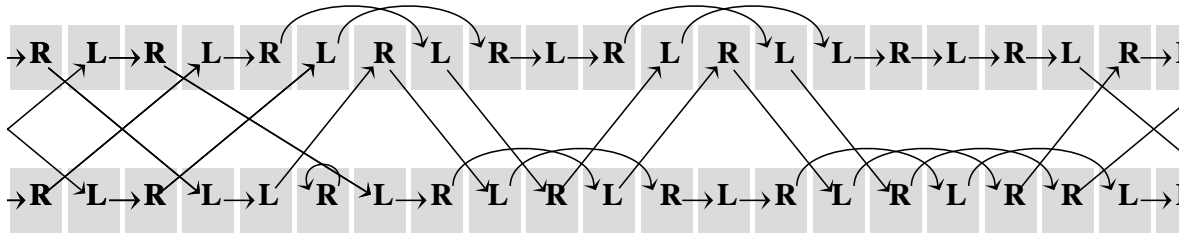
Subtract a club:

Other related patterns:

probably the same possibilities as LukeEmerySimul

LukeEmerySimul

MarchingToSvendborg



Clubs: 8

Inventor:

Will and Rhonda...

Jugglers: 2

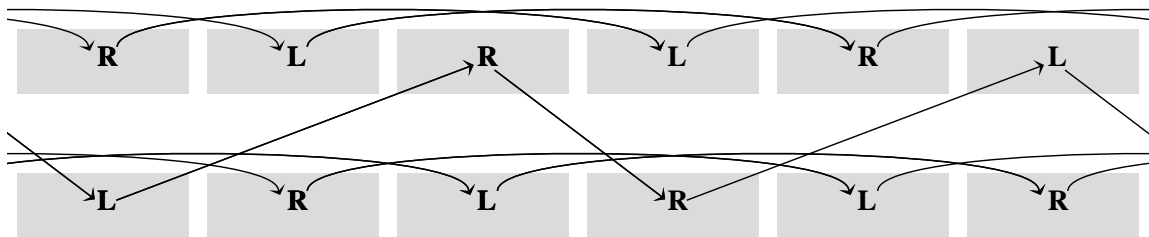
Rhonda, as a transition between 2-count and Svendborg haven't quite done this yet.

Related patterns

Other related patterns:

Svendborg Popcorn, of course

Nine3count



Clubs: 9

Inventor:

Will and Rhonda...

Jugglers: 2

Rhonda, en route to Lexington in 2008. have never tried this.

Related patterns

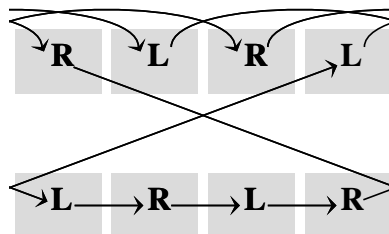
Subtract a club:

Other related patterns:

Will's warmup pattern is $\begin{pmatrix} 3 & 5 & 5 \\ 4 & 4 & (3) \end{pmatrix}$, with the 5s as doubles and the 4s as singles.

Nine4count, Jar

Nine4count



Clubs: 9

Inventor:

Will and Rhonda...

Jugglers: 2

Will

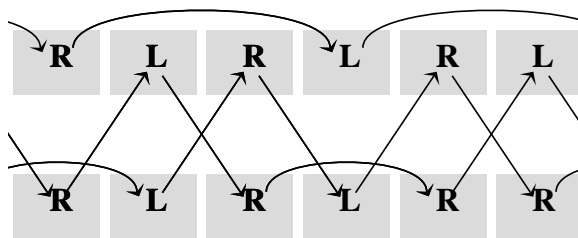
tried this in Alby and got it a bit.

Related patterns

Other related patterns:

Nine3count, Jar

Ollerand



Clubs: 7

Inventor:

Will and Rhonda...

Jugglers: 2

Will

can do this for a bit, with lots of staggering around.

Related patterns

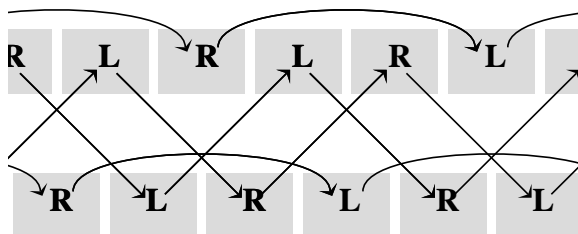
Add a club:

Other related patterns:

OllerupPopcorn(10-7-7)

Ampersand

OllerupPopcorn(10-7-7)



Clubs: 8

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Will

have never succeeded at this.

Each of the $\binom{4}{3}$ groups of three hands has exactly two clubs cycling through it. (See ZapOpusOne.)

