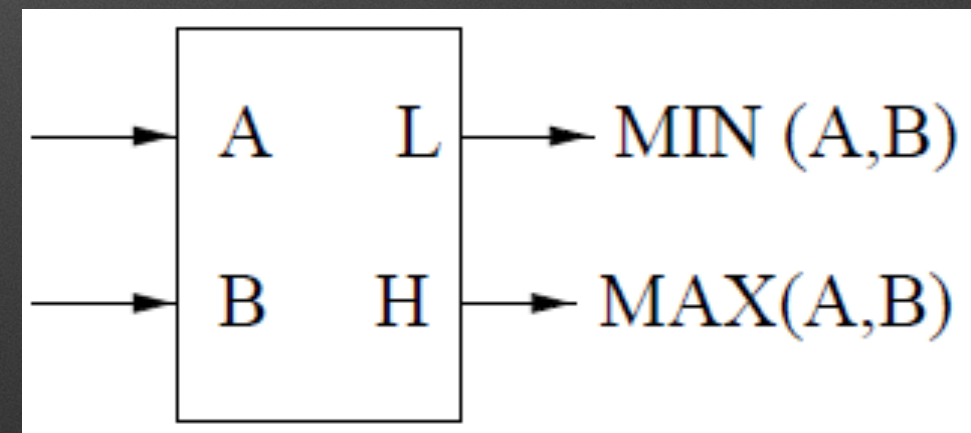
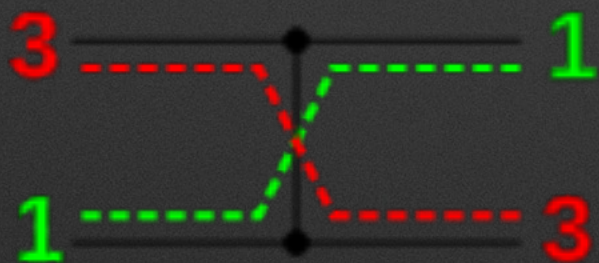
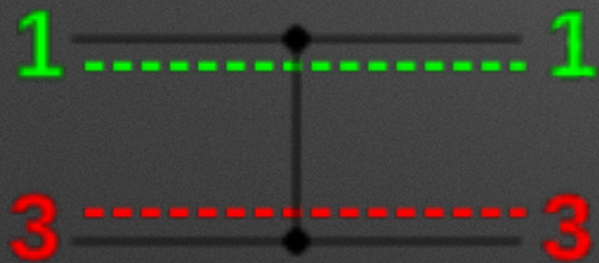
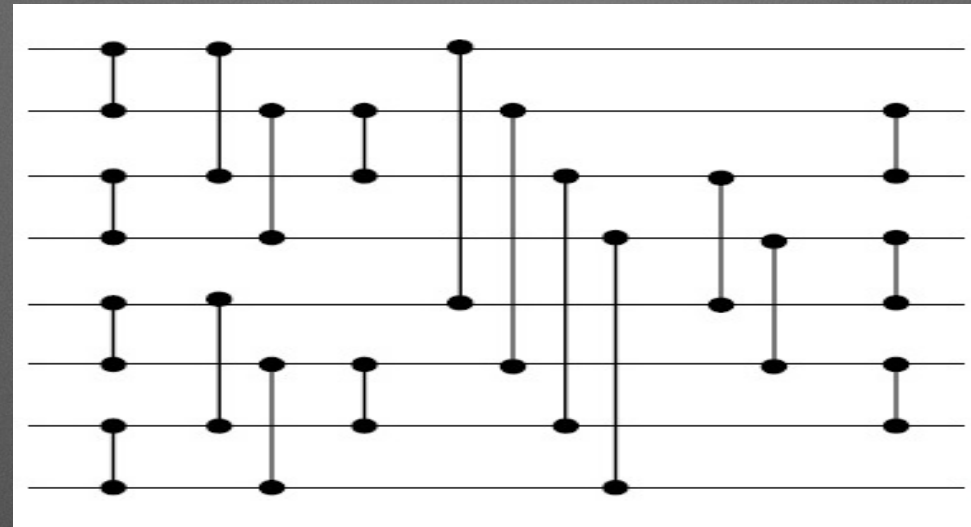


