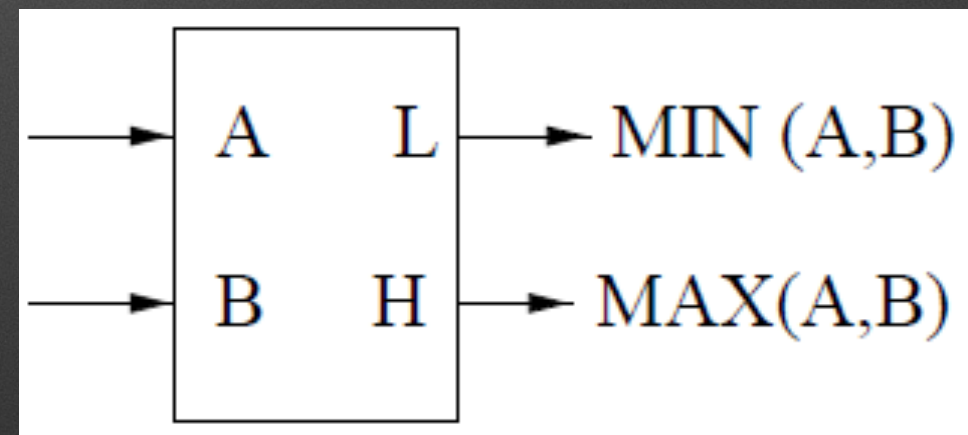
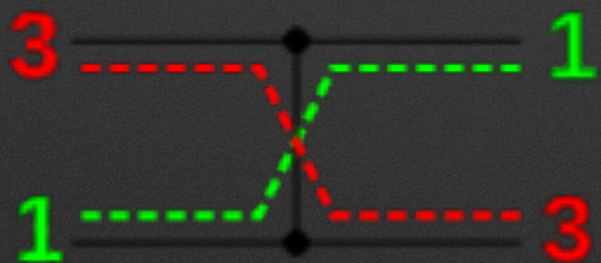
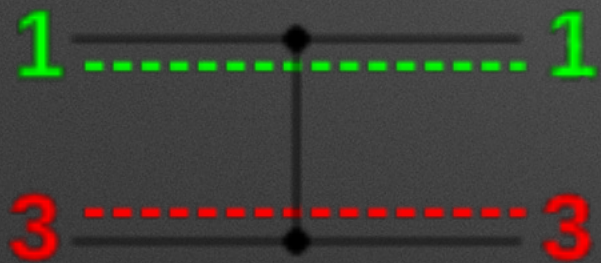
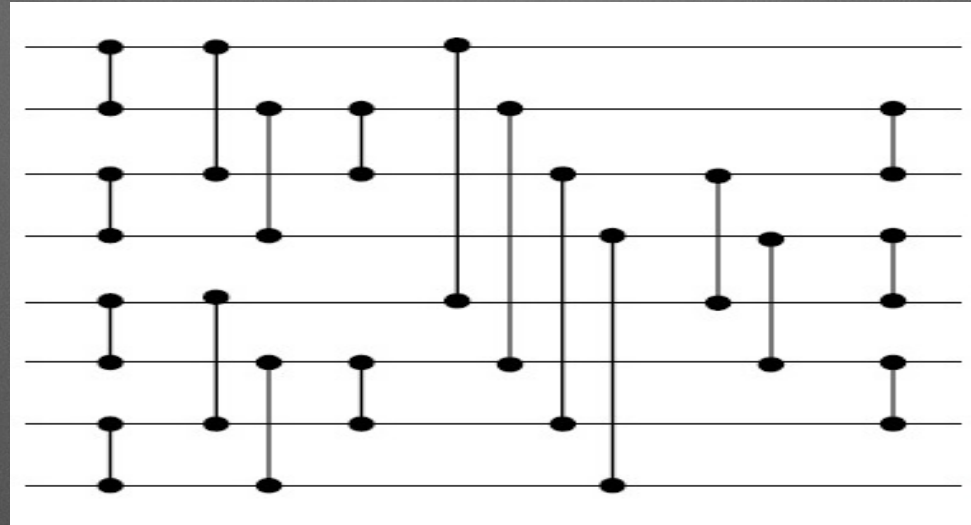


