



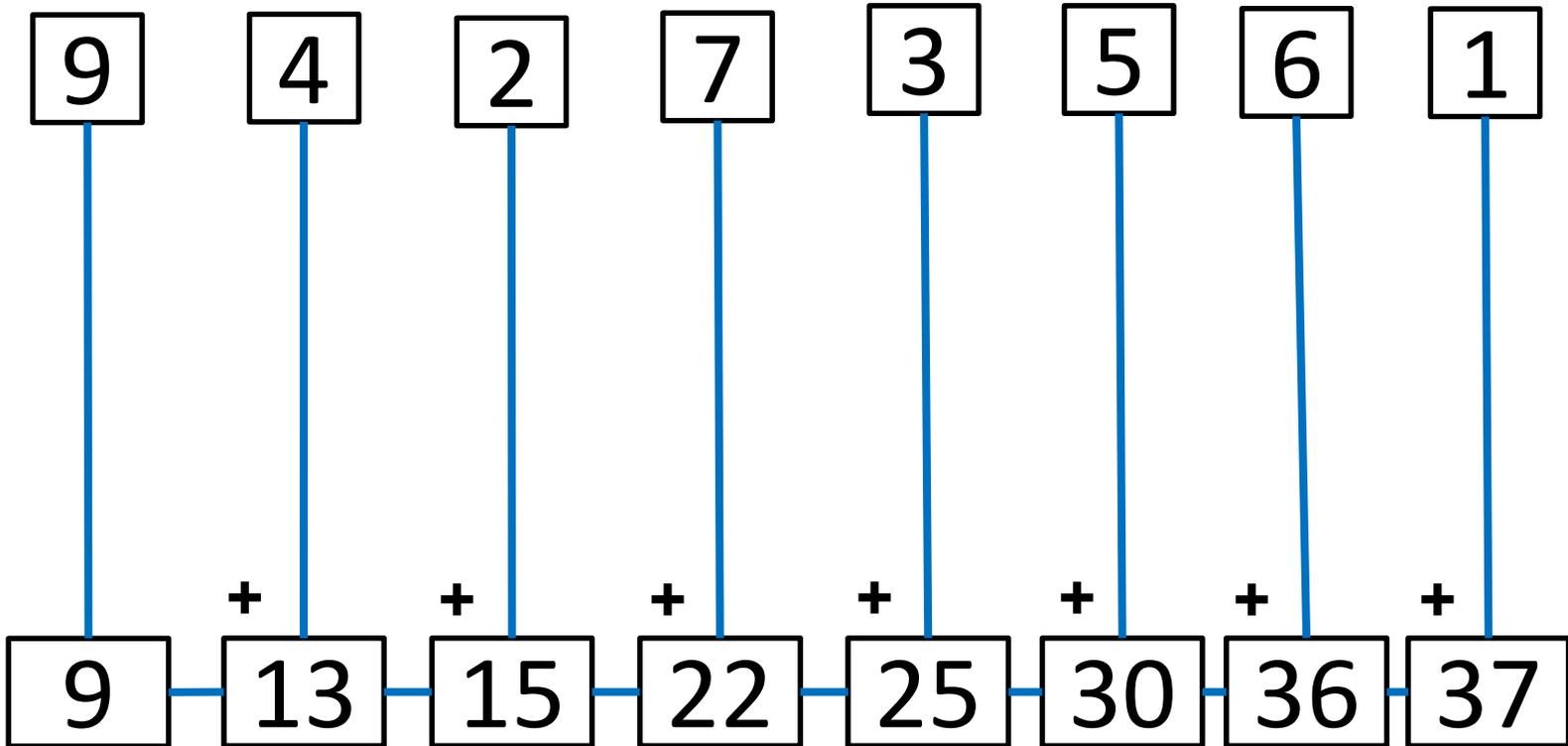
Scan

**Apply the same operation between all the elements of a vector.
Obtains all partial results.**

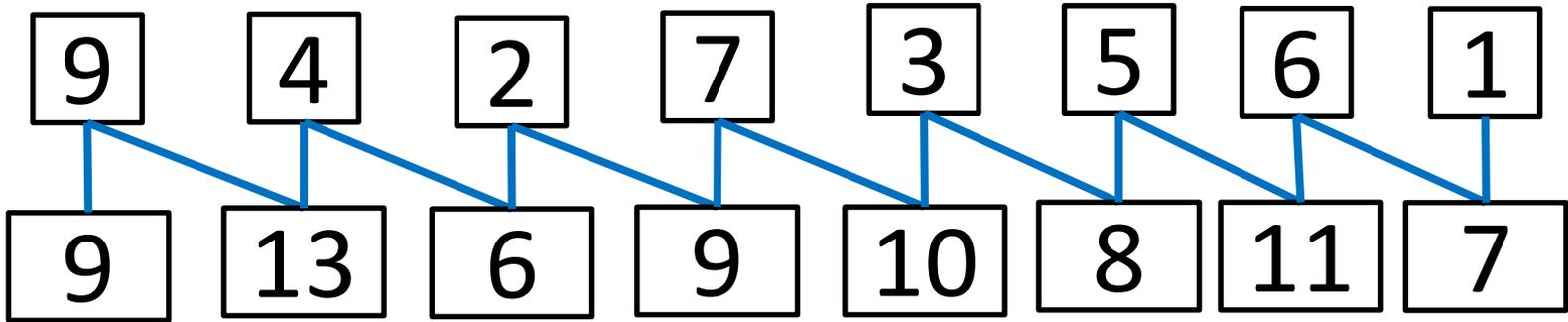
Can be executed in $\log(n)$ time using a special tree form.

The operation can take many forms (+, *, min, max, and, etc.)