Sorteernetwerken van Optimale Grootte

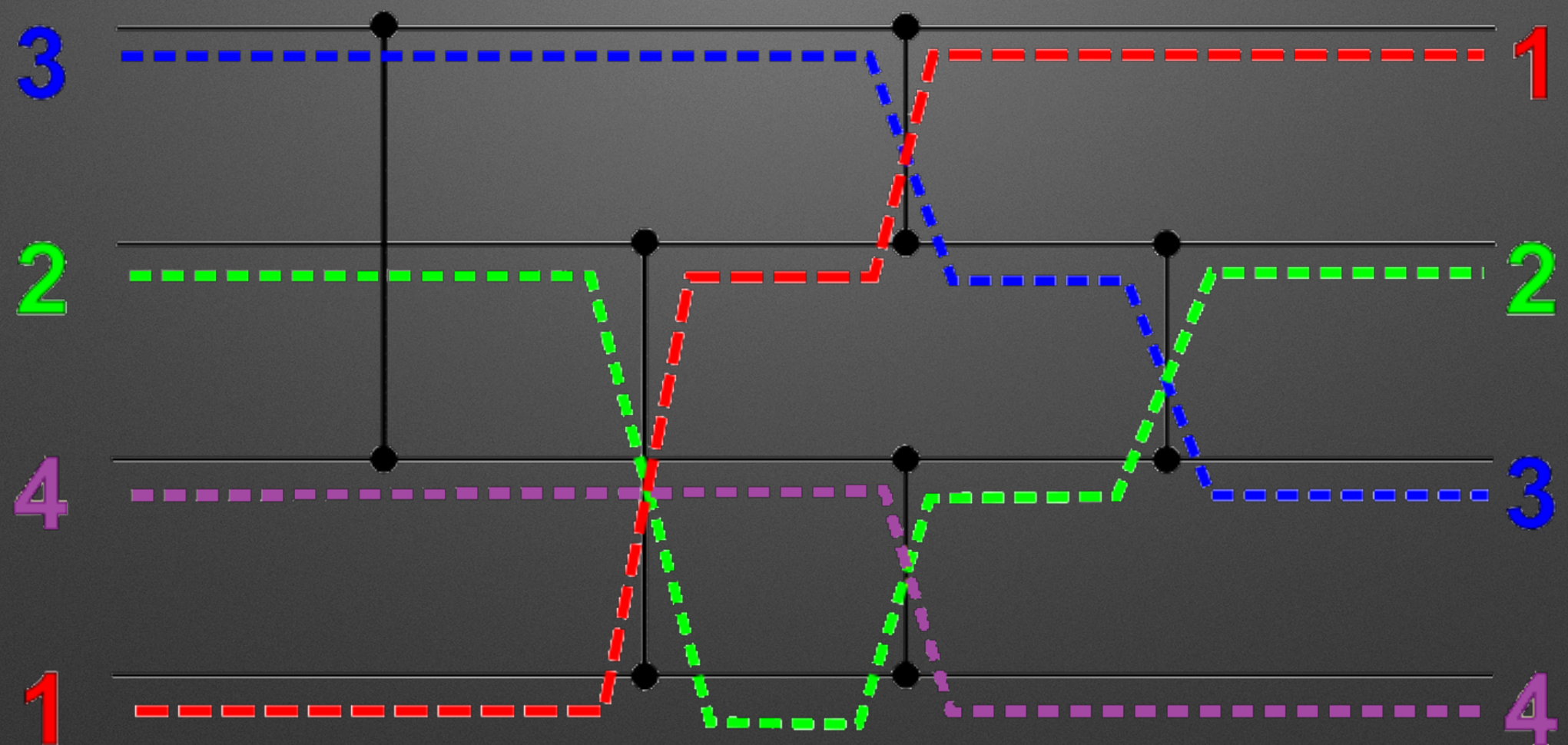
Mathias Dekempeneer
Vincent Derkinderen

Begeleider: Tom Schrijvers

Comparator Network



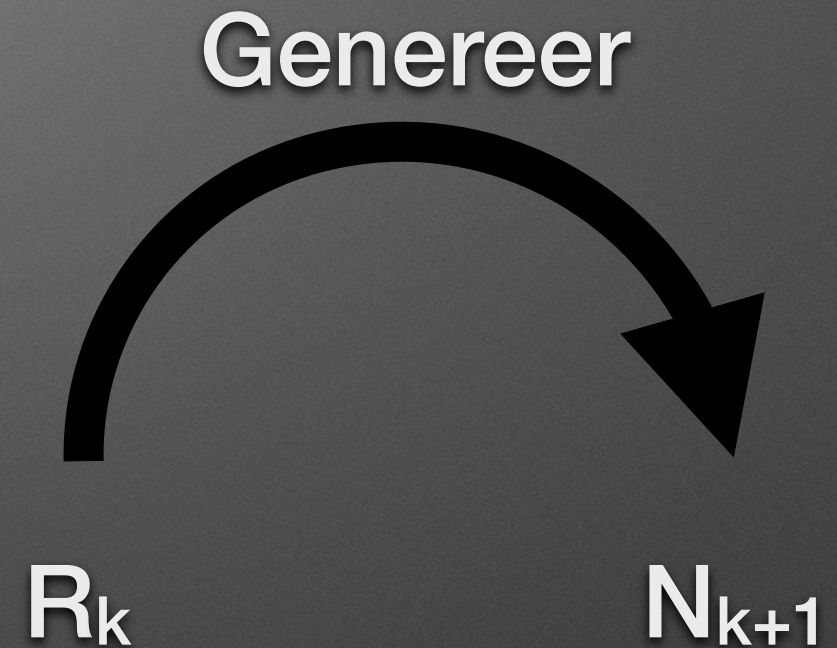
Sorteernetwerk



Genereer & Snoei

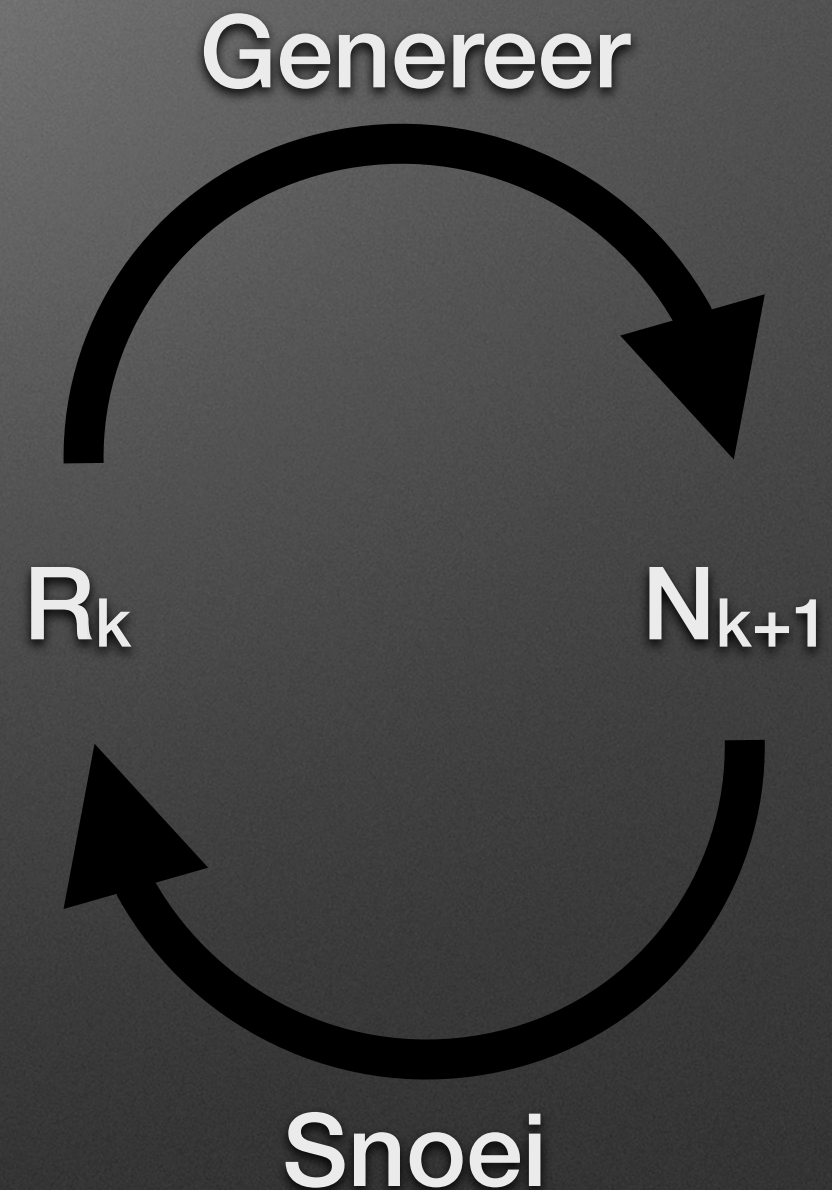
Genereer & Snoei

- Genereer:
toevoegen alle mogelijke
comparatoren



Genereer & Snoei