Sorting Networks

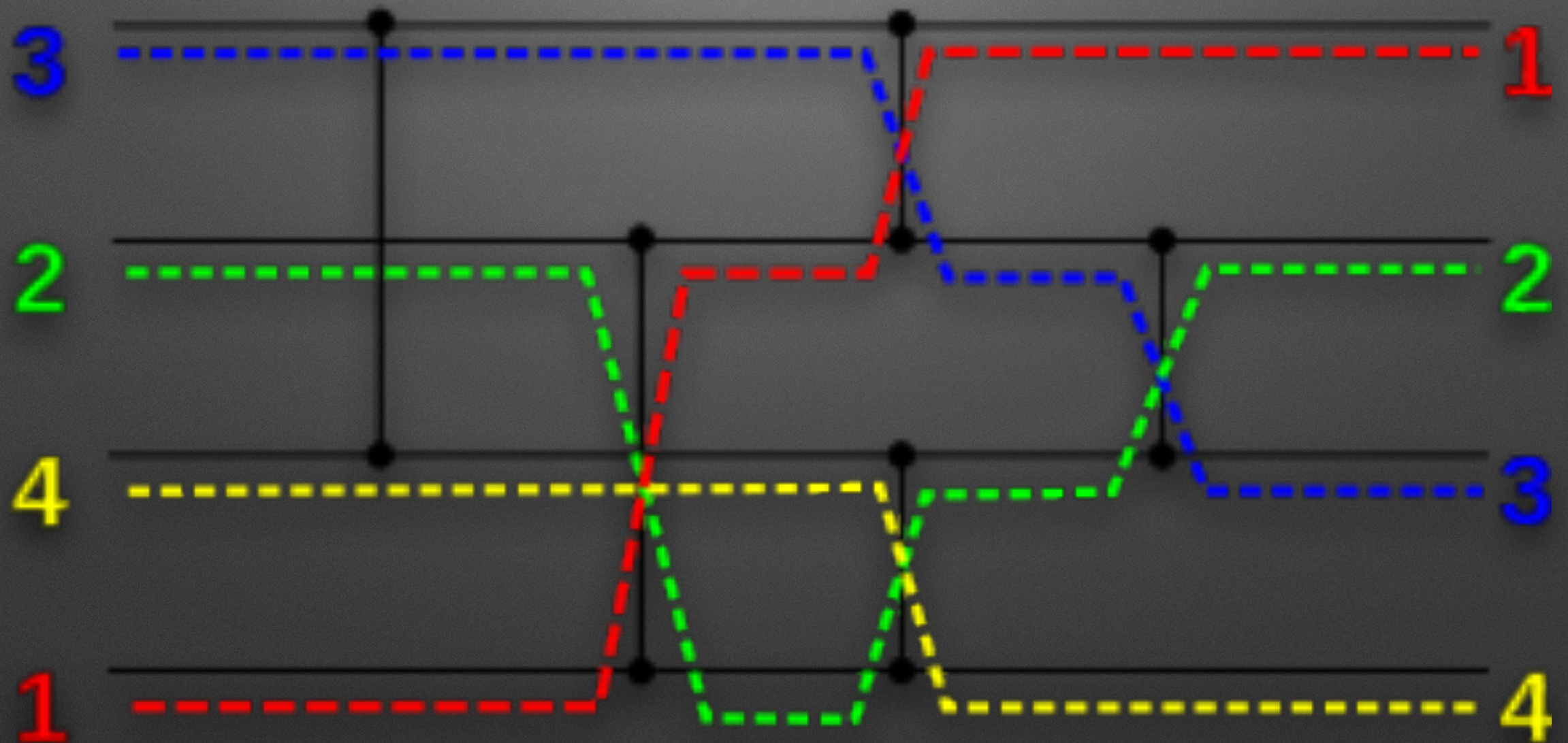
Research Question

Mathias Dekempeneer
Vincent Derkinderen