Scan - sum



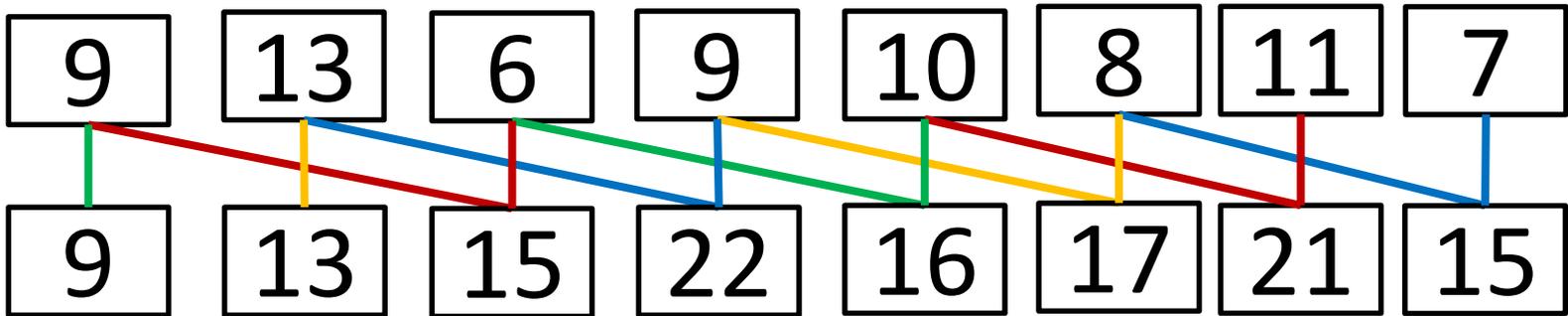
Scan - sum



Can all be executed in parallel



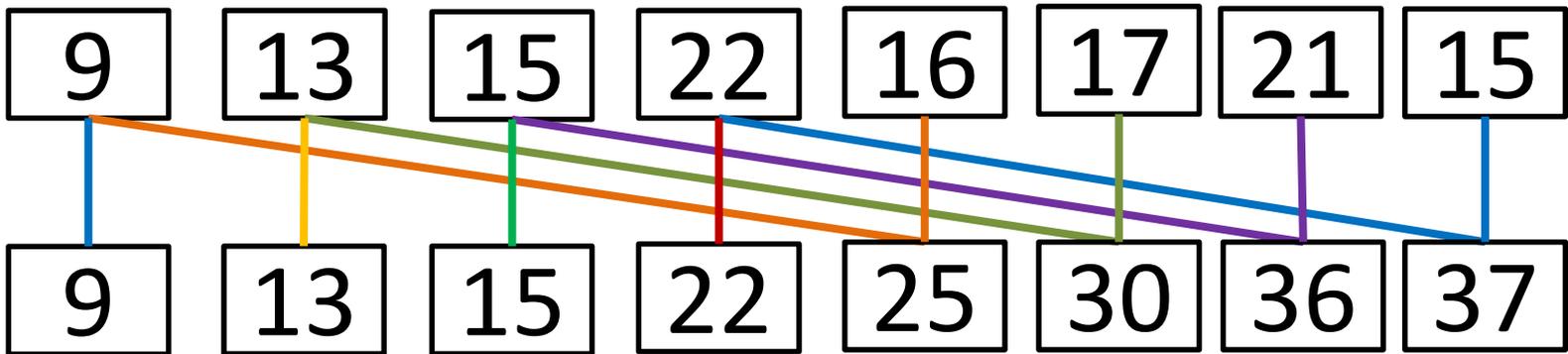
Scan - sum



Can all be executed in parallel



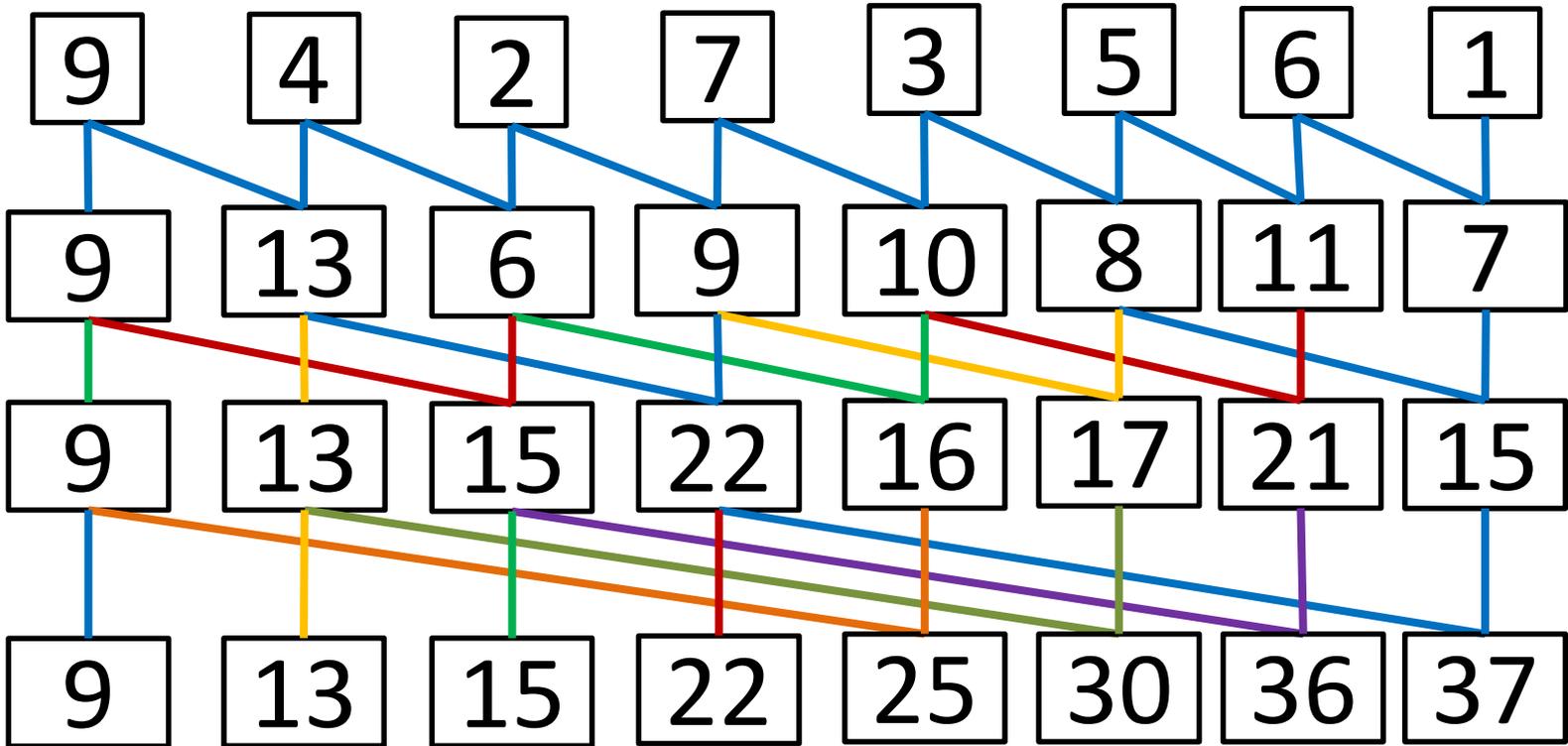
