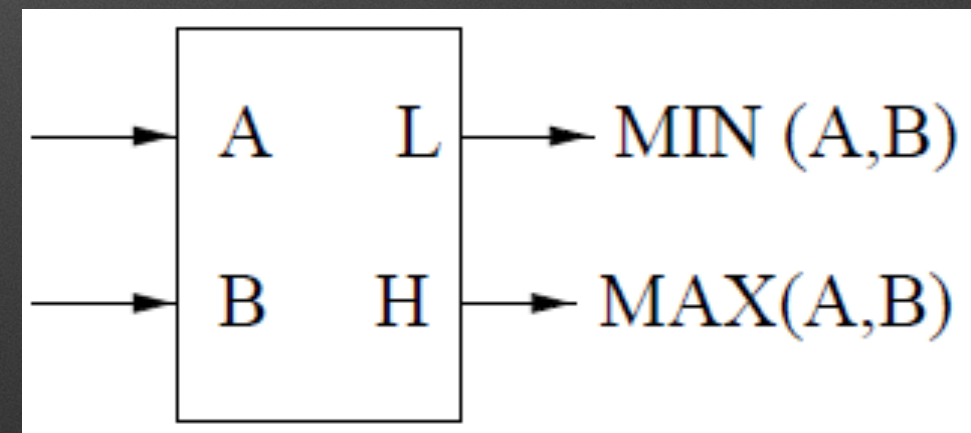
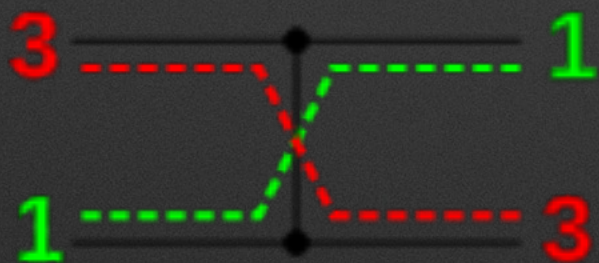
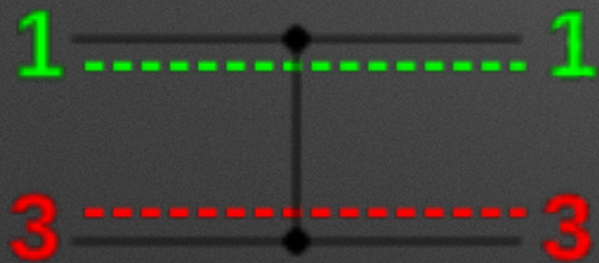
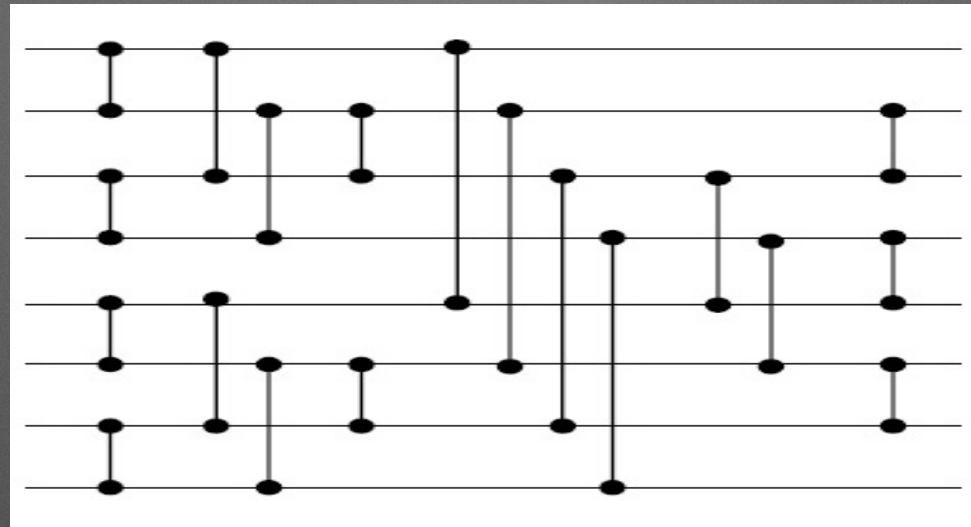