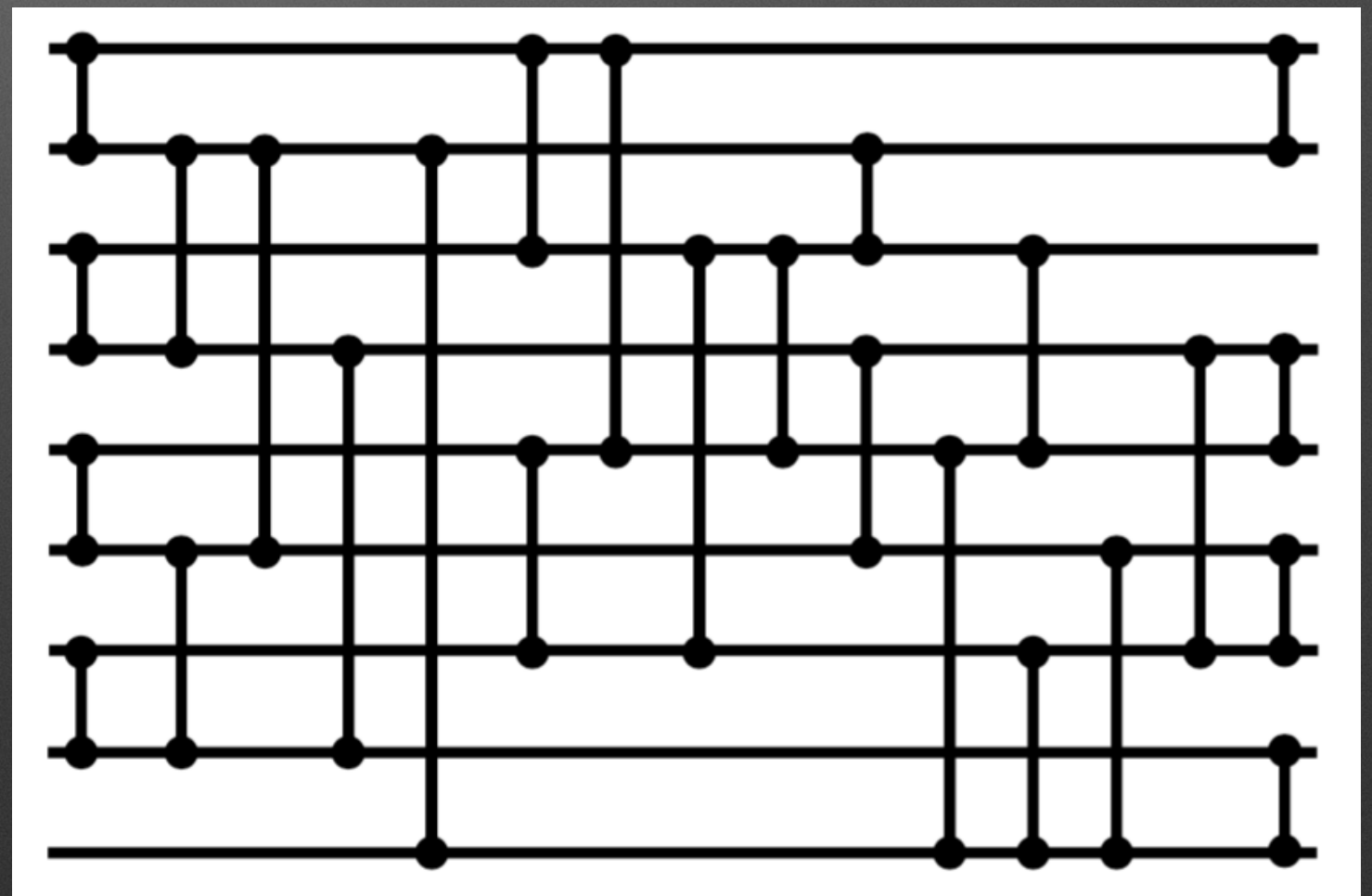
Comparator Network



Sorting Network

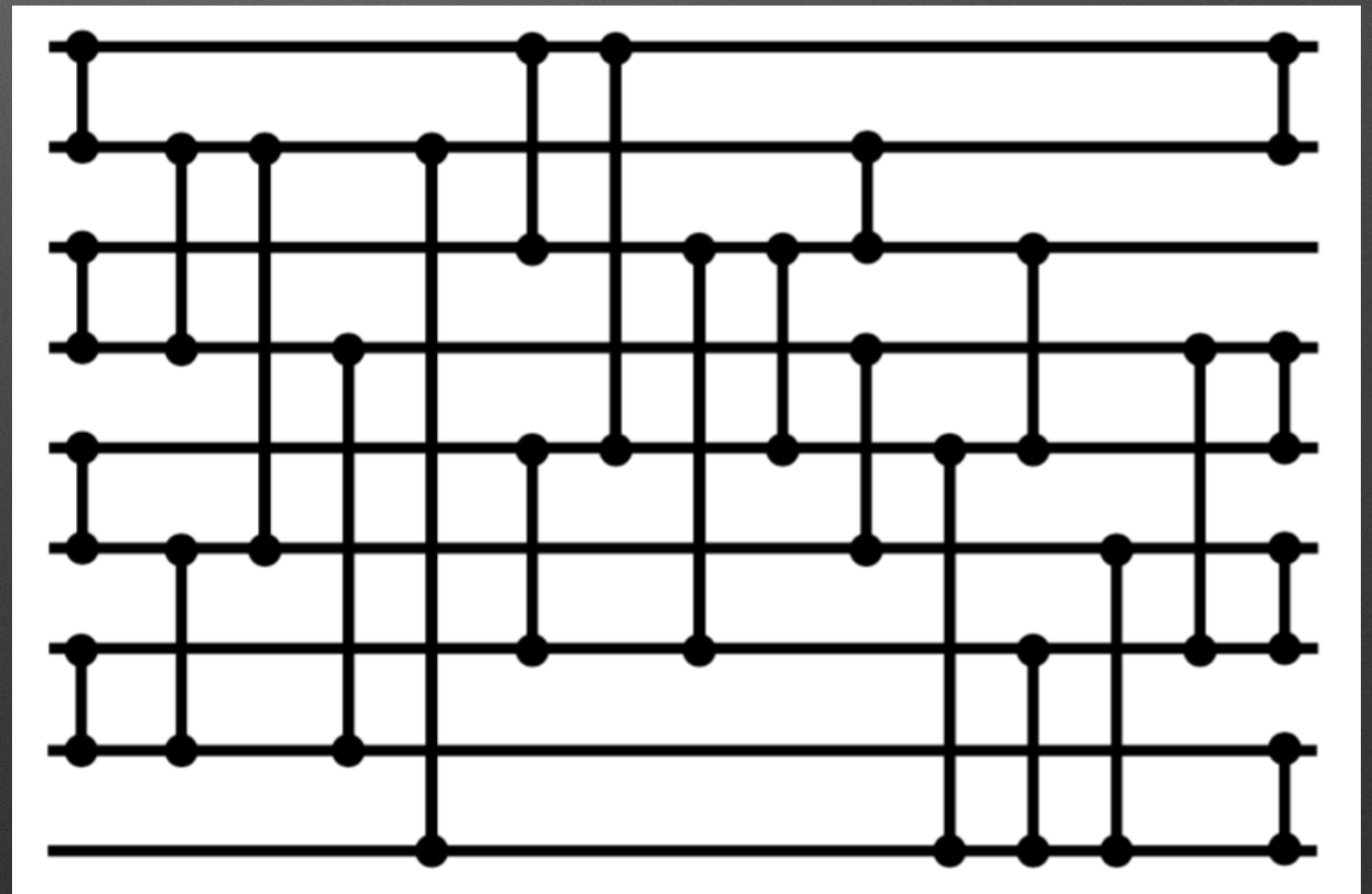