Scan - sum



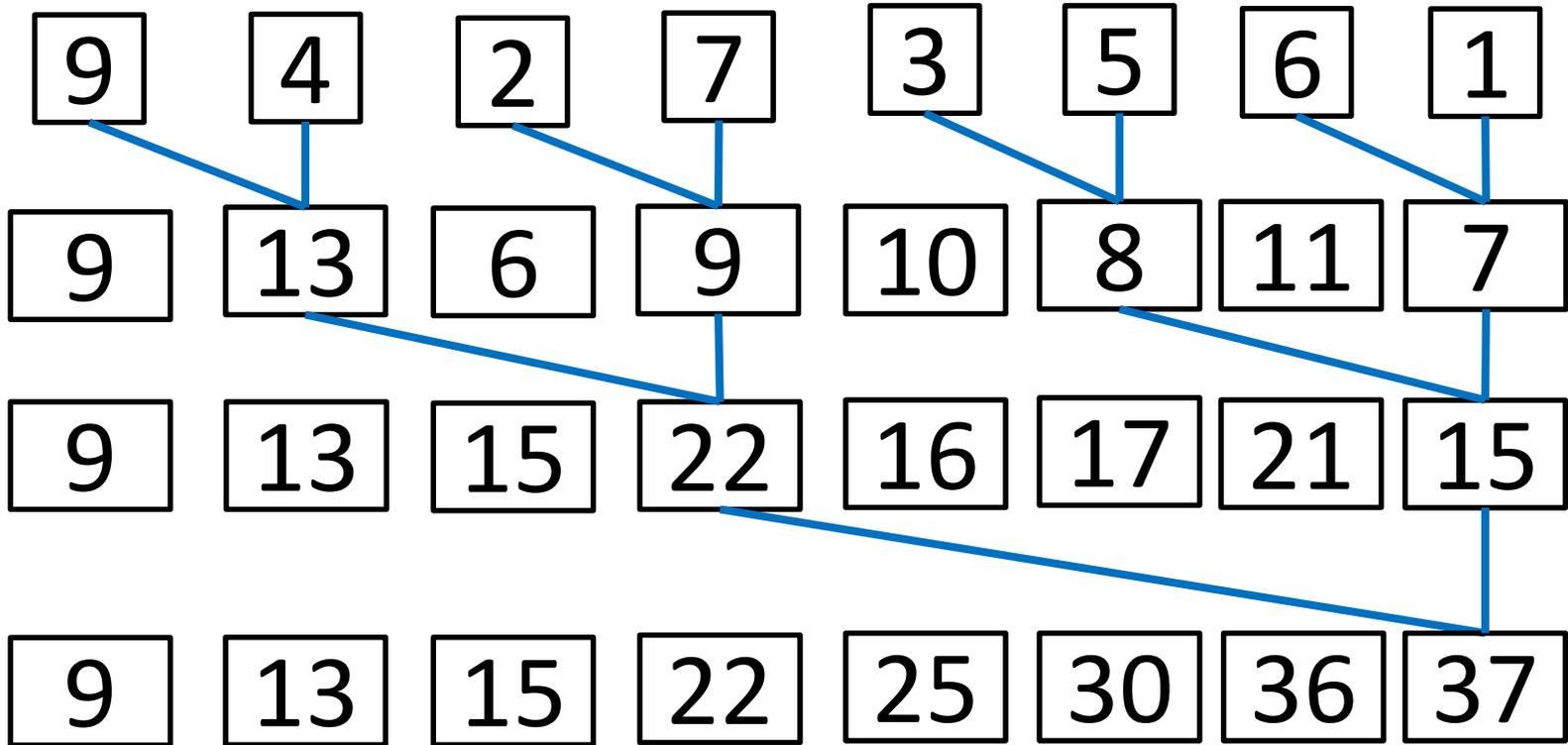
Can all be executed in parallel



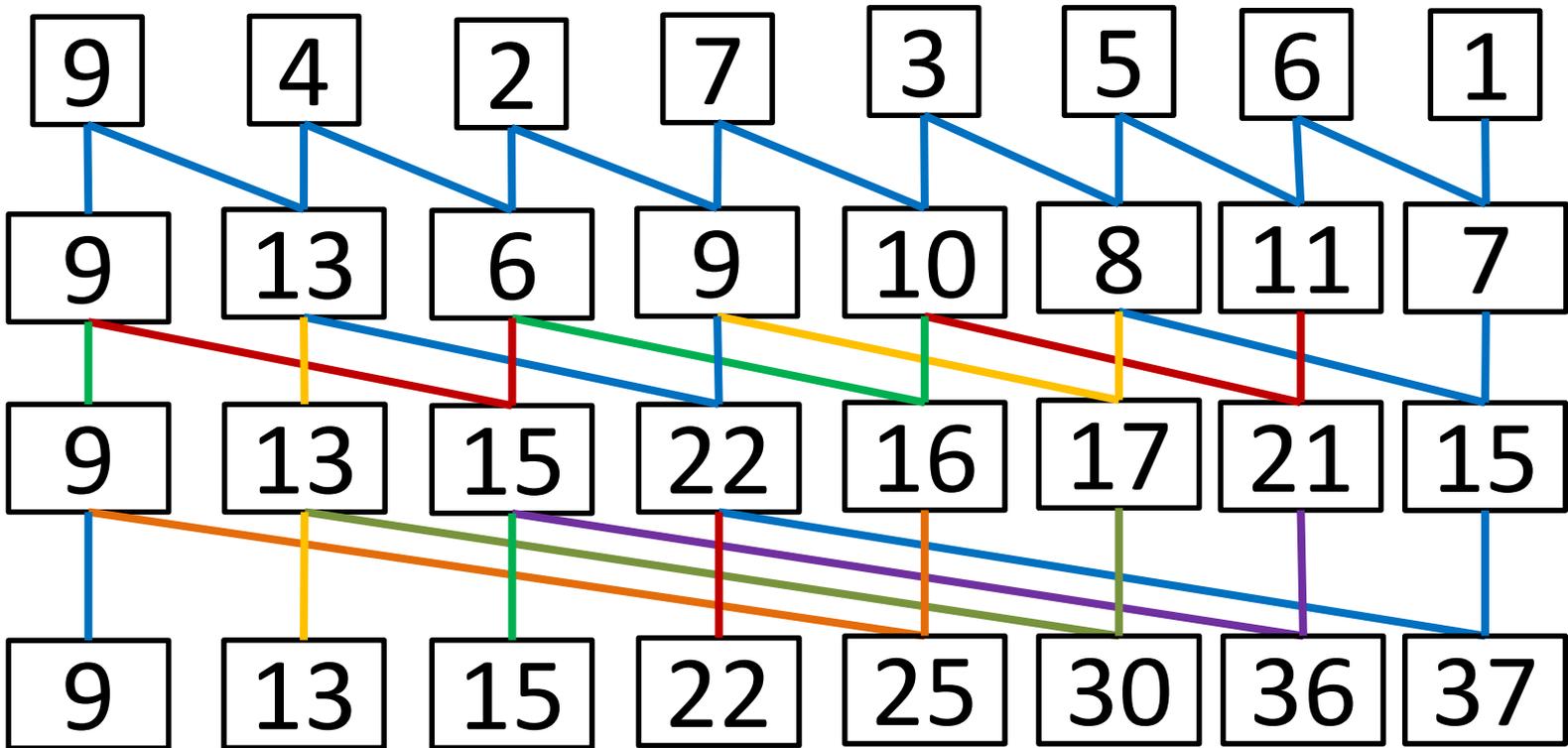
Scan – How it works?



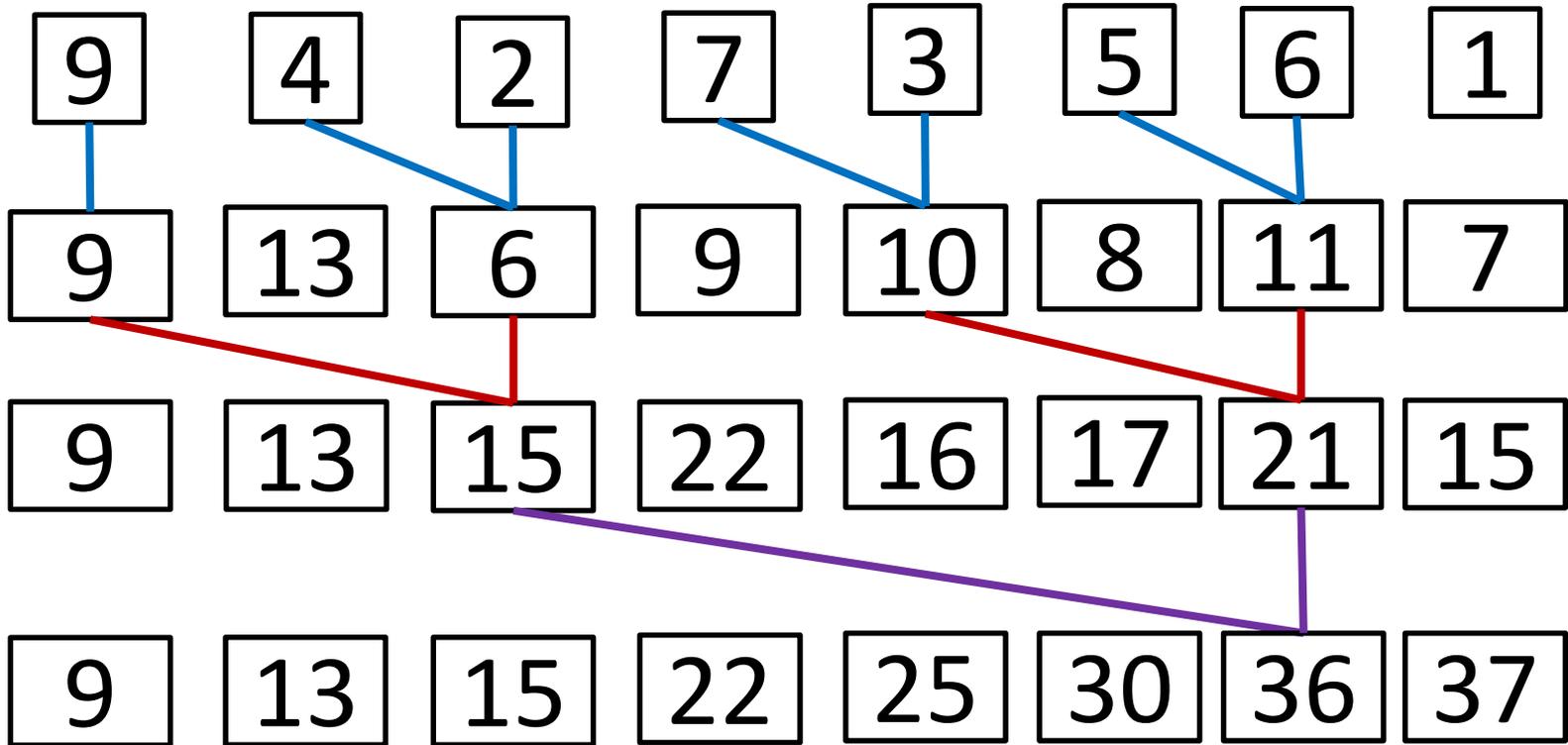
Scan – How it works?