Sorteernetwerken van Optimale Grootte

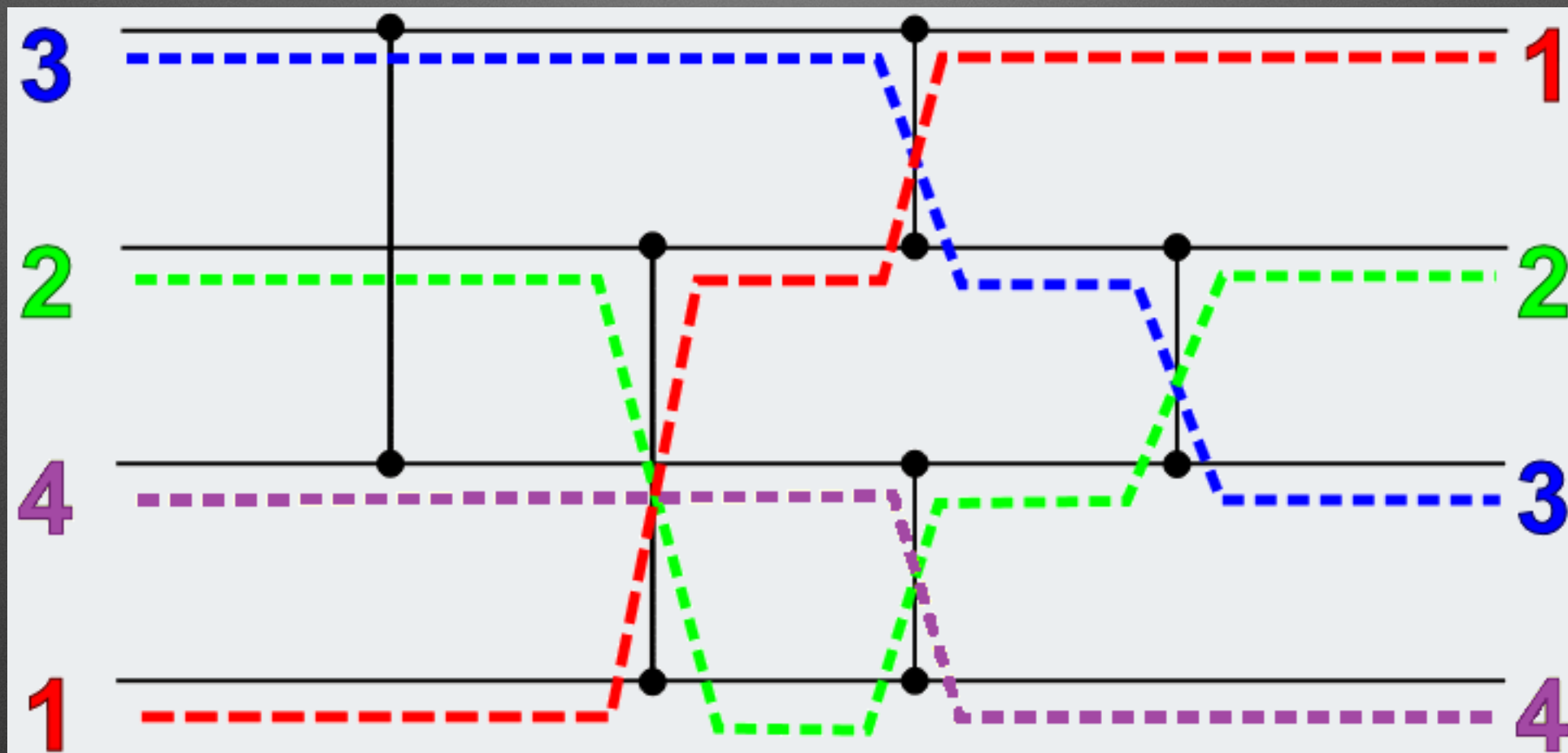
Mathias Dekempeneer
Vincent Derkinderen

Begeleider: Tom Schrijvers

Comparator Network



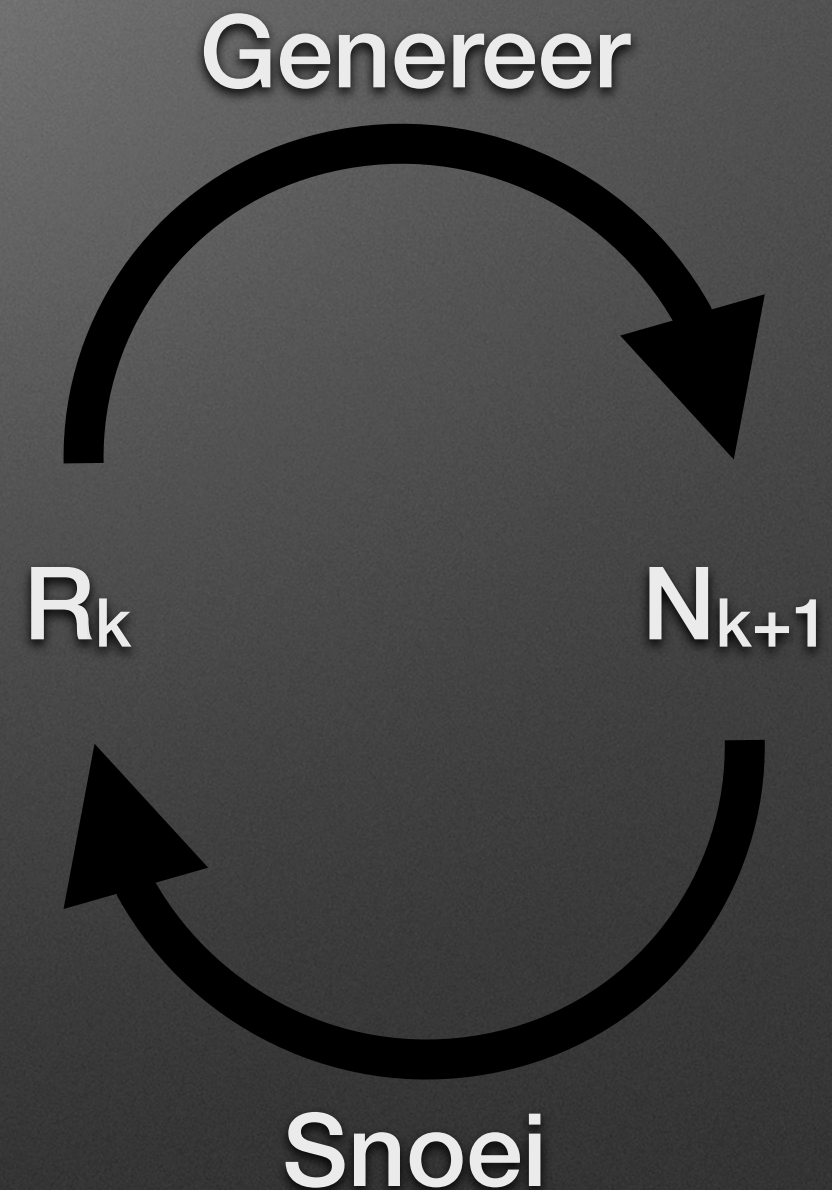
