



# THE PUZZLING SIDE OF CHESS

Jeff Coakley

## LOOPOLGY XIII Multiloops & Hula Hoops

number 184

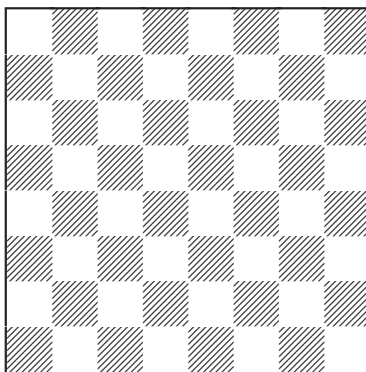
November 30, 2019

Loopology keeps coming back, keeps going round. This column presents five new multiloop puzzles and a brief history of hula hoops.



In a *multiloop*, two or more identical groups of pieces are placed so that each group forms its own loop, without interfering or interacting with the other loops.

### Threefold QRBN Multiloop



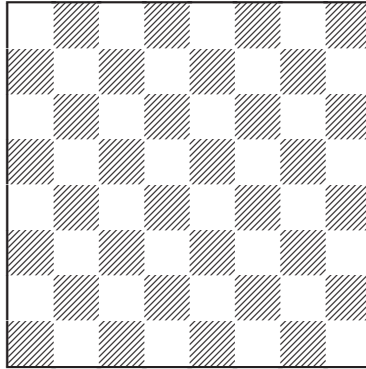
Place three sets of QRBN on the board  
so that each group forms an independent loop.

Each group should be a single continuous chain of defence in which every piece defends exactly once and is defended exactly once.

1st guards 2nd; 2nd guards 3rd; 3rd guards 4th; 4th guards 1st.

No piece may defend a piece in another group.

### Threefold RRBB Multiloop

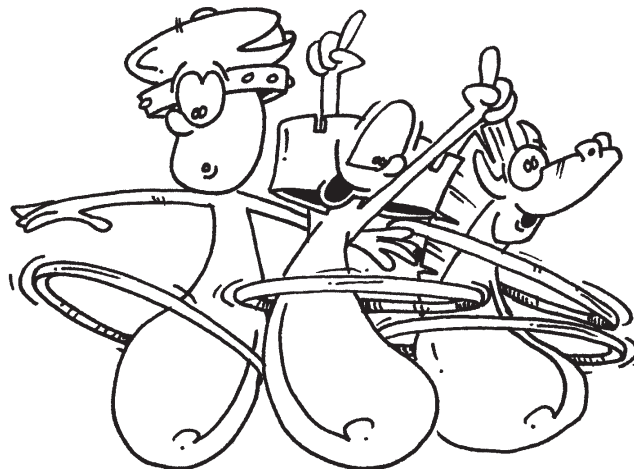


Place three sets of RRBB on the board so that each group forms an independent loop.

### Threefold RRNN Multiloop



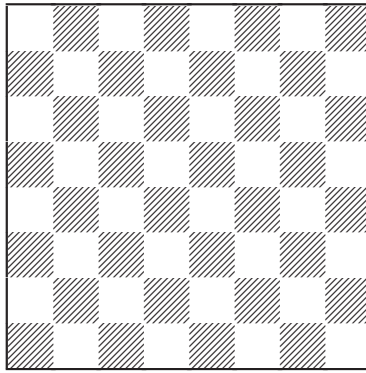
Place three sets of RRNN on the board so that each group forms an independent loop.



People have played with hoops for thousands of years, but the craze known as the *hula hoop* began in the summer of 1958. The bright plastic hoops were made by Wham-O, a company based in Carson, California. The popularity of the new toy was truly phenomenal. Within two years, over 100 million hoops were sold throughout the world. And they're still selling today.

The “hula hoop” got its name because the hip motion used to twirl it around your waist is similar to a hula dance.

## Fourfold BBNN Multiloop



Place four sets of BBNN on the board  
so that each group forms an independent loop.

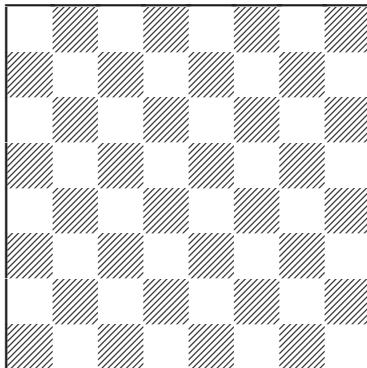


*23-fold Multiloop*

Wham-O had a knack for inventing successful toys. Their other products included the Frisbee and Hacky Sack.

The maximum number of multiloops for each piece group in this column has not been computer verified. Maybe you can squeeze in another loop! For example, is a sixfold RBN multiloop possible?