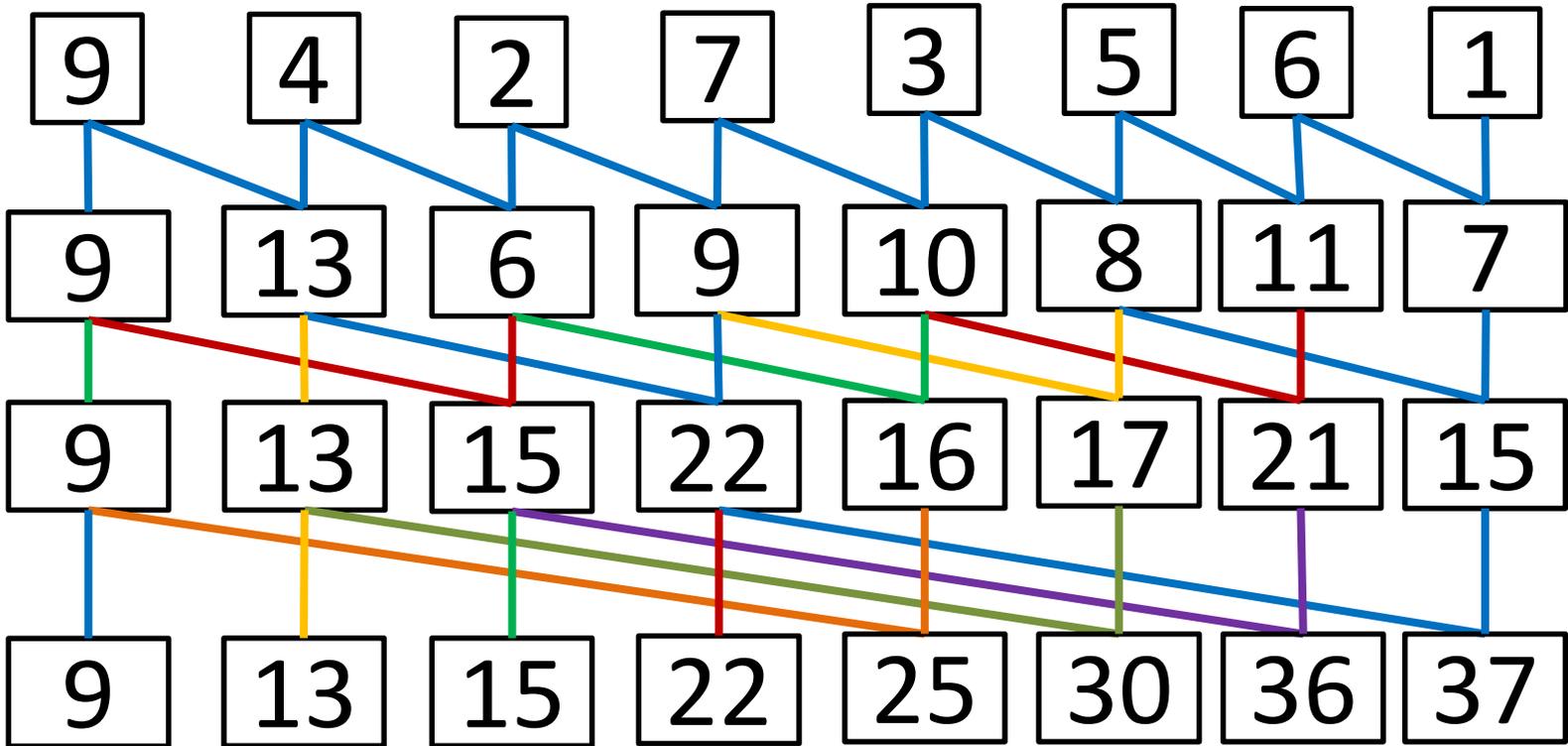
Scan – How it works?



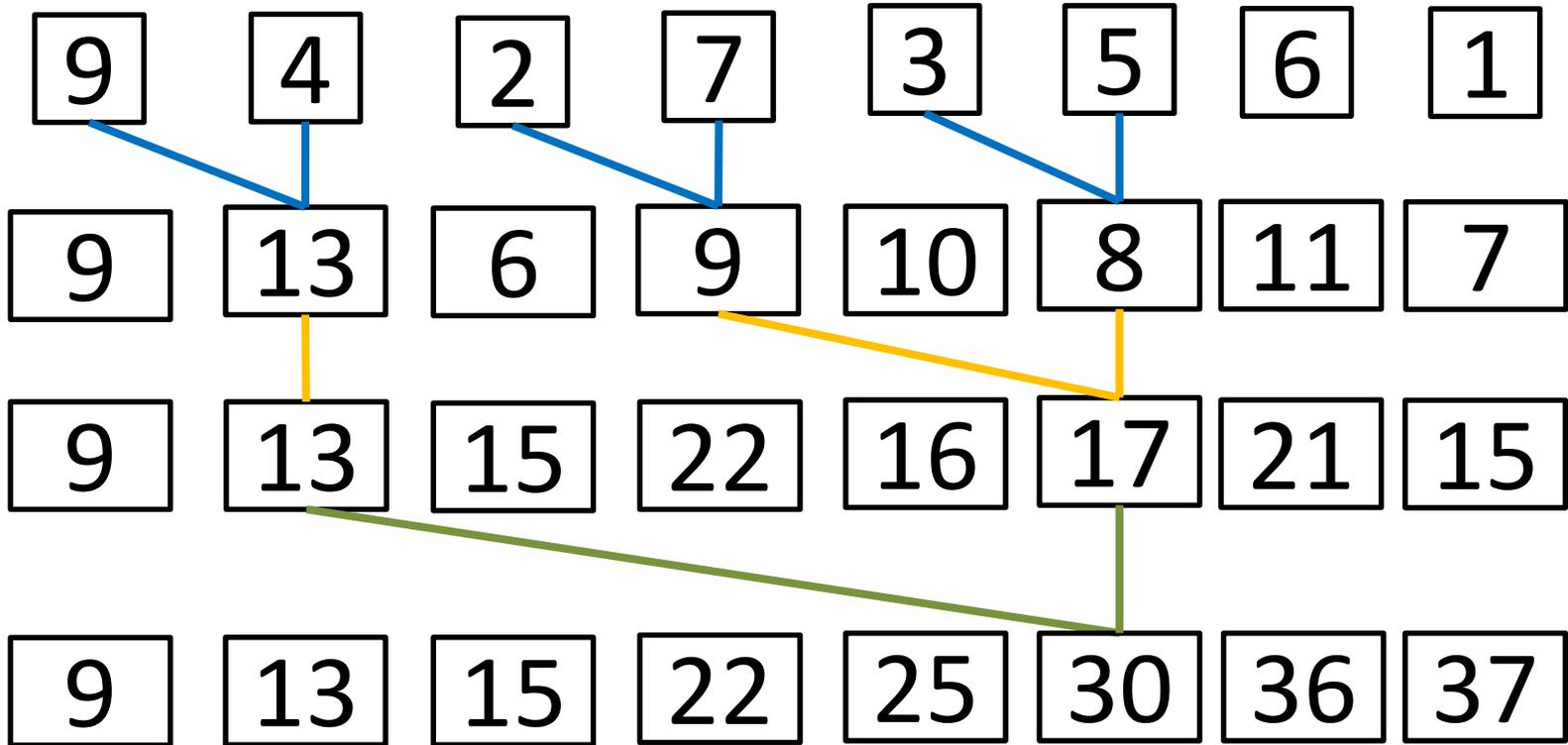
Scan – How it works?



