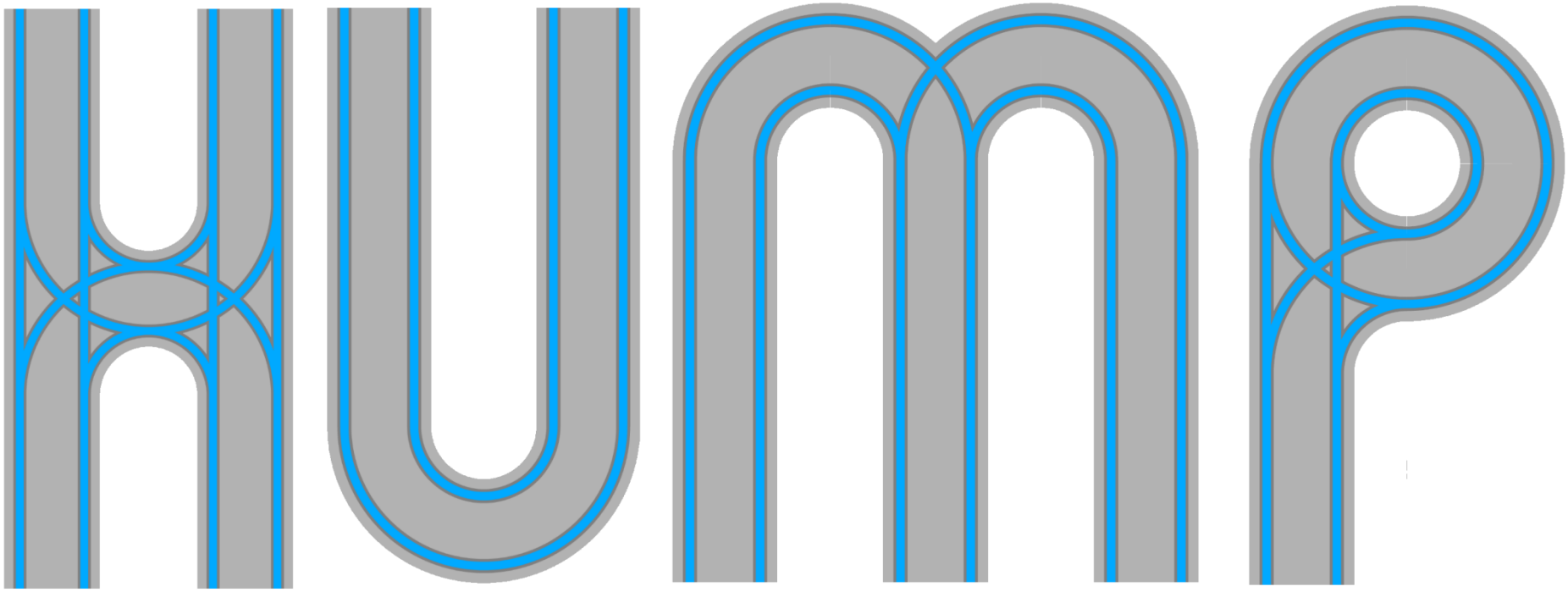
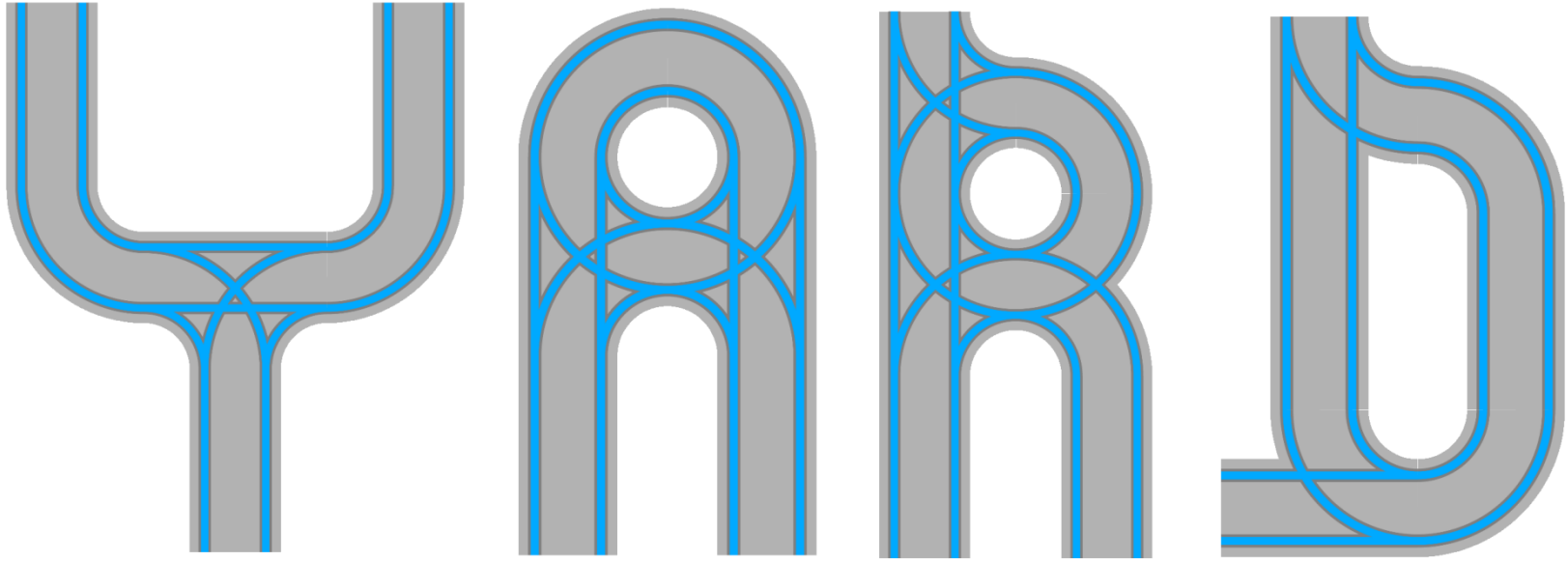


A Board Game by Bryce Summers



What is a Hump Yard?

A HUMP IS A HILL!

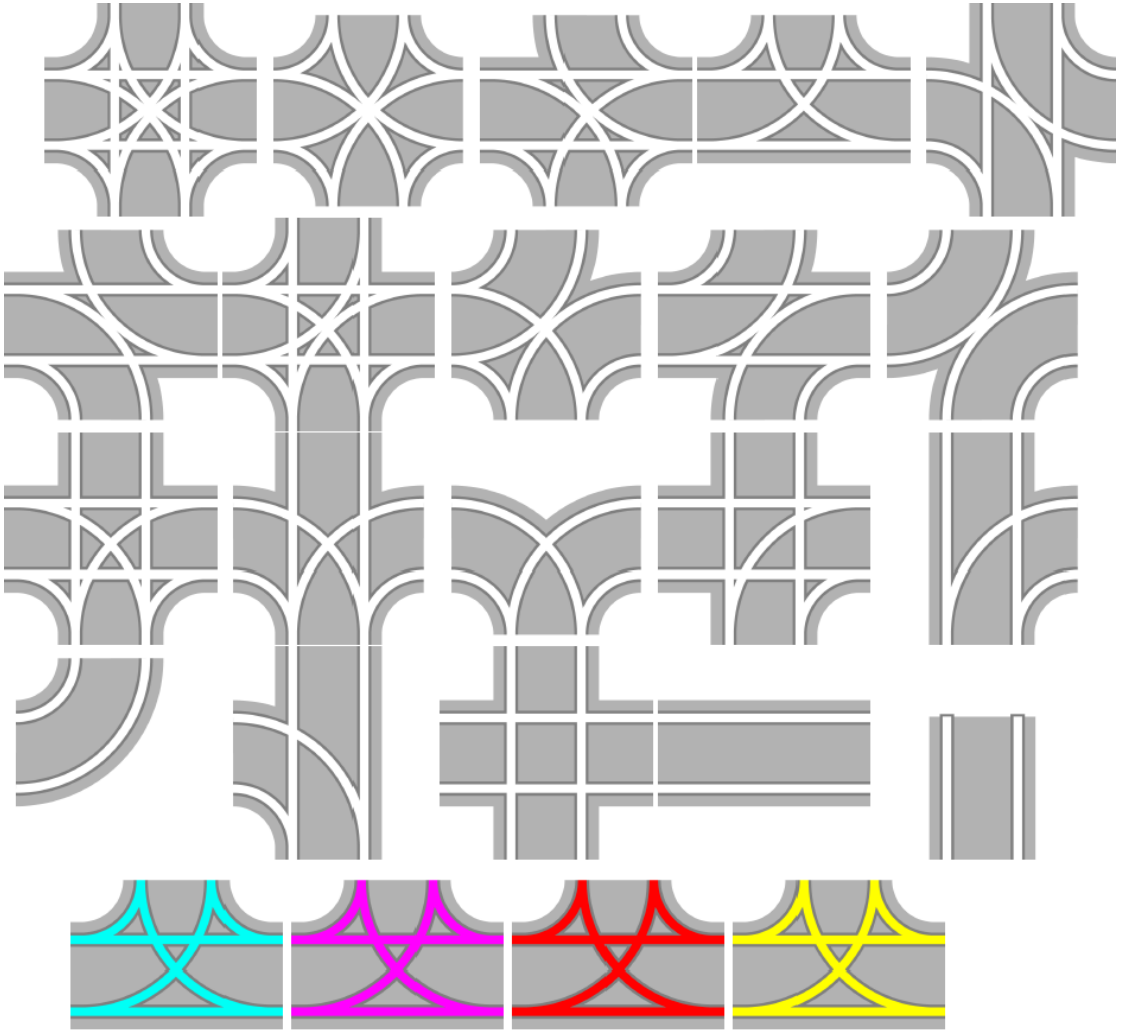
Rail Classification Yards

YARDS SORT TRAINS!

