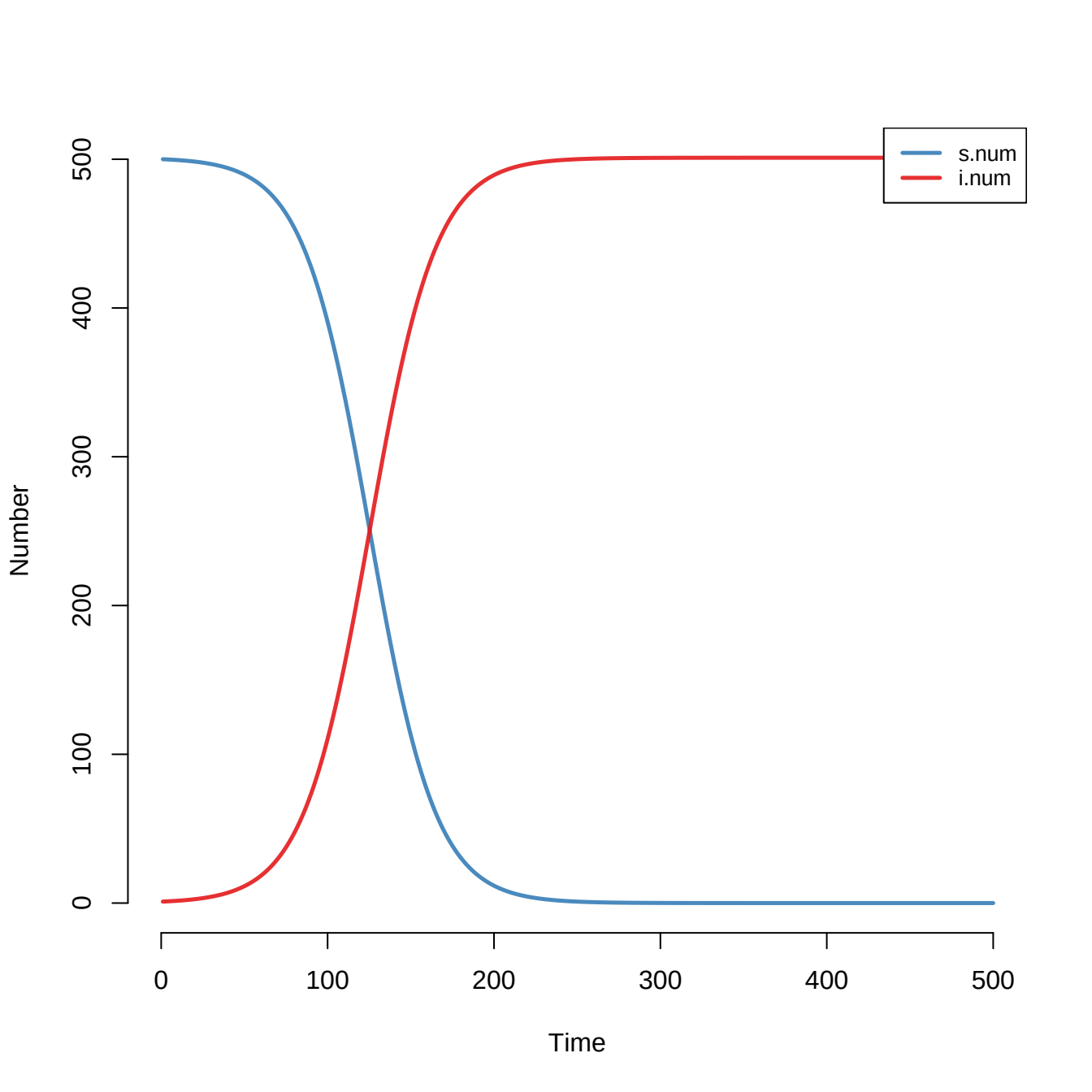
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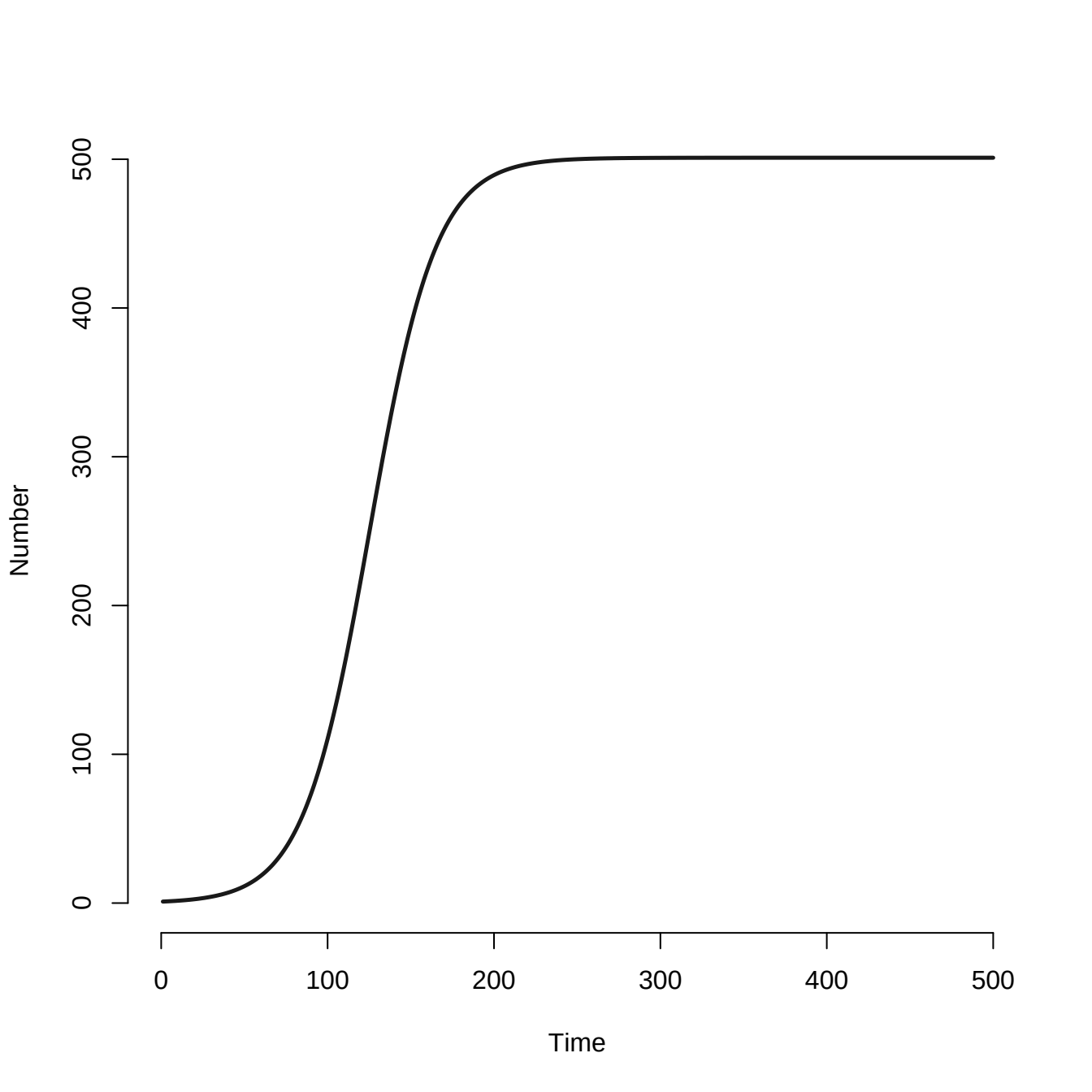