Sorteernetwerk



TODO Vincent: Paint skills

Genereer & Snoei

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



Generereer & Snoei

R_0

$N_1 - R_1$

$N_2 - R_2$

N_3

Generereer & Snoei

R_0



$N_1 - R_1$

$N_2 - R_2$

N_3

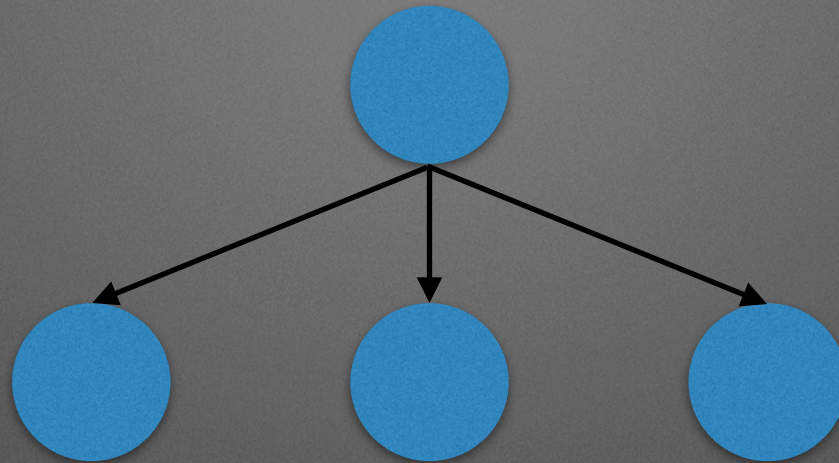
Generereer & Snoei

R_0

$N_1 - R_1$

$N_2 - R_2$

N_3



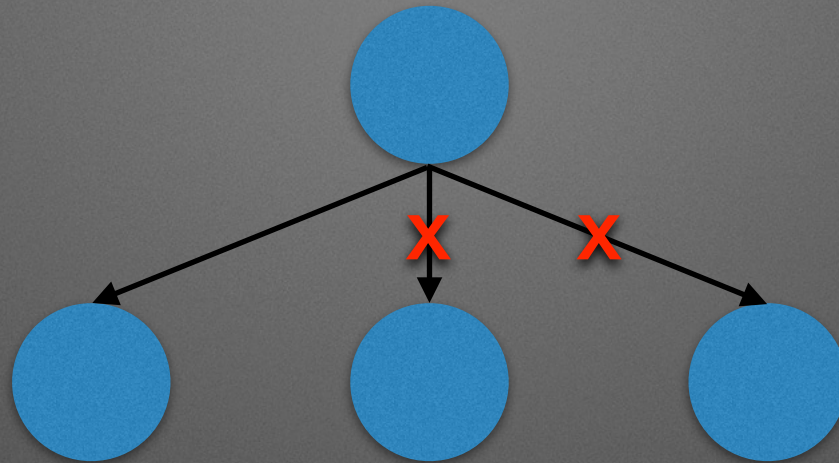
Generereer & Snoei

R_0