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



Genereer & Snoei

Genereer & Snoei

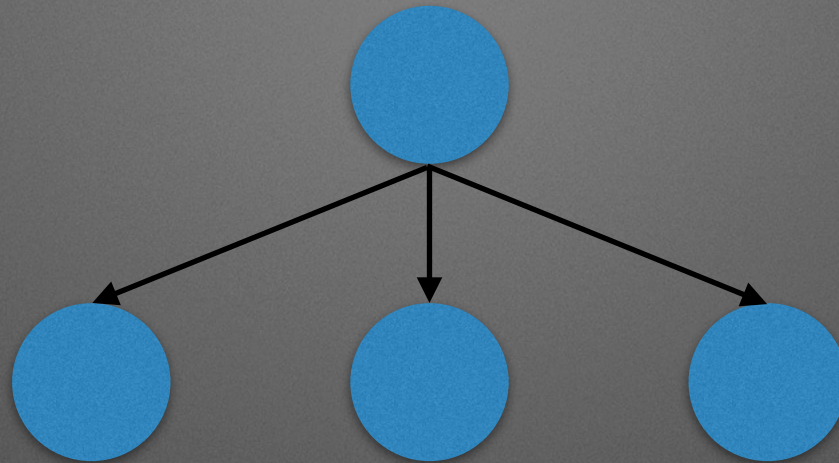
R_0



Generereer & Snoei

R_0

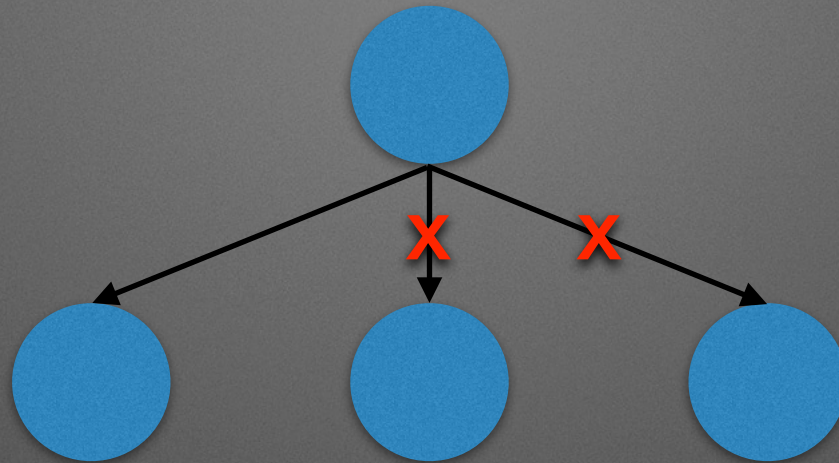
$N_1 - R_1$



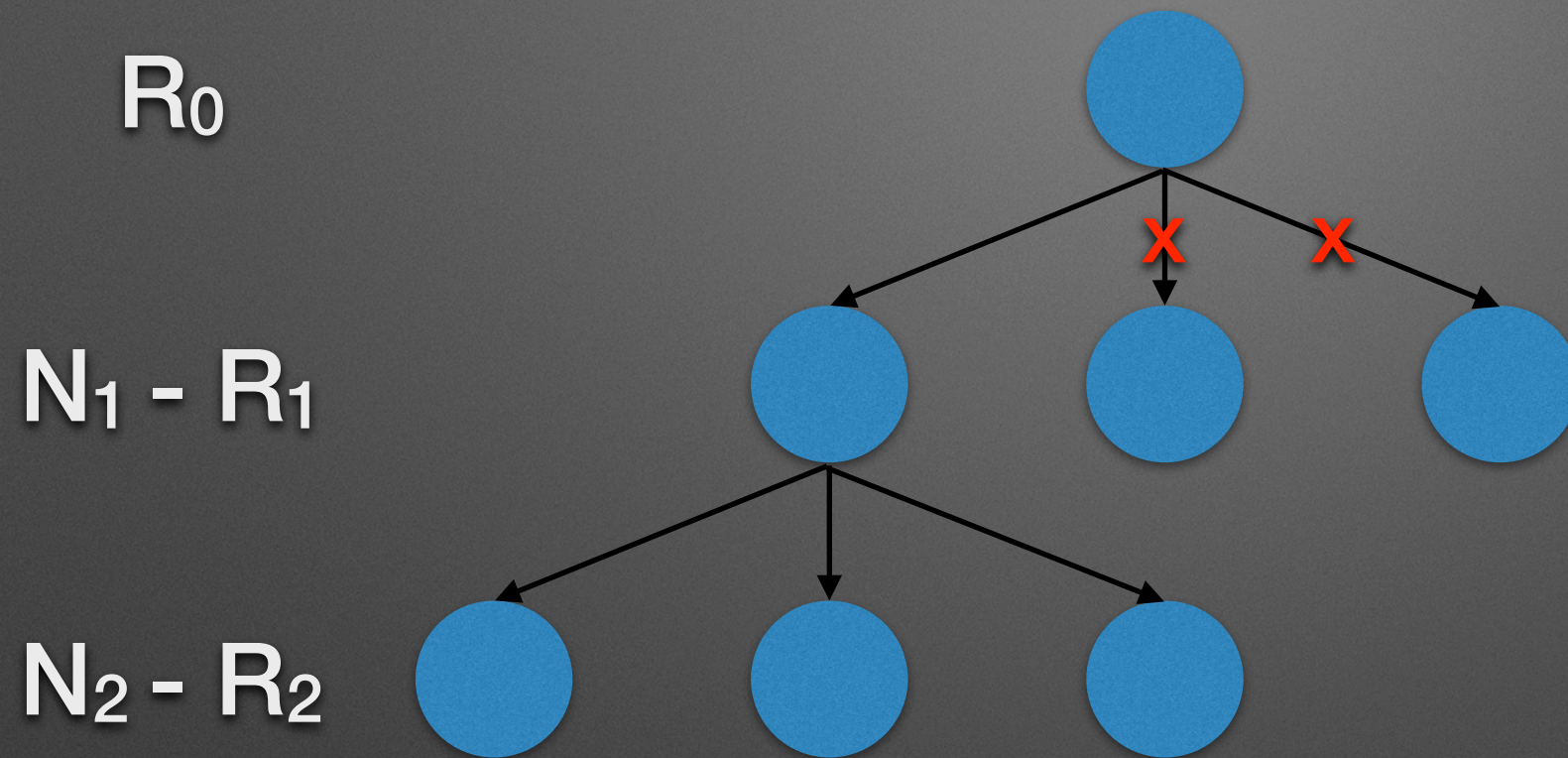
Generereer & Snoei

R_0

$N_1 - R_1$



Generereer & Snoei

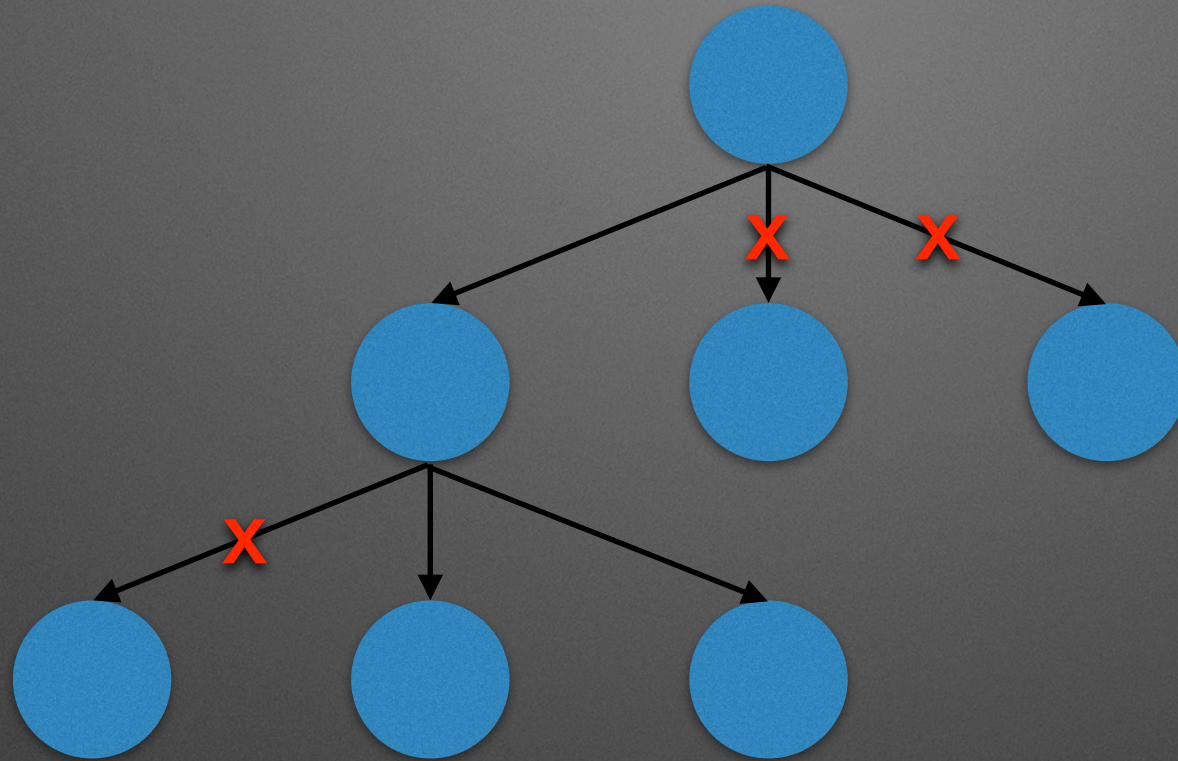


Generereer & Snoei

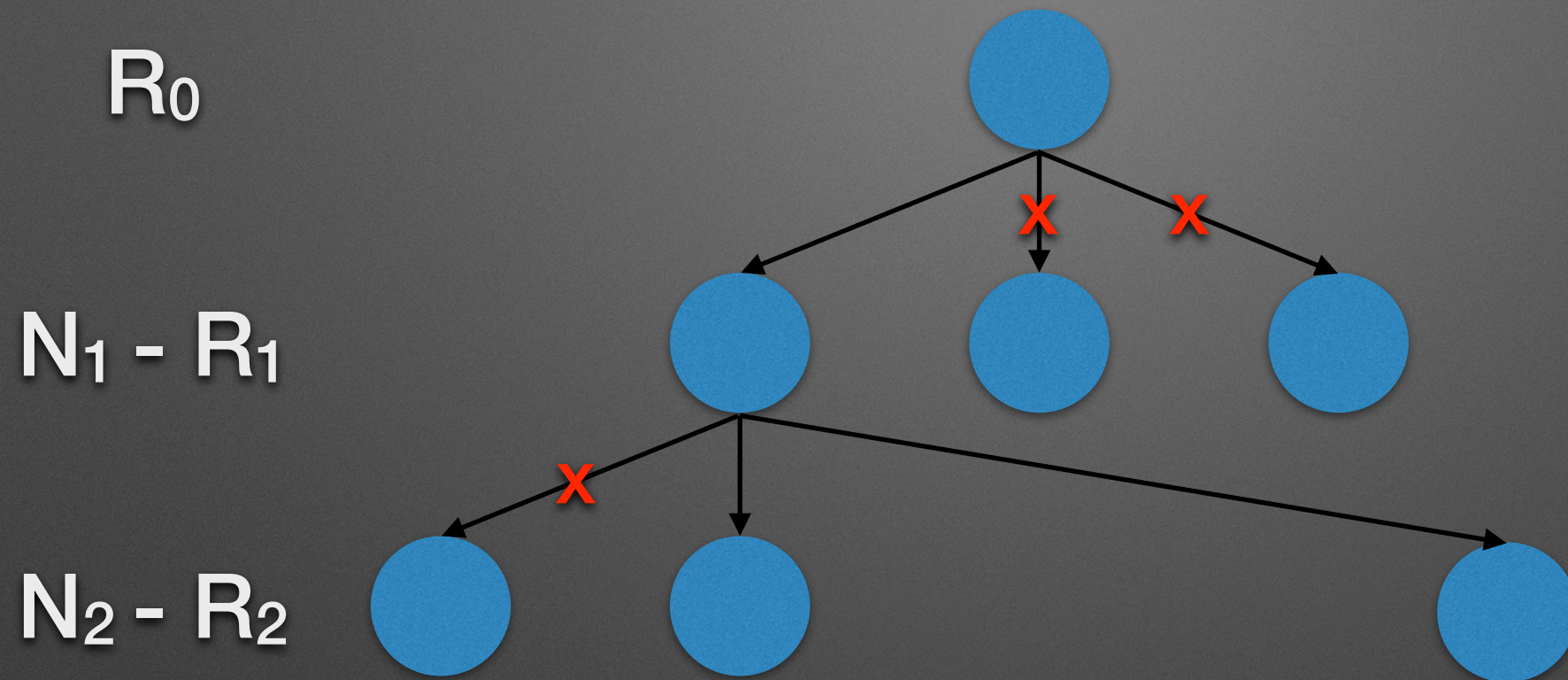