Related patterns

Subtract a club:

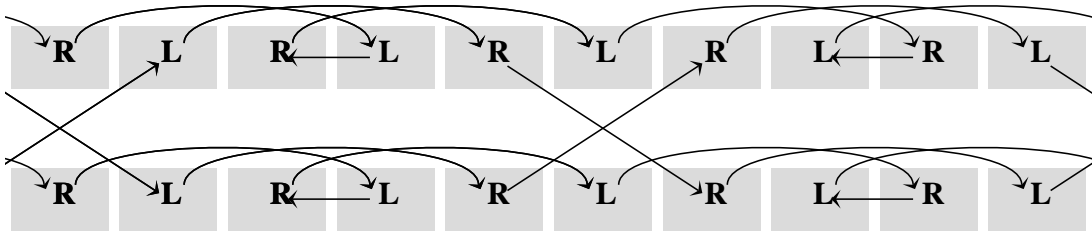
Ollerand

966 (7 club 3-count)

7 club 1-count

10 7 7 4 7 7, which might be a good warmup for this.

Par



Clubs: 8

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Peter and Rhonda, in Lexington in 2008.

worked on this with lots of people in Durham. The record is around four or five 5551's each.

To make this right-handed, do two passes instead of one, i.e. replace 5 5 5 1 4p with 5 5 5 1 4p 4p.

Related patterns

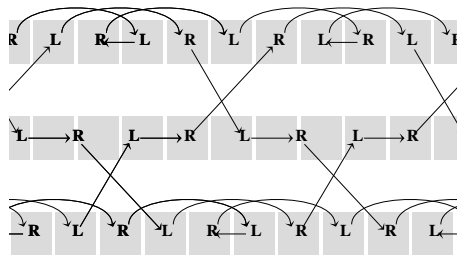
Subtract a club:

55513p. Do this left-handed as practice for Par.

Other related patterns:

55515p3

ParFeed



Clubs: 11

Inventor:

Will and Rhonda...

Related patterns

Other related patterns:

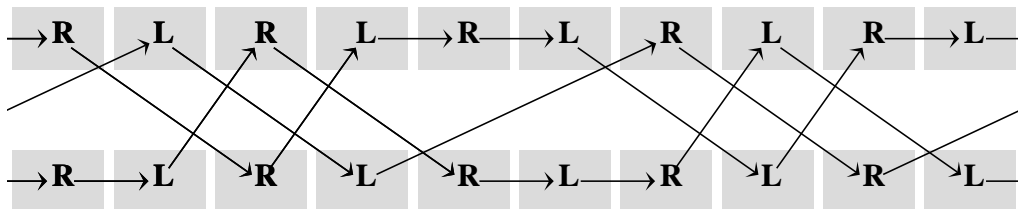
Jugglers: 3

Will

haven't tried this. It might be pretty hard.

Par, Sympar

PPSSS



Clubs: 7

Inventor:

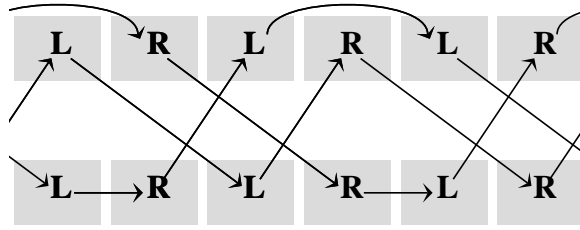
Will and Rhonda...

Jugglers: 2

Jon and Mandy, at a workshop in Ollerup.

haven't tried this, but it's feasible.

PPS444333Crossing



Clubs: 7

Inventor:

Will and Rhonda...

Jugglers: 2

Will

did this in January 2007. It's amusing for a little while.

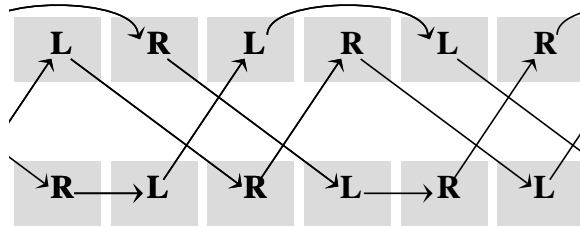
Related patterns

Other related patterns:

Ampersand

PPS444333Straight

PPS444333Straight



Clubs: 7

Inventor:

Will and Rhonda...

Jugglers: 2

Will

did this in January 2007. It's amusing for a little while.

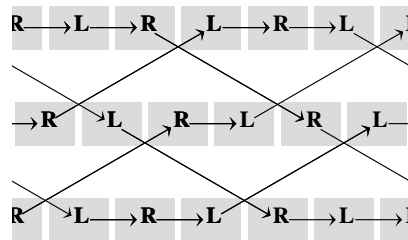
Related patterns

Other related patterns:

Ampersand

PPS444333Crossing

PPSfeed



Clubs: 11

Inventor:

Will and Rhonda...

Comments:

Jugglers: 3

folklore

can probably run this.

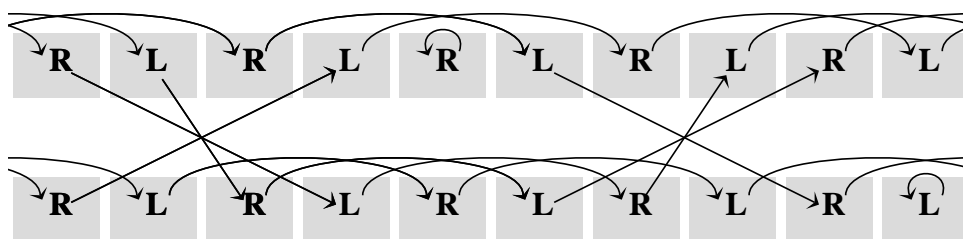
fun for the feeder

Related patterns

Other related patterns:

7club3count, Christoph'sFrenchFeed

Raw



Clubs: 9

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Rhonda or Will

have never tried this.