25 Comparators is Optimal when Sorting 9 Inputs



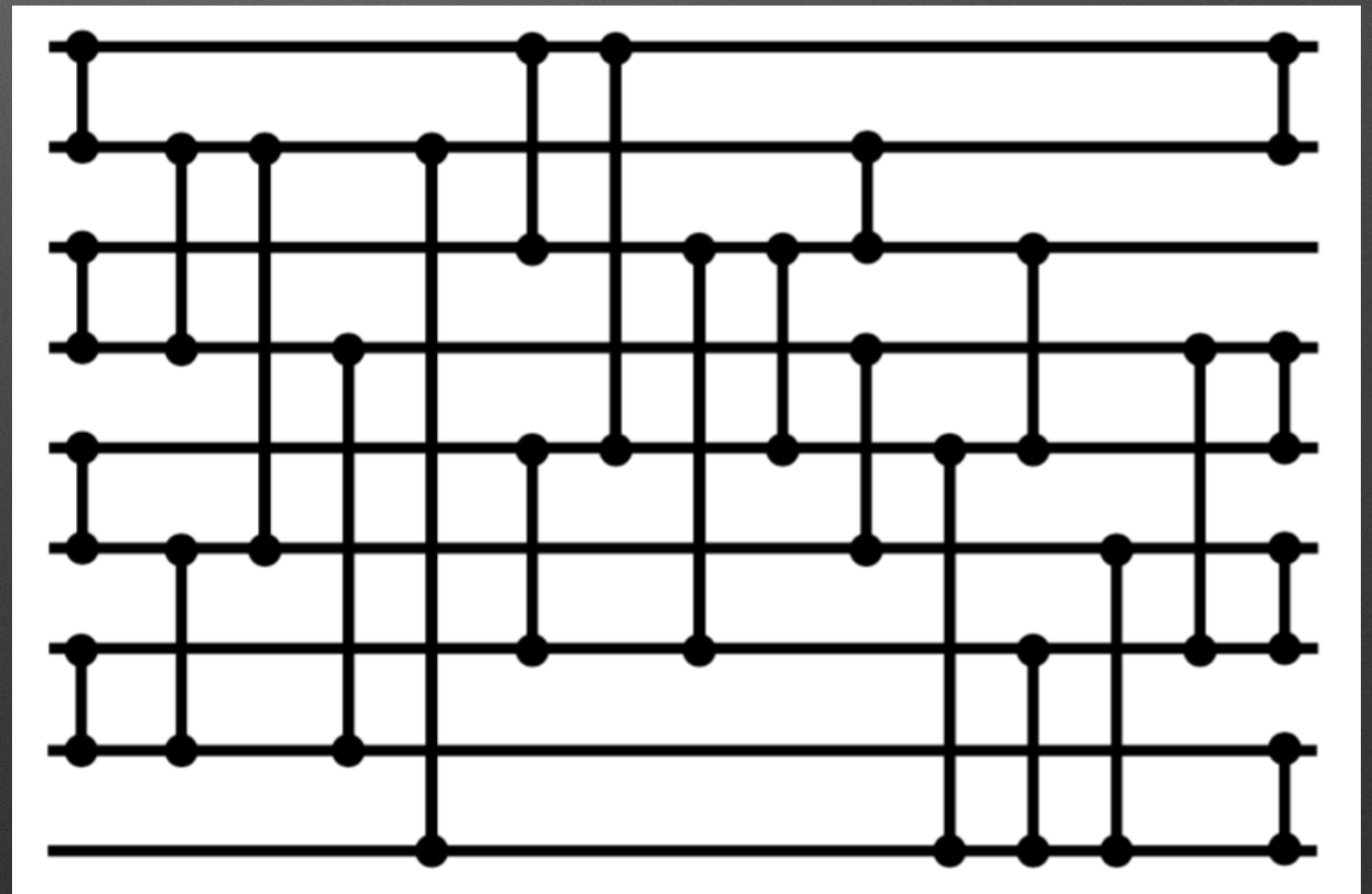
25 Comparators is Optimal when Sorting 9 Inputs