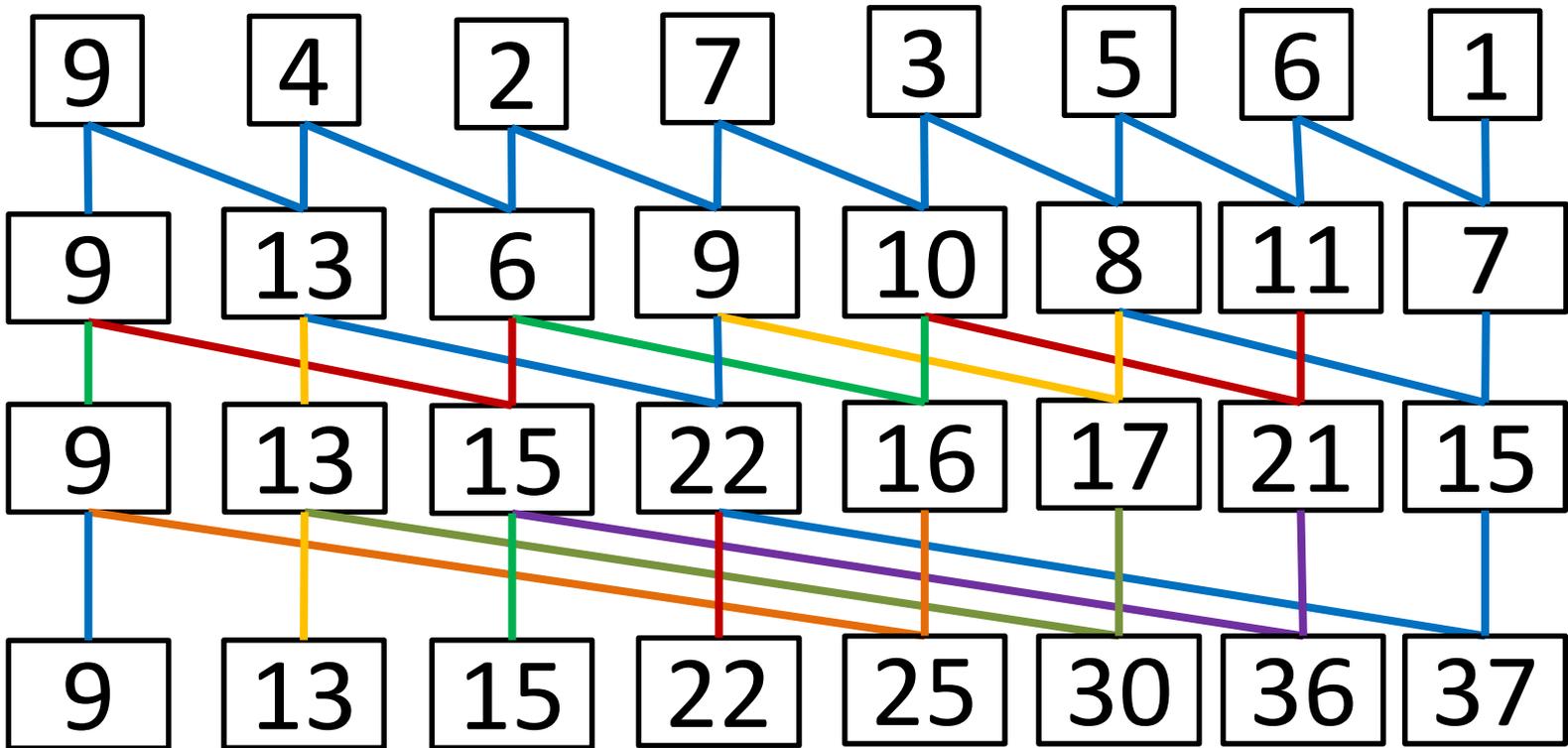
Scan – How it works?



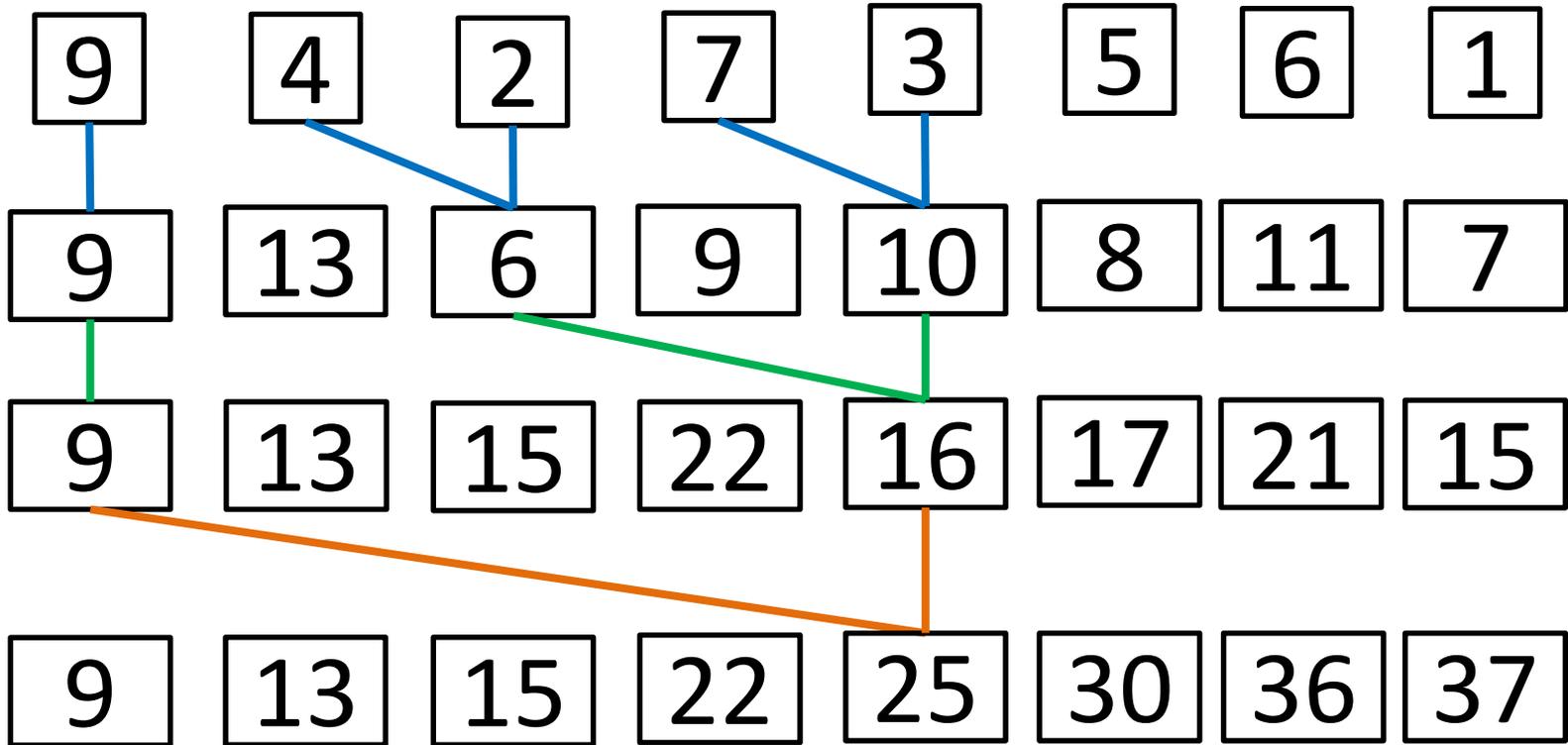
Scan – How it works?