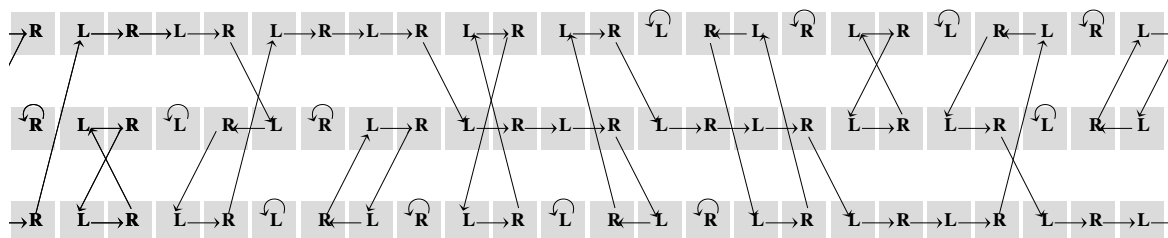
This may be way too hard unless we can do the 5's on doubles, which may not work because of the 3's. It might be slightly easier if we switch the hands of the bottom person so he leads with the right hand and the passes are diagonal.

Related patterns

Other related patterns:

Weeder

Roundabout



Clubs: 7

Inventor:

Will and Rhonda...

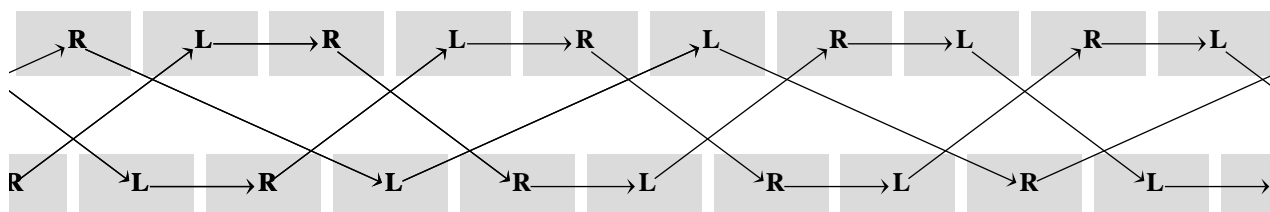
Comments:

Jugglers: 3

Take That Out, a.k.a. Florian, Jochen, and Jochen do this with Jim and Jen.

Also known as Slap My Face. To mix it up, add pirouettes whenever possible, or do the Chopabout.

Samerup(96677)



Clubs: 7

Inventor:

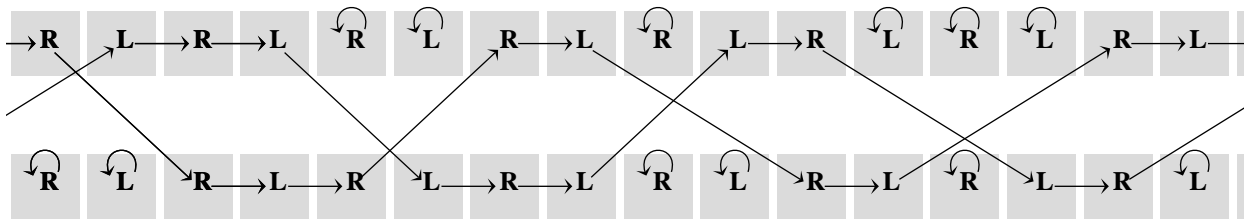
Will and Rhonda...

Jugglers: 2

Sam, in Ollerup

have never tried this.

Sewell1



Clubs: 6

Jugglers: 2

Inventor:

Jeff Wiggs, after passing with Bill Sewell in Flatland 2007

Will and Rhonda...

haven't tried this.

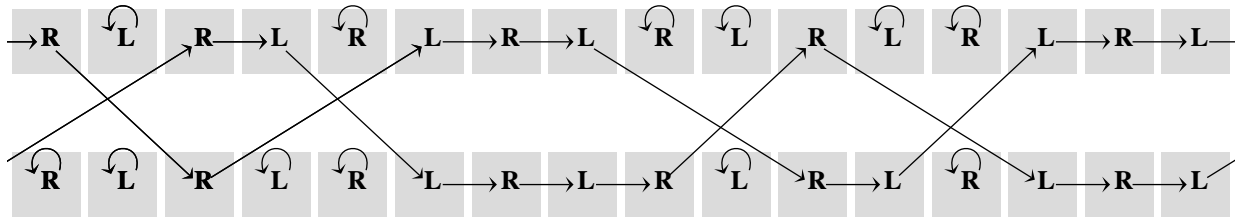
Related patterns

Other related patterns:

Sewell2, which is this pattern out of phase.

Sewellite

Sewell2



Clubs: 6

Jugglers: 2

Inventor:

Jeff Wiggs, after passing with Bill Sewell in Flatland 2007

Will and Rhonda...

haven't tried this.