- Optimal Size (9 channels)



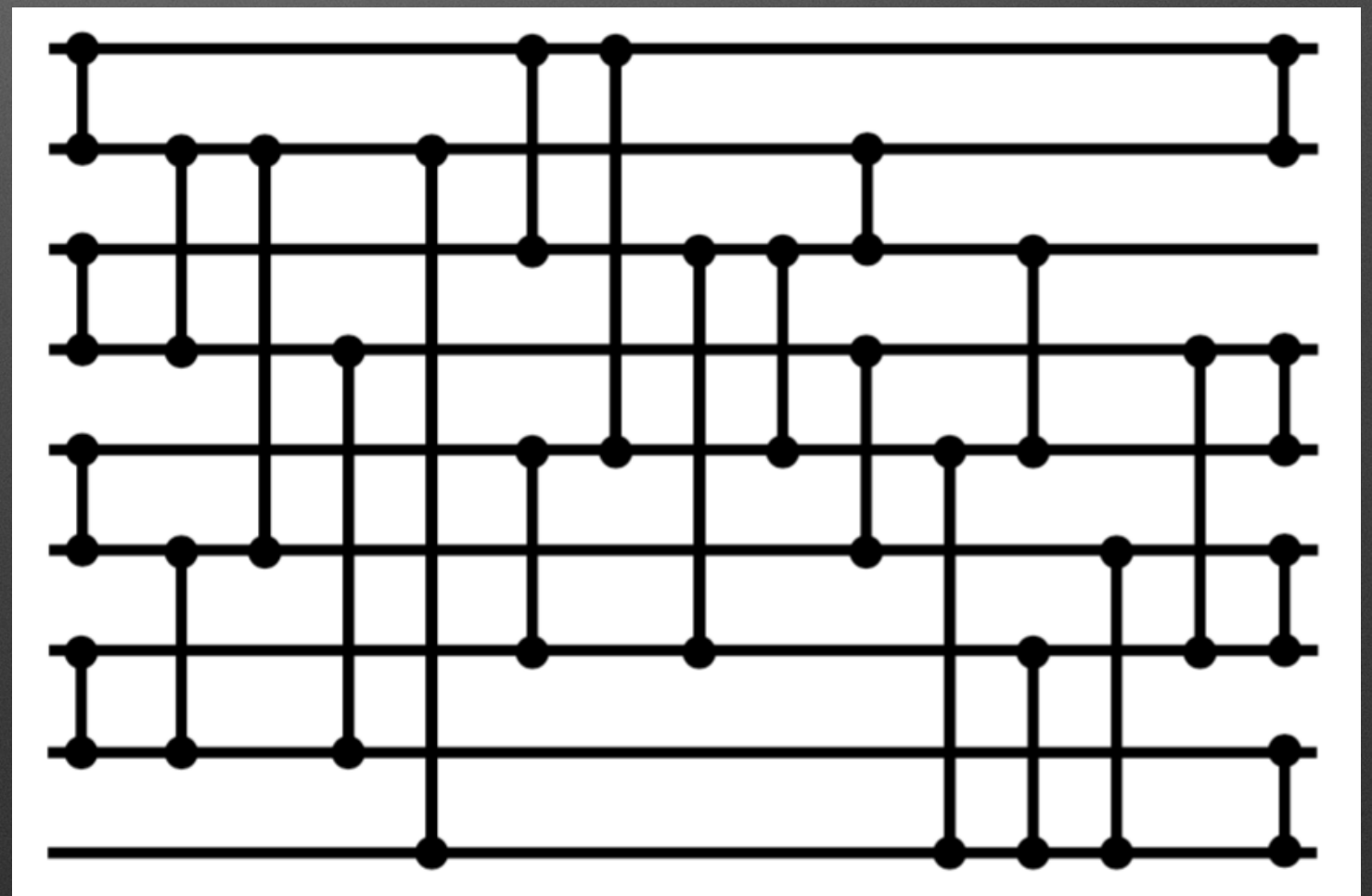
25 Comparators is Optimal when Sorting 9 Inputs