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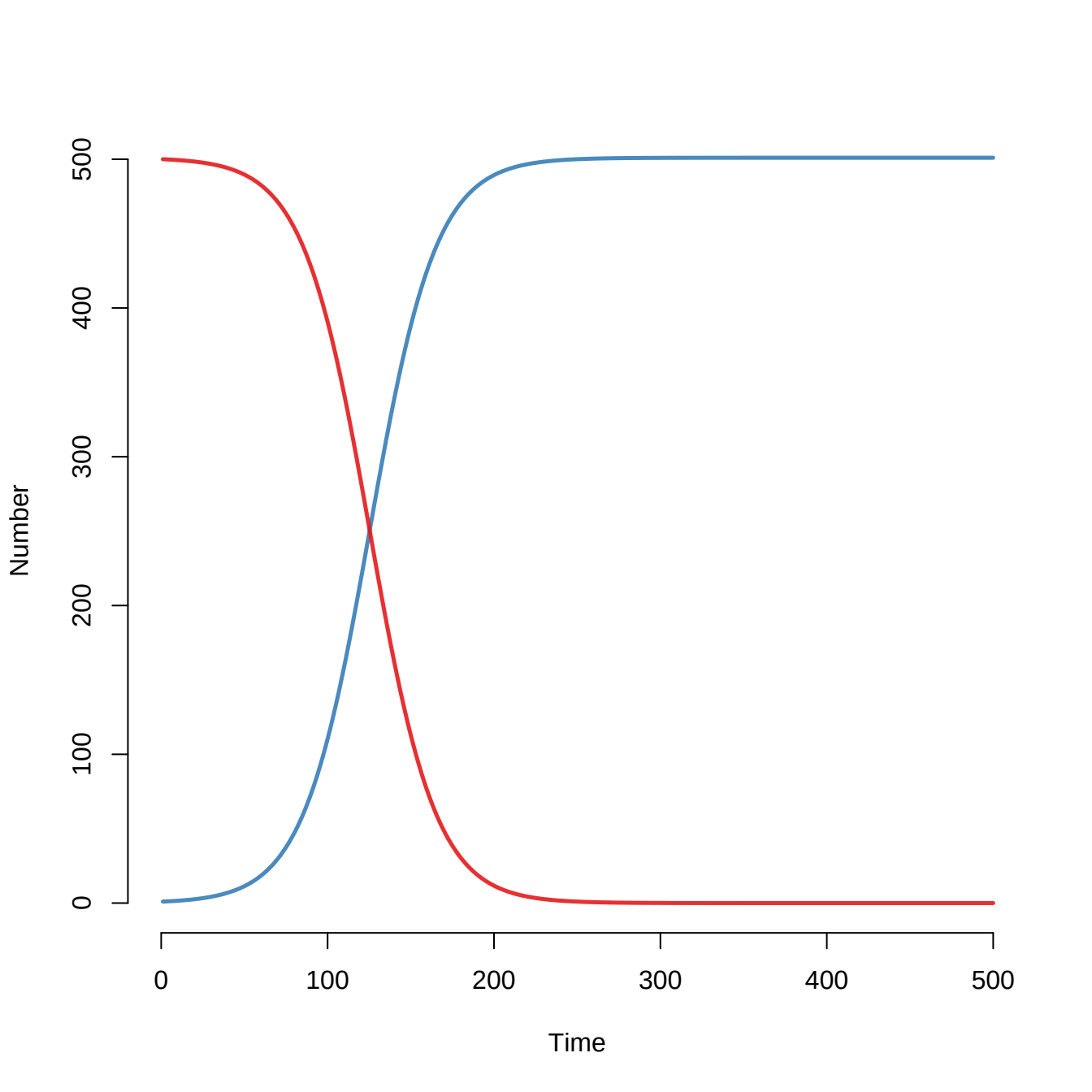