Related patterns

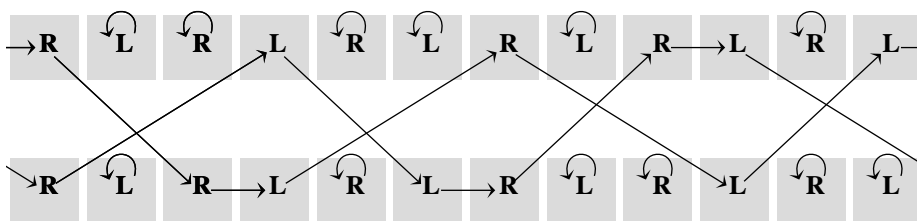
Other related patterns:

This would be fun to do as a feed with both feedees throwing this in various phases relative to each other.

Sewell1, which is this pattern in phase.

Sewellite

Sewellite



Clubs: 6

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Will, as a 3-count version of Jeff Wiggs' Sewell patterns.

have tried this, with some success.

Watch for collisions and be careful on the timing.

This can be done with the 5's as doubles and the 4's as singles, but it's pretty weird timing.

This is just a 3-count with late doubles and triples.

Related patterns

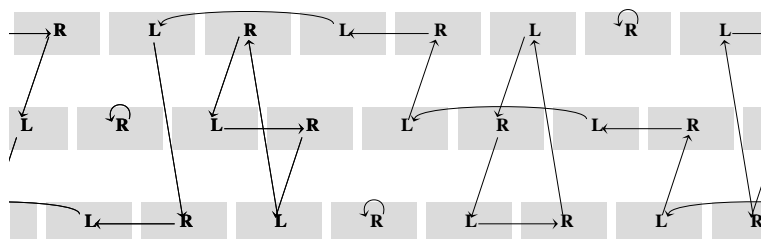
Add a club:

Because of the pauses, maybe another club could be squeezed in here.

Other related patterns:

Sewell1, Sewell2

Shamrock5



Clubs: 5

Inventor:

Will and Rhonda...

Jugglers: 3

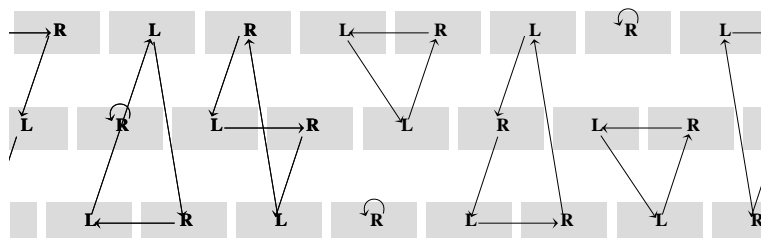
Take That Out, a.k.a. Florian, Jochen, and Jochen have done this, but Will mostly does it with Athena and Dave.

Related patterns

Add a club:

Shamrock6

Shamrock6



Clubs: 6

Inventor:

Will and Rhonda...

Jugglers: 3

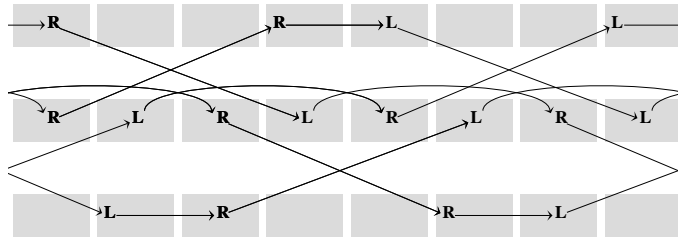
Take That Out, a.k.a. Florian, Jochen, and Jochen have done this, but Will mostly does it with Athena and Dave.

Related patterns

Subtract a club:

Shamrock5

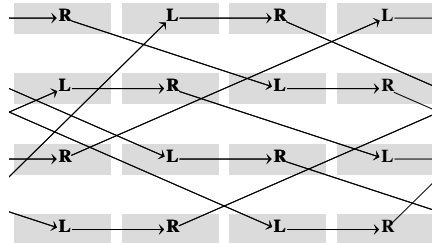
ShootingGallery



Clubs: 11
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 3
 Will
 have tried this with Jim, not very successfully.
 This is a righty-lefty version of 5vs3vs3, and you can start it directly from that.
 Either the feeder starts throwing to the feedees' right hands, or the feedees just
 move over.

Spiderweb



Clubs: 15
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 4
 Madison jugglers
 can run this with strong right-handed passers.
 We should try this sometime passing singles and doubles instead of doubles and
 triples.

Related patterns

Add a club:

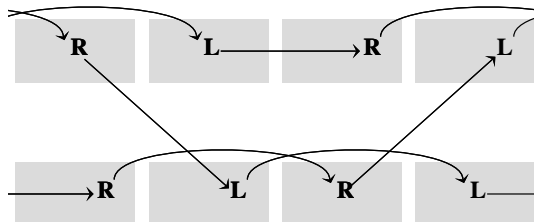
LongBeachSpiderweb (17 clubs)

Tarantulaweb (16 to 18 clubs)

Subtract a club:

Warmup versions of this pattern, omitting some of the triples.