R_0

$N_1 - R_1$

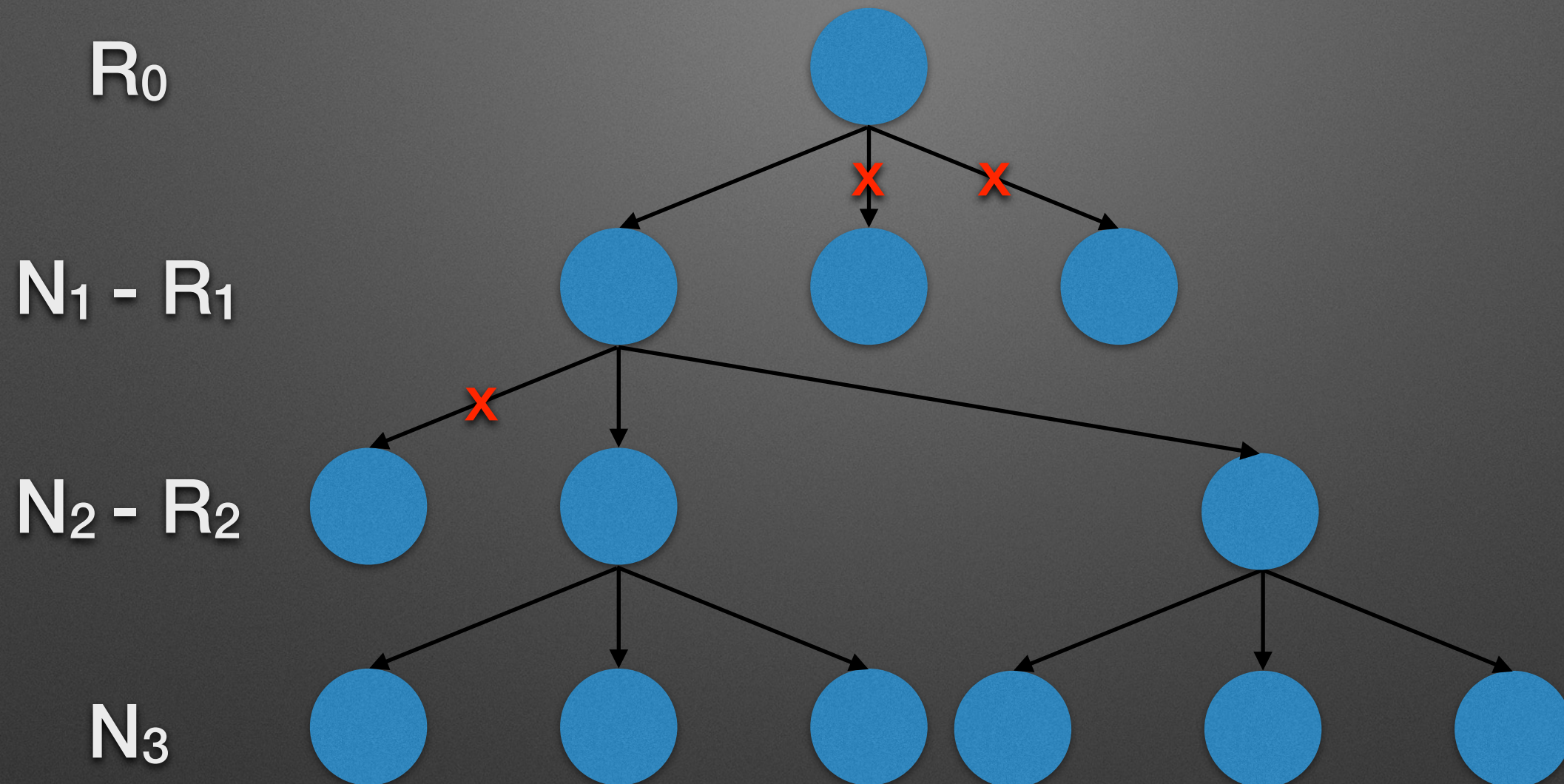
$N_2 - R_2$



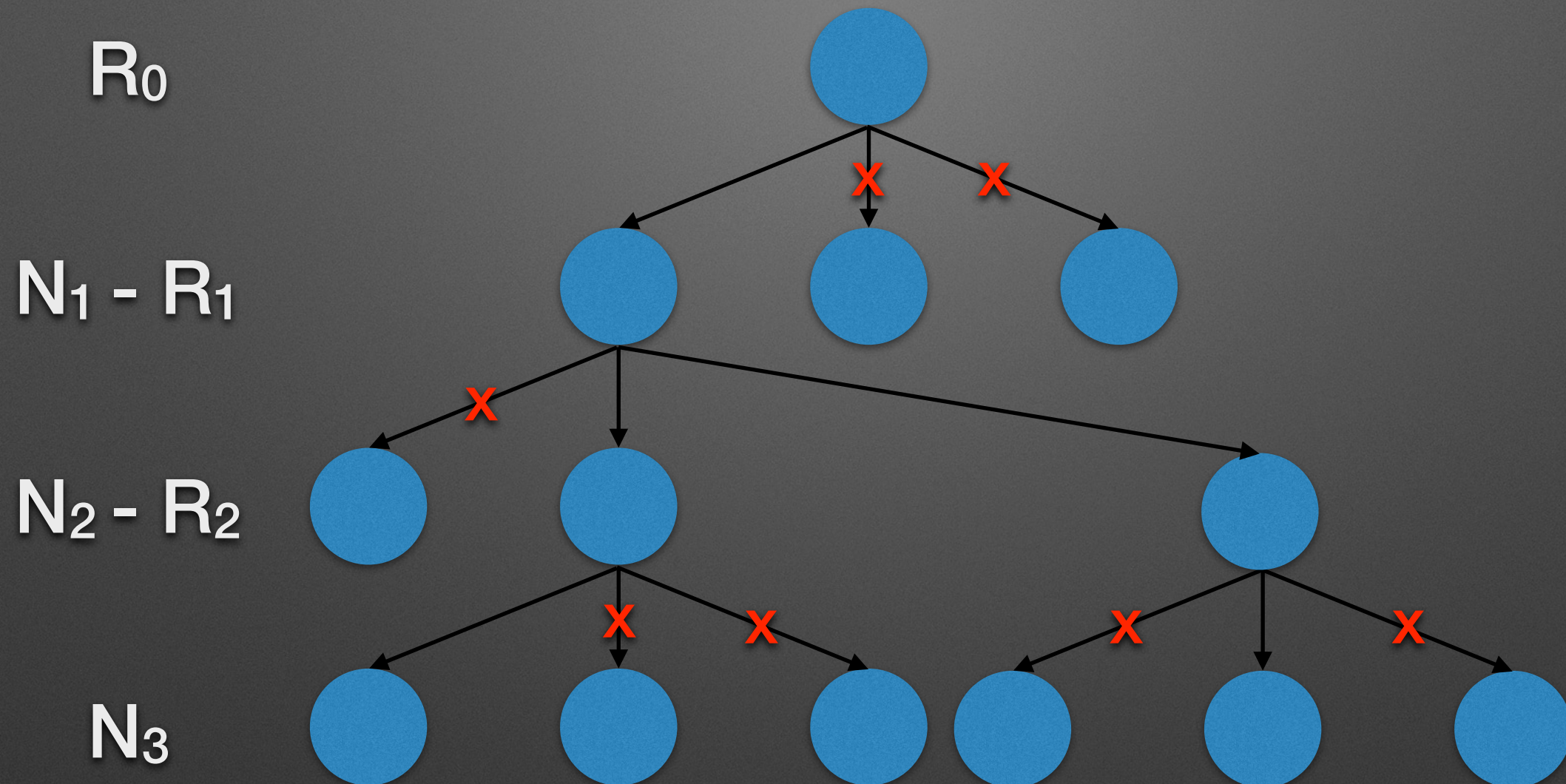
Generereer & Snoei



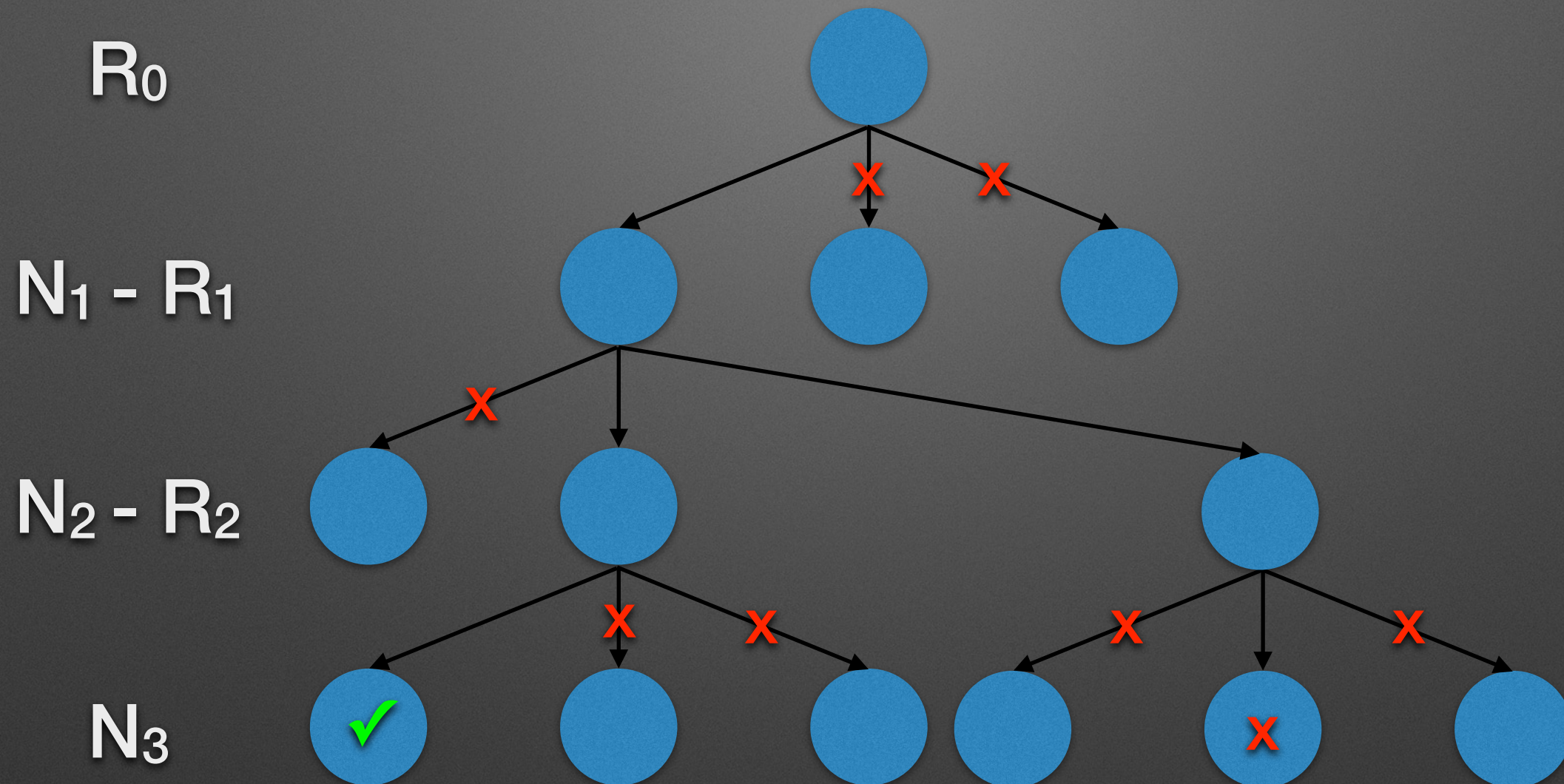
Generereer & Snoei



Generereer & Snoei



Generereer & Snoei



Subsumes

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- Beschreiven in “TWENTY-FIVE COMPARATORS IS OPTIMAL WHEN SORTING NINE INPUTS (AND TWENTY-NINE FOR TEN)”