- Optimal Size (9 channels)
- Generate & Prune



25 Comparators is Optimal when Sorting 9 Inputs

- Optimal Size (9 channels)
- Generate & Prune
- Subsumes



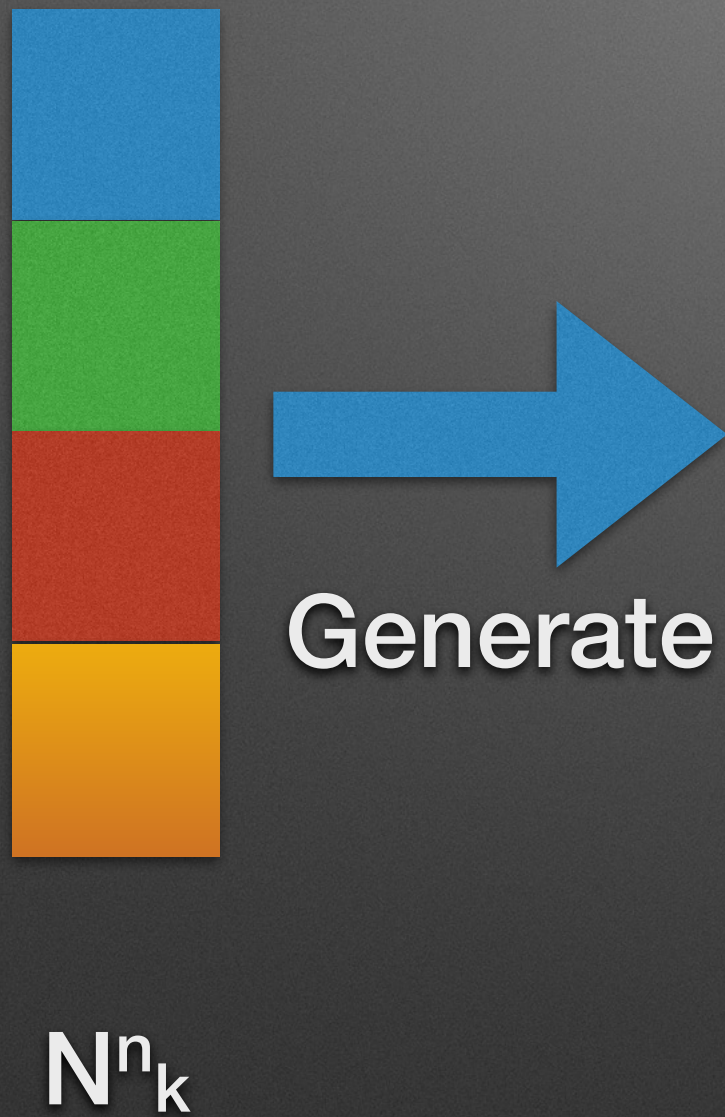
Generate & Prune

Generate & Prune