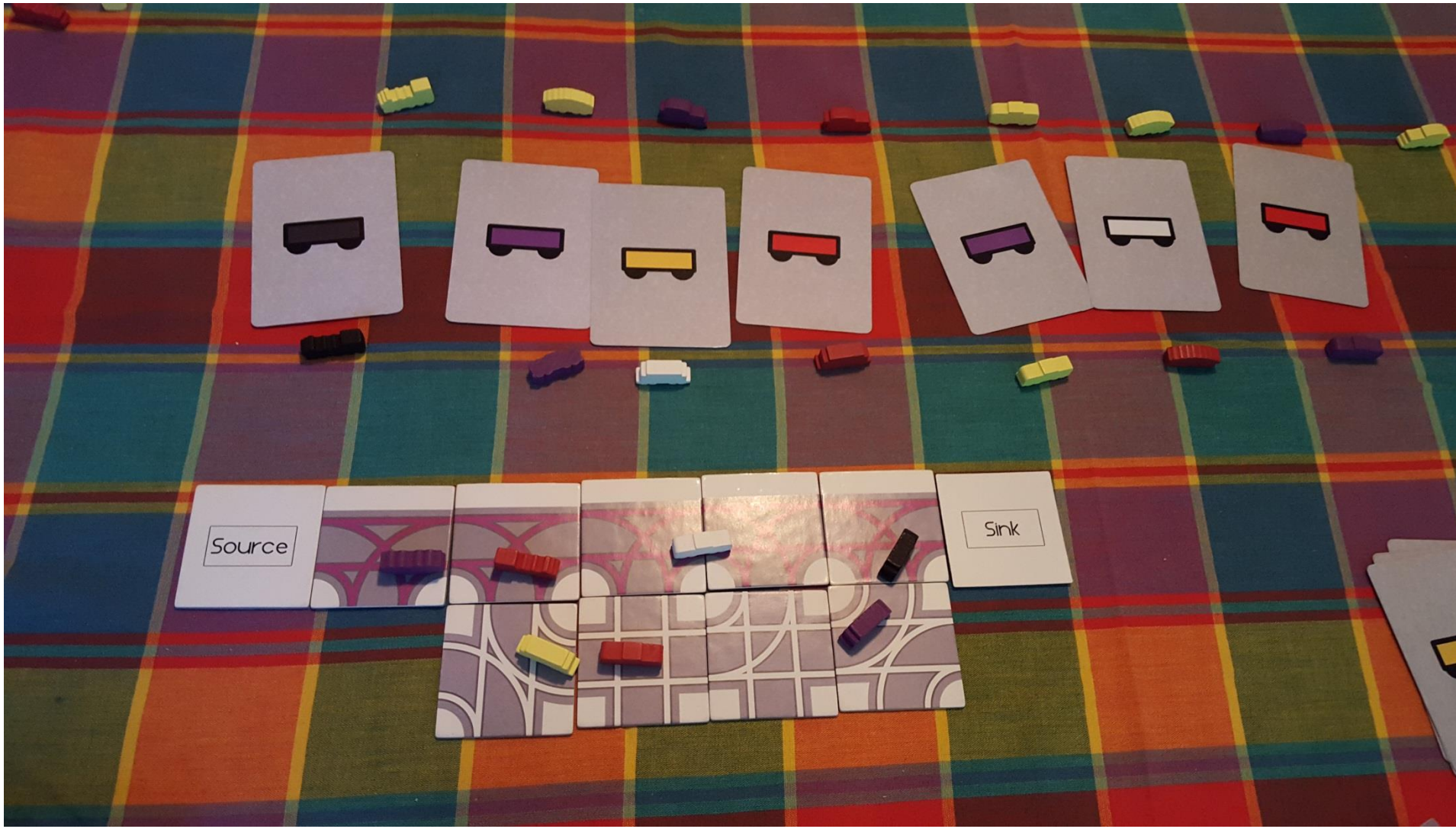
Gravity Based Sorting

Hump Yard, the Board Game

Tracks

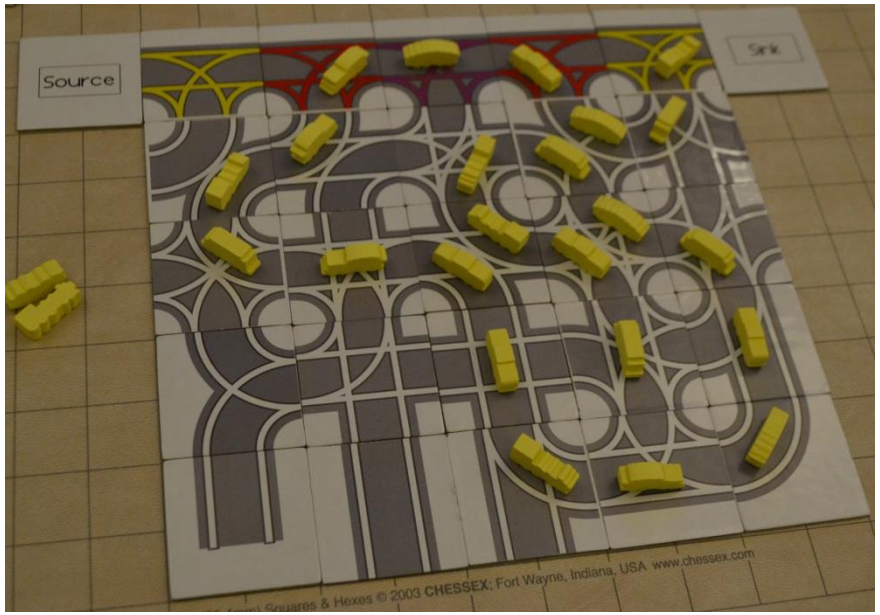


Rolling Stock Cars go on the Tracks

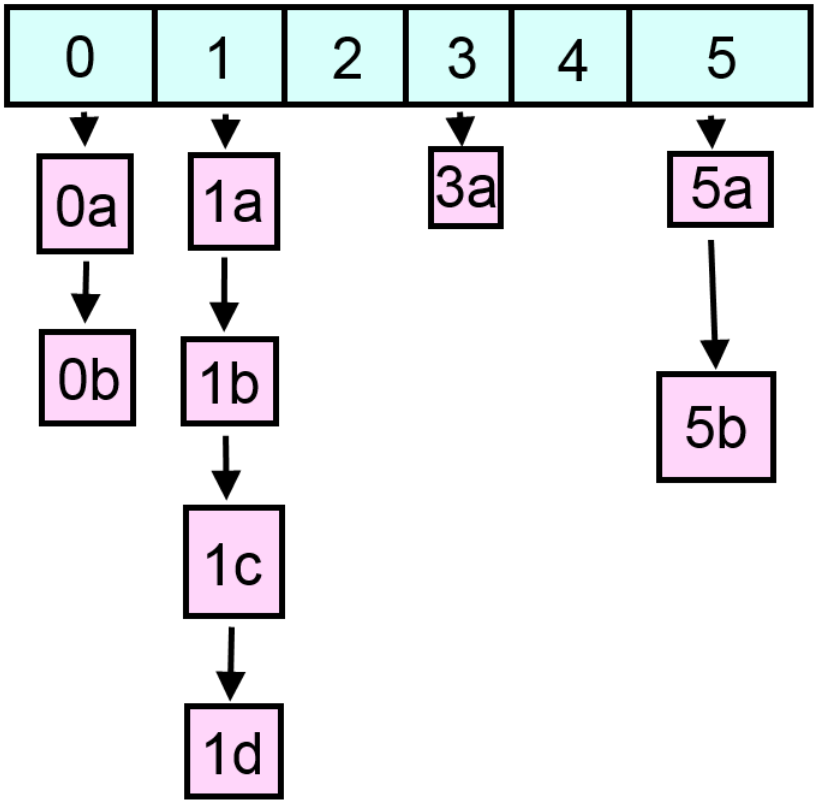


Analogue for Data Structures

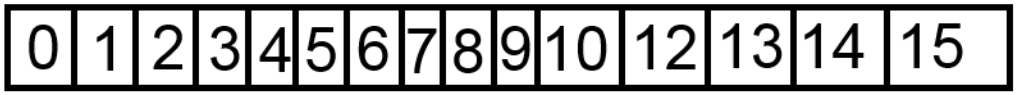
- Cars on tracks

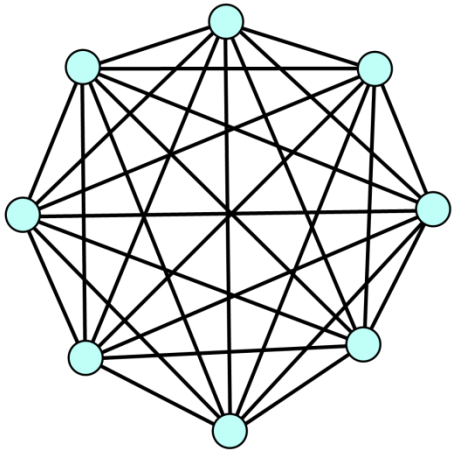


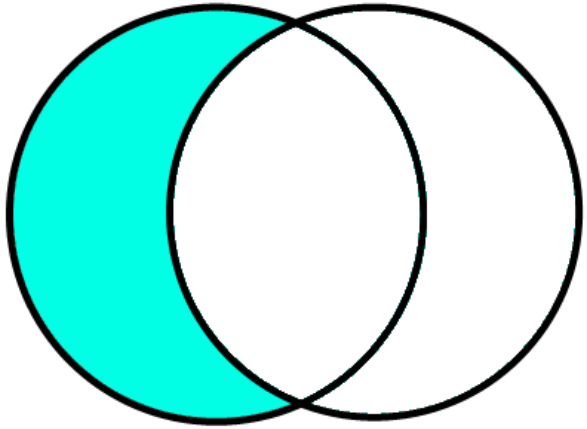
- Data in a Data Structure.

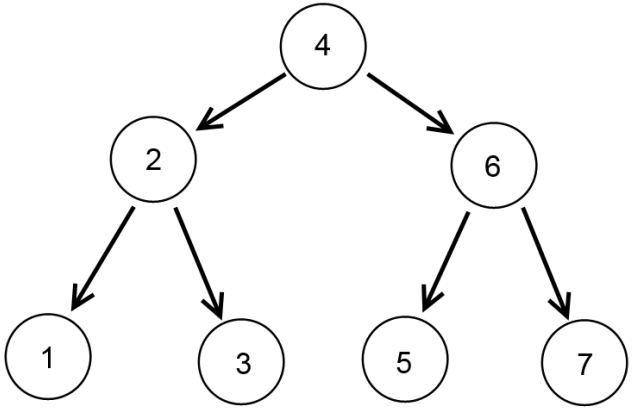


What is a Data Structure?