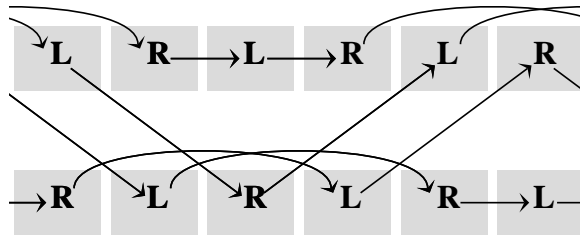
Steve's4count



Clubs: 7
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 Steve Healy and Rhonda
 can run this.
 If you do the 4's as singles, then you have to do the 3's a little fast. It would
 probably work better to do the 4's as doubles, but it's fun to do the fast version.

SvendborgPopcorn



Clubs: 8
 Inventor:
 Will and Rhonda...

Jugglers: 2
 Mandy and Jochen Pfeiffer, but they deny memory of it
 can do this for a bit on a good day.

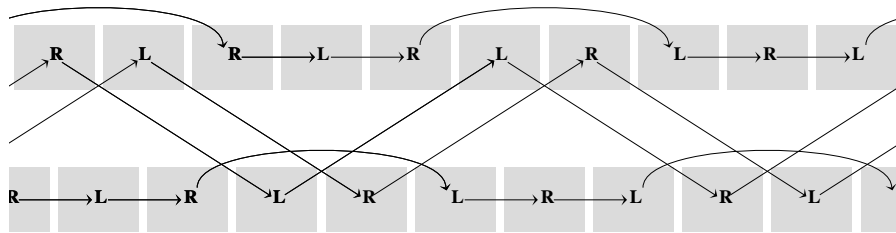
Related patterns

Other related patterns:

MarchingToSvendborg

You can also do 5 (4) (4) 3, right-handed vs. left-handed with straight passes, or both right-handed with crossing passes. (Will and Rhonda ran the right-handed version pretty well in Durham.) Or you can add n extra triples and n extra singles.

Svendborg1.5



Clubs: 8
 Inventor:
 Will and Rhonda...
 Comments:

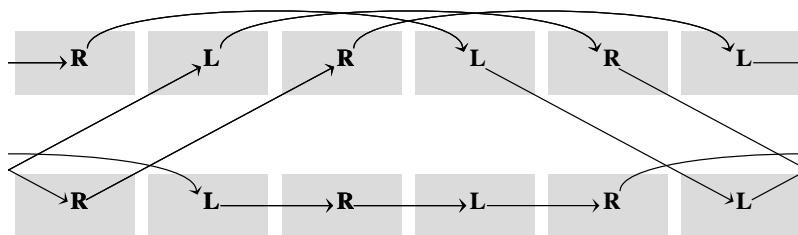
Jugglers: 2
 Doreen, but she says it's an old one.
 have never tried this. Doreen and Will got good runs of it in Isla Vista.
 This is homotopic to IrrationalGoat, with self triples instead of self doubles. That changes the rhythm and probably makes it a bit harder.
 This is also the symmetrized version of the compressed SvendborgPopcorn.
 To start it, Will holds five clubs and throws two straight doubles, right hand first. Rhonda holds three clubs, waits, and starts with a right self triple.

Related patterns

Other related patterns:

SvendborgPopcorn

SvendborgLopsided



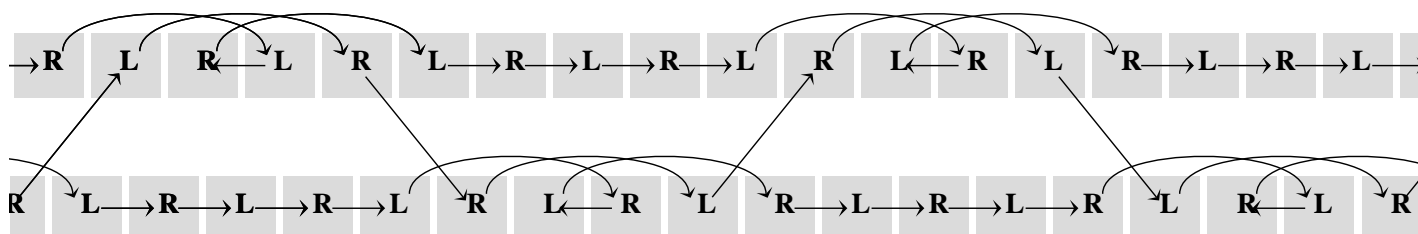
Clubs: 8
 Inventor:
 Will and Rhonda...

Jugglers: 2
 Luke Emery
 have never tried this. Peter and Luke do it.

Related patterns

Other related patterns: All the other Svendborgs.

Sympar



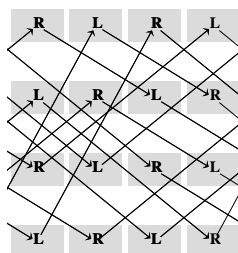
Clubs: 7
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 Will
 can do this pretty well now.
 Do the 3's really fast.

Related patterns

Other related patterns: 55513p, the right-handed version

Tarantulaweb



Clubs: 16 to 18
 Inventor:
 Will and Rhonda...