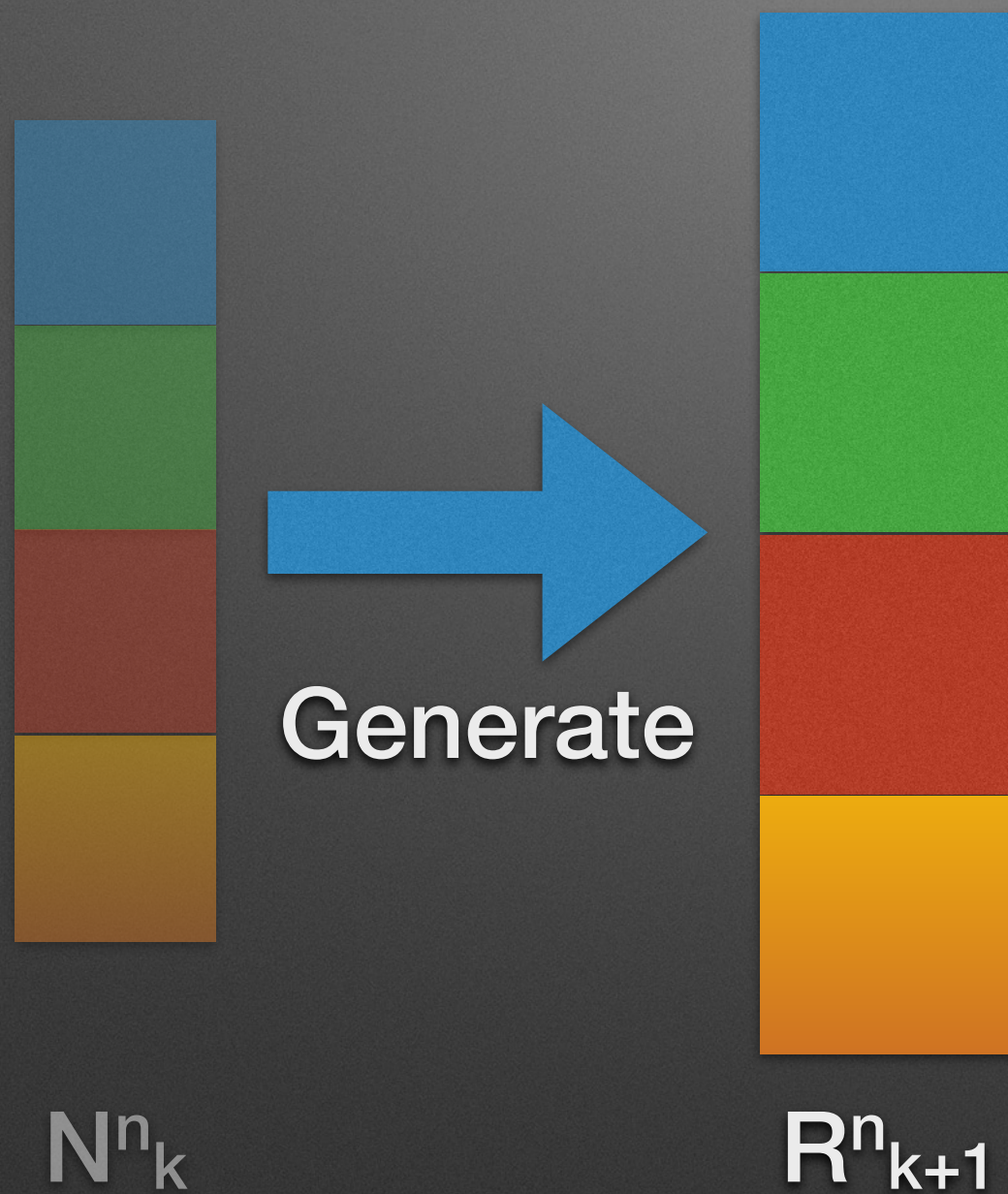


N_k^n

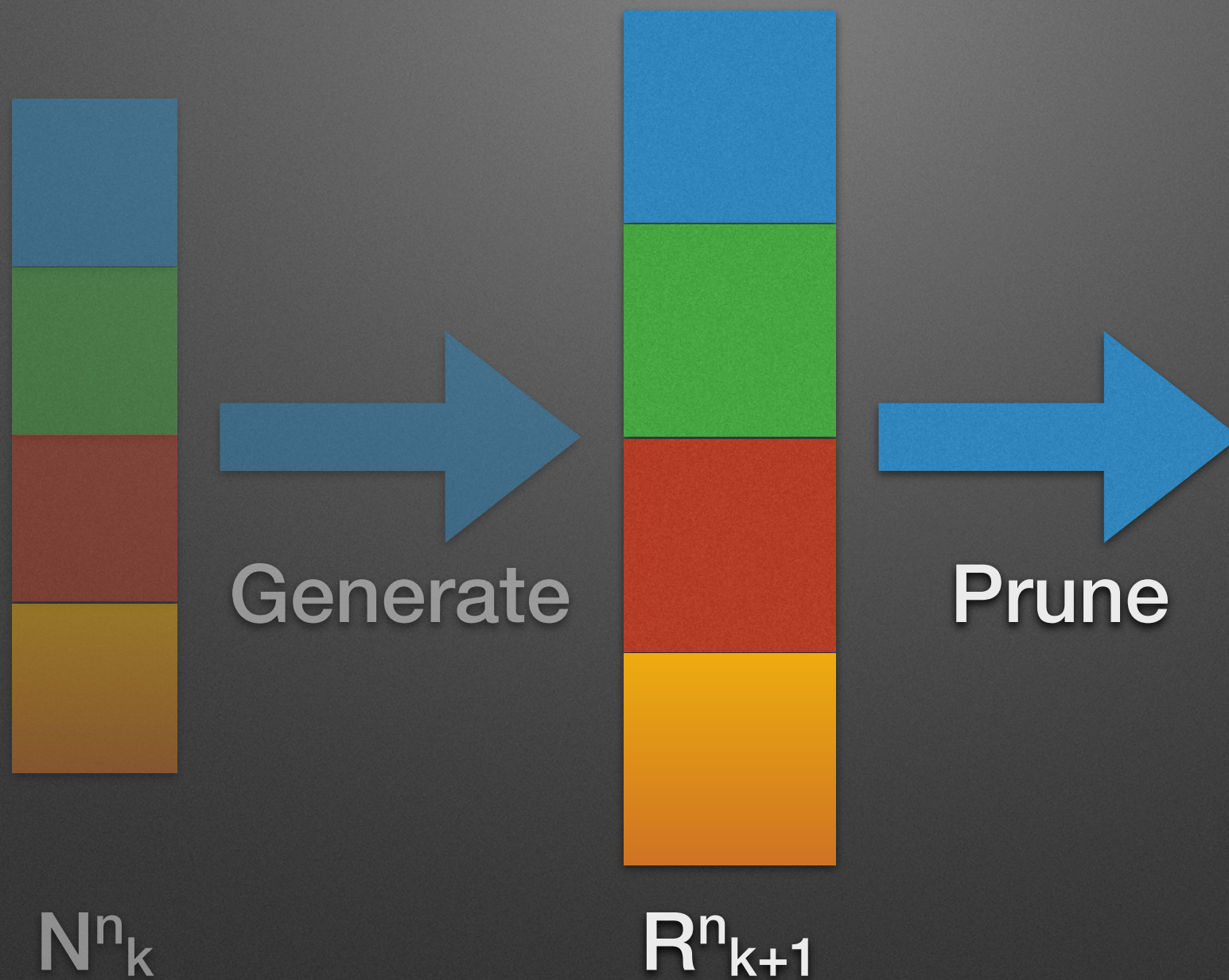
Generate & Prune



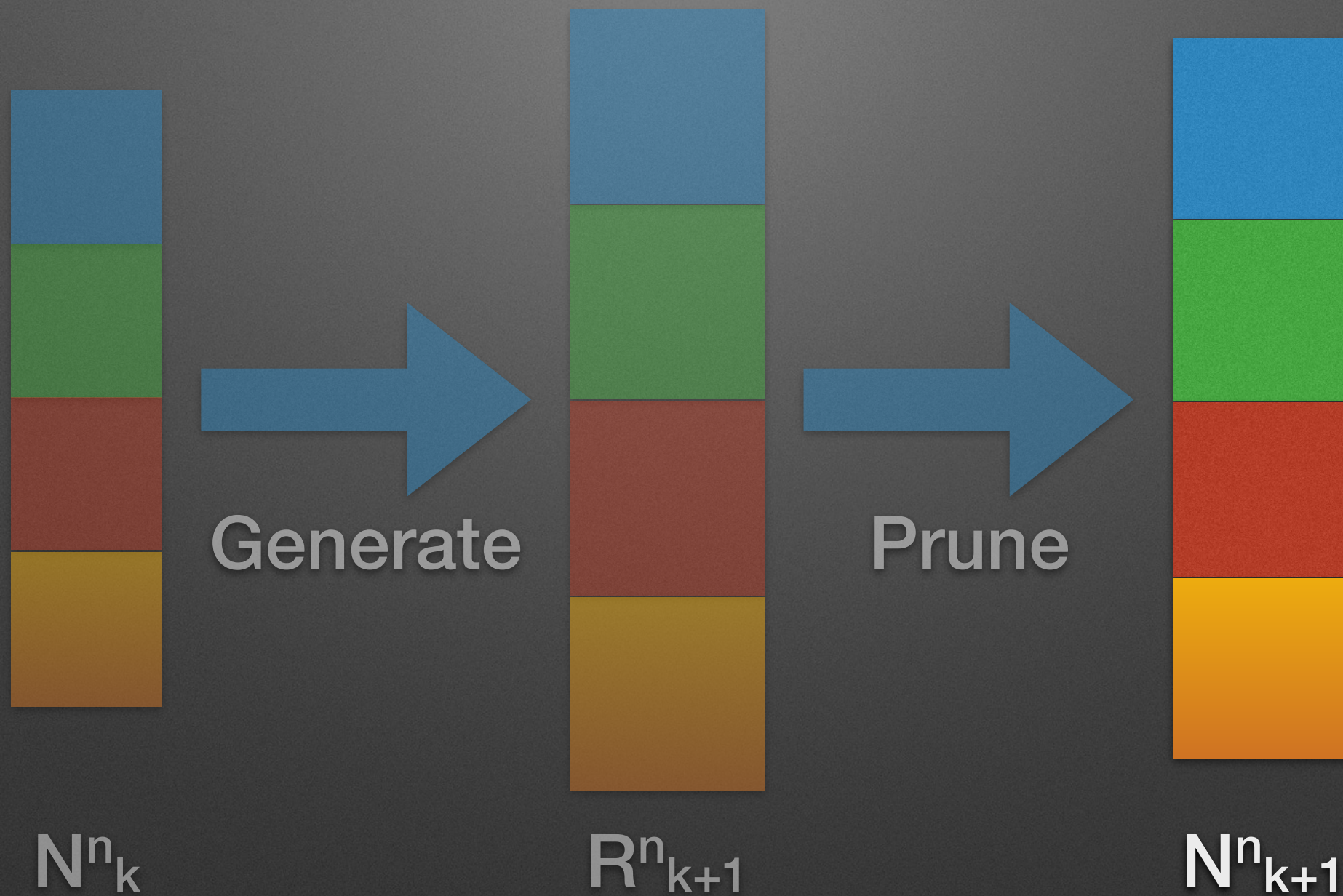
Generate & Prune



Generate & Prune



Generate & Prune



Conclusion

Conclusion

WHAT?

Find optimal size for 9 channels

Conclusion

WHAT?

Find optimal size for 9 channels

HOW?

Reproduce method of the paper

Conclusion

WHAT?

Find optimal size for 9 channels

HOW?

Reproduce method of the paper

EVALUATION CRITERIA?

Result described in the paper

Questions?