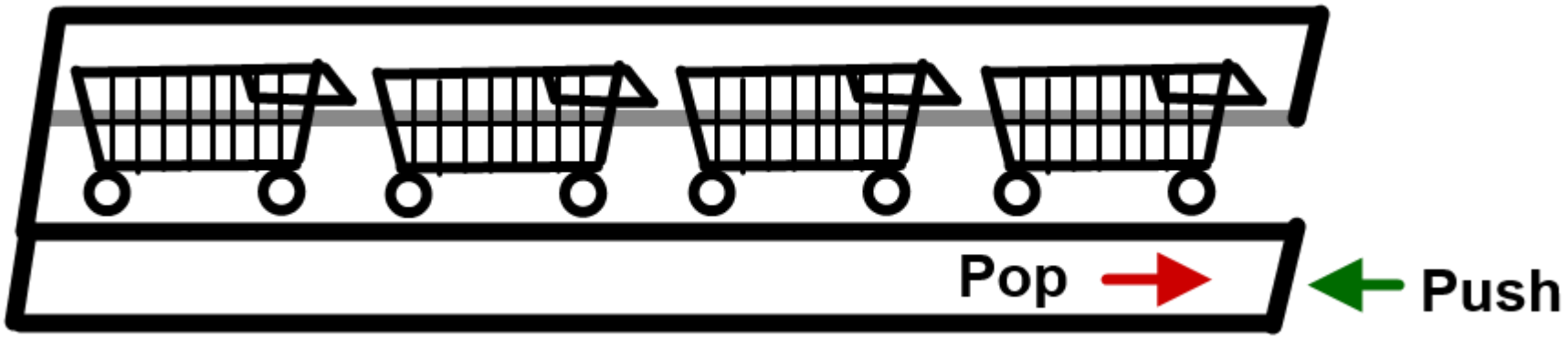




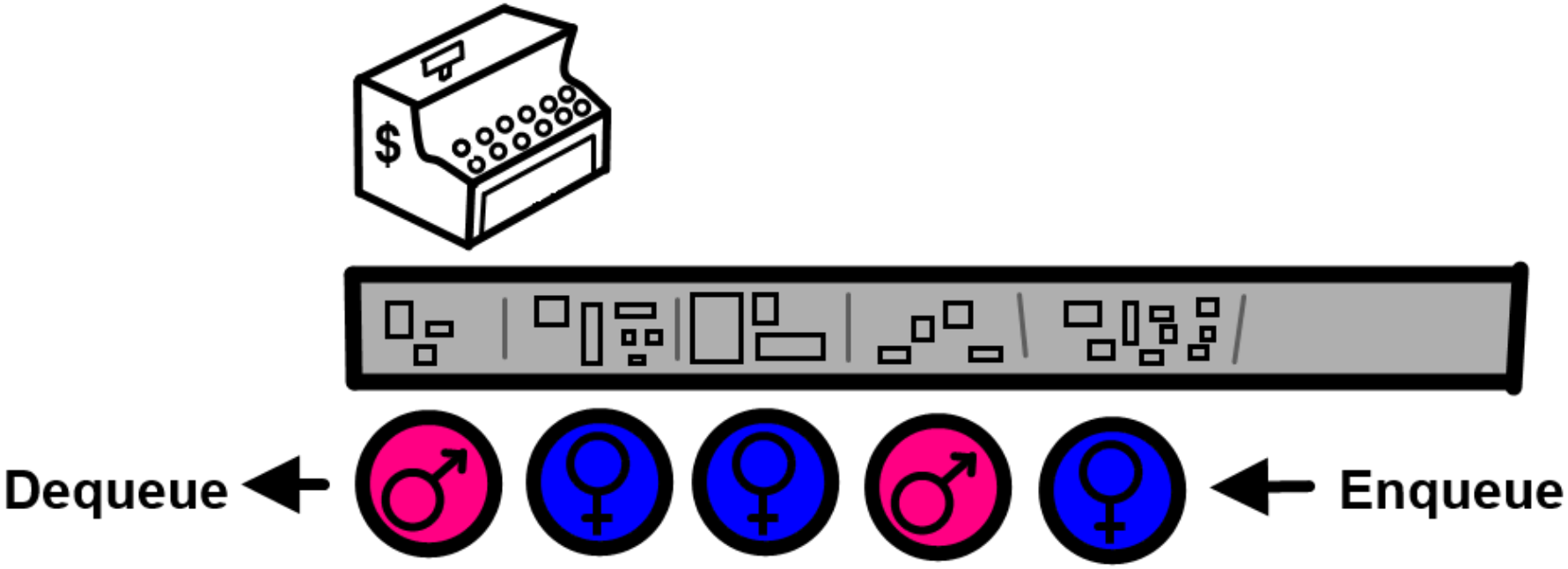




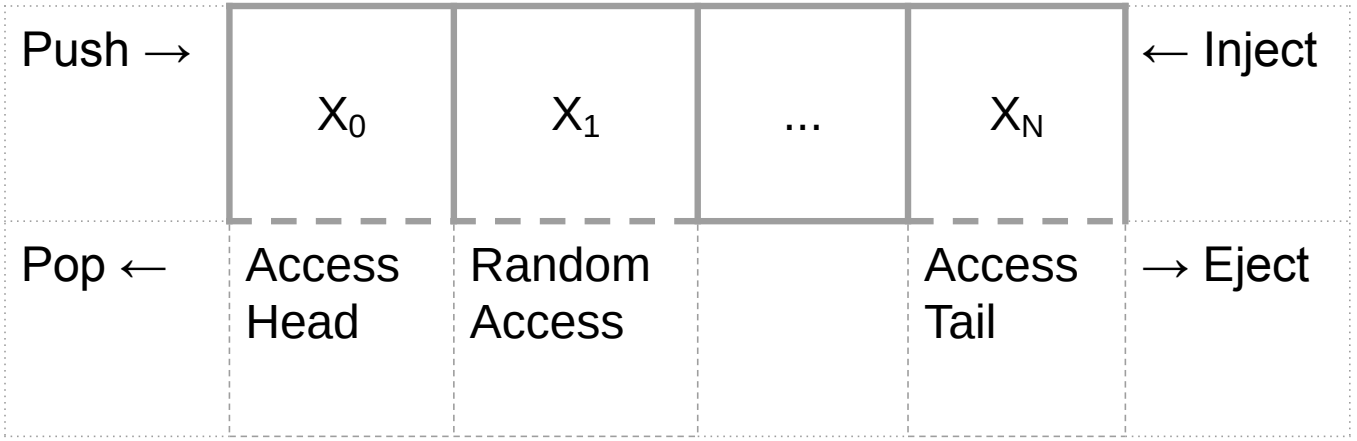
Grocery Shopping Stacks



Grocery Shopping Queues

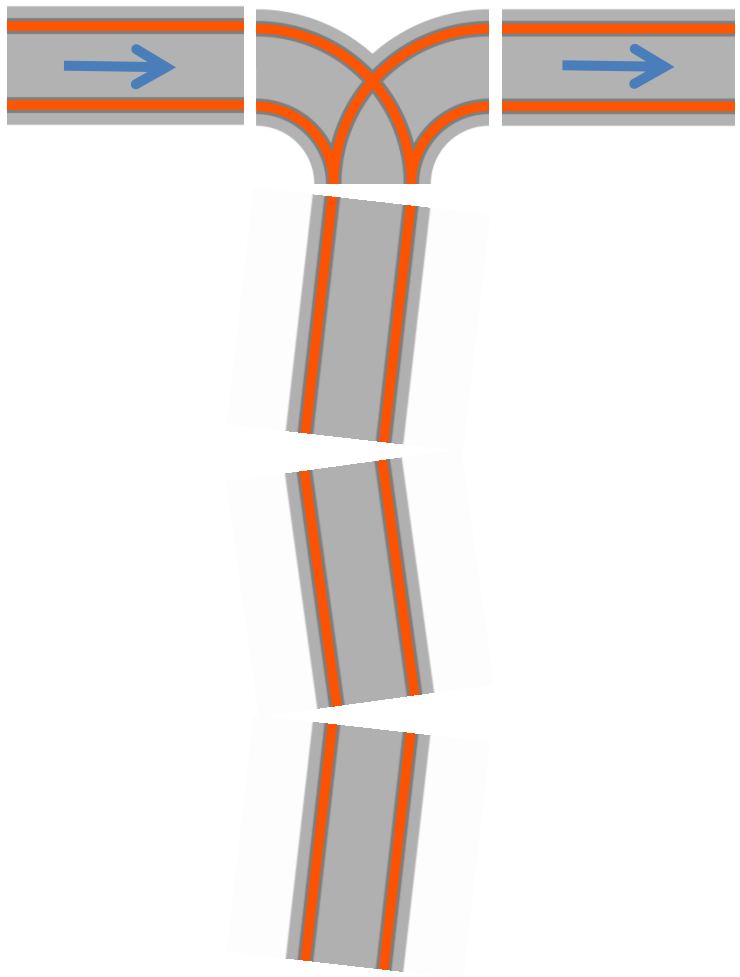


Computer Science Dequeues



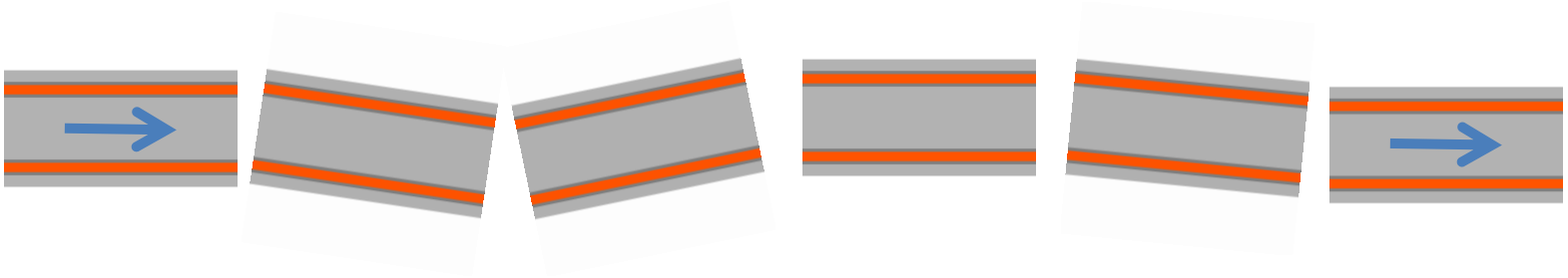
Hump Yard Stacks

PUSH



POP

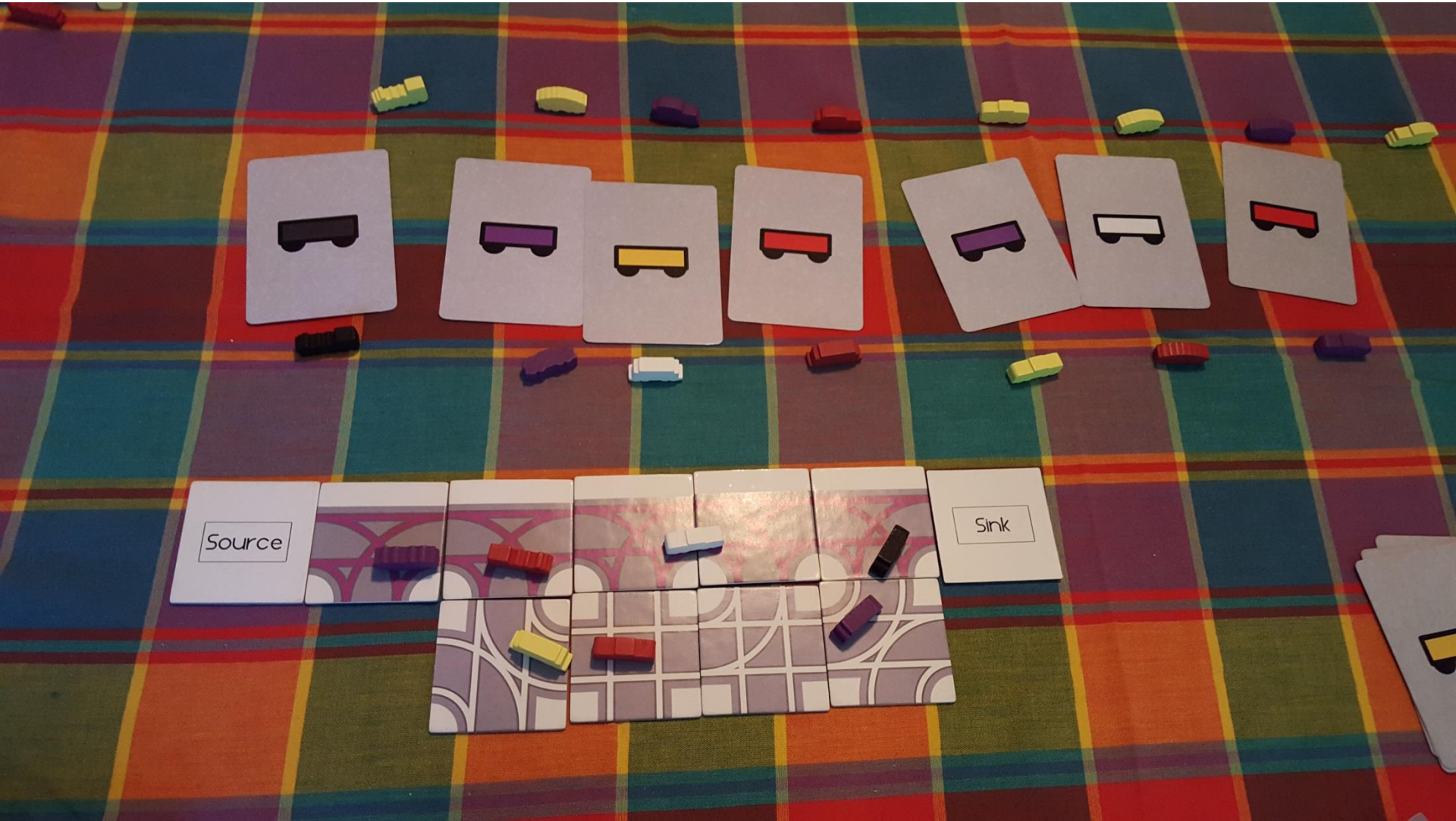
Hump Yard Queues



ENQUEUE

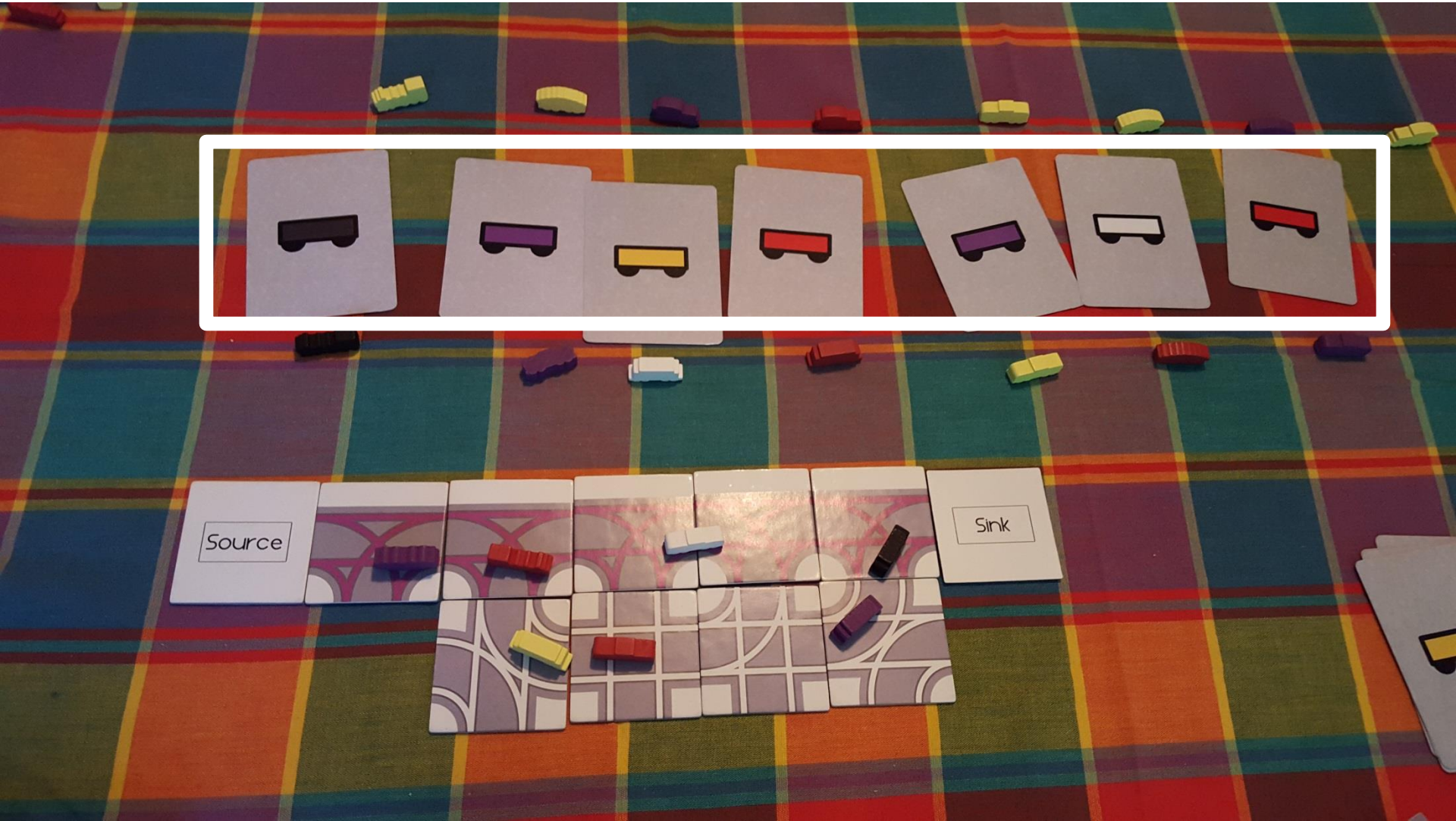
DEQUEUE

Game Play



Build Tracks

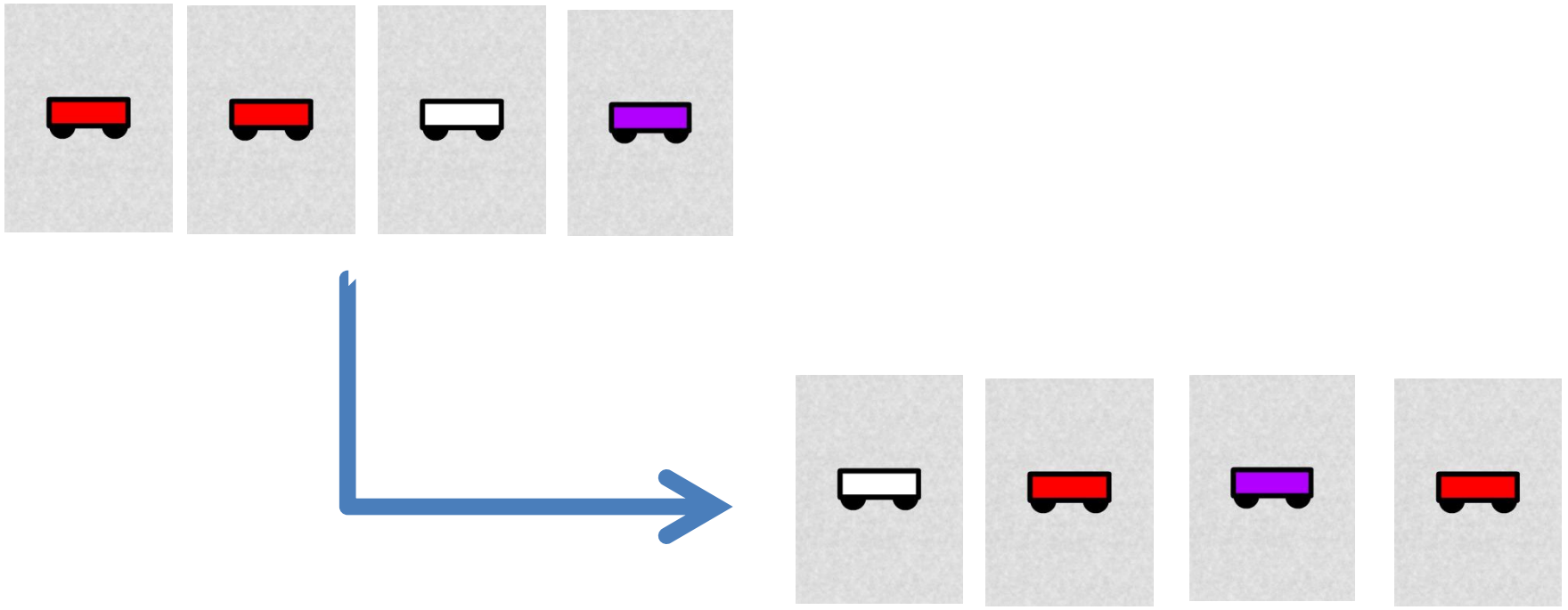
Contracts (What goes **in**)



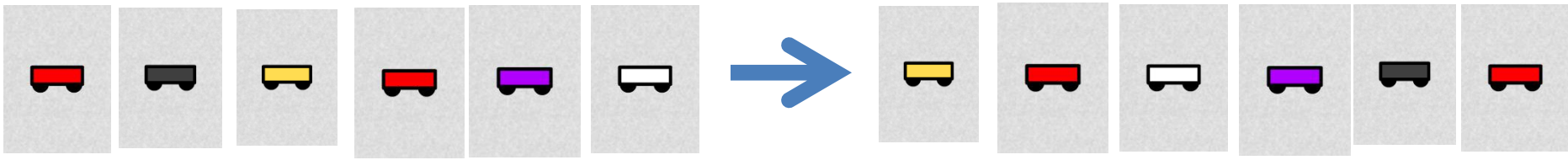
Bidding (Who can sort most **efficiently**)