### **Fivefold RBN Multiloop**



Place five sets of RBN on the board  
so that each group forms an independent loop.



*No Hoops Hula*

Loopology will return in the new year. The temporarily postponed *Double Loops with Unequal Pieces* is still on the agenda.

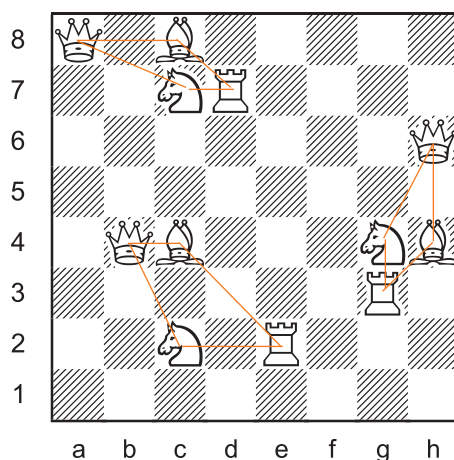
## SOLUTIONS

All problems by J. Coakley, *Puzzling Side of Chess* 2019.

**PDF hyperlinks.** You can advance to the solution of any puzzle by clicking on the underlined title above the diagram. To return to the puzzle, click on the title above the solution diagram.

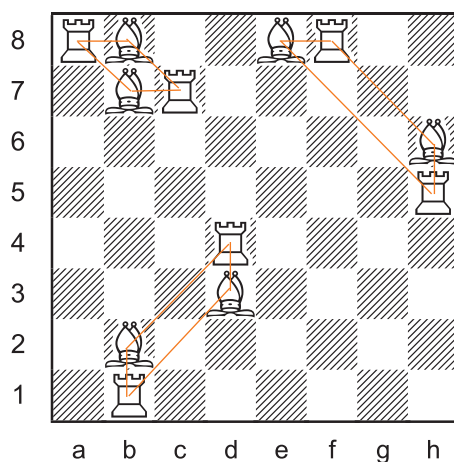
**Archives.** Past columns and a detailed index of problem-types and composers are available in the *Puzzling Side of Chess* archives.

### Threefold QRBN Multiloop



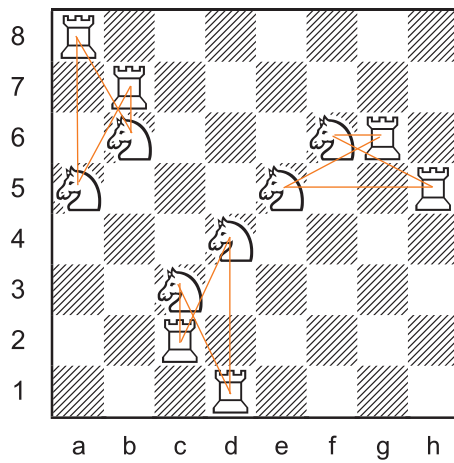
There are many solutions to all the multiloops in this column.

### Threefold RRBB Multiloop



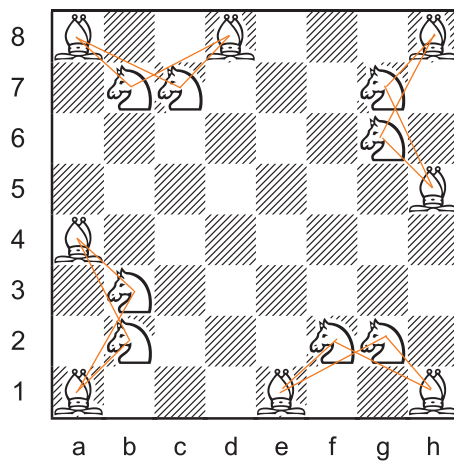
When was the last time you twirled a hula hoop? Or did the hula?

## Threefold RRNN Multiloop



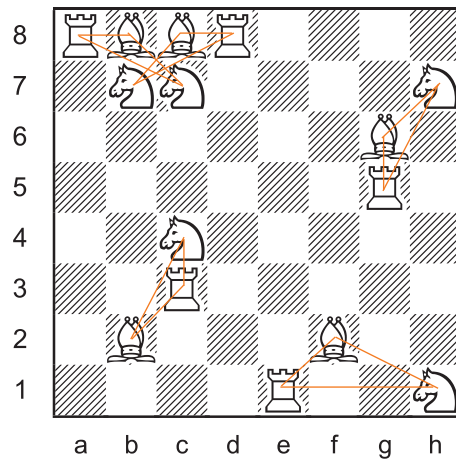
*Backyard Hoopla*

## Fourfold BBNN Multiloop



Identical loops in symmetrical multiloop.

## Fivefold RBN Multiloop



*Aloha Sundance*

Until next time!

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