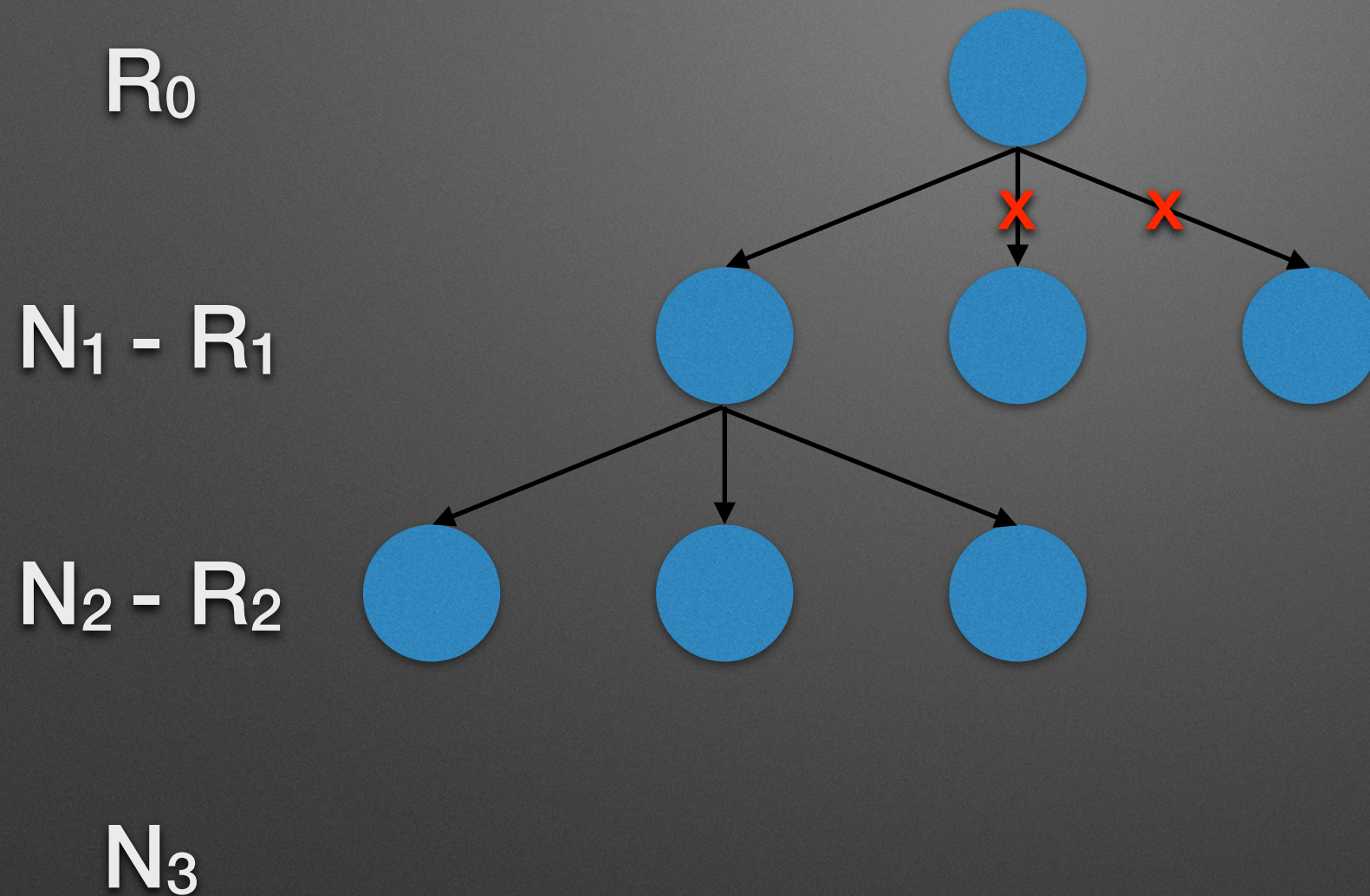
$N_1 - R_1$

$N_2 - R_2$

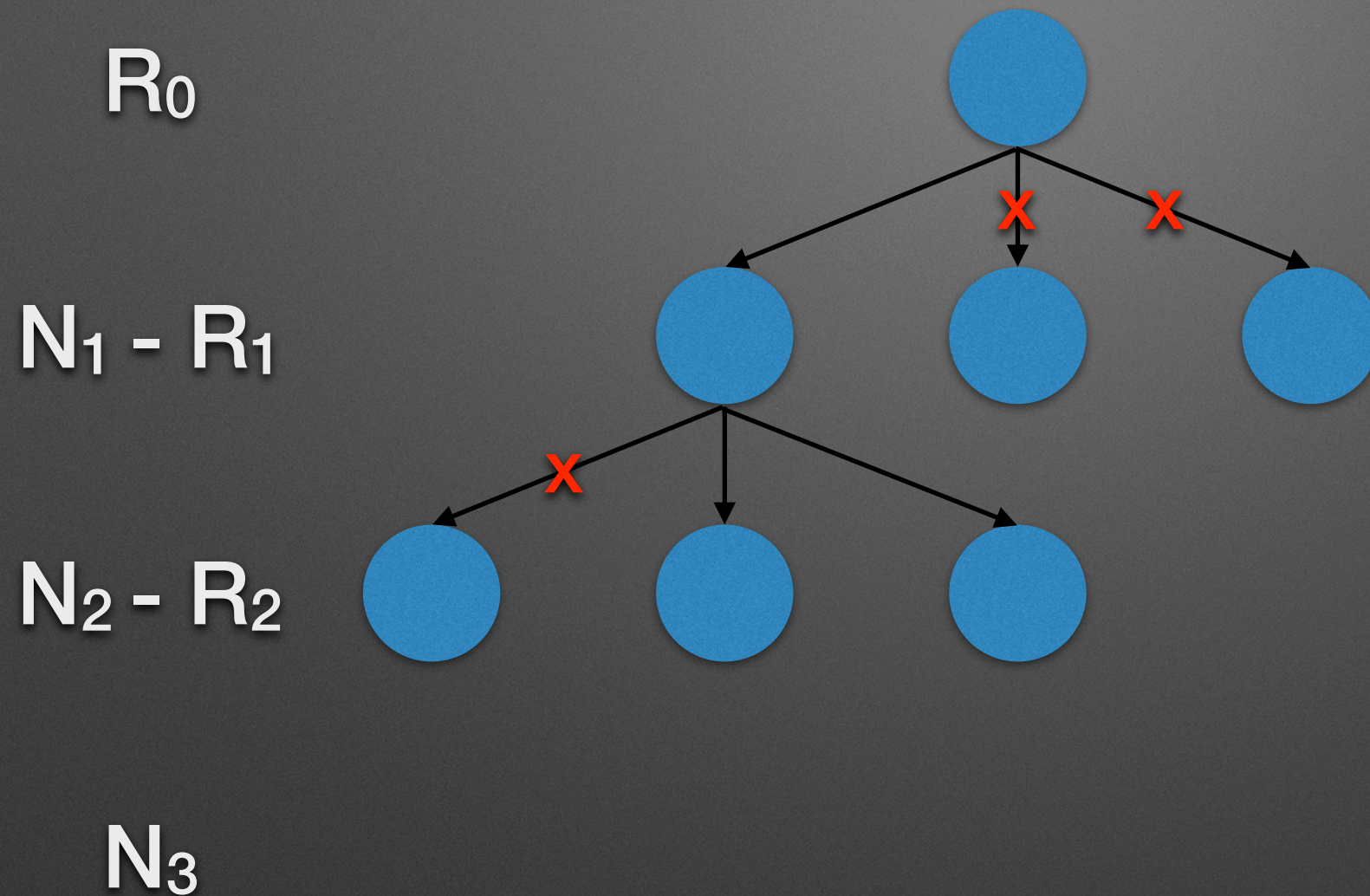
N_3



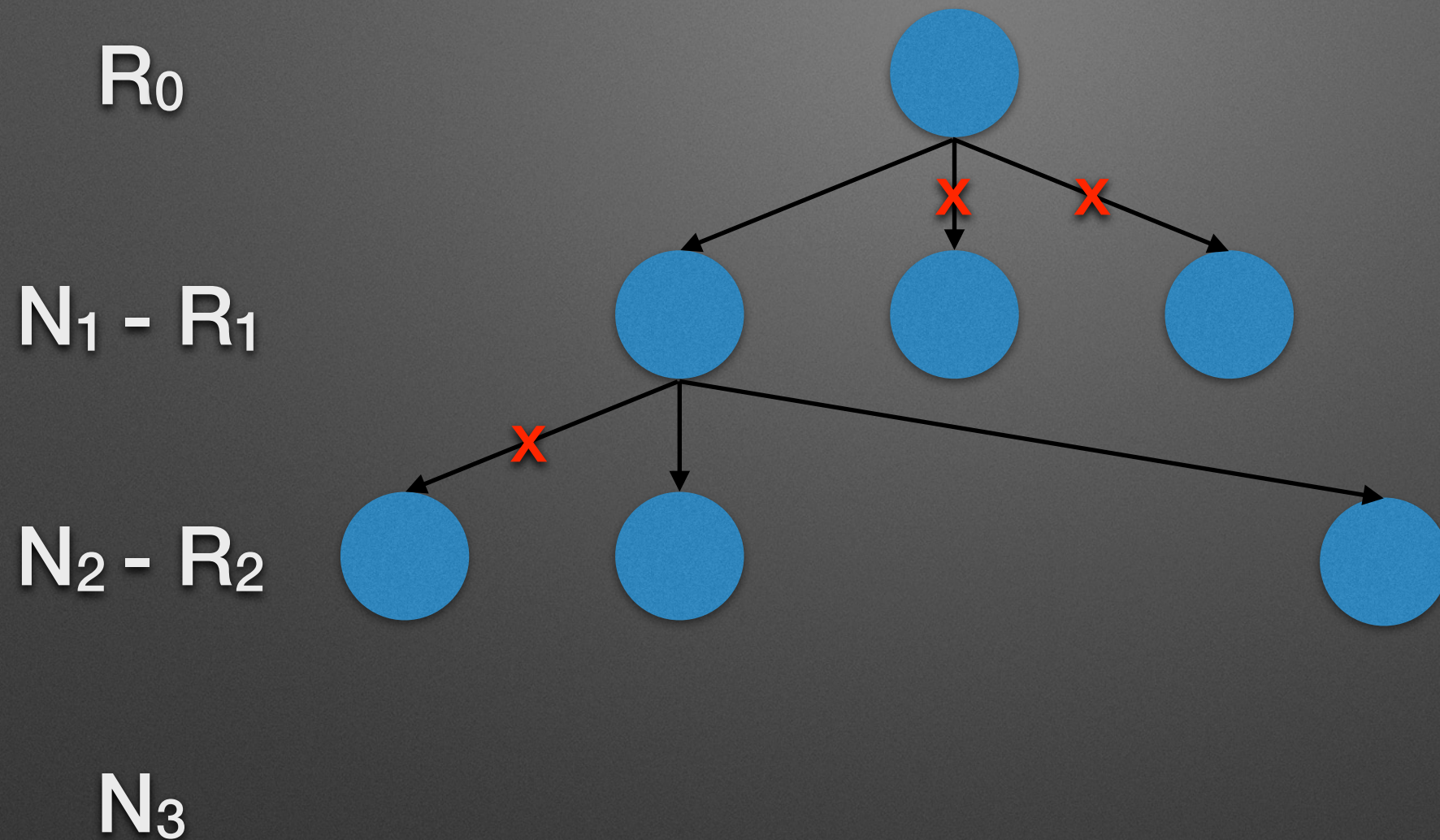
Generereer & Snoei



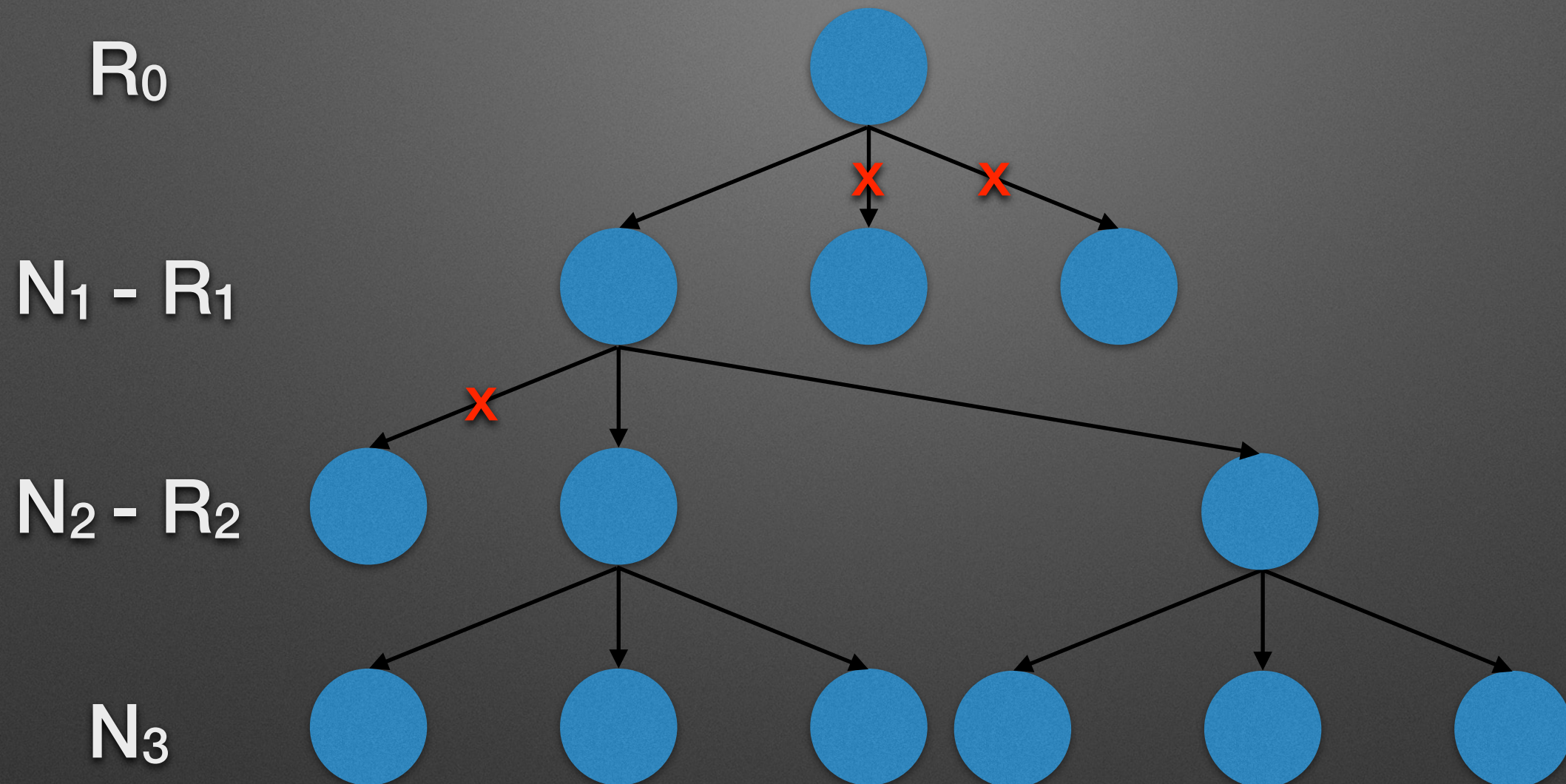
Generereer & Snoei