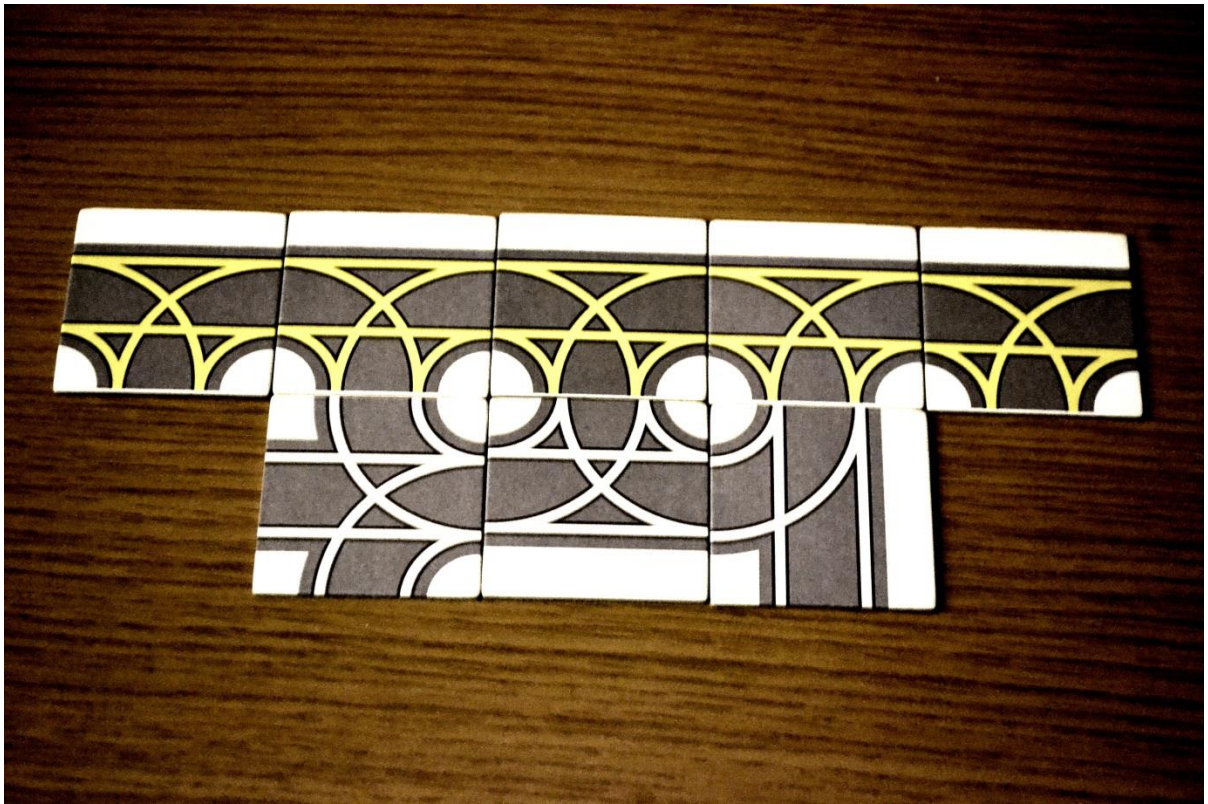
Random Shuffle (What comes **out**)