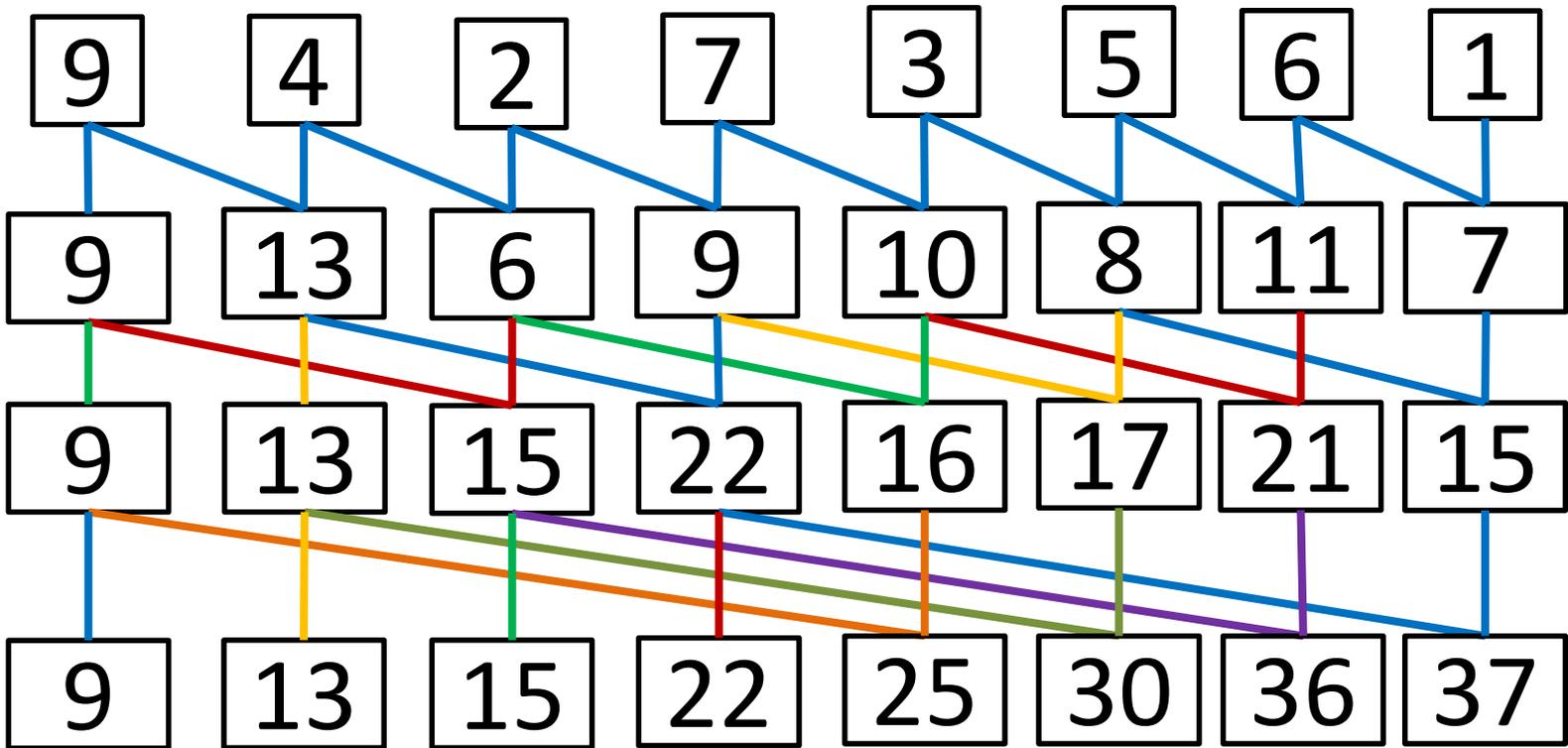
Scan – How it works?



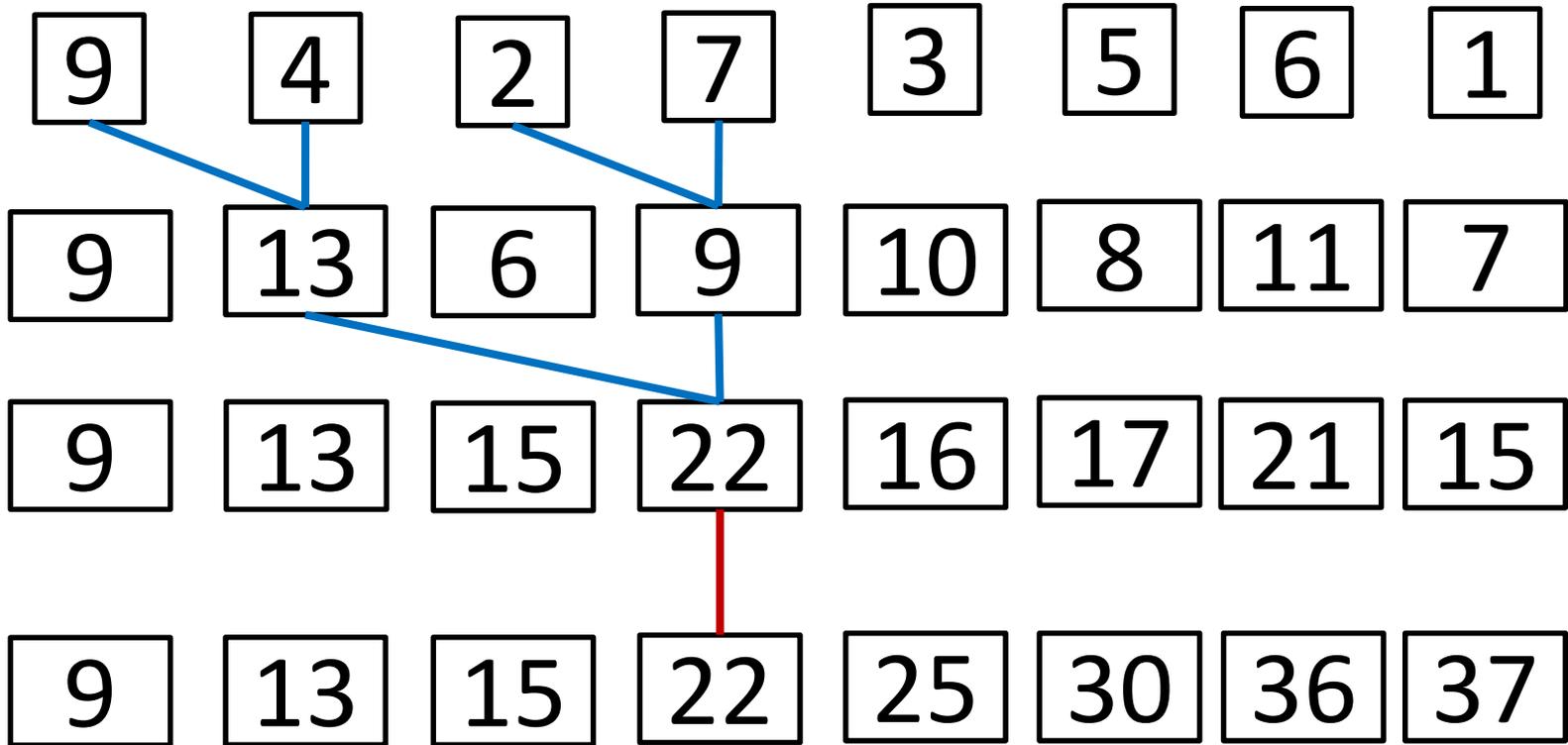
Scan – How it works?



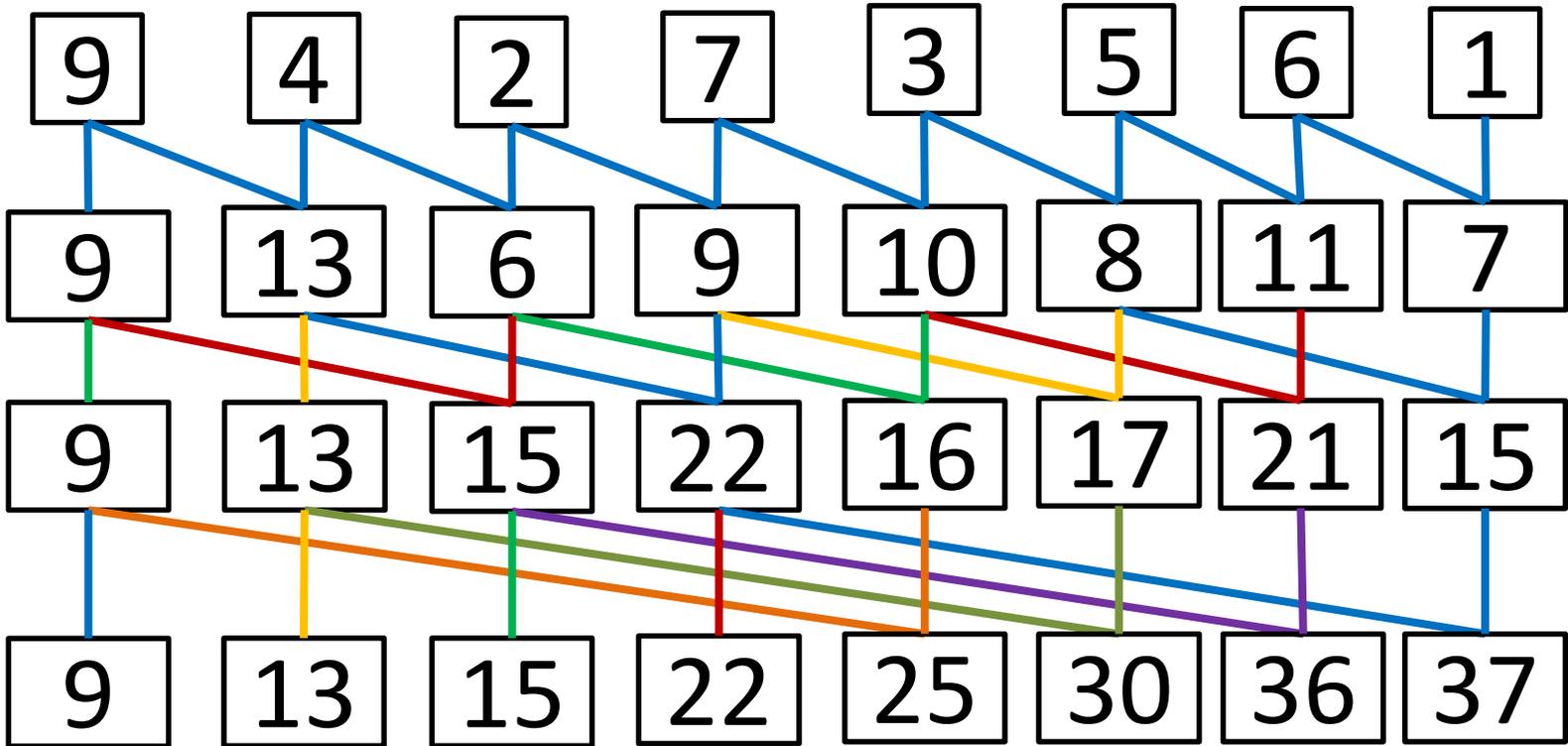
Scan – How it works?