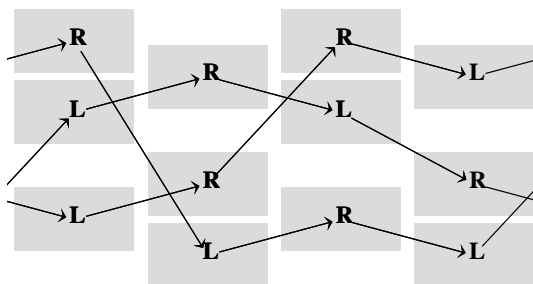
Jugglers: 4
 Luke Emery
 yeah, right. I would like to see the jugglers who can do this!

Related patterns

Subtract a club:

This is the Spiderweb with hohos added after every throw. (Right doubles followed by left doubles to the same person, right triples followed by left triples to the same person.) You could make it a 16 or 17 club pattern by only adding some of the hohos.

Techno



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

folklore, but I got it from Jon.

can run this.

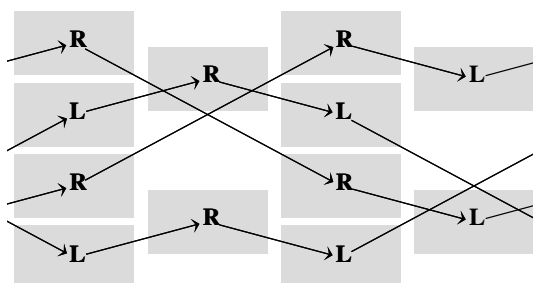
This is just 7 club 3-count on singles.

Related patterns

Add a club:

Techno8

Techno8



Clubs: 8

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Aidan and Rasmus, but I got it from Doreen.

tried this and got it a bit. It's fun.

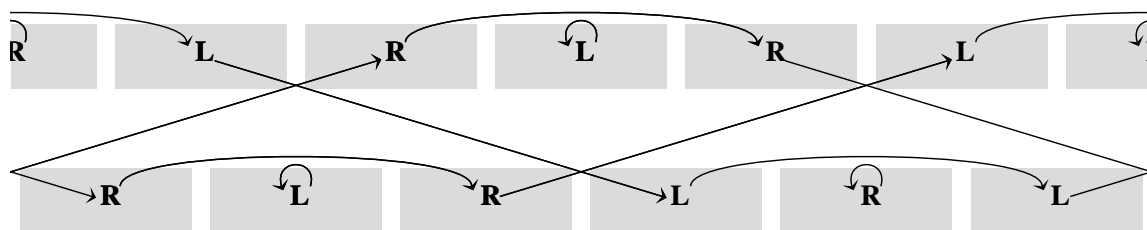
To start, each juggler throws a right crossing double, then pauses (as long as possible), then goes into the pattern starting with a left crossing double and right self.

Related patterns

Subtract a club:

Techno

Towers



Clubs: 7
 Inventor:
 Will and Rhonda...

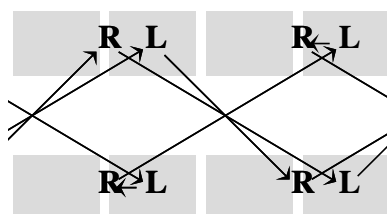
Jugglers: 2
 Rasmus
 have never tried this. Will did it with Rasmus in Durham.

Related patterns

Other related patterns:

This is 948, which is homotopic to Scratch Your Head. To see this, take out the 4's and then make the left and right hand throws simultaneous. Rasmus likes to do it with the 8's as singles, which makes it quite challenging. He said it can be done against Techno. When he did it with doubles, it worked well with Techno, but when he did it with singles, the other guy complained.

TurboWeeder



Clubs: 7
 Inventor:
 Will and Rhonda...

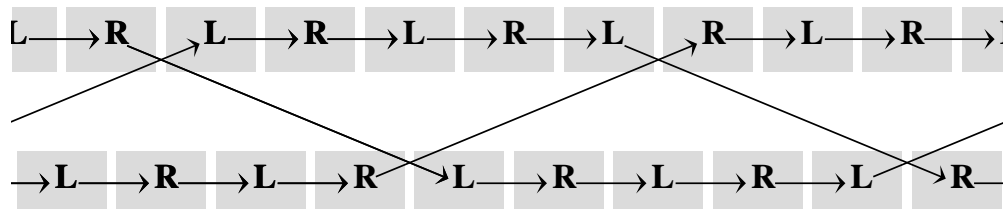
Jugglers: 2
 Will
 can run this.

Related patterns

Other related patterns:

all the other Weeders

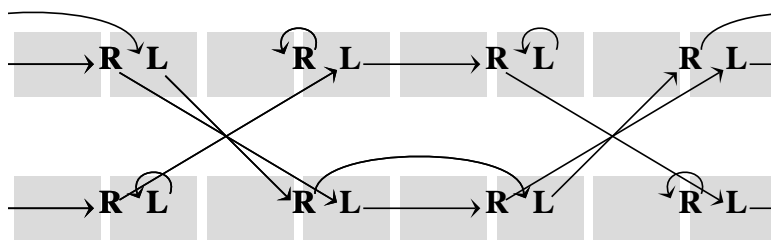
Volleyclub



Clubs: 7
 Inventor:
 Will and Rhonda...
 Comments:

Jugglers: 2
 Jon, in his workshop in Alby
 have never tried this. Will and Ross got it for a bit in Alby.
 Symmetric version of 4 count triples.