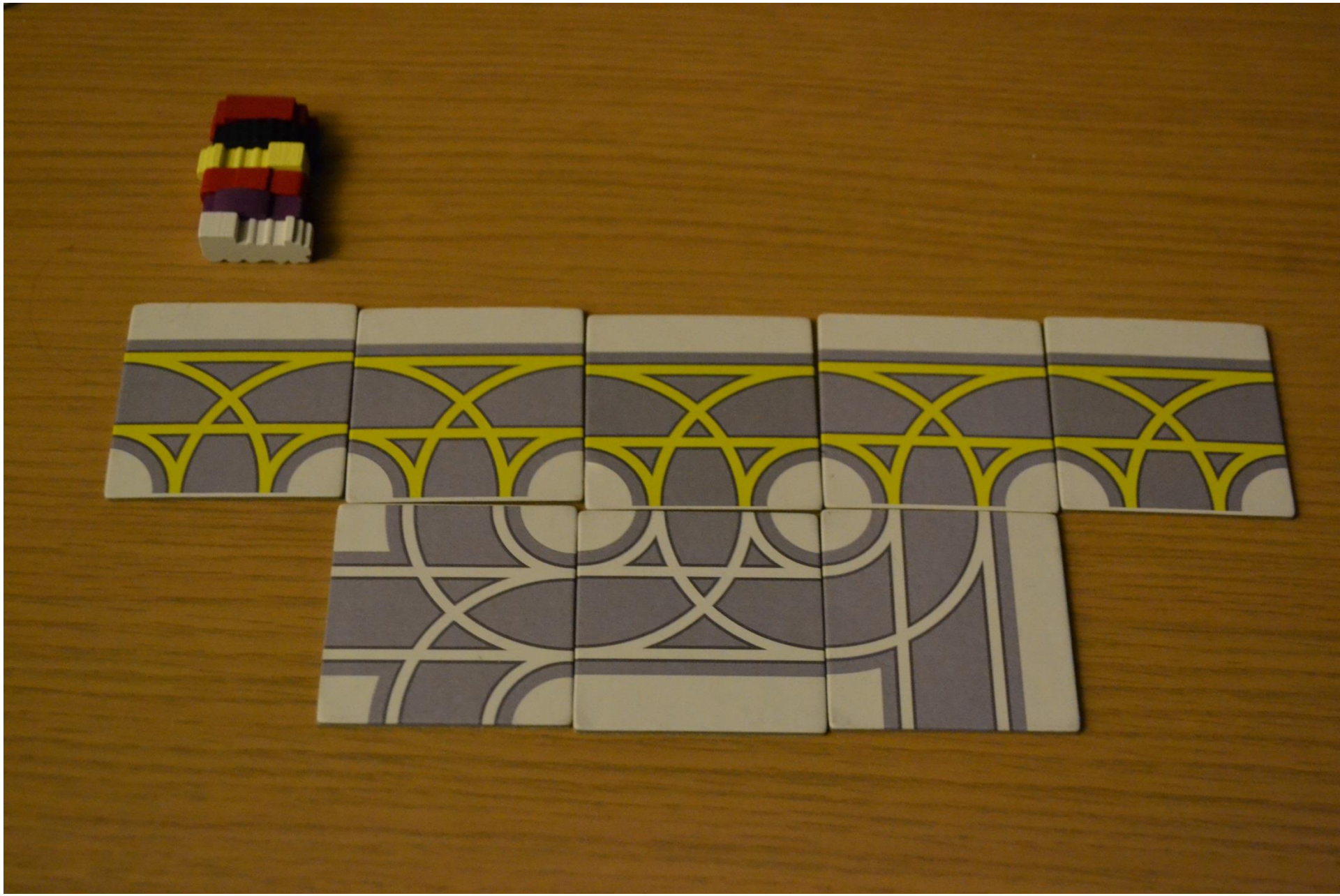
Sorting

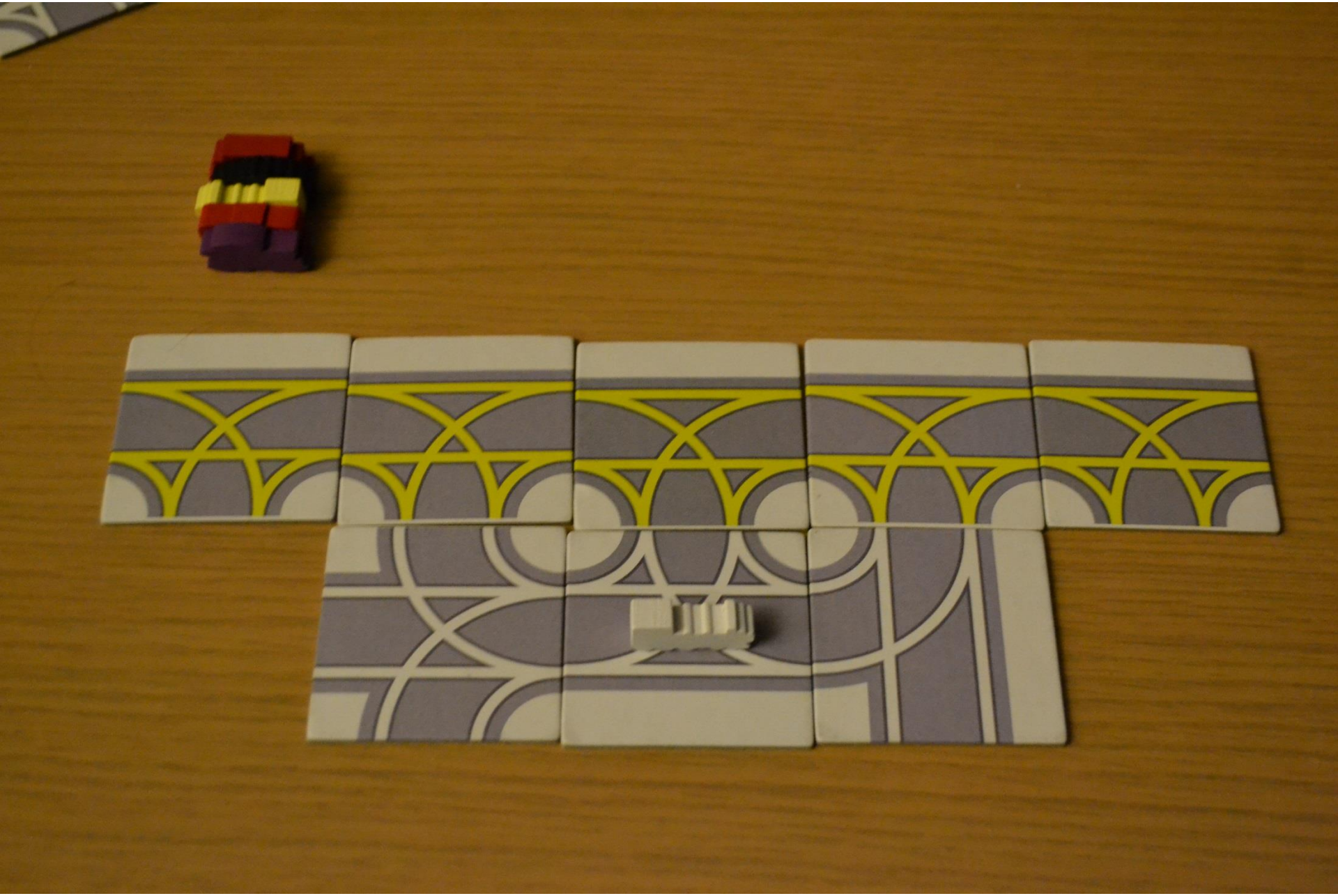


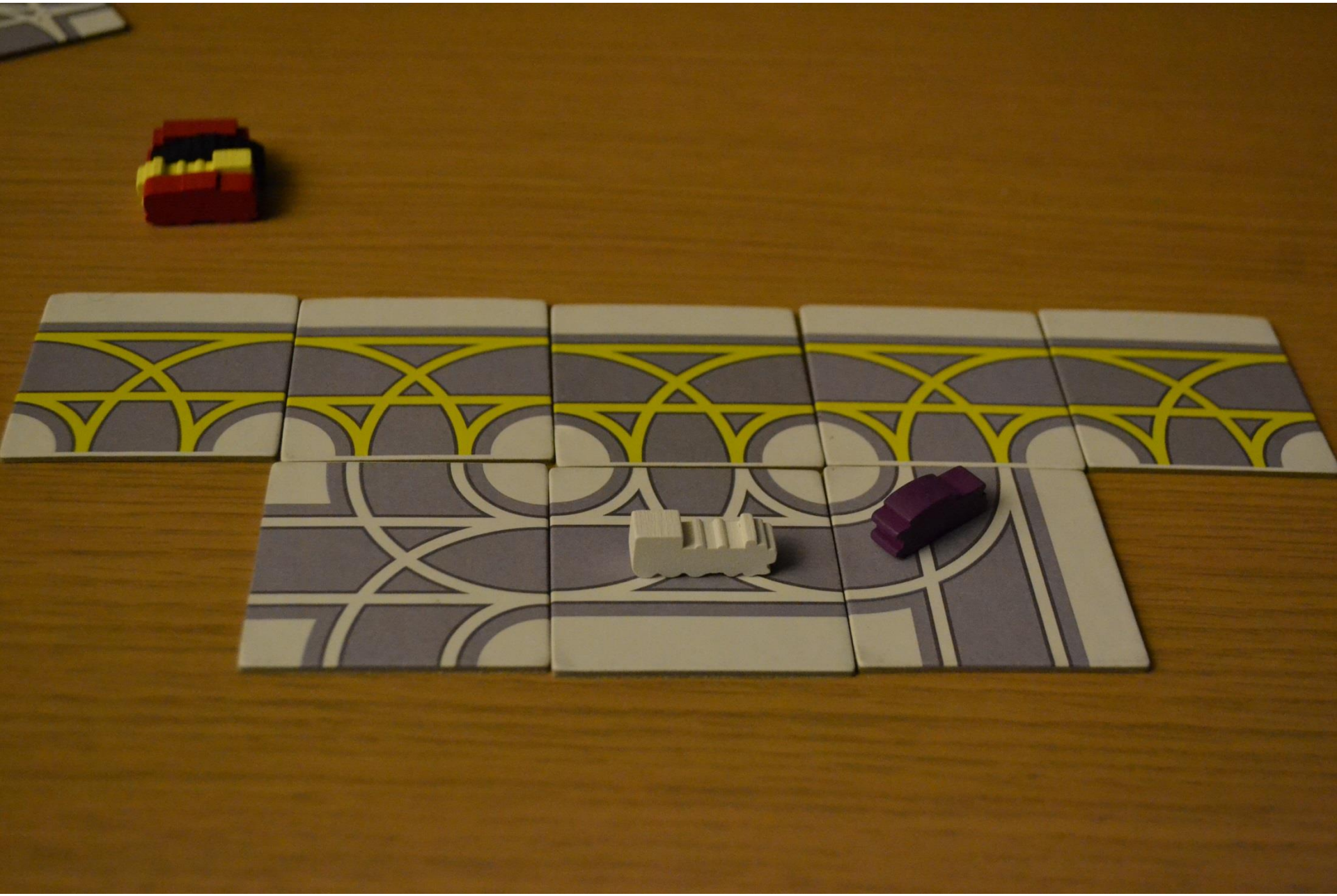
Dramatization

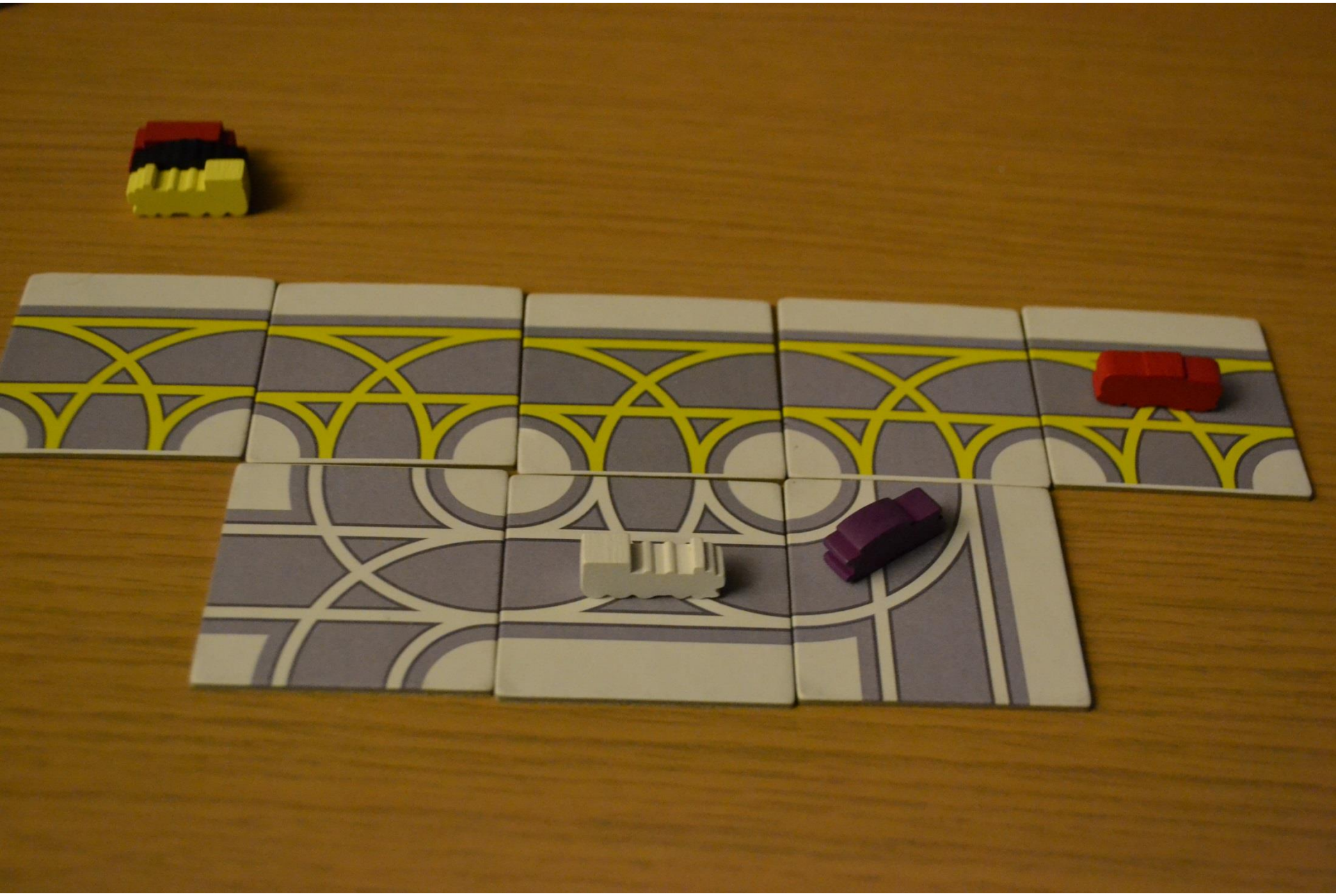


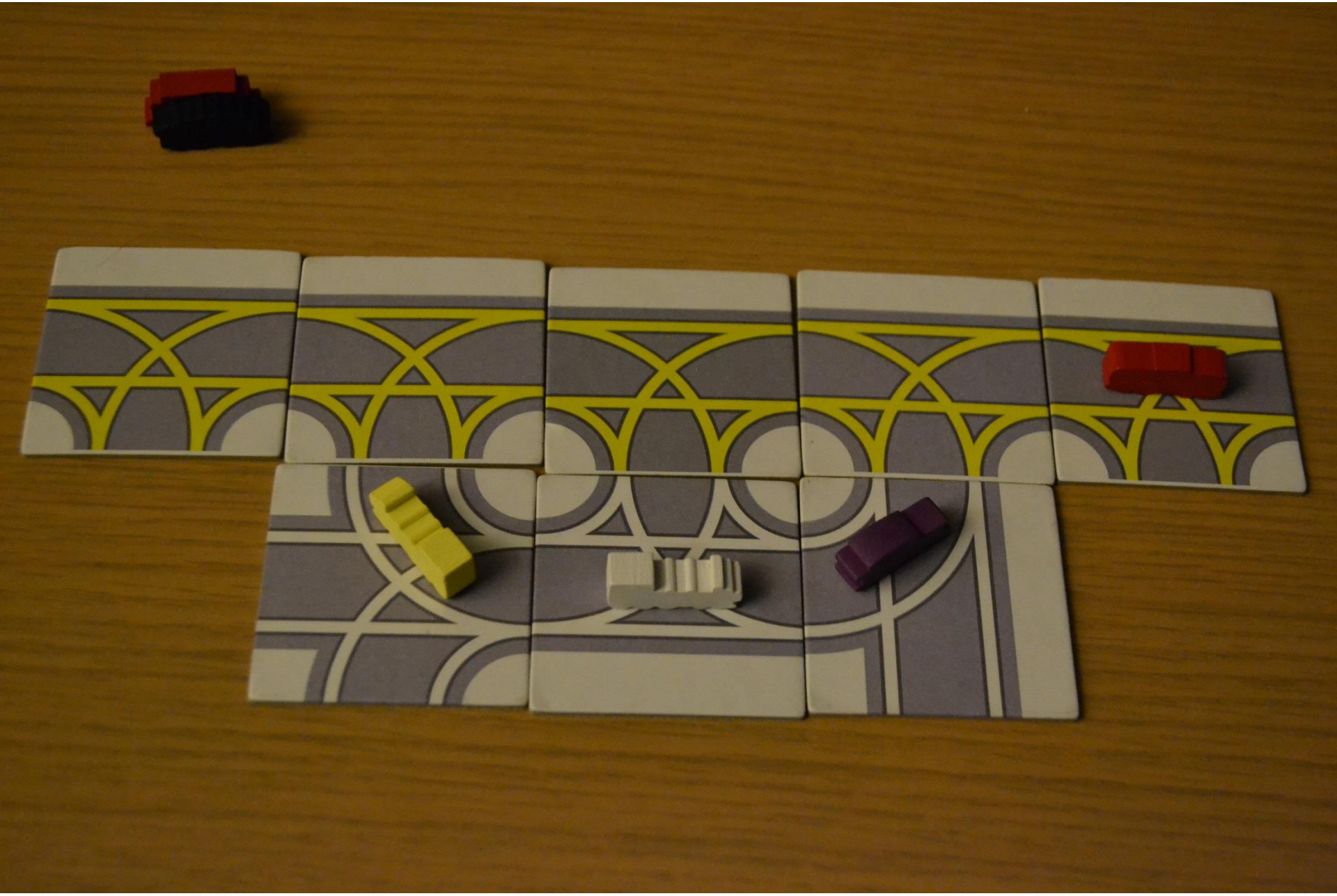


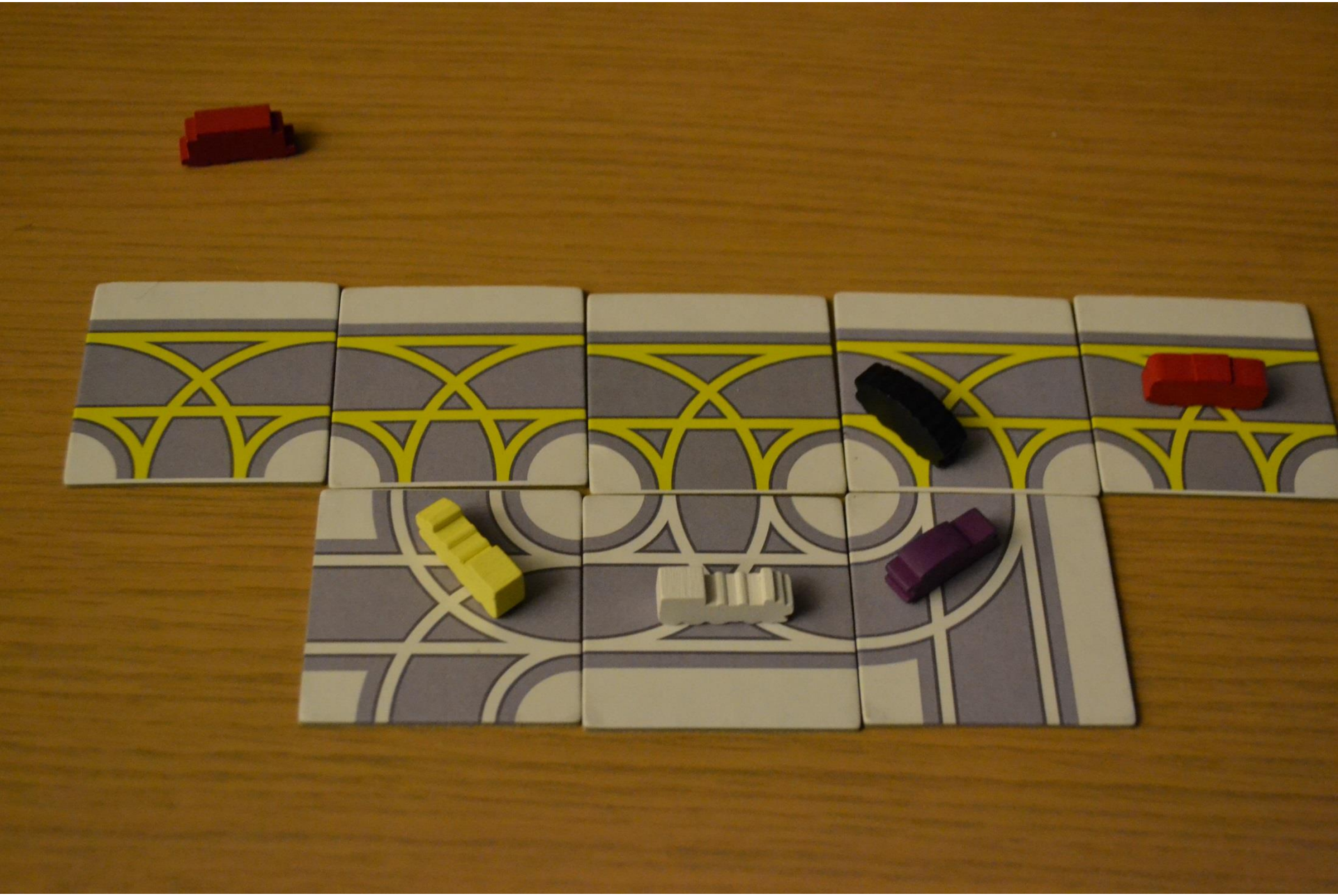


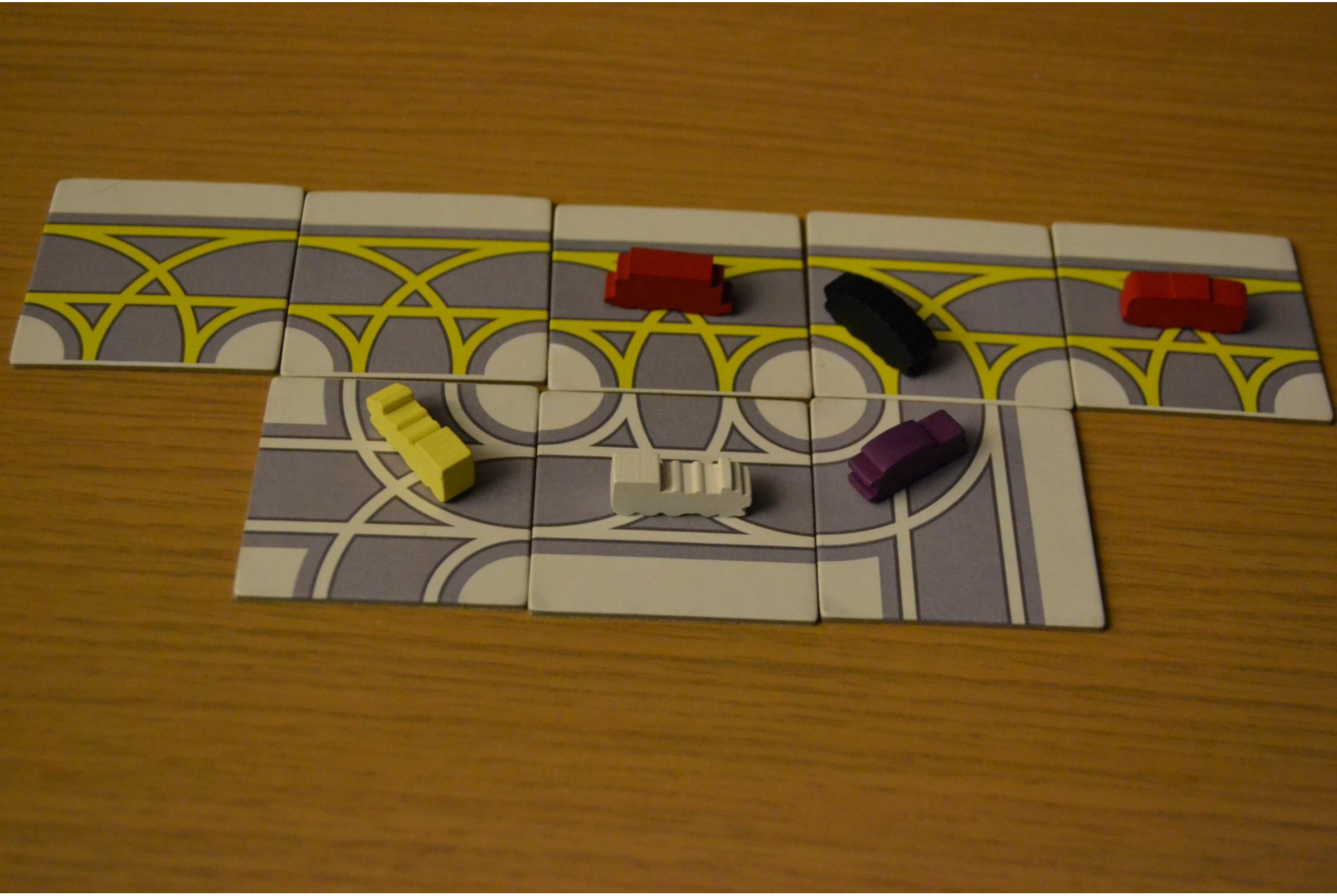