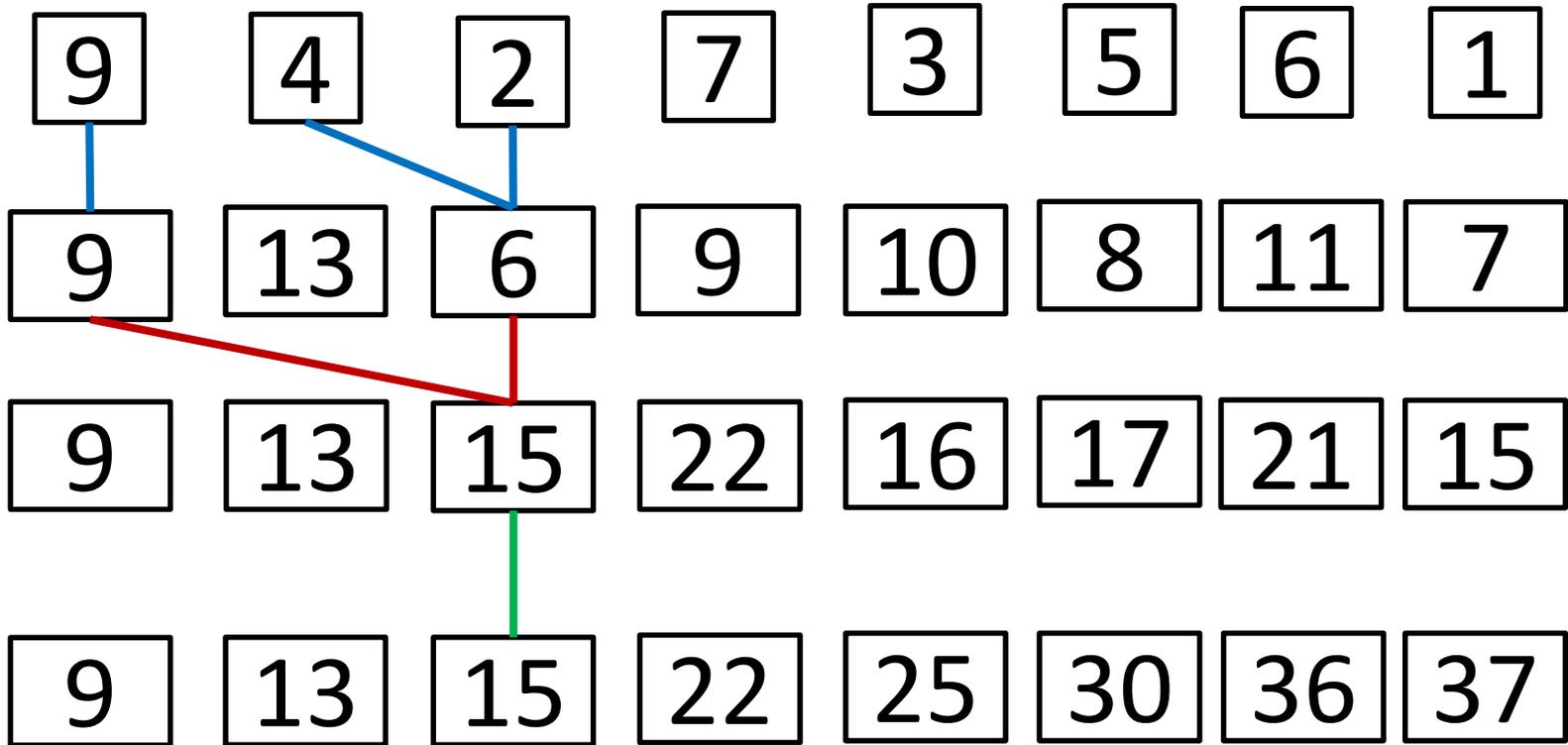
Scan – How it works?



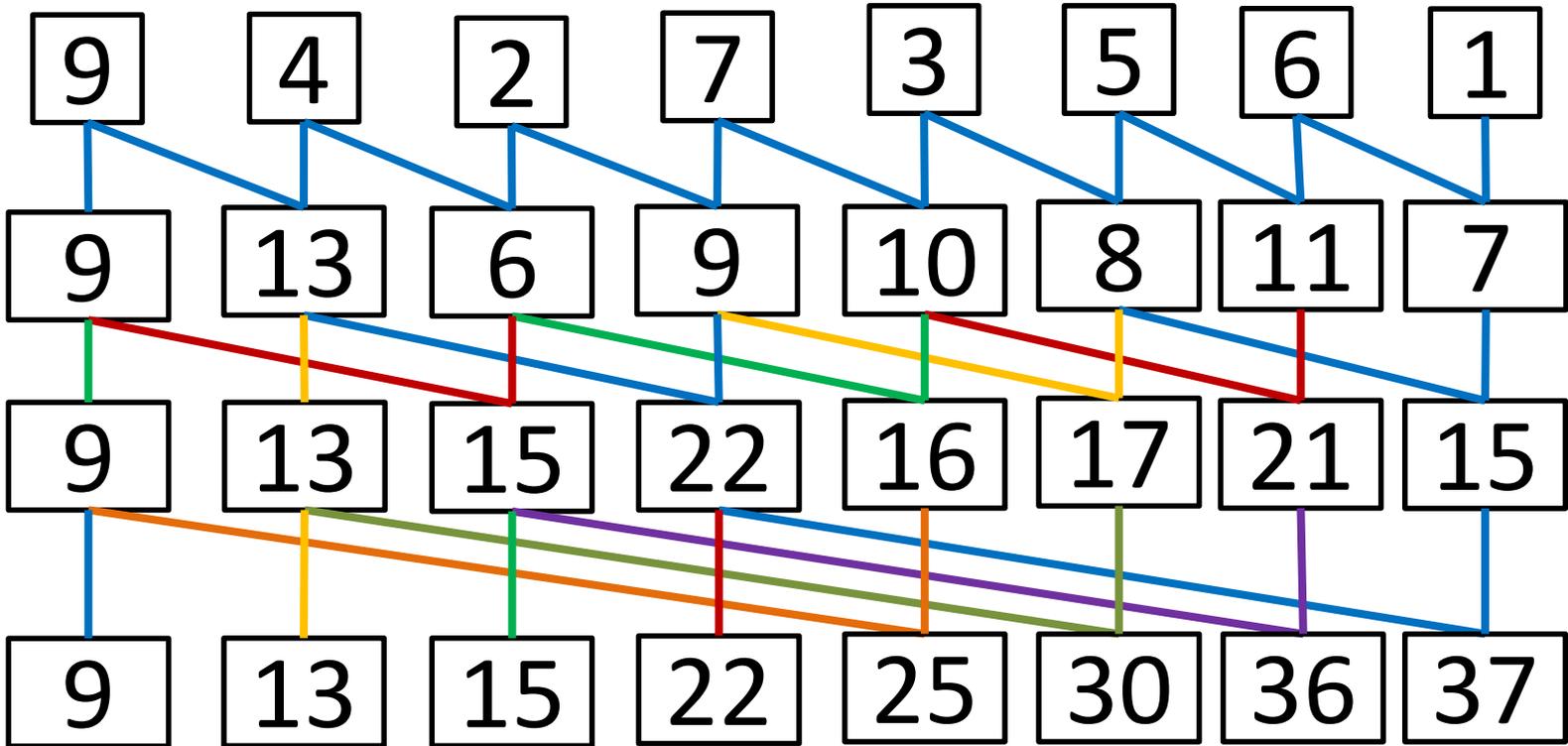
Scan – How it works?