(Codish et al.)

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(*Codish et al.*)
- C_a subsumes $C_b \Leftrightarrow C_a$ wordt gedekt door C_b
- Verwijder de netwerken die anderen dekken

Genereer & Snoei

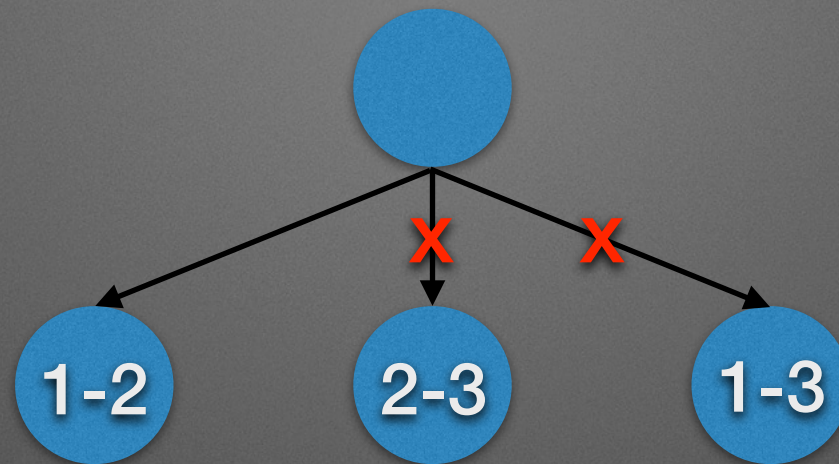
Gevonden sorteernetwerk:

Genereer & Snoei



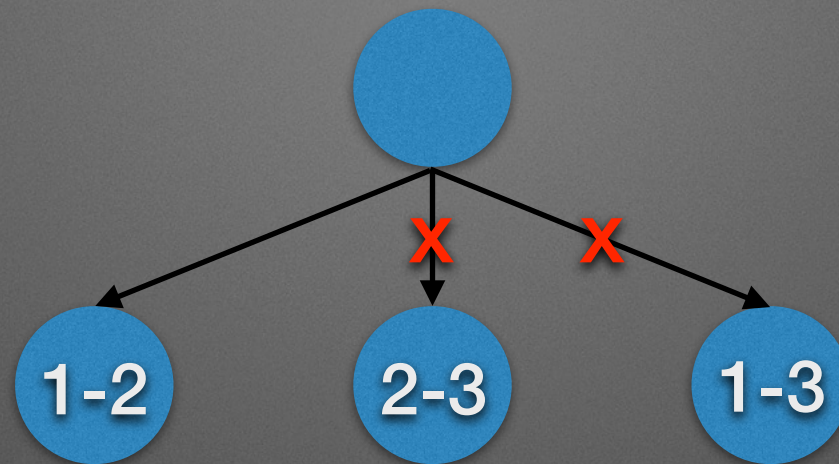
Gevonden sorteernetwerk:

Genereer & Snoei



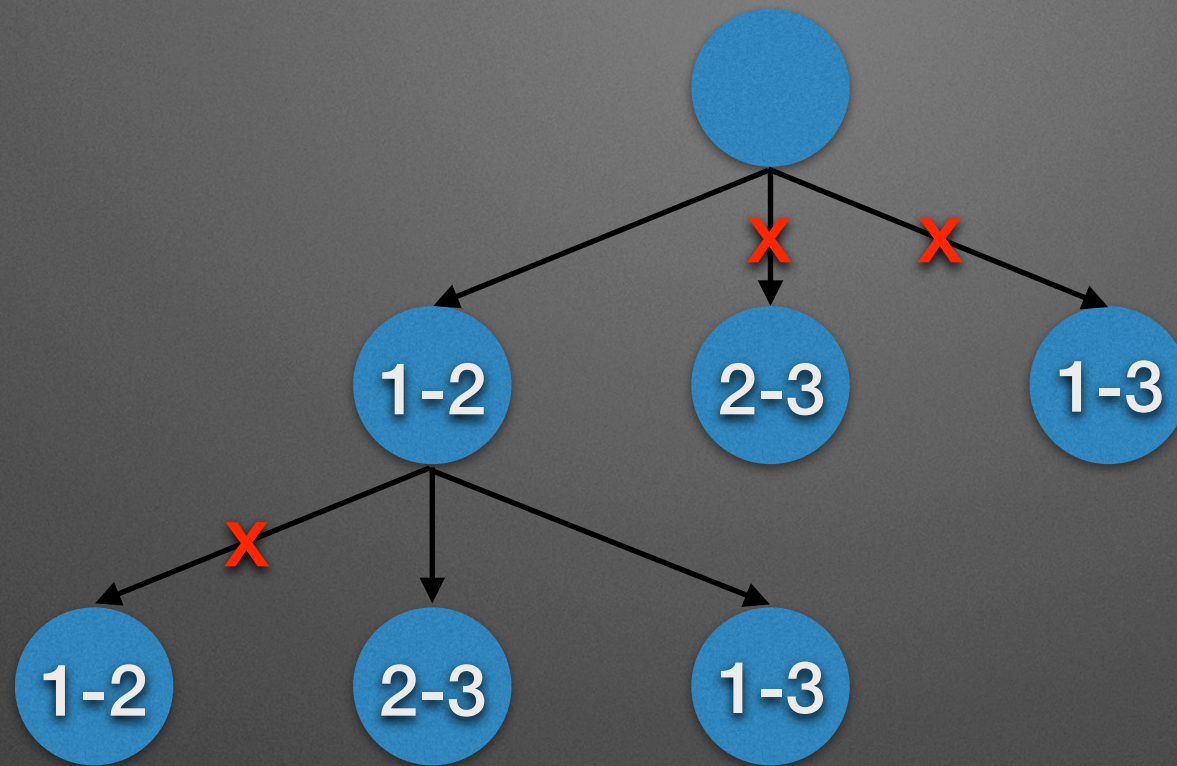
Gevonden sorteernetwerk:

Genereer & Snoei



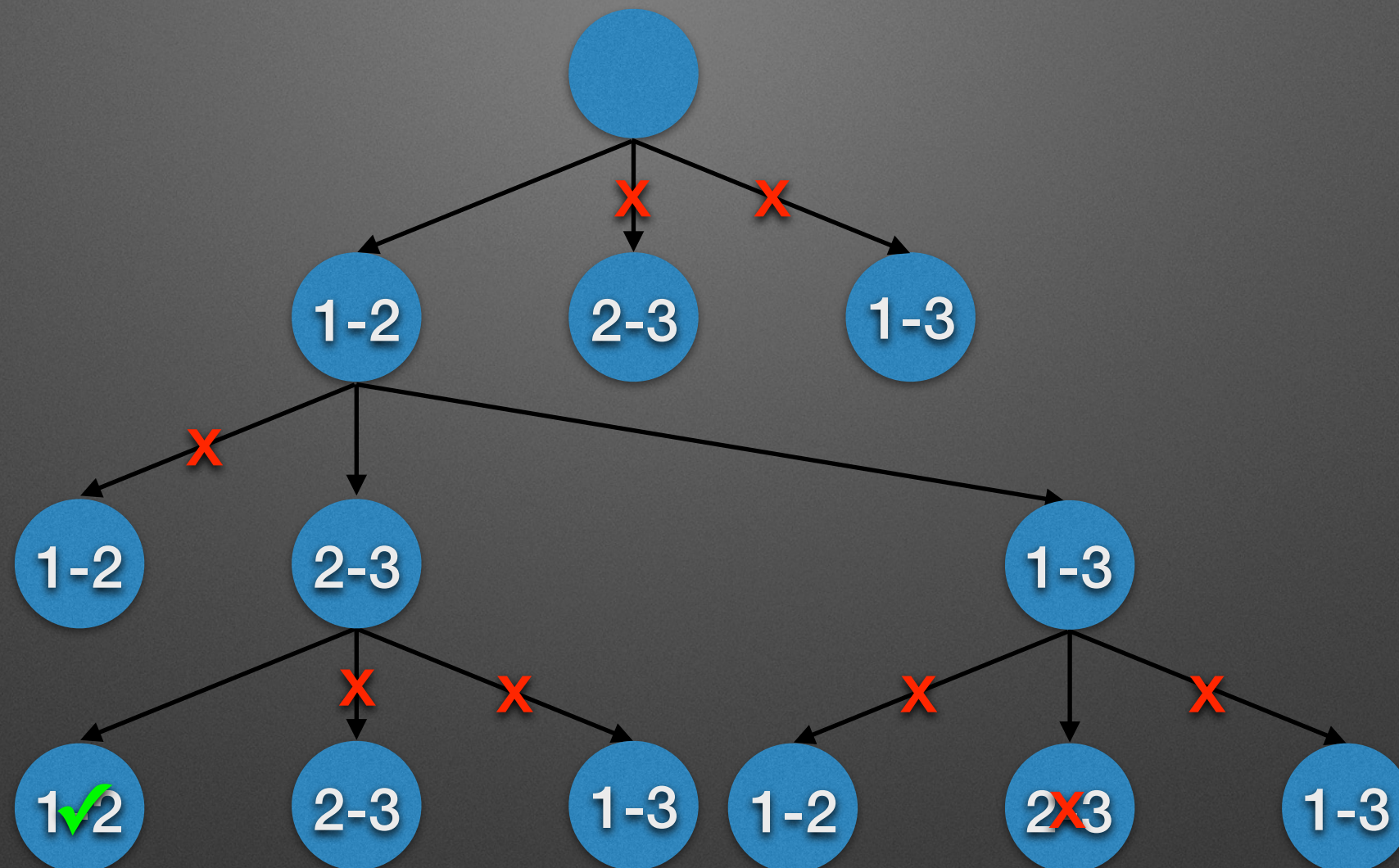
Gevonden sorteernetwerk: (1-2)

Genereer & Snoei



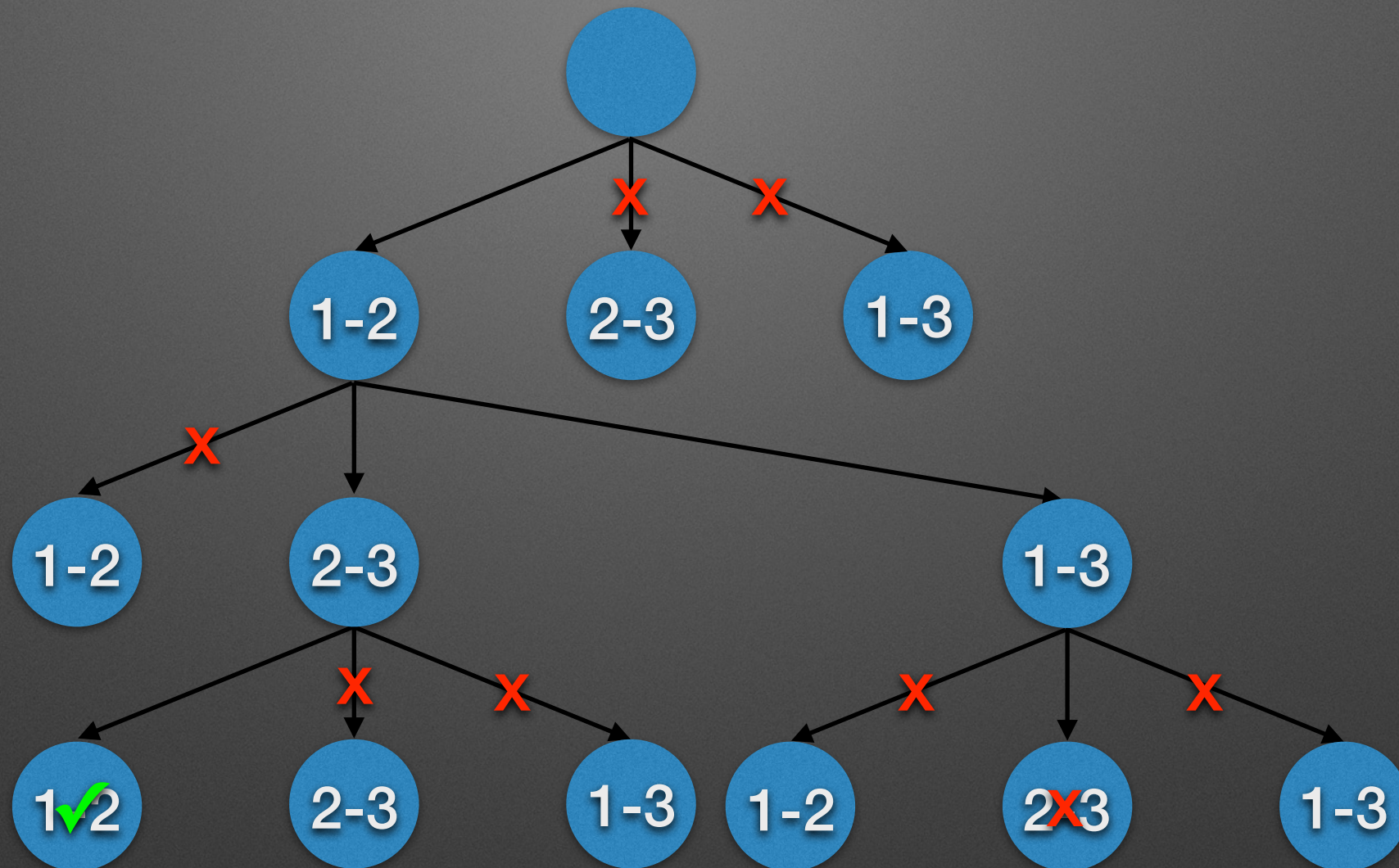
Gevonden sorteernetwerk: (1-2)