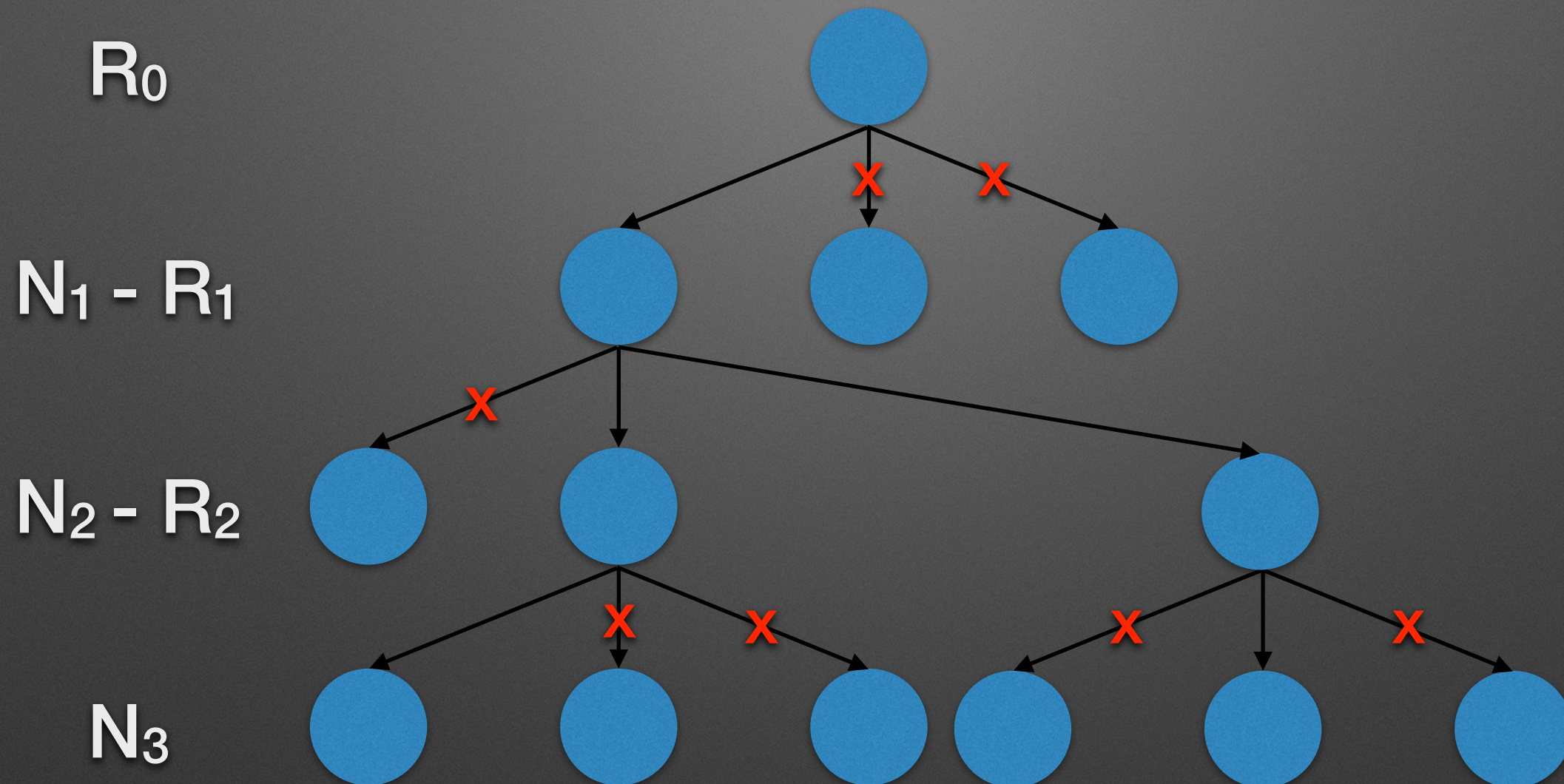
Generereer & Snoei



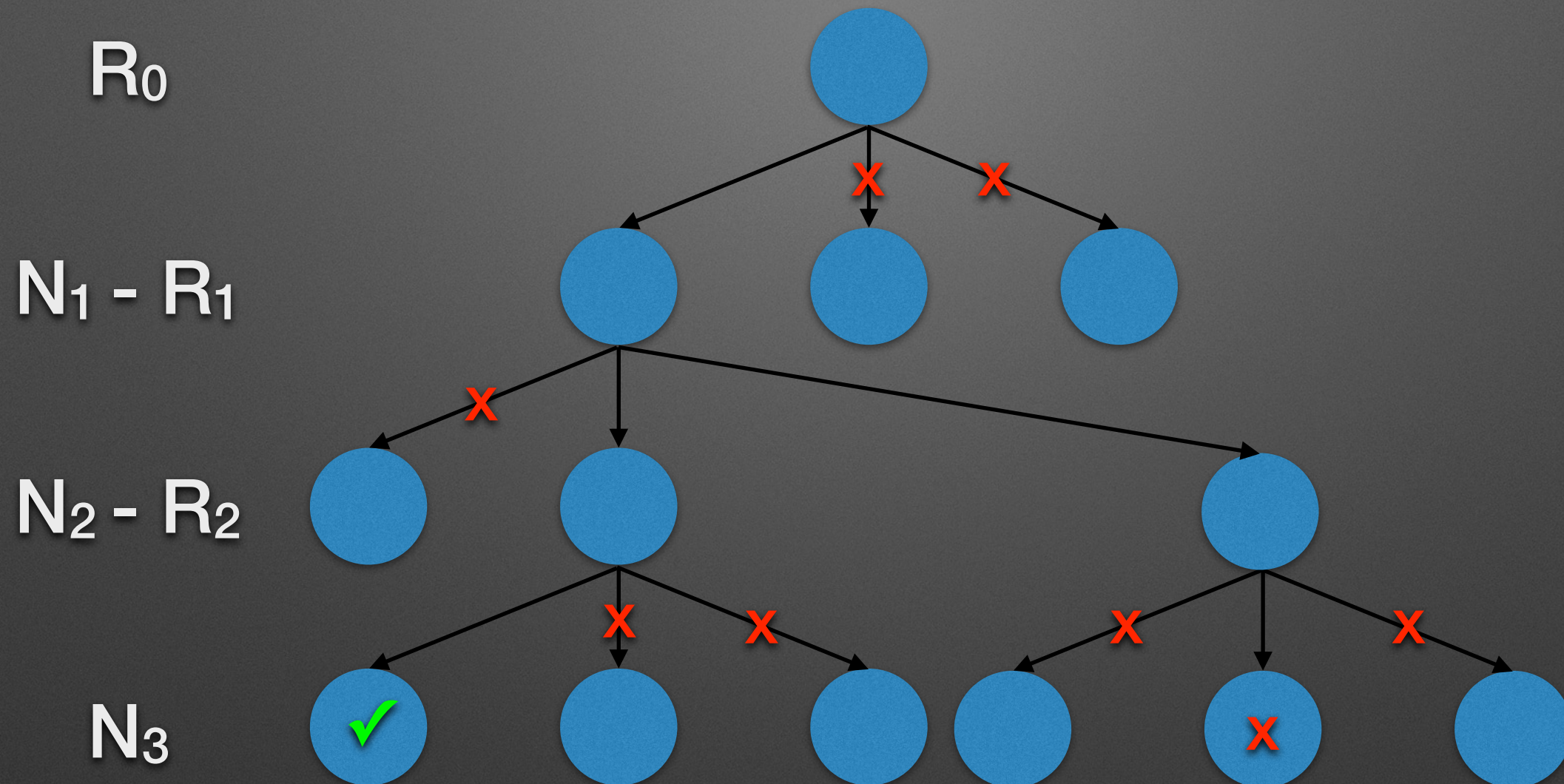
Generereer & Snoei



Generereer & Snoei



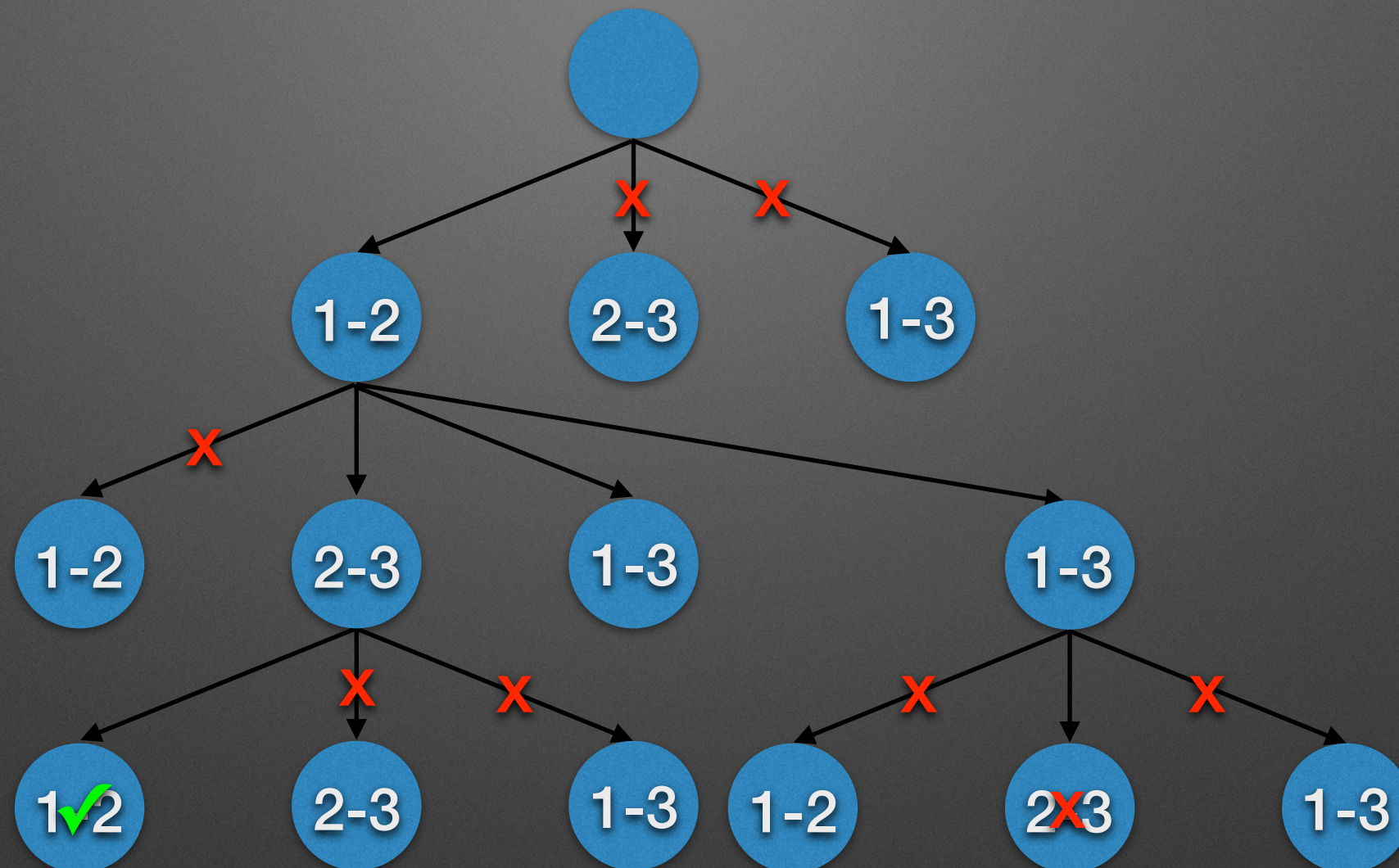
Generereer & Snoei