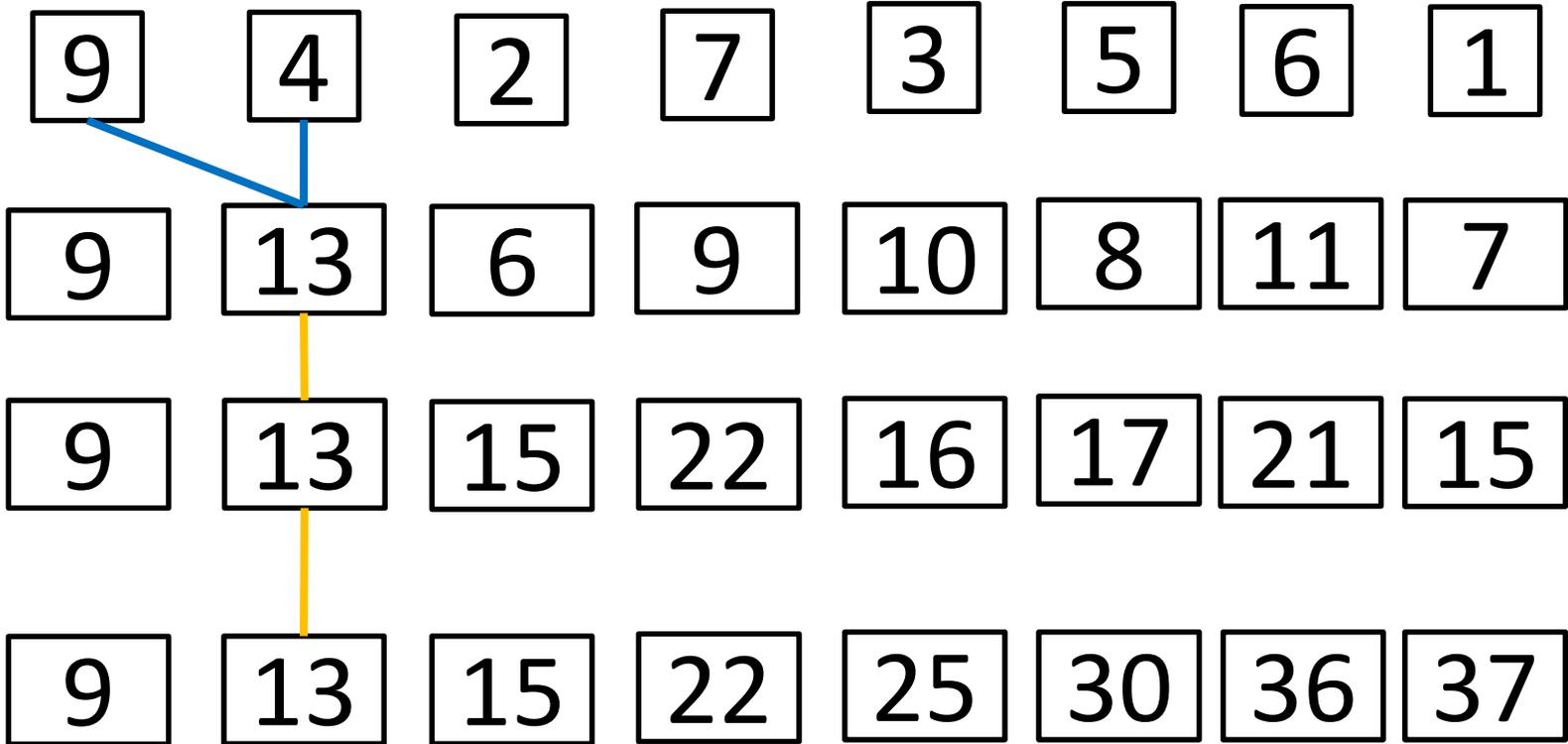
Scan – How it works?



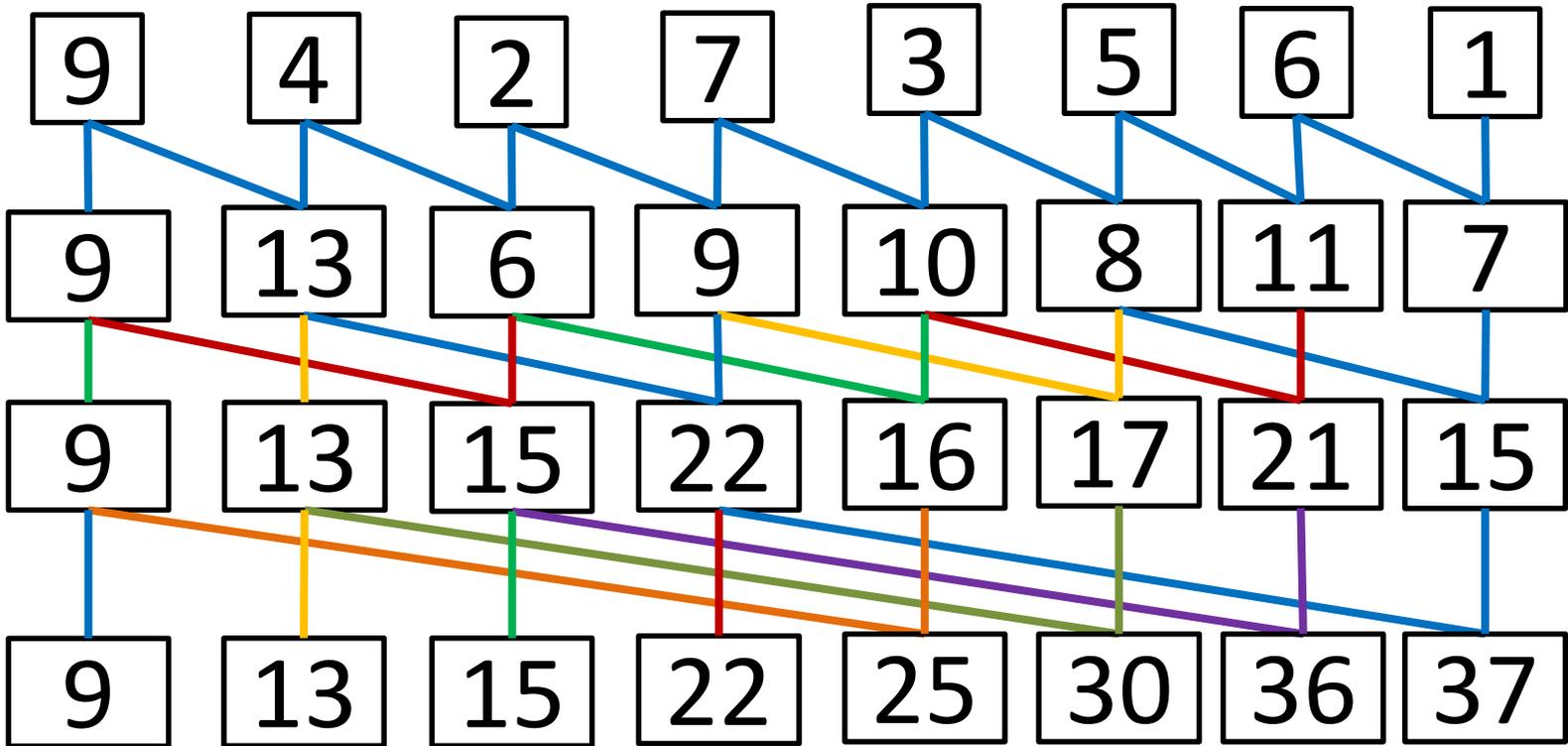
Scan – How it works?



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