Genereer & Snoei



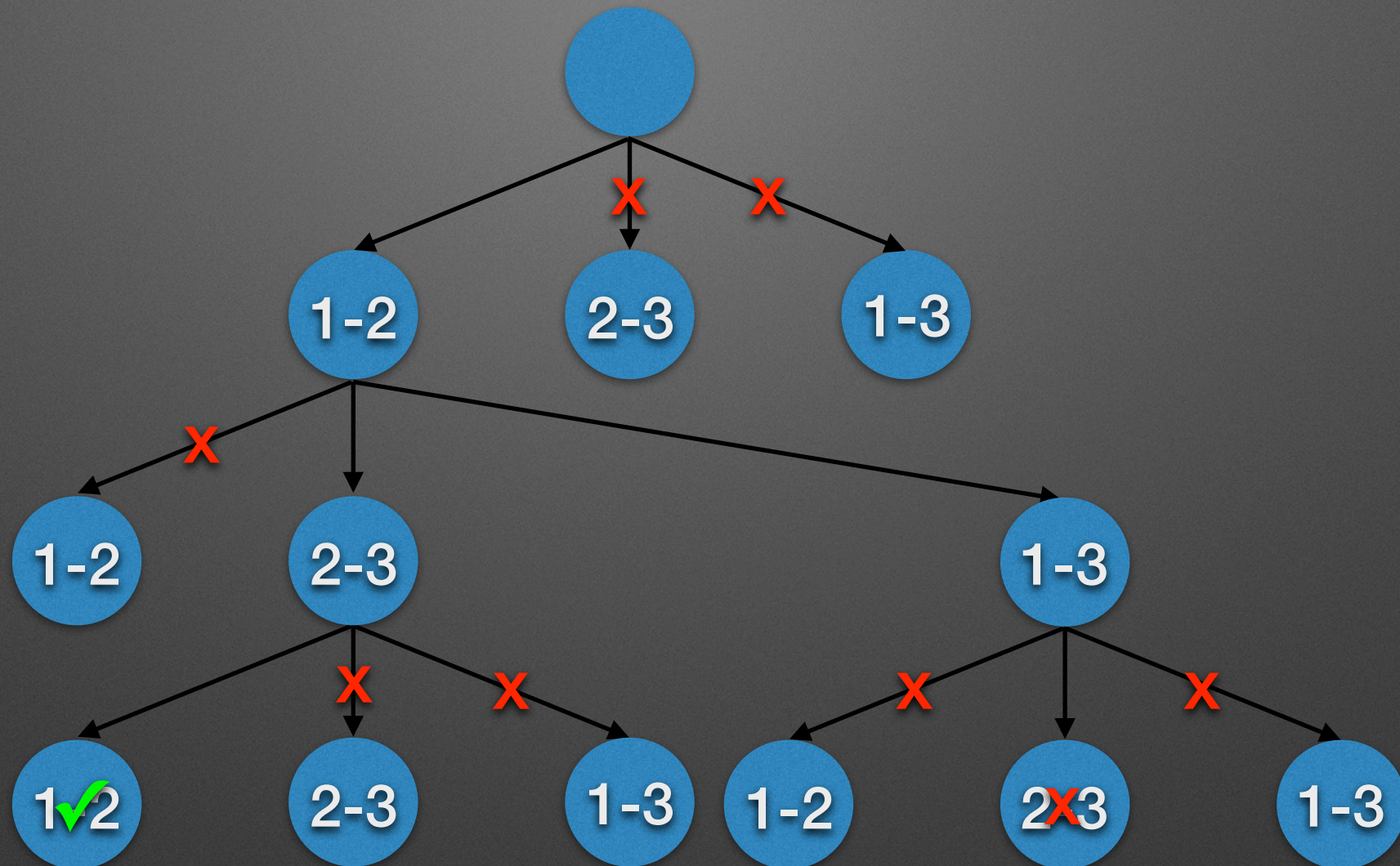
Gevonden sorteernetwerk: (1-2)