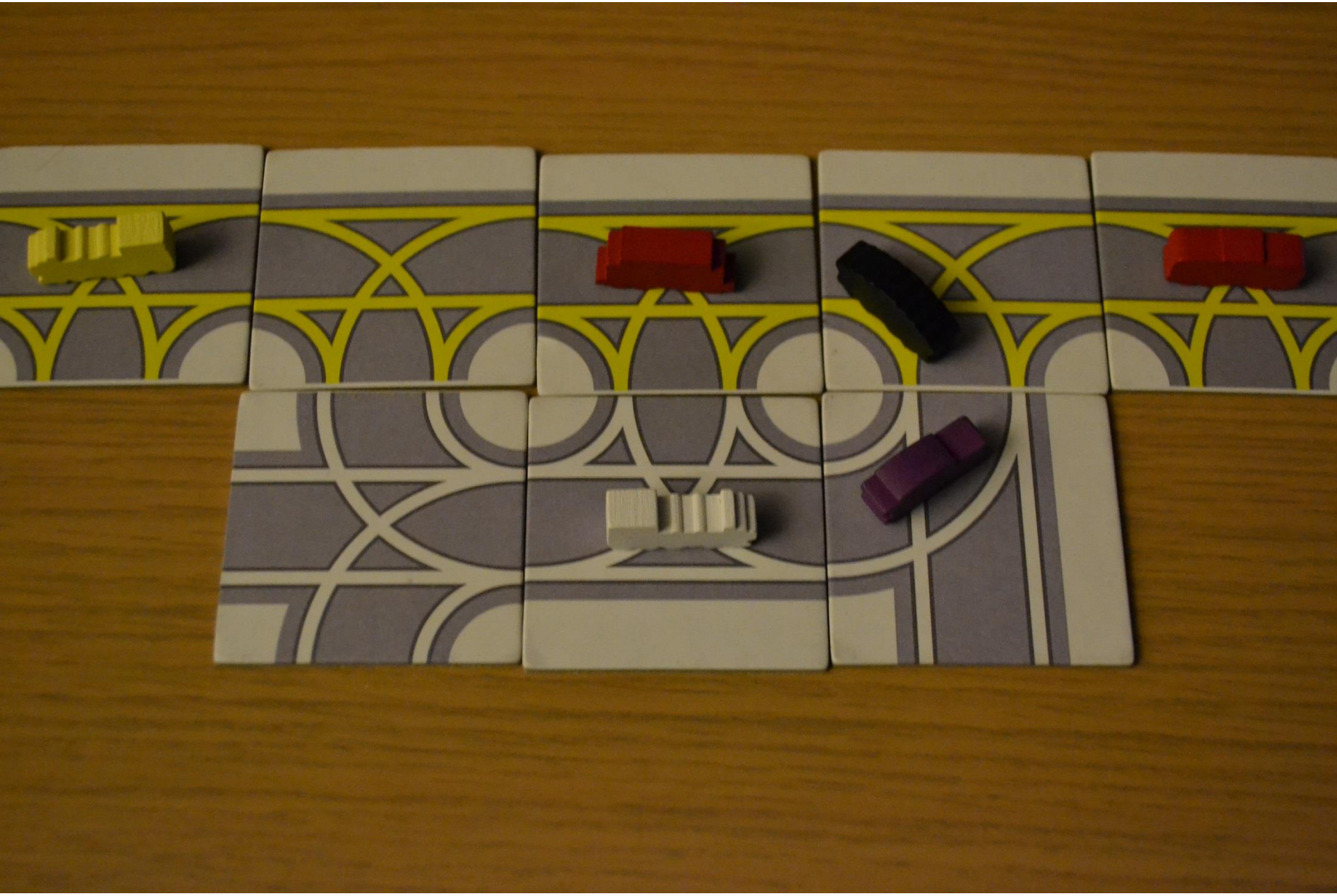


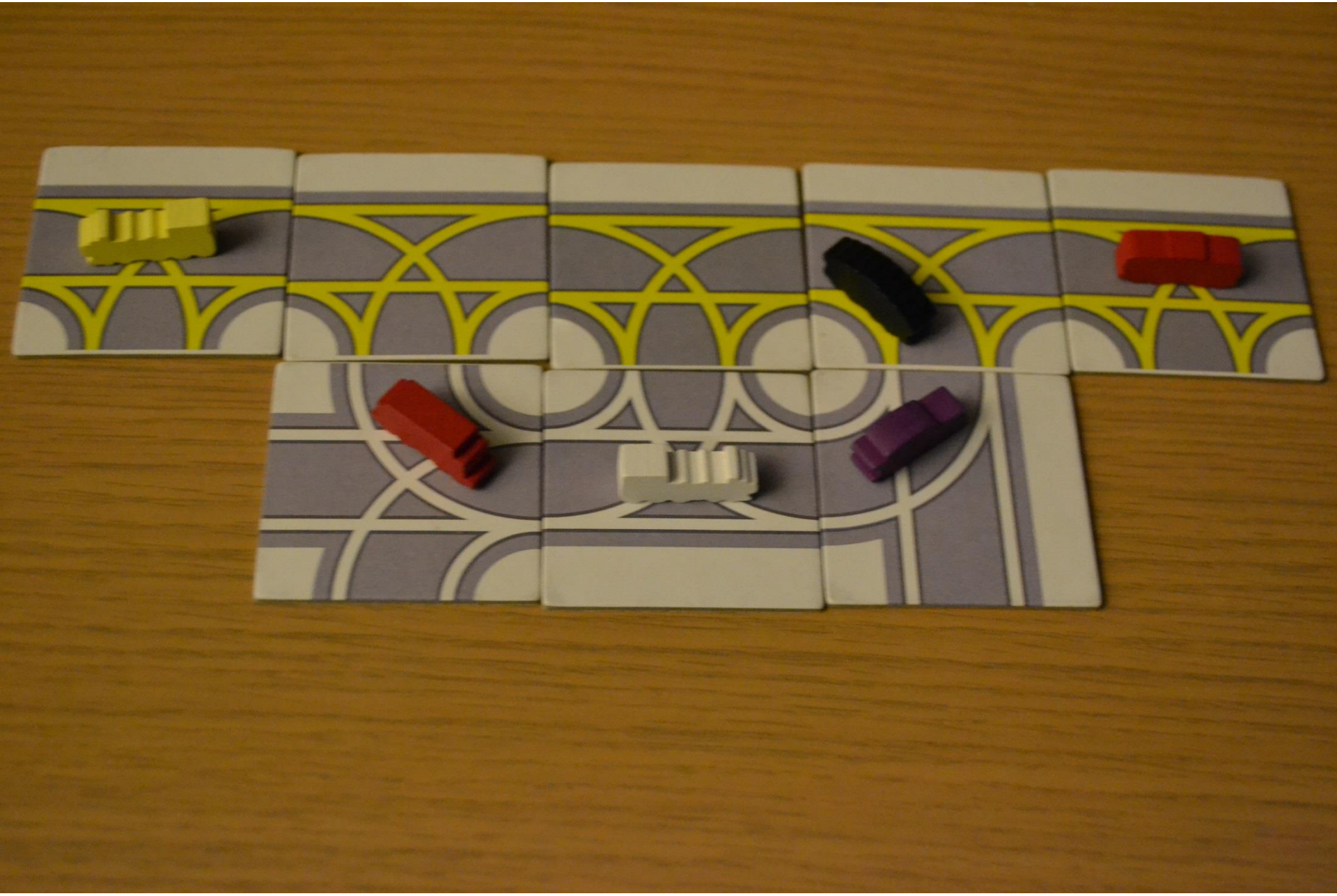


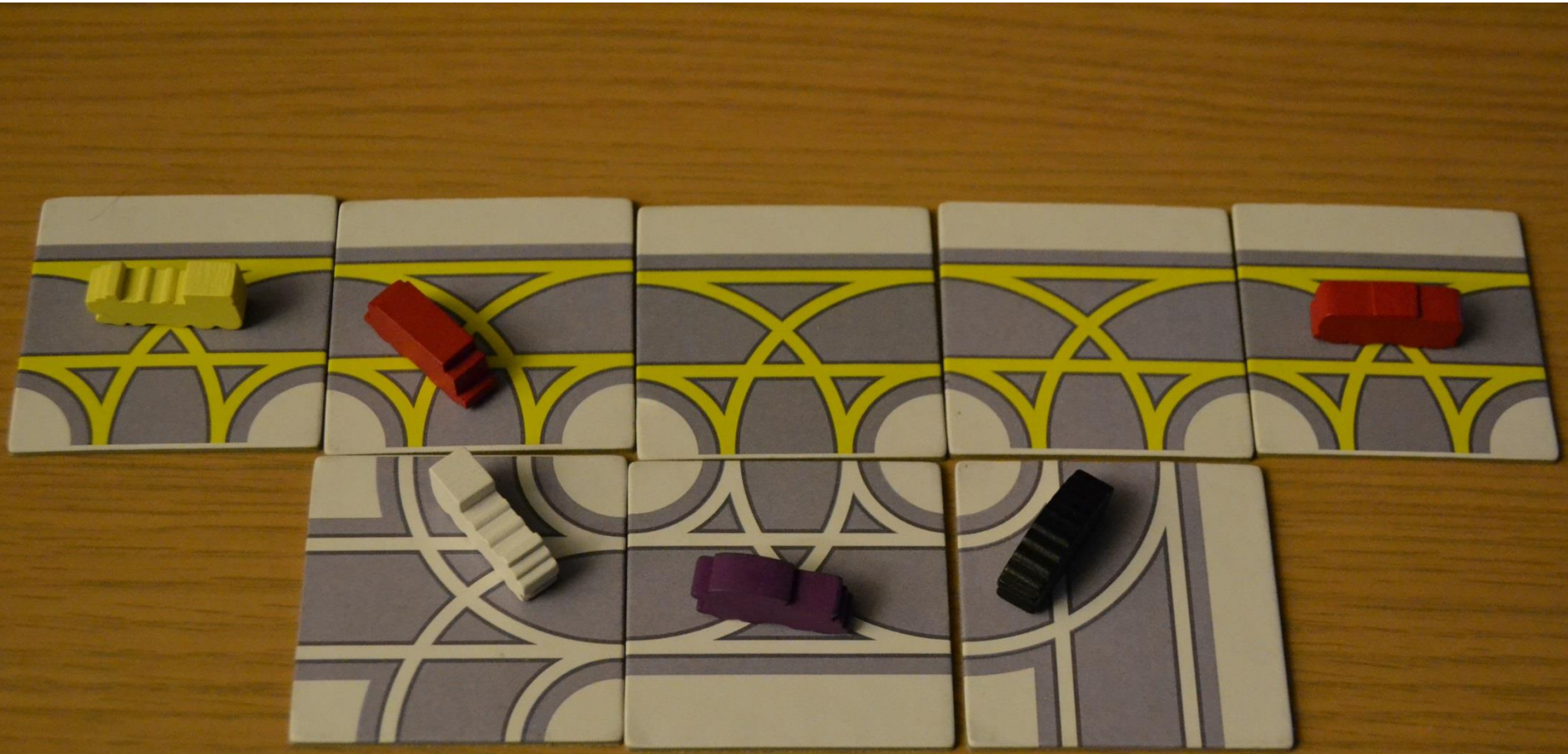


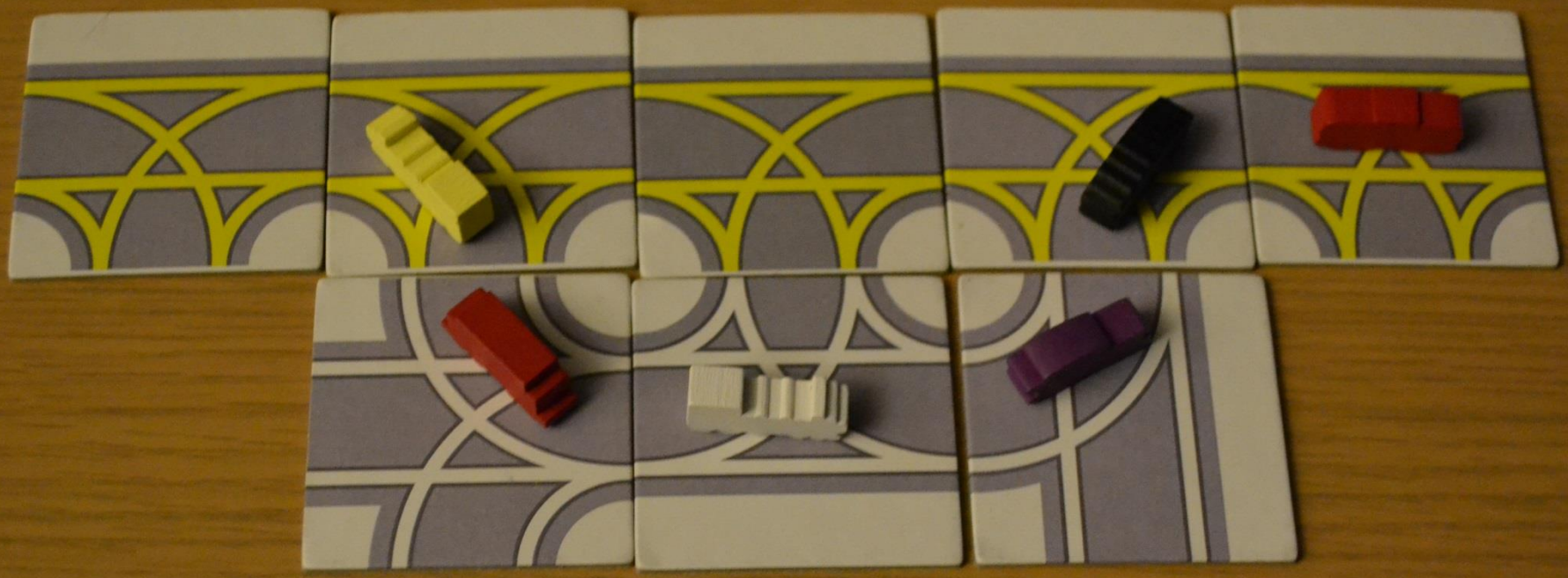


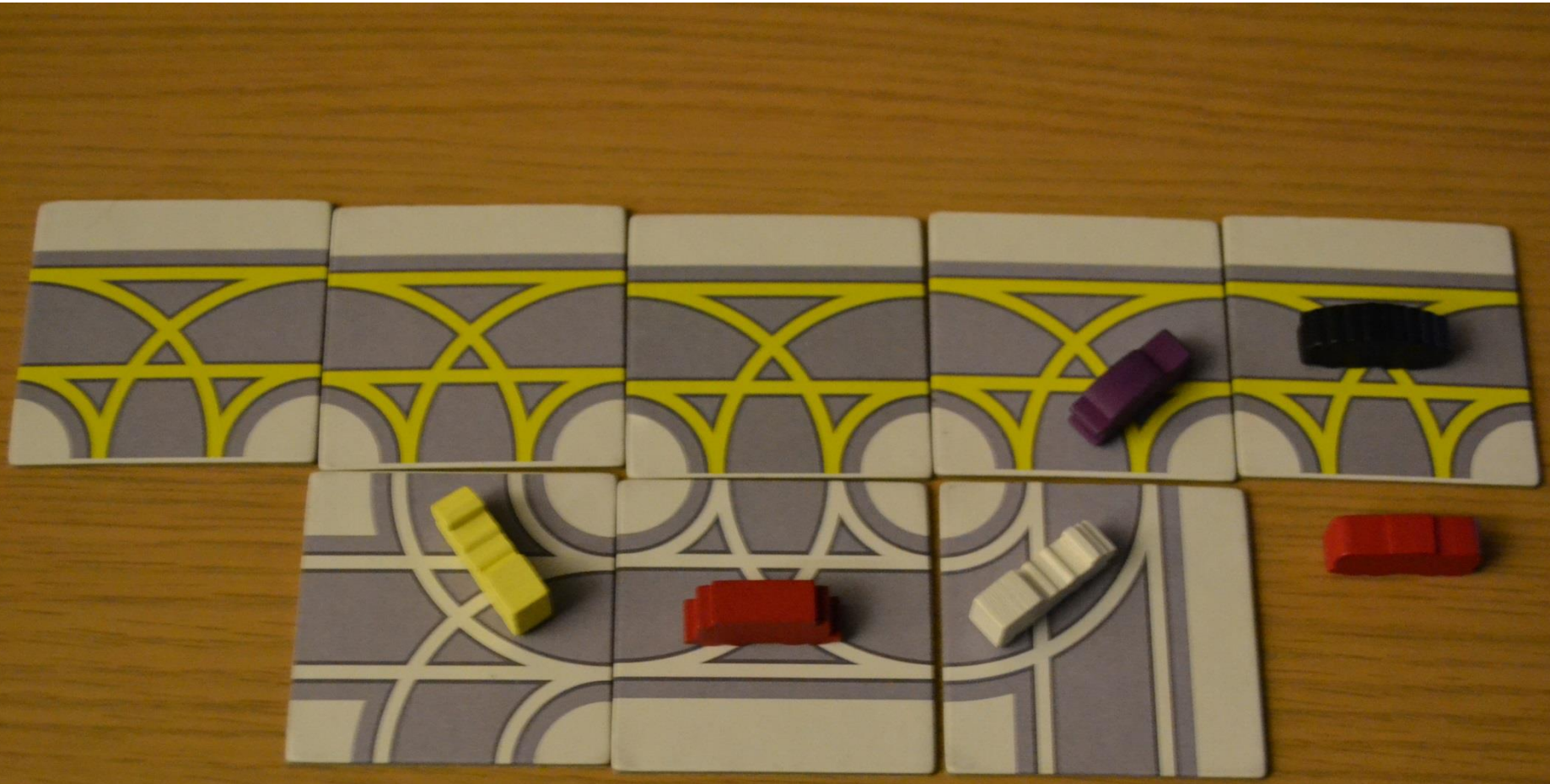


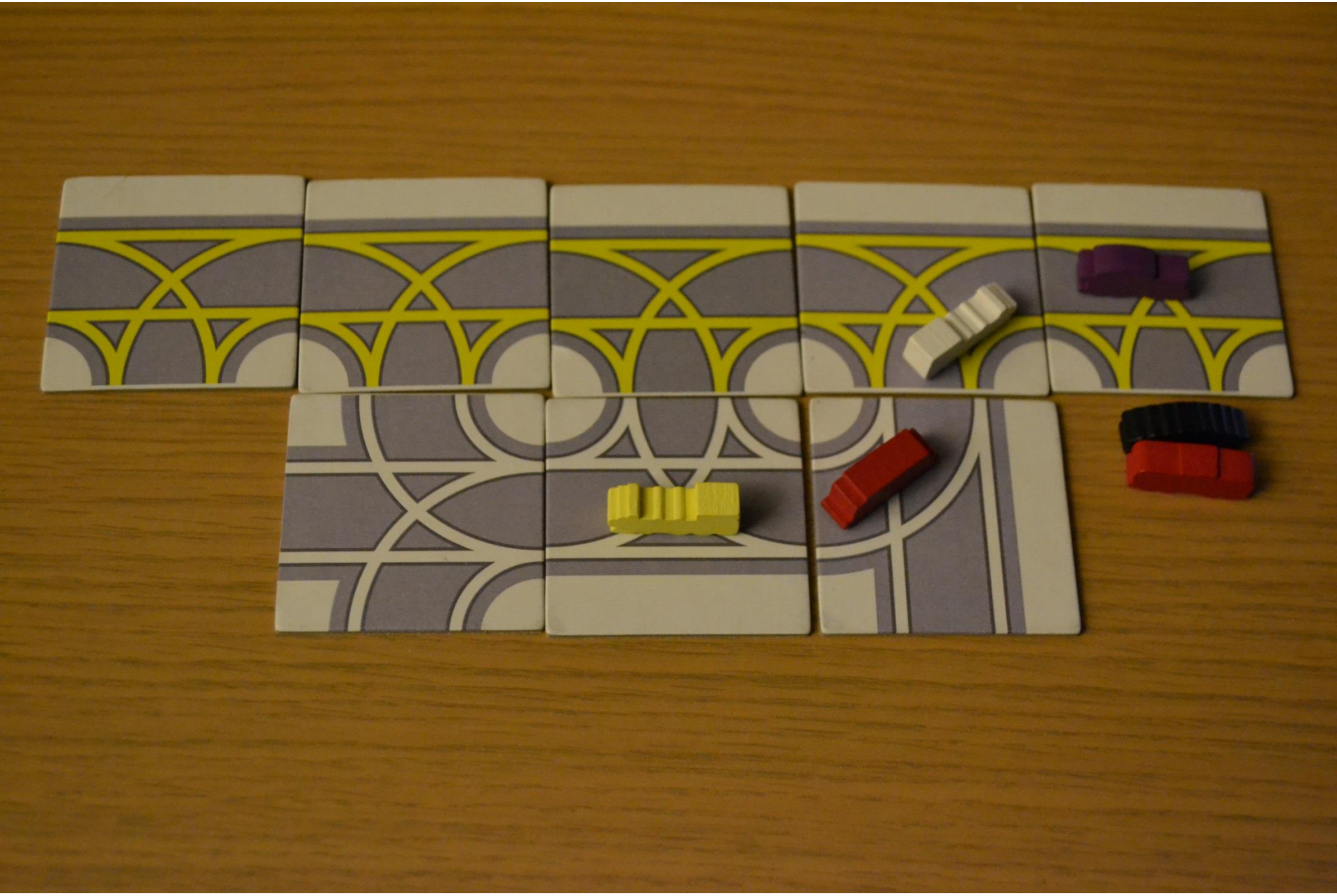


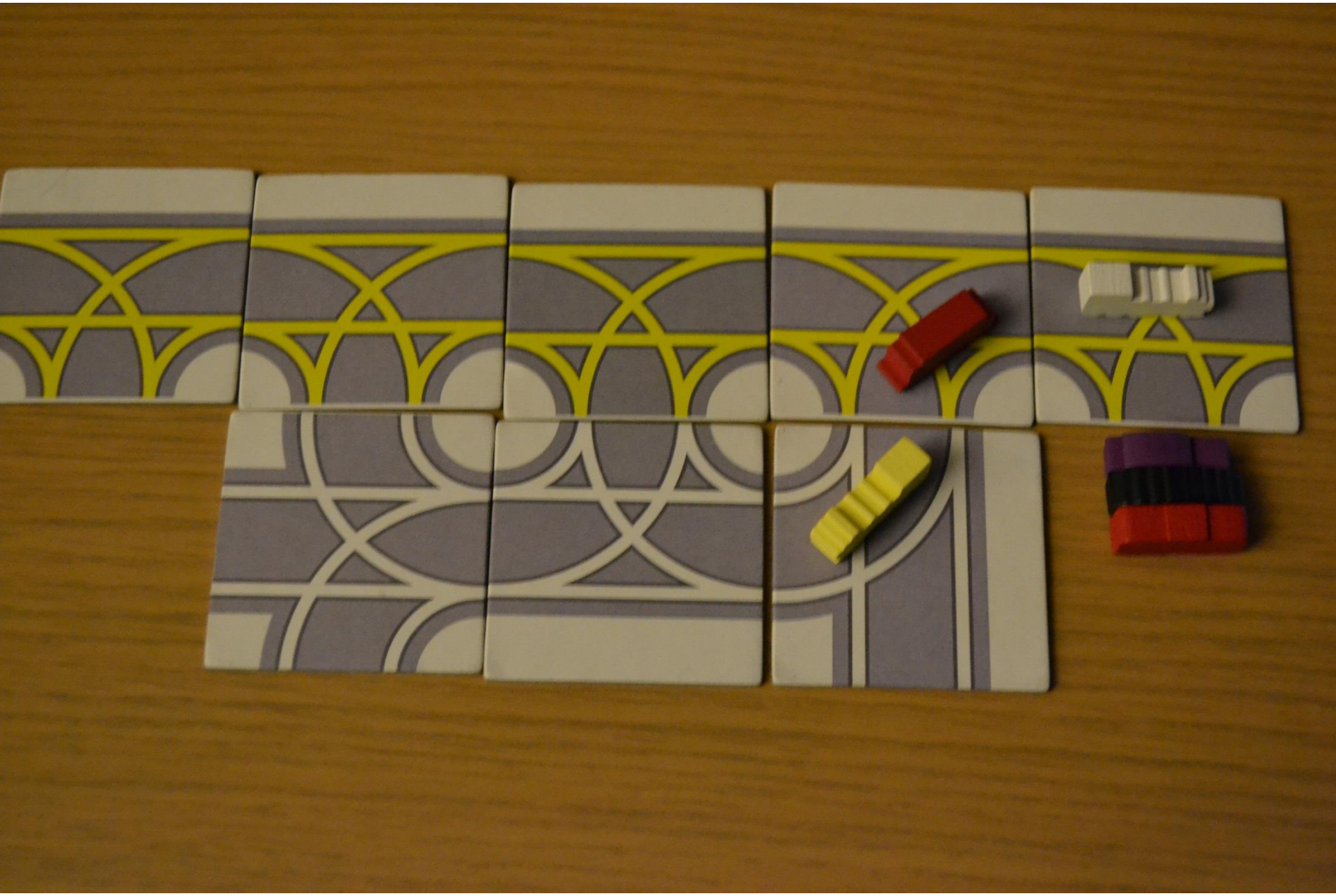