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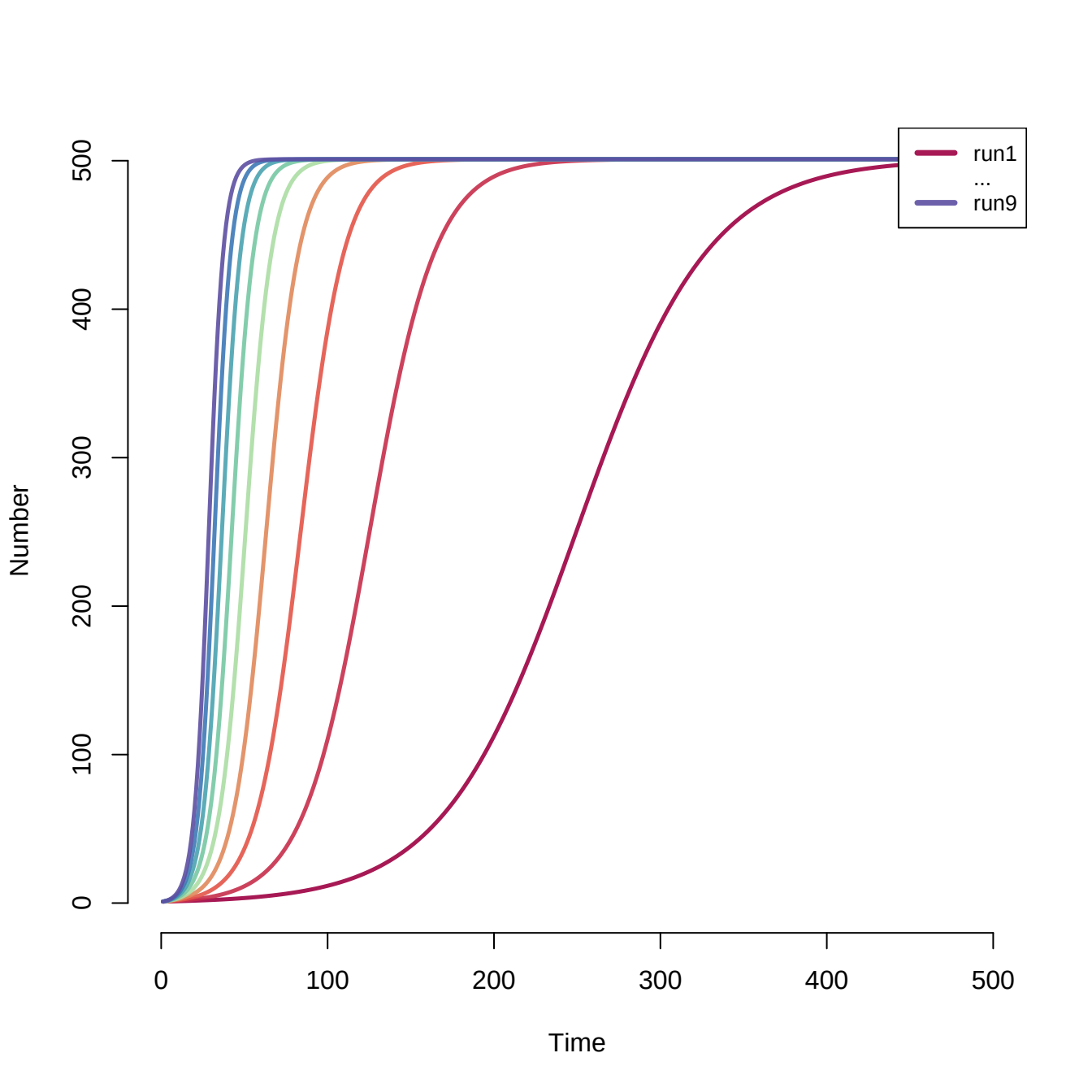
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