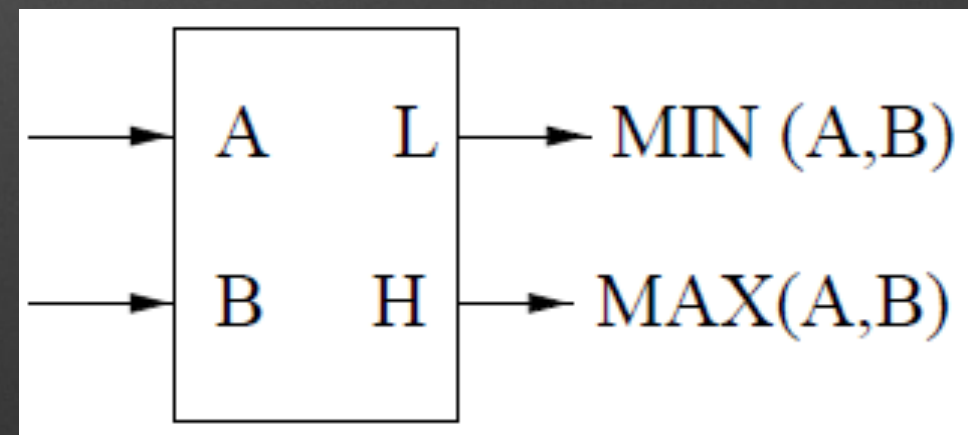
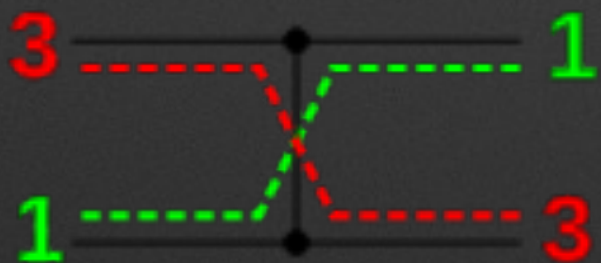
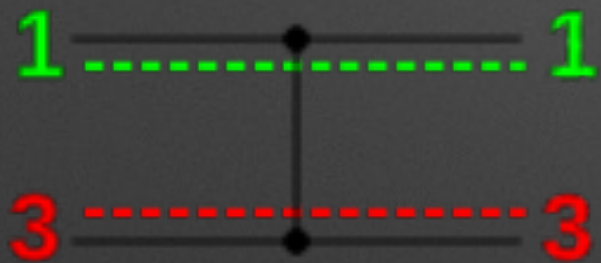
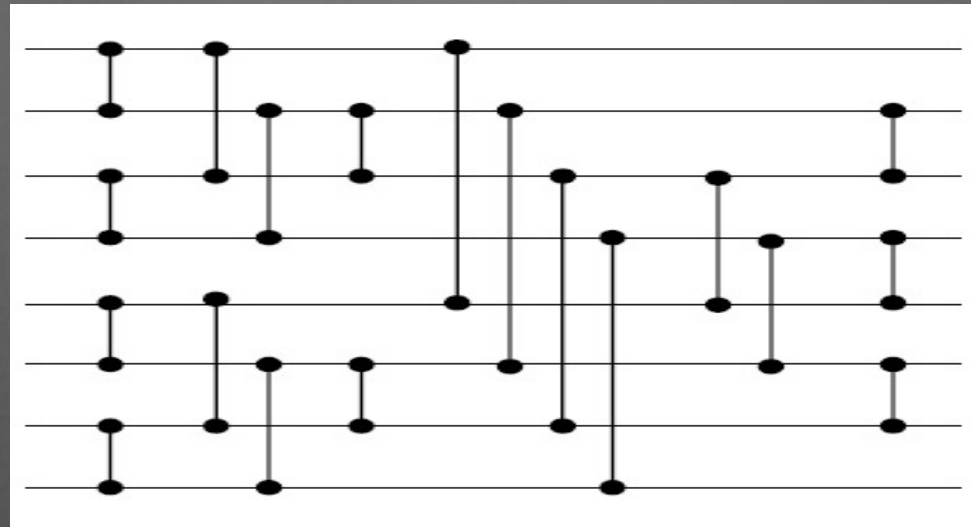