Weeder



Clubs: 7

Inventor:

Will and Rhonda...

Jugglers: 2

Will watering down a pattern by Rhonda (hence the name WDR) can run this.

Related patterns

Add a club:

Subtract a club:

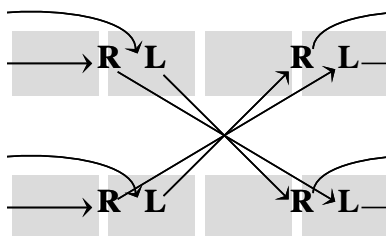
Other related patterns:

Weeder8

Weeder6

all the other Weeders

Weeder8



Clubs: 8

Inventor:

Will and Rhonda...

Jugglers: 2

Will

can probably run this.

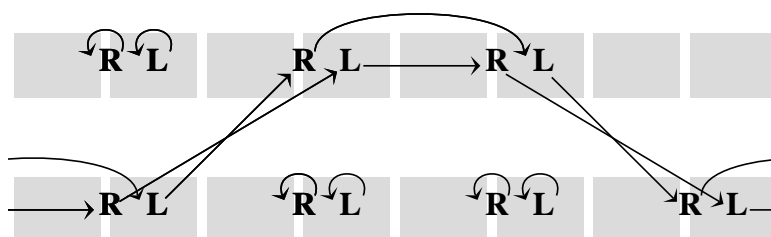
Related patterns

Other related patterns:

all the other Weeders

This is just two people doing double singles and passing two out of four.

Weeder6



Clubs: 6

Inventor:

Will and Rhonda...

Jugglers: 2

Will

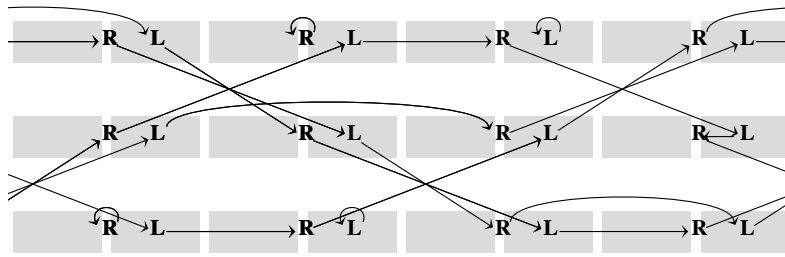
could probably run this.

Related patterns

Other related patterns:

all the other Weeders

WeederFeeder



Clubs: 11

Inventor:

Will and Rhonda...

Jugglers: 3

Will

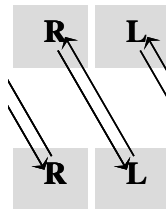
may never have tried this.

Related patterns

Other related patterns:

all the other Weeders

Windmill



Clubs: 4

Inventor:

Will and Rhonda...

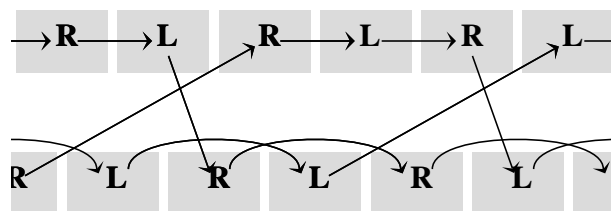
Comments:

Jugglers: 2

That Out, a.k.a. Florian and Jochen.
have never done this.

This looks good with Jochen juggling and Florian doing really fast windmilly steals.

ZapFour



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Will

have never done this.

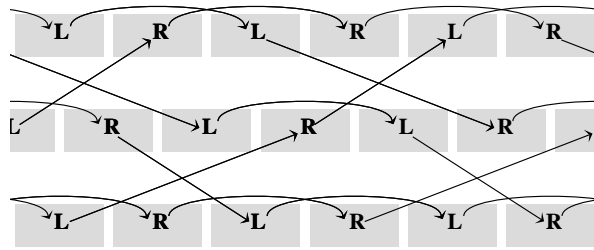
This is just 988 vs. 665. It could also be done with all crossing passes.

Related patterns

Other related patterns:

All the other ZapFours.

ZapFourFeedLow



Clubs: 12

Inventor:

Will and Rhonda...

Comments:

Jugglers: 3

Will

have never done this. It looks hard.

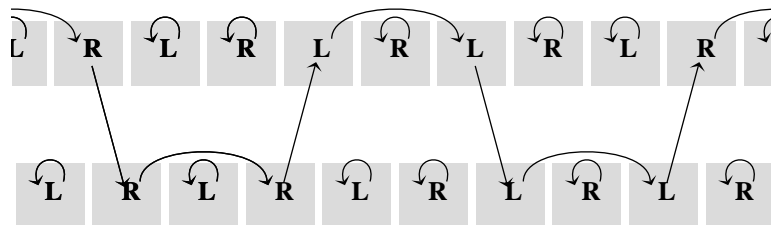
This is 988 and 988 vs. 778.