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

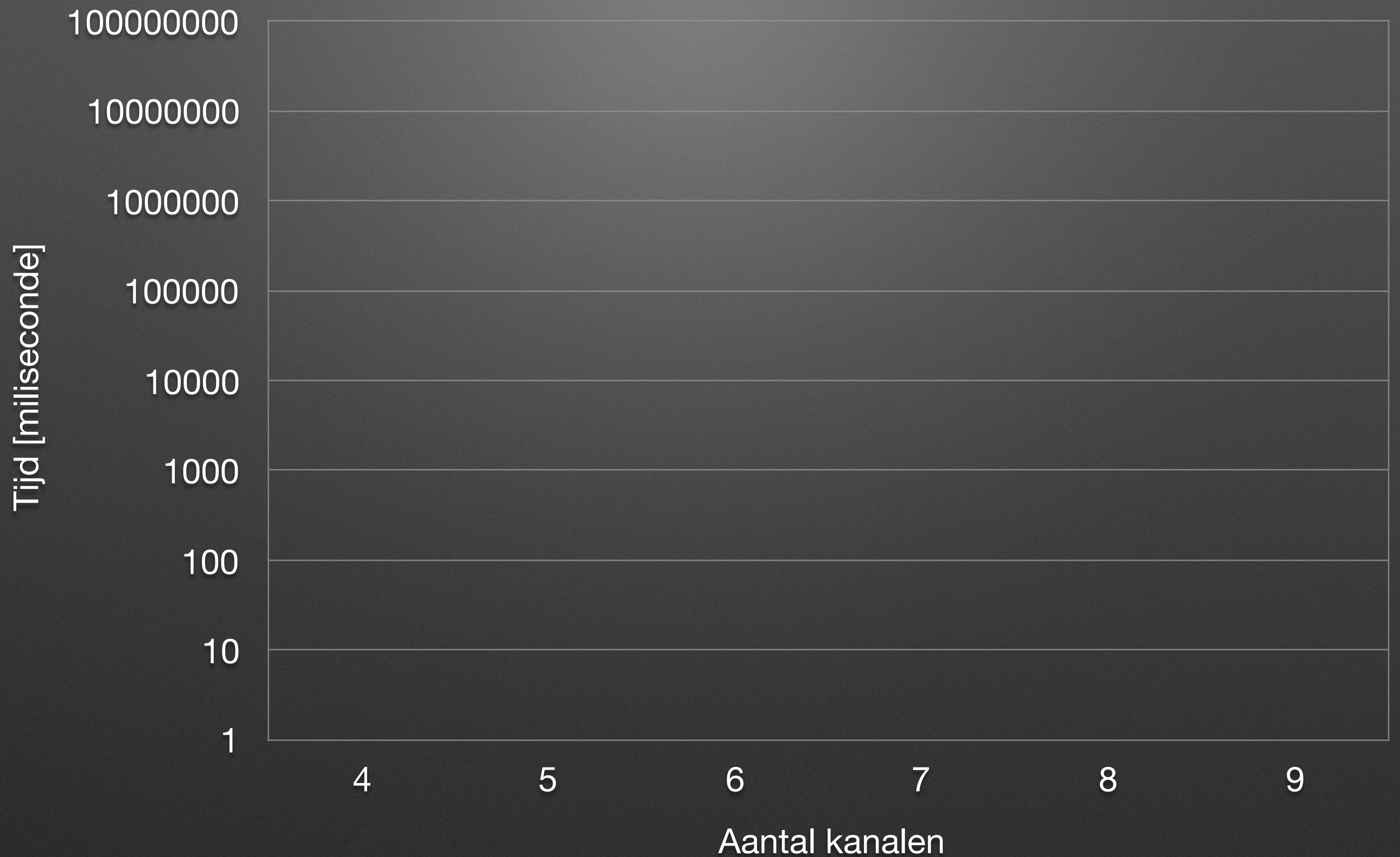
Genereer & Snoei



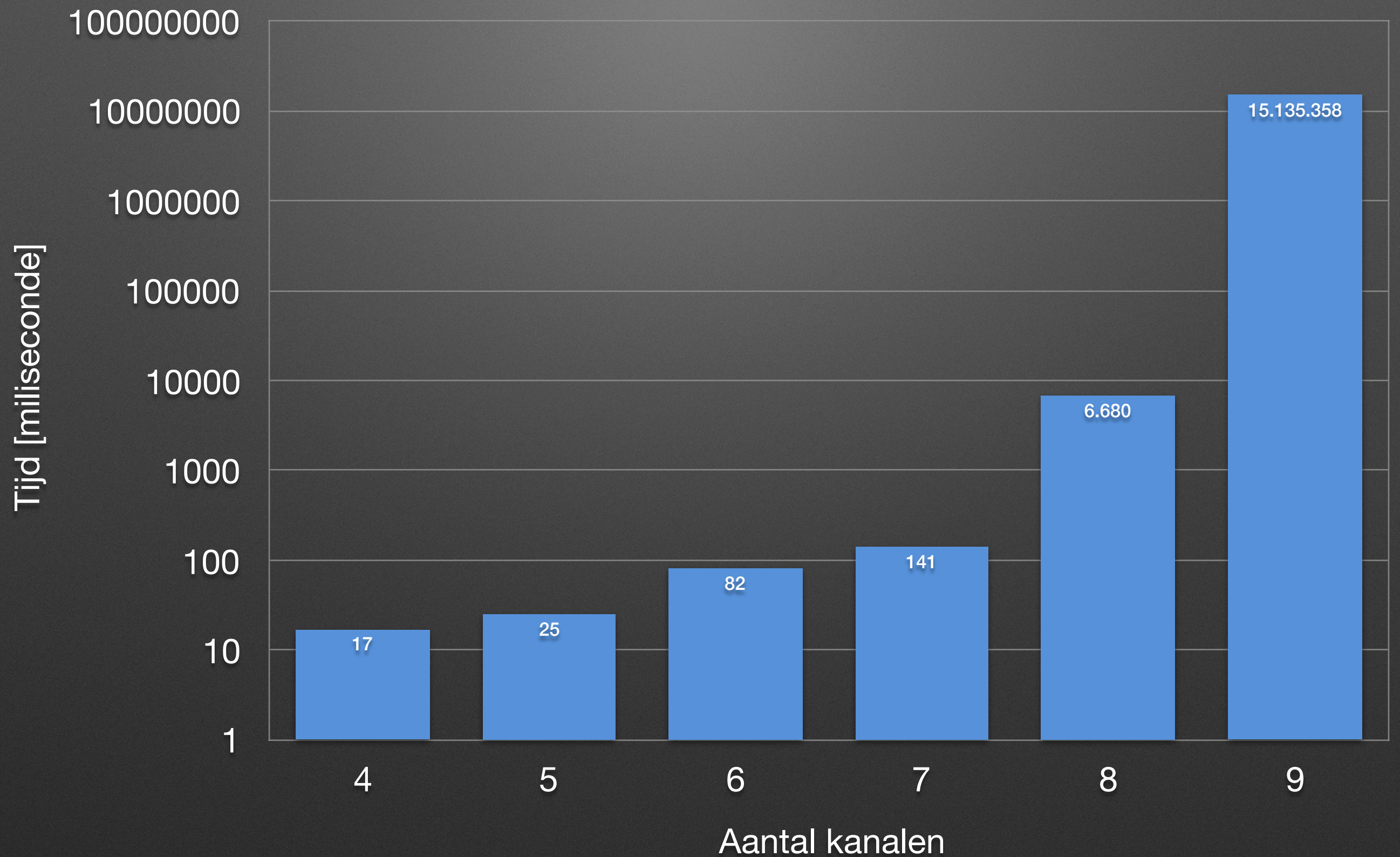
Gevonden sorteernetwerk: (1-2) (2-3) (1-2)