# Sorteernetwerken van Optimale Grootte

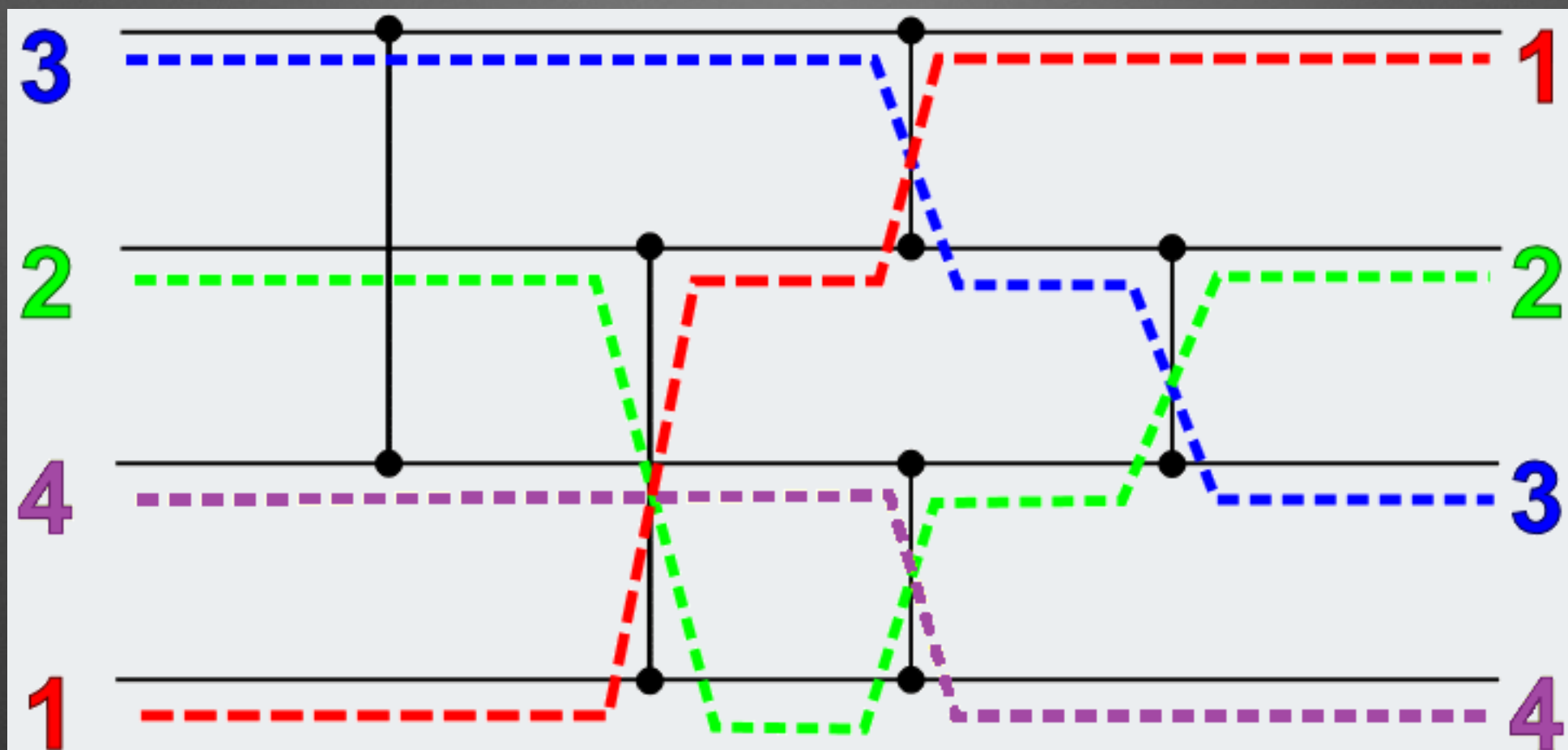
Mathias Dekempeneer  
Vincent Derkinderen

Begeleider: Tom Schrijvers

# Comparator Network



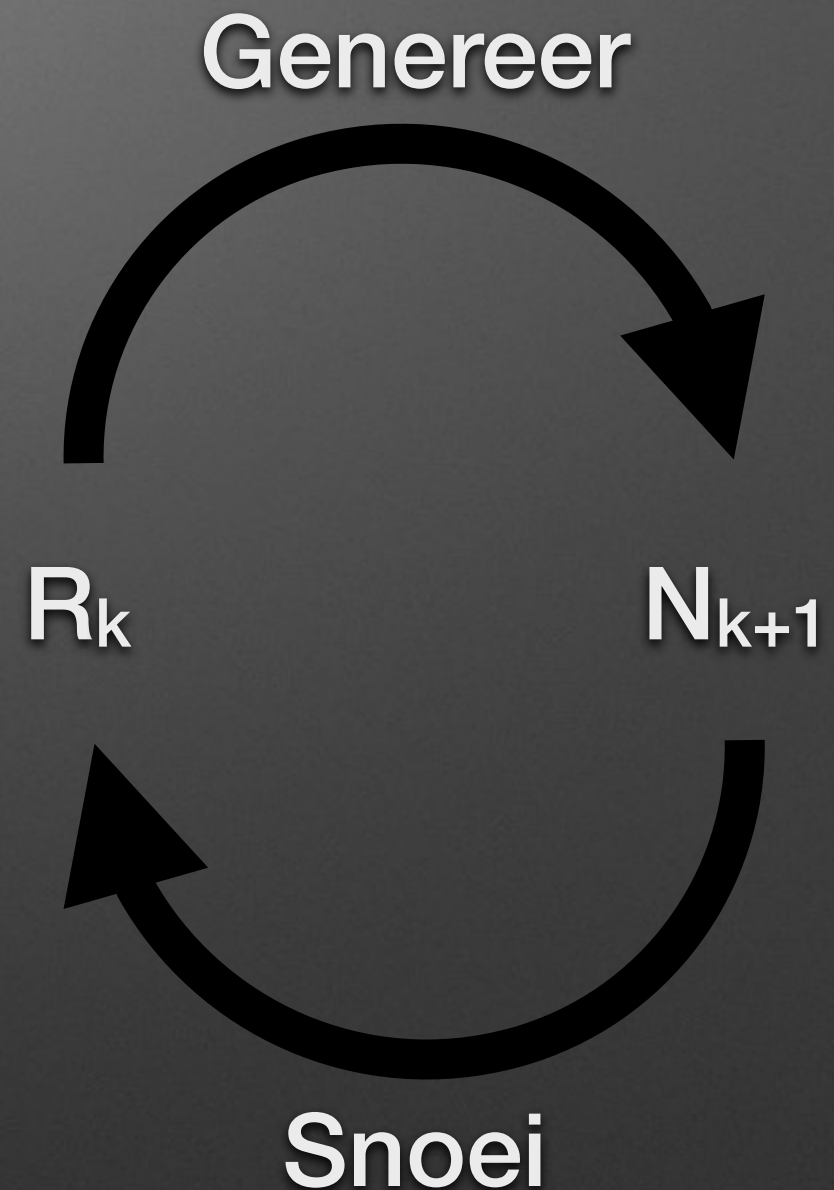
# Sorteernetwerk



TODO Vincent: Paint skills

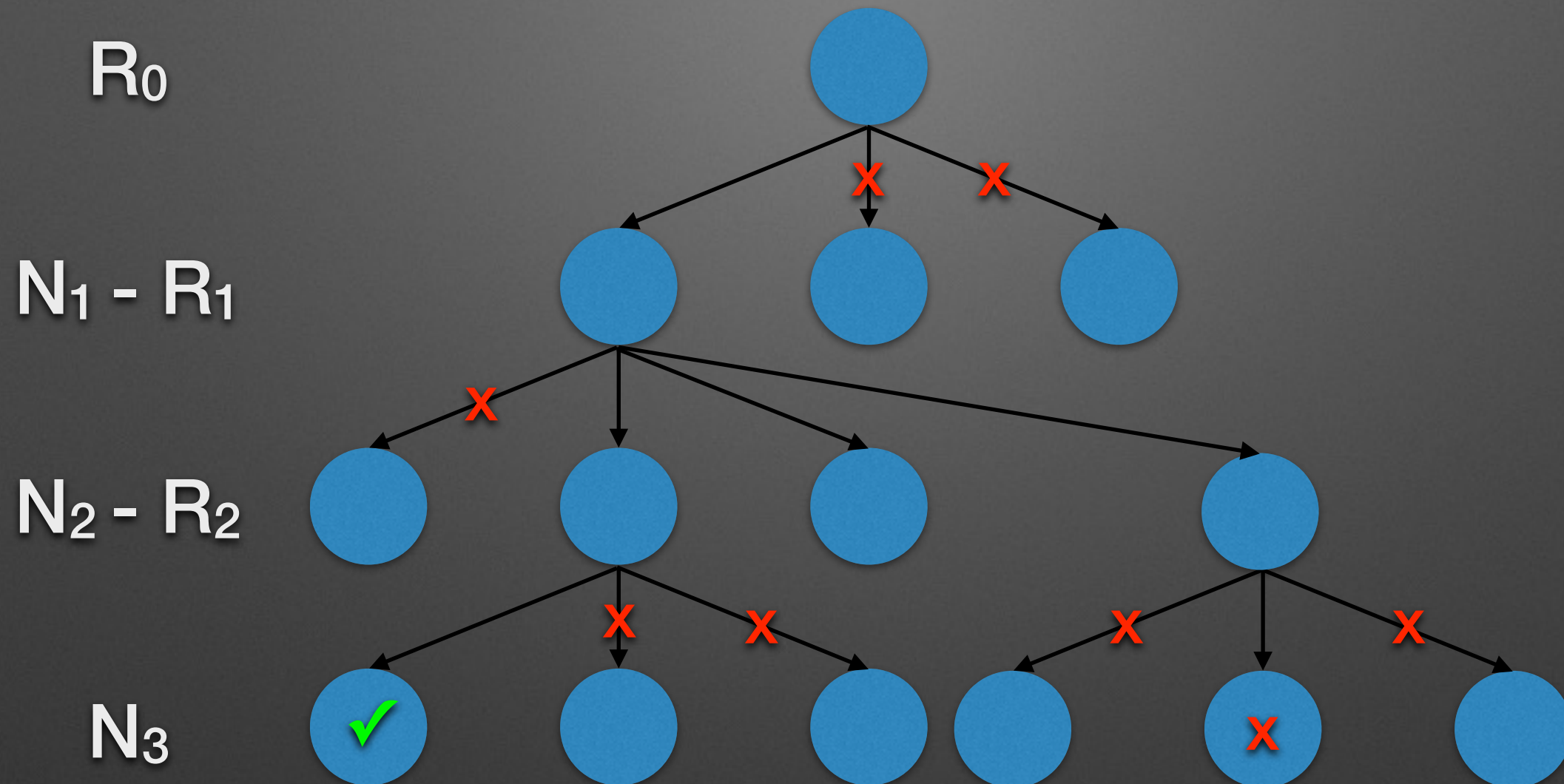
# Genereer & Snoei

- Genereer:  
toevoegen alle mogelijke  
comparatoren
- Snoei:  
subsumes principe





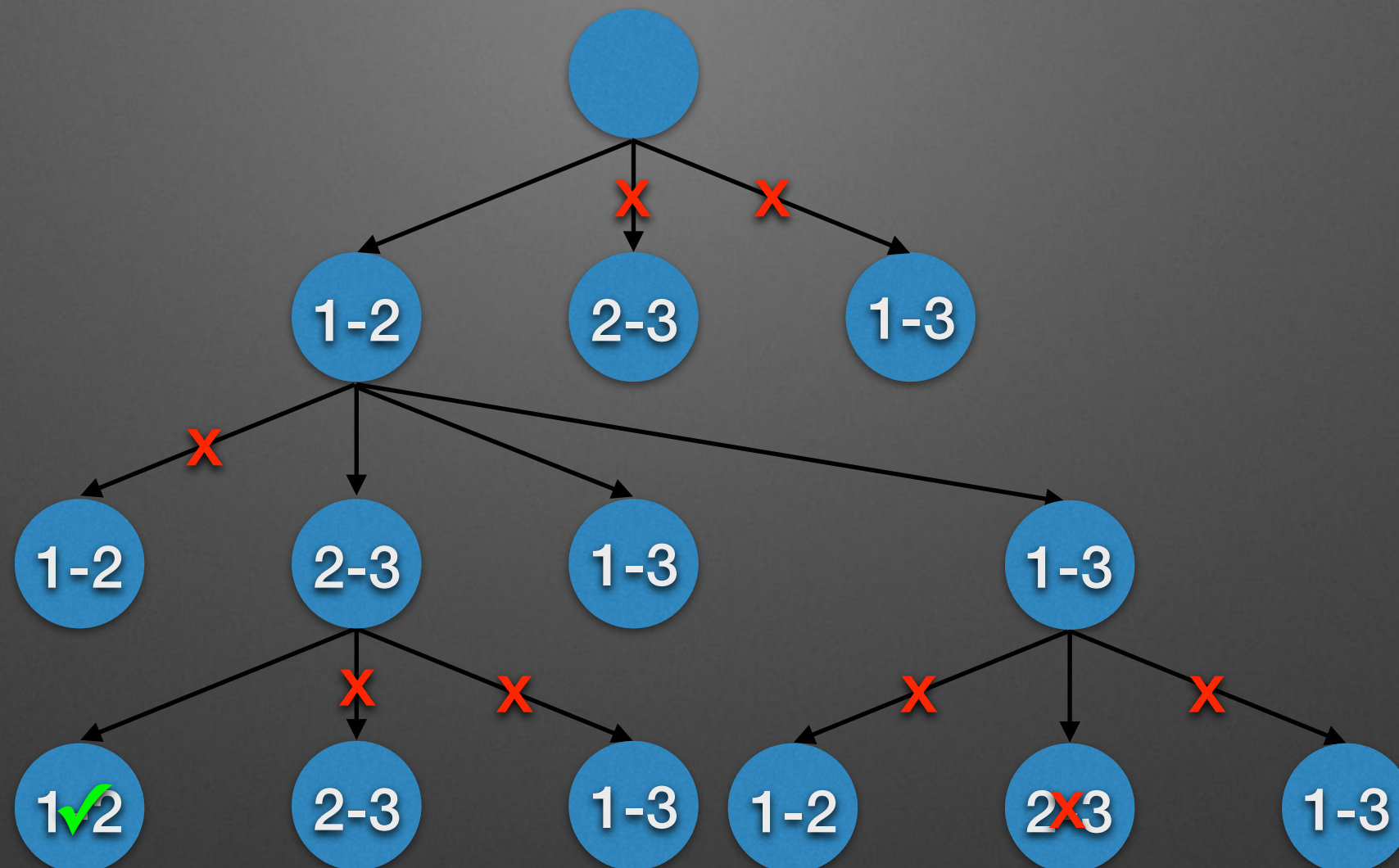
# Generereer & Snoei



# Subsumes

- Beschreven in “TWENTY-FIVE COMPARATORS IS OPTIMAL WHEN SORTING NINE INPUTS (AND TWENTY-NINE FOR TEN)”  
(*Codish et al.*)
- $C_a$  subsumes  $C_b \Leftrightarrow C_a$  wordt gedekt door  $C_b$
- Verwijder de netwerken die anderen dekken

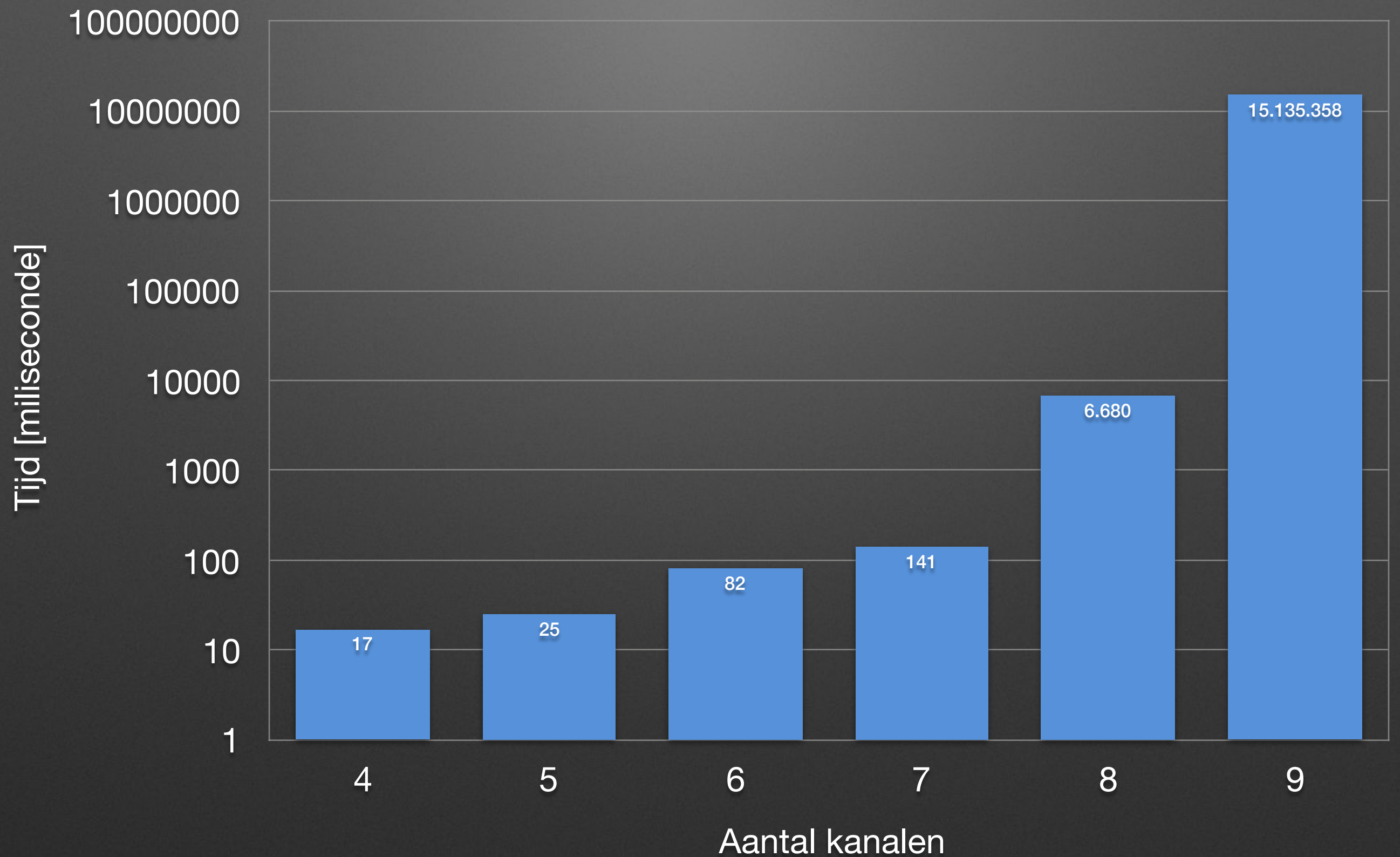
# Generereer & Snoei



Gevonden sorteernetwerk: (1-2) (2-3) (1-2)

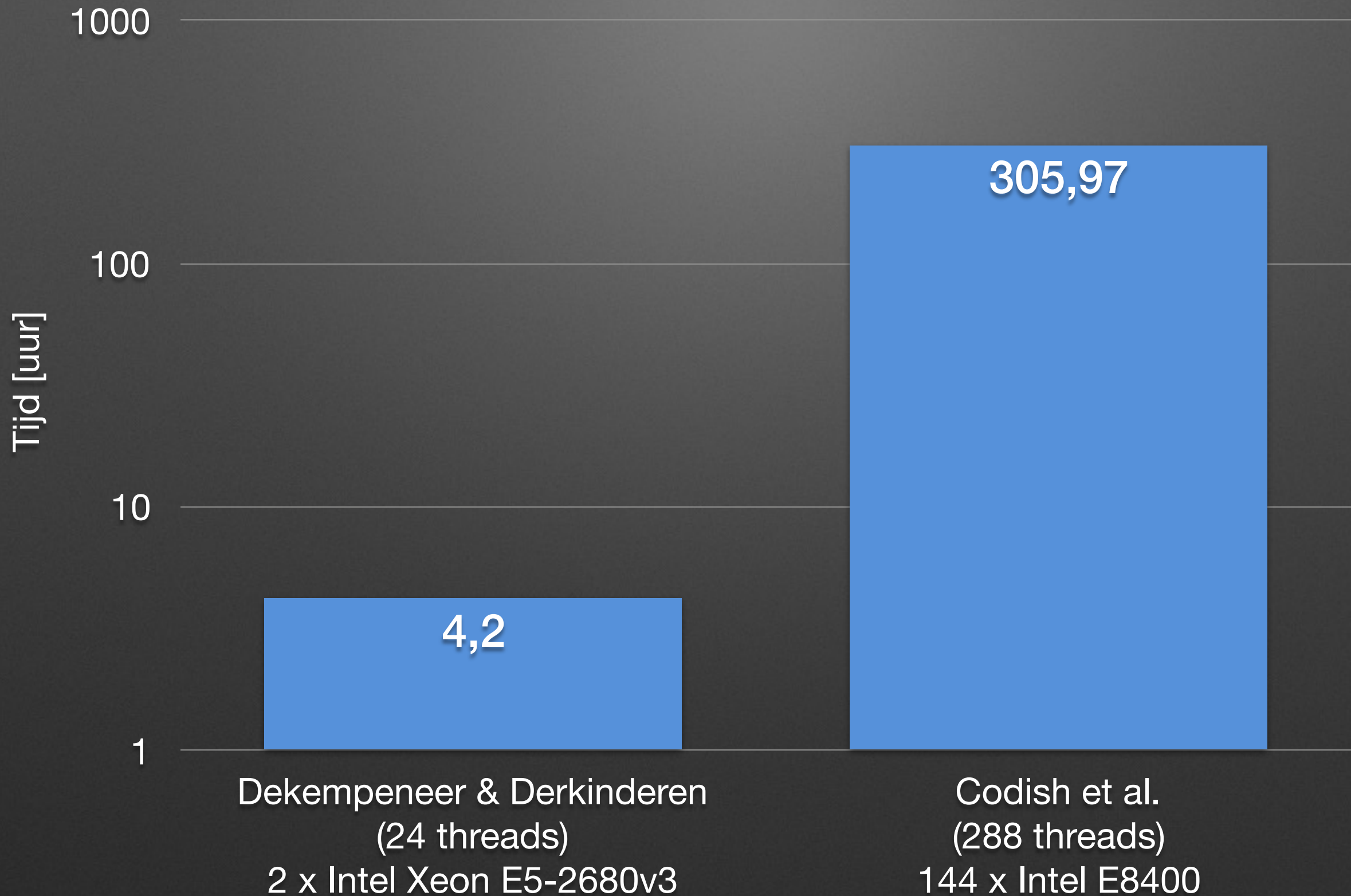


# Resultaten





# Resultaten



# Conclusie

## WAT?

Resultaten van de paper gereproduceerd

## WAT VOLGT?

Bekijken reden van verbetering

Implementatie voor meerdere nodes

Verbeteringen voor het algoritme zoeken