Related patterns

Other related patterns:

All the other ZapFours.

ZapHeff



Clubs: 5

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Athena and Dave

haven't tried this.

This is 84445. Each hand holds one club, and there is a fifth one zapping around. When the extra club comes to a hand, that hand does a heff to make time to catch the extra one and rezap it.

Related patterns

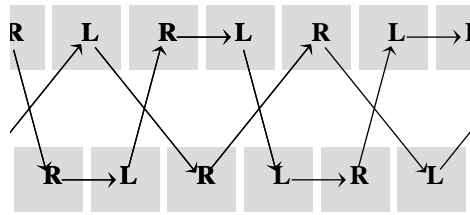
Add a club:

89445, 84945, 84495, and 95556 all sound challenging, but might be interesting and possible since they're only six clubs.

Other related patterns:

This is a good warmup to FrankZappalot and Heffalump.

ZapOpusOne



Clubs: 6

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Will

can run this all day.

This is interesting because each of the $\binom{4}{2}$ pairs of hands has exactly one club moving back and forth between the two hands. This is easy to see if you use six different colored clubs. (See Ollerup Popcorn.)

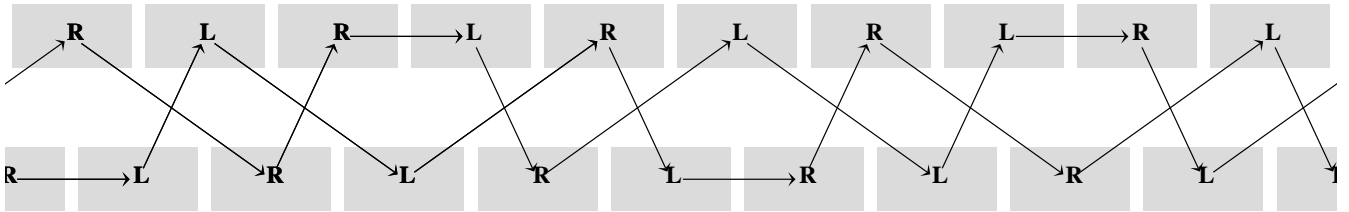
To start it, Rhonda holds two clubs in each hand. She throws a right crossing zap, then a left straight lofty single, then a right crossing self, then repeat on the other side. Will starts with one club in each hand and does a right crossing self, then a left straight zap, then a right crossing lofty single, then repeat on the other side.

Related patterns

Other related patterns:

All the other Zaps.

ZapOpus1.2(75756)



Clubs: 6

Inventor:

Will and Rhonda...

Jugglers: 2

Daniel

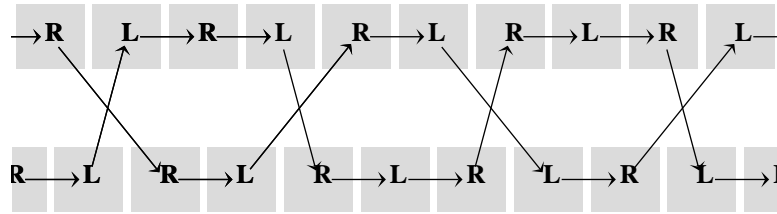
haven't tried this. It might be hard.

Related patterns

Other related patterns:

All the other Zaps.

ZapOpusOneHalf(75666)



Clubs: 6

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Will

can run this all day.

There are a couple collision dangers where crossing zaps go under crossing passes. If you keep the zaps low and the passes high, and focus on the timing (the passes are thrown slightly before the zaps), they aren't problems and you don't have to choose lanes.

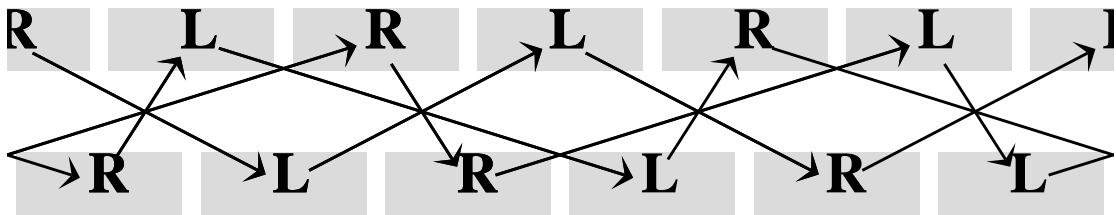
The same club is zapping every time, so it may help in remembering the sequence to use a different color club for that one at first.

Related patterns

Other related patterns:

All the other Zaps.

ZapOpusTwo



Clubs: 7

Inventor:

Will and Rhonda...

Comments:

Jugglers: 2

Will

haven't had much succes with this.

This can also be done one-sided with the other person doing 7 club 1-count (977757).

This may be a good way to build up to this.

Related patterns

Add a club:

978 is hard, but feasible for a few rounds. Will has done it for a few throws with Ross, Berengar, and Mandy.

Subtract a club:

756 is ZapOpusOne, which is fun.

456 might be called ZapOpusZero, and might be a good way to learn zaps.

945

972 is Christoph's Colors.