Genereer & Snoei



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

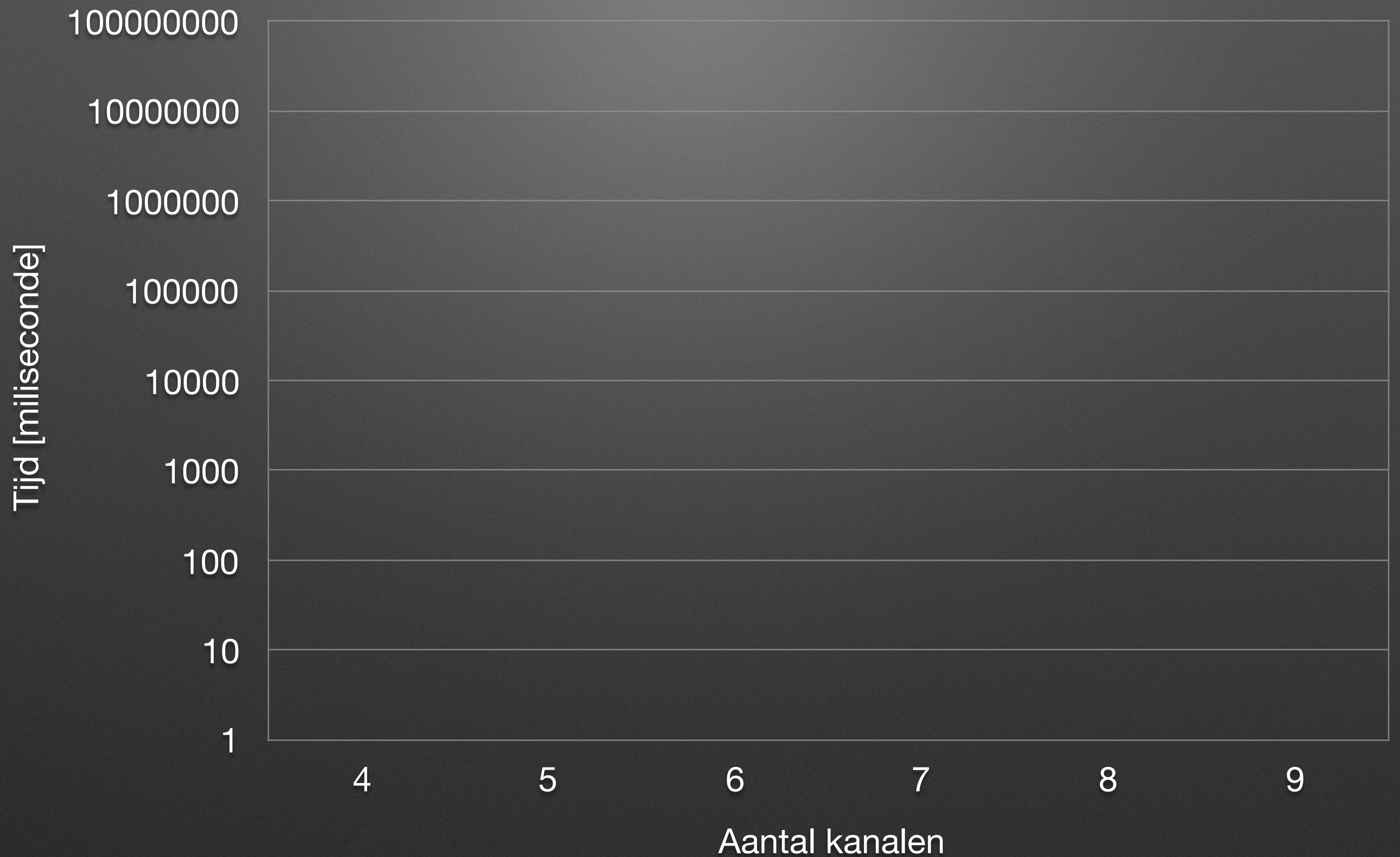
Generereer & Snoei



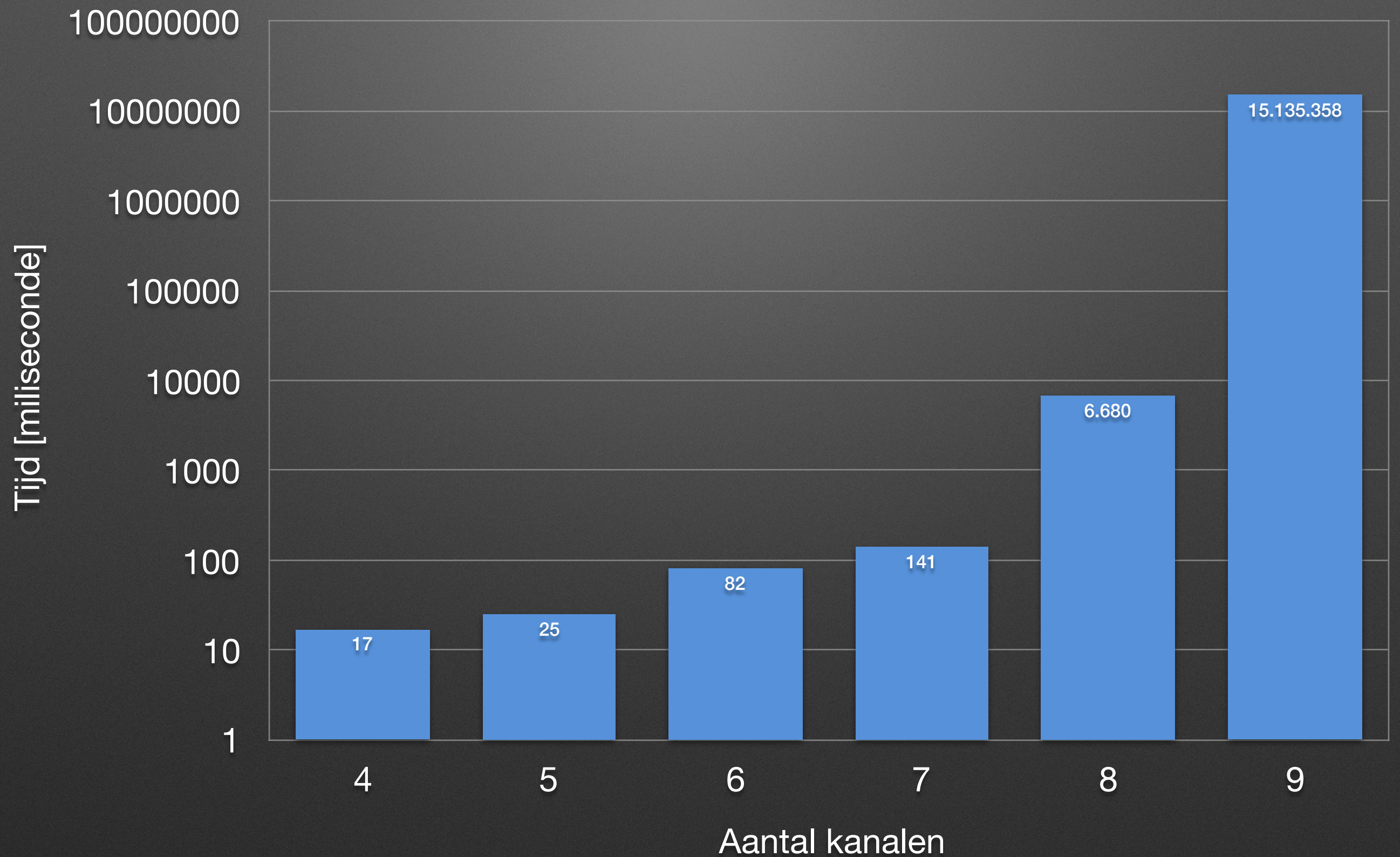
Gevonden sorteernetwerk: (1-2) (2-3) (1-2)

Resultaten

Resultaten



Resultaten

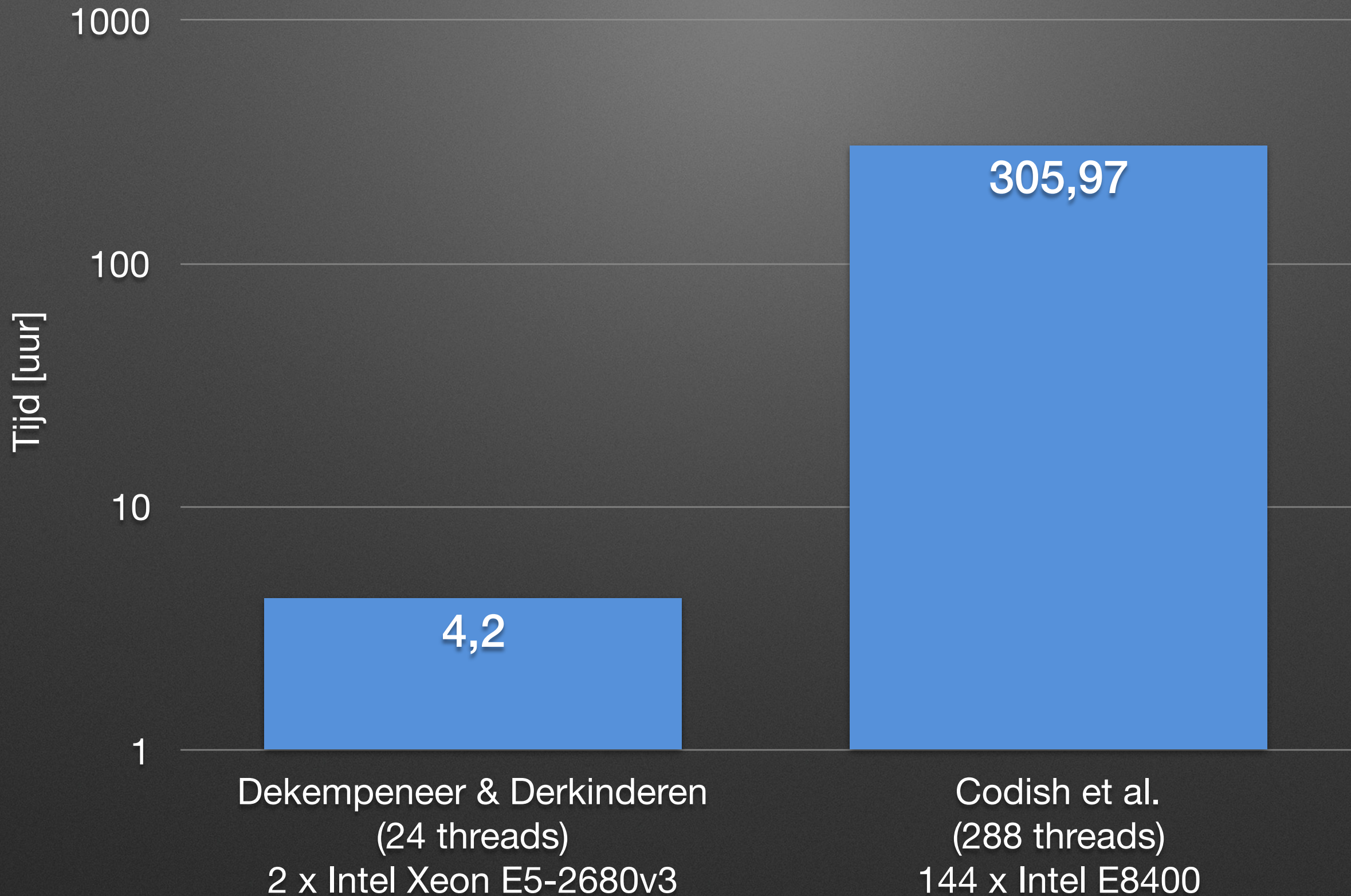


Resultaten

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