Resultaten

Resultaten

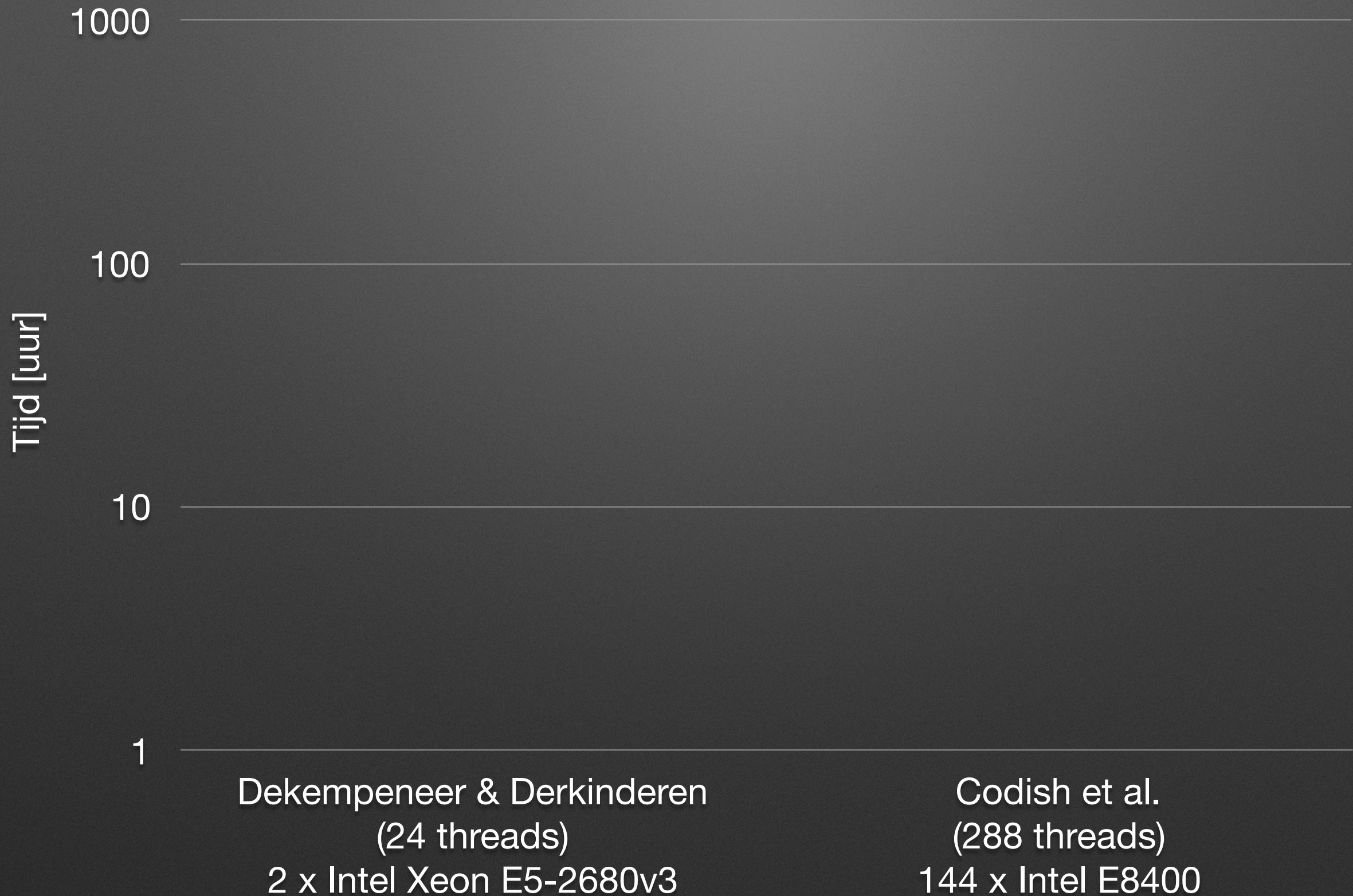


Resultaten

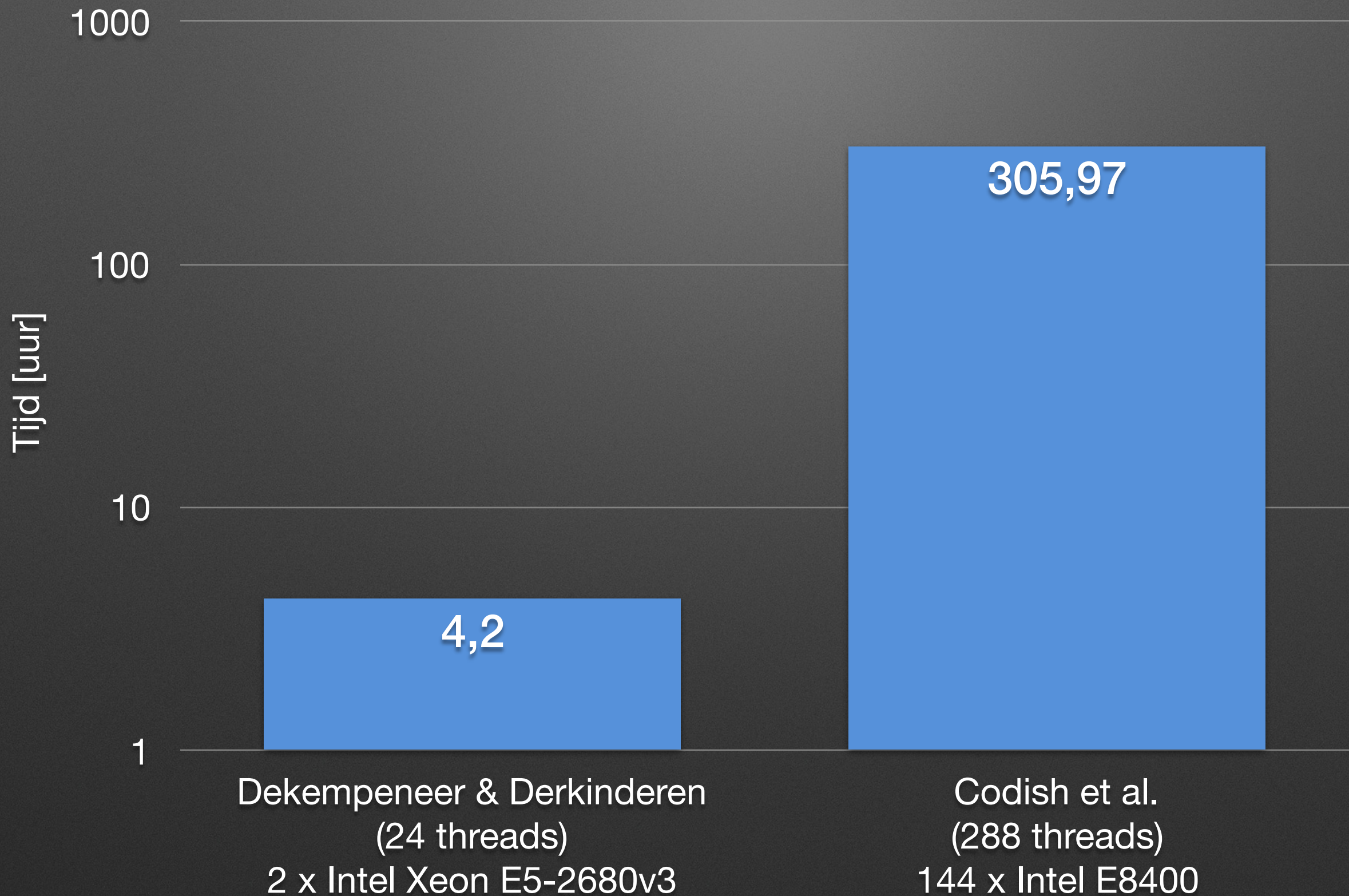


Resultaten

Resultaten



Resultaten



Conclusie

Conclusie

WAT?

Resultaten van de paper gereproduceerd

Conclusie

WAT?

Resultaten van de paper gereproduceerd

WAT VOLGT?

Bekijken reden van verbetering

Implementatie voor meerdere nodes

Verbeteringen voor het algoritme zoeken