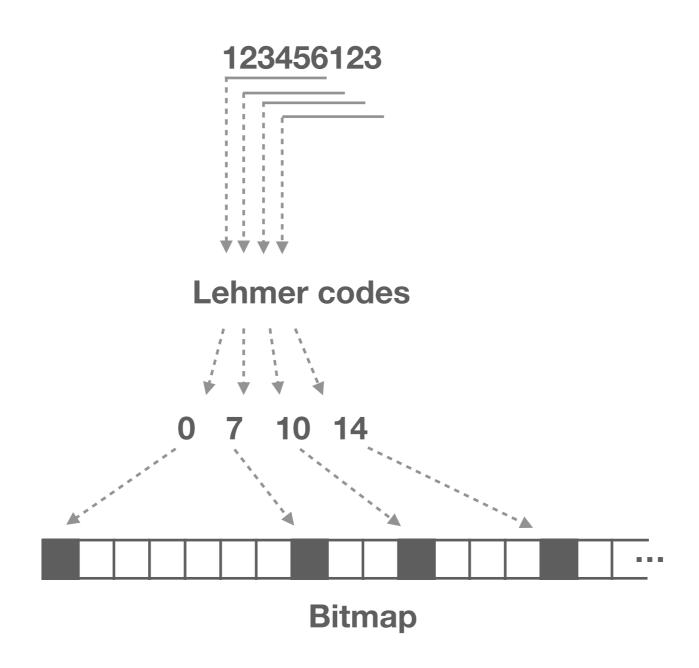
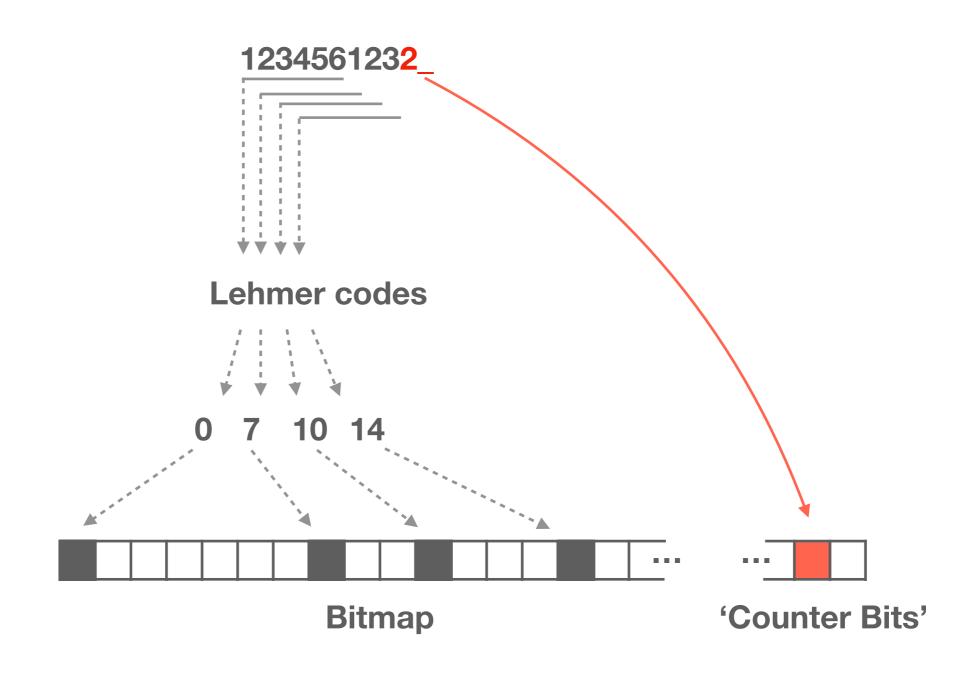
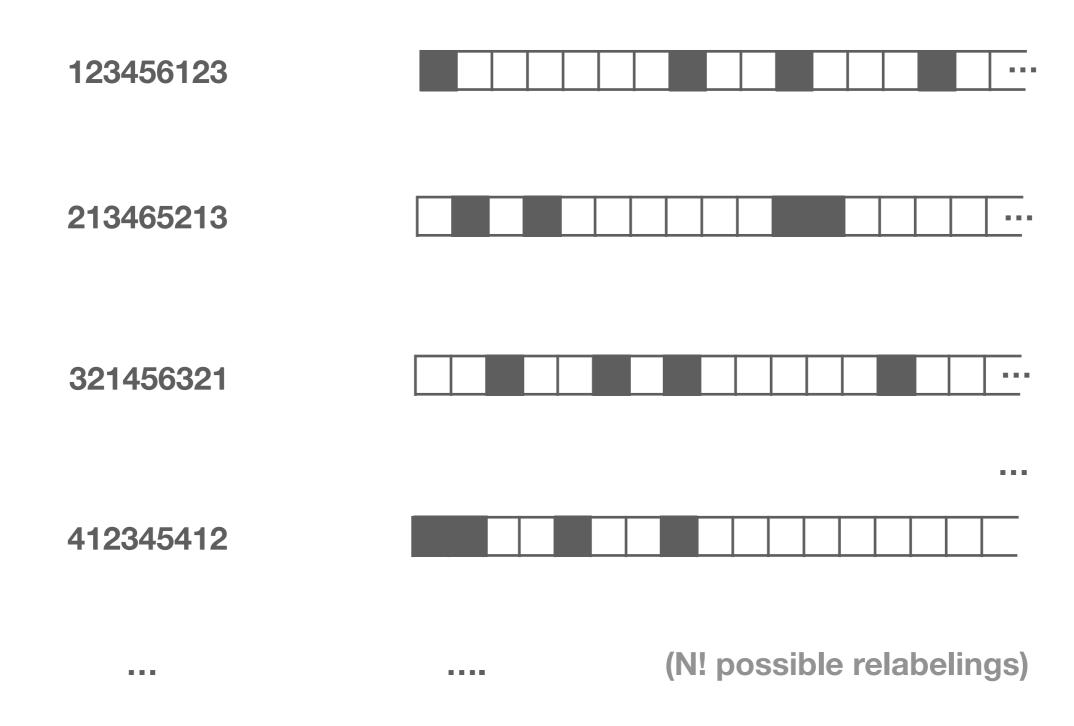
The reduction:



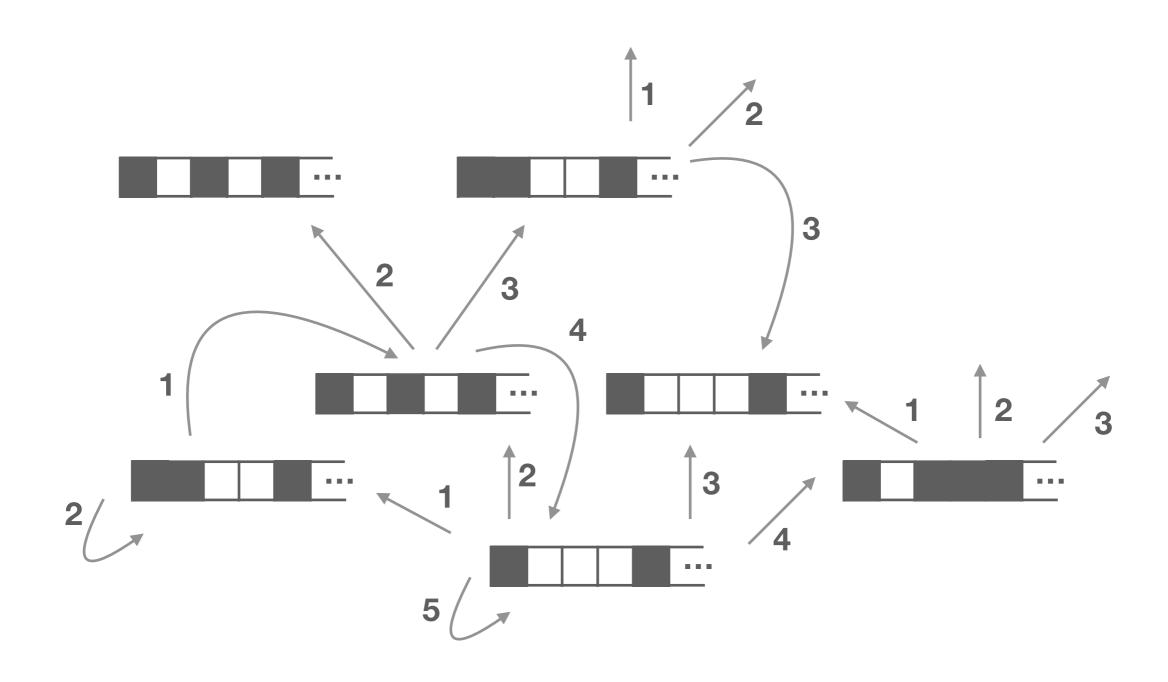
The reduction:



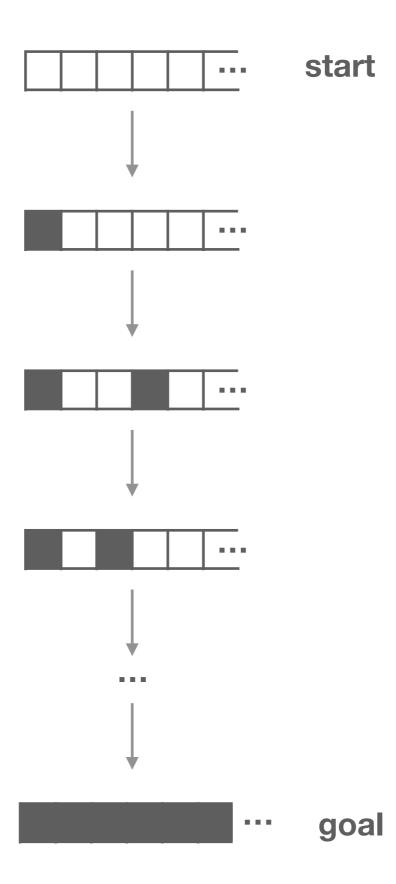
'Symmetry breaking'



Directed cyclic graph:



Shortest path:



Shortest path algorithms:

A*

Breadth-First

Frontier Search

Dijkstras

Depth-First

Adaptive A*

Branch and Bound

Best-First

D* Lite

Jump Point

IDA*

Shortest path algorithms:

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Adaptive A*:

'Incremental Heuristic Search' algorithm

"Repeatedly solves 'subproblems' to learn how to solve the overall problem more quickly!"

What subproblems?

"What's the maximum number of permutations that can fit into a string that 'wastes' w symbols?"



"What's the shortest path that adds n bits to the bitmap?"

'Abstract State Space'