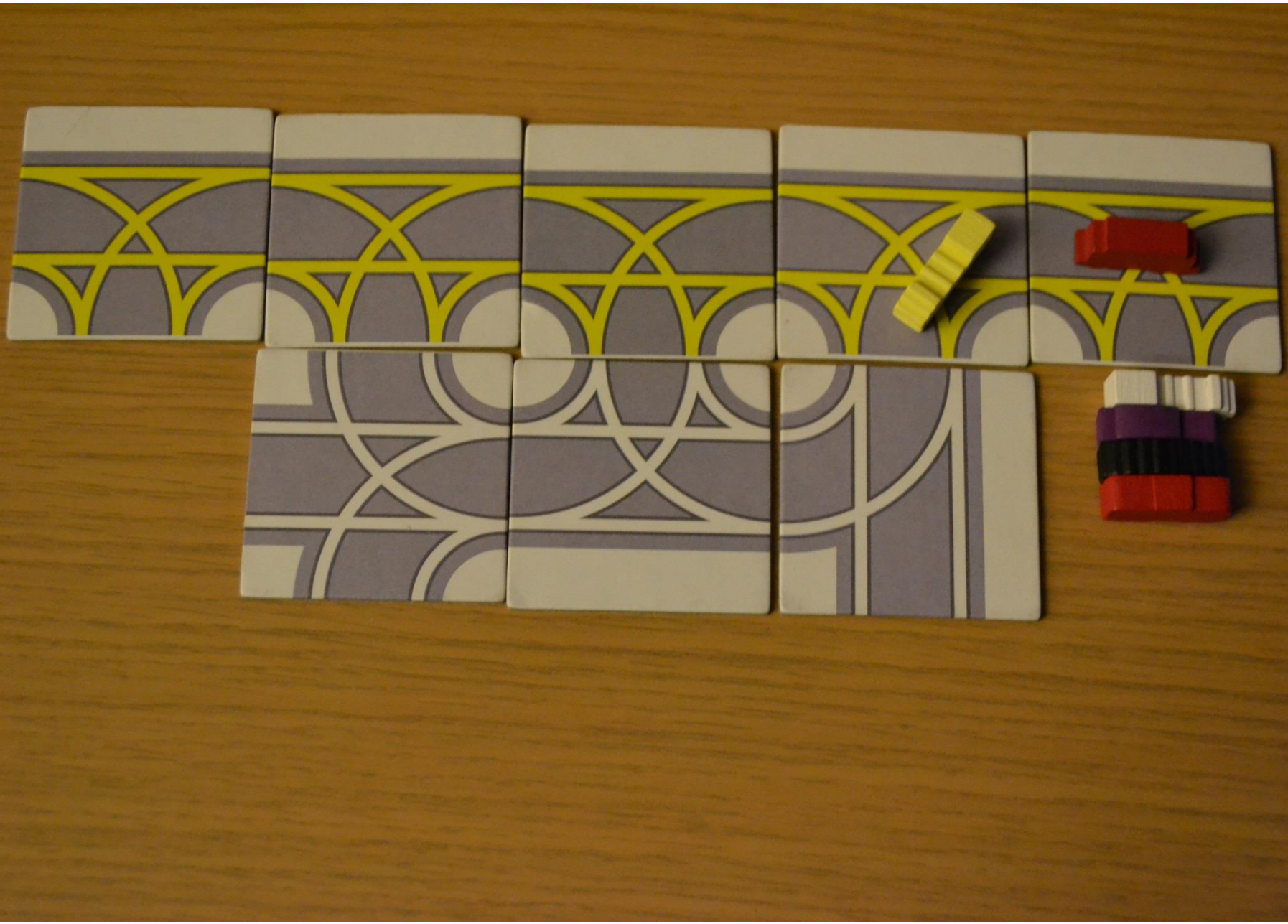


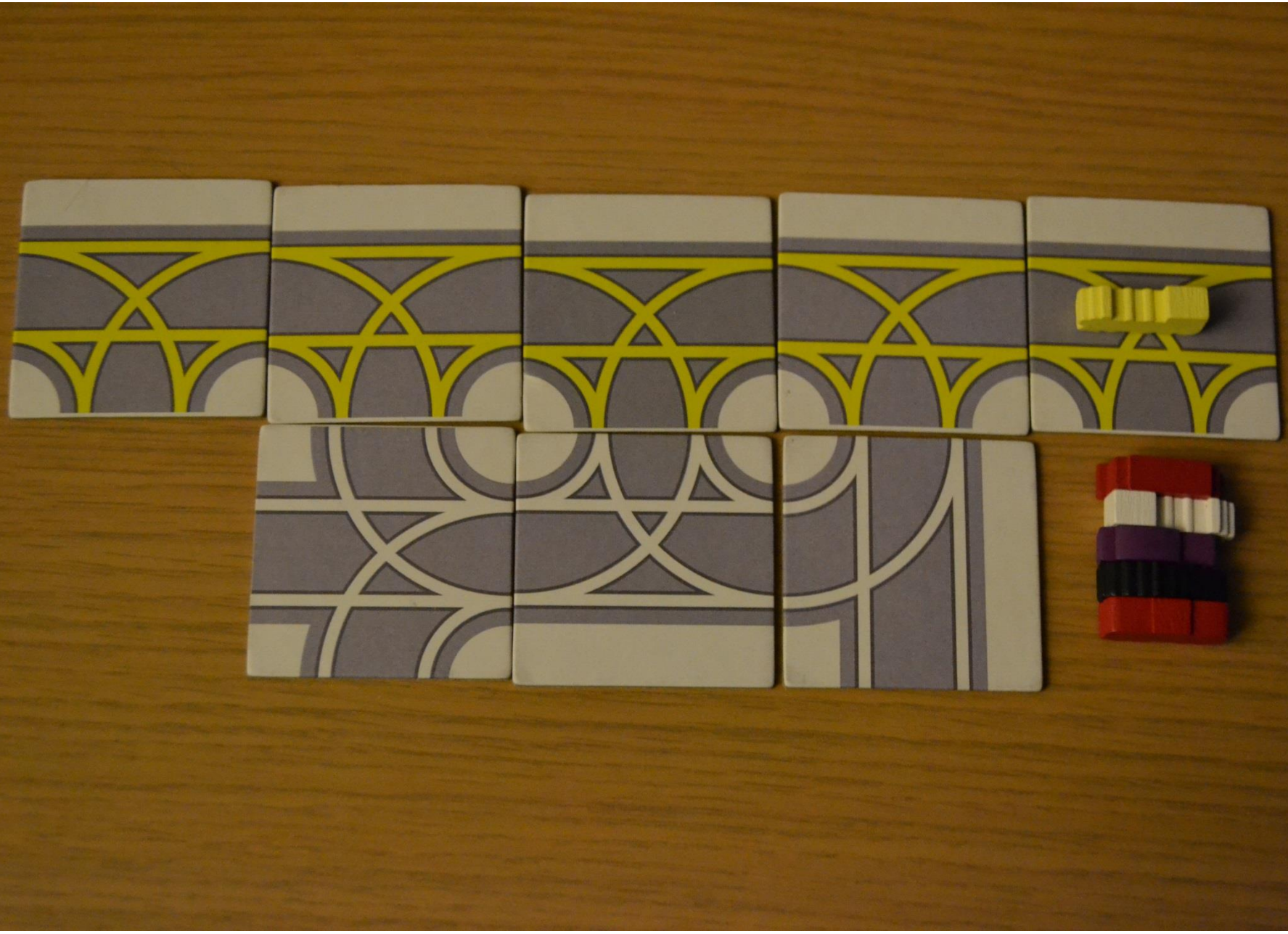


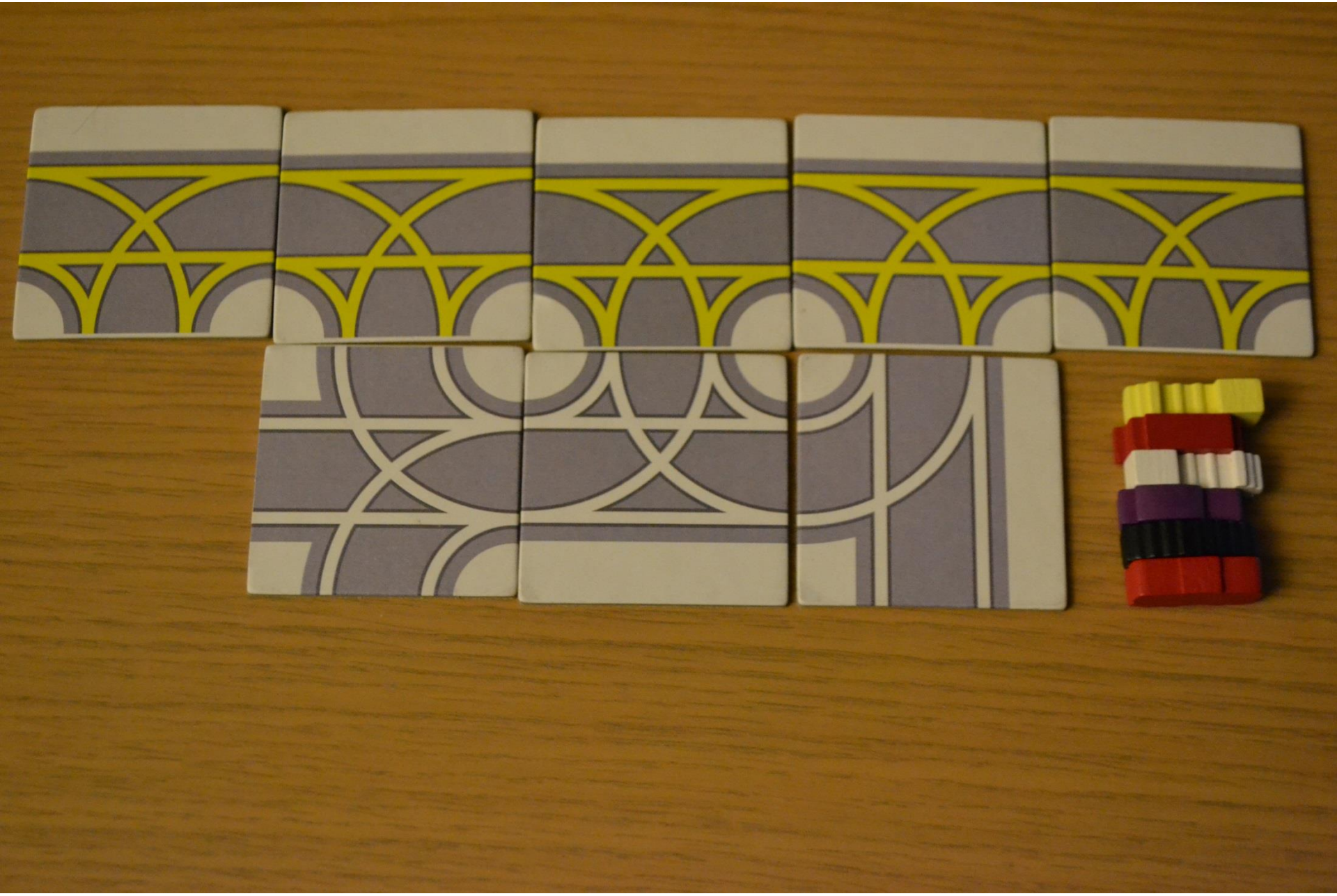










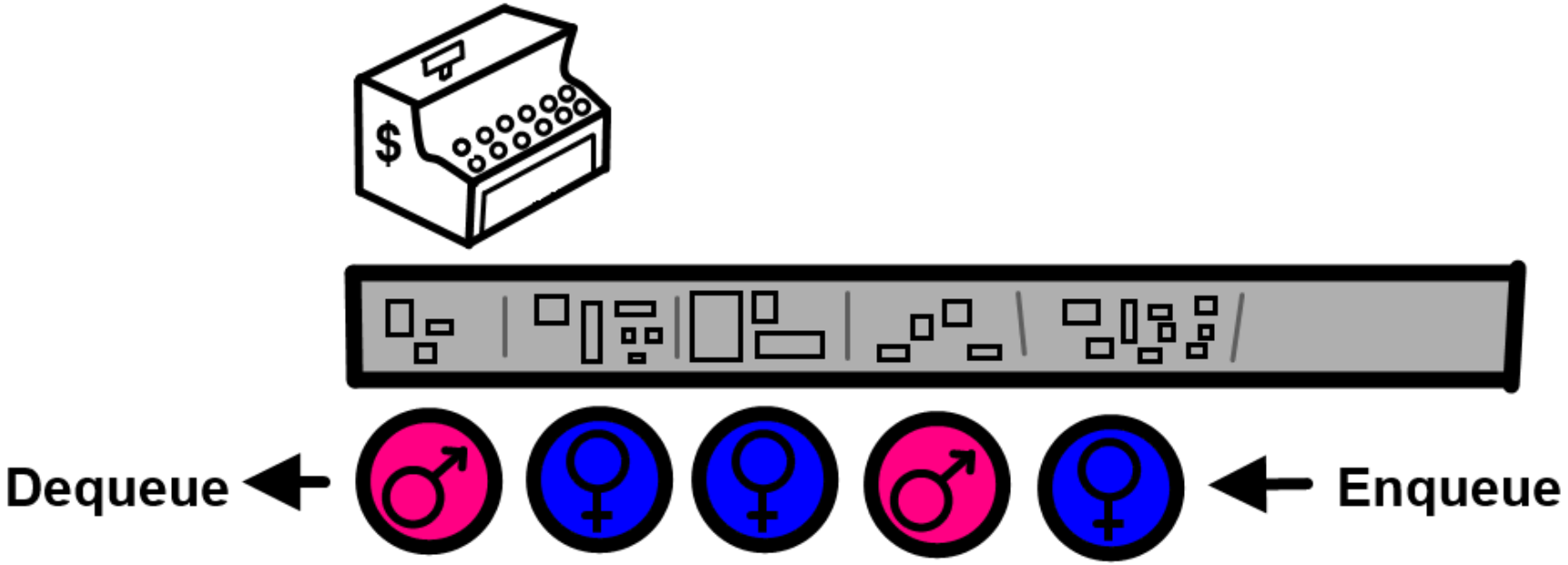
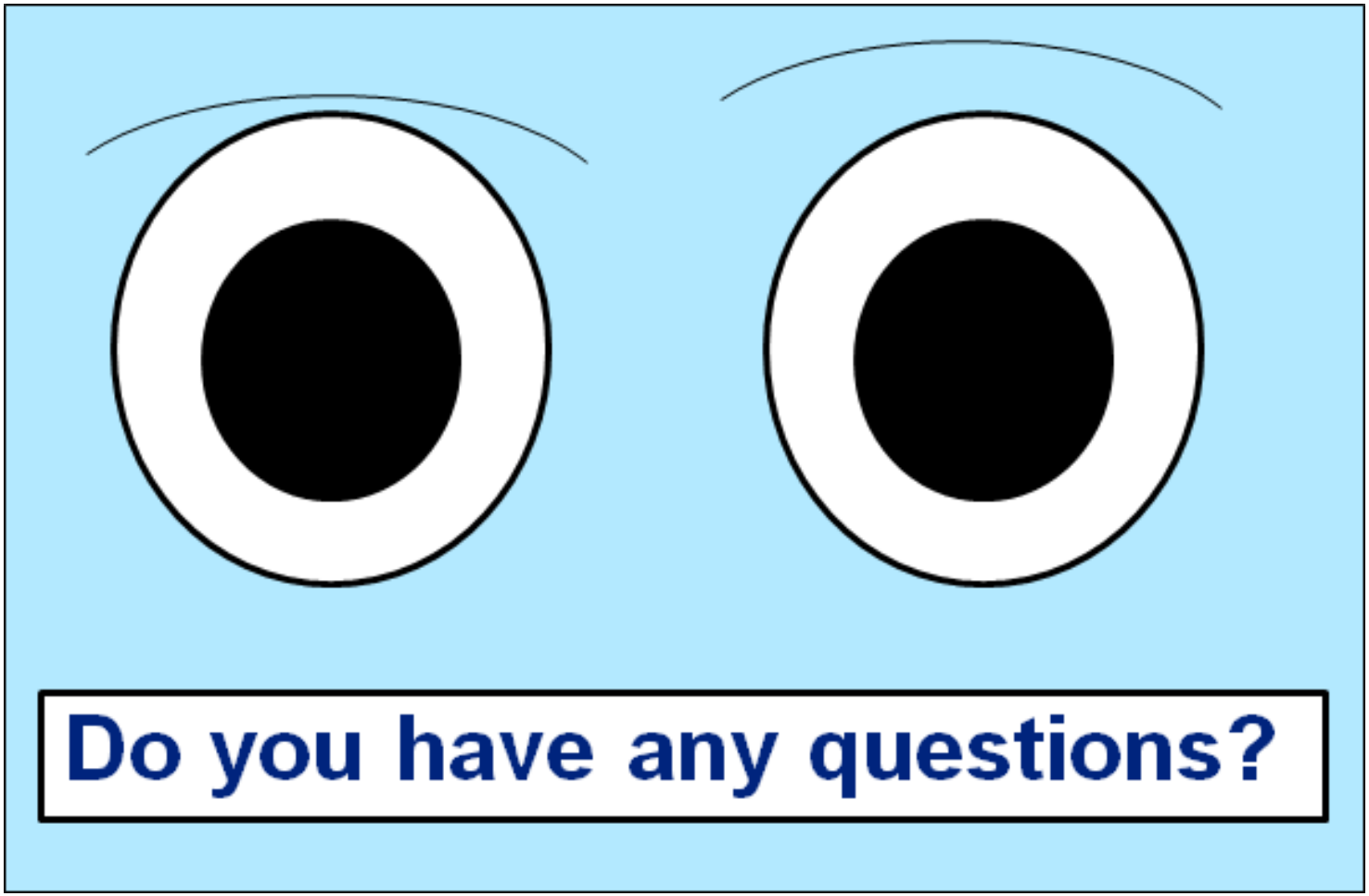


Stack of Benefits

- Algorithm design / programming game play.
- Components useful for education.
- Engaging enough for non computer science enthusiasts.
- Data Structure Evangelism.

Queue of Future Work

- Strategy design / Algorithm guide.
- Outreach event.
- More Game Design (It takes time!)
- Using Hump Yard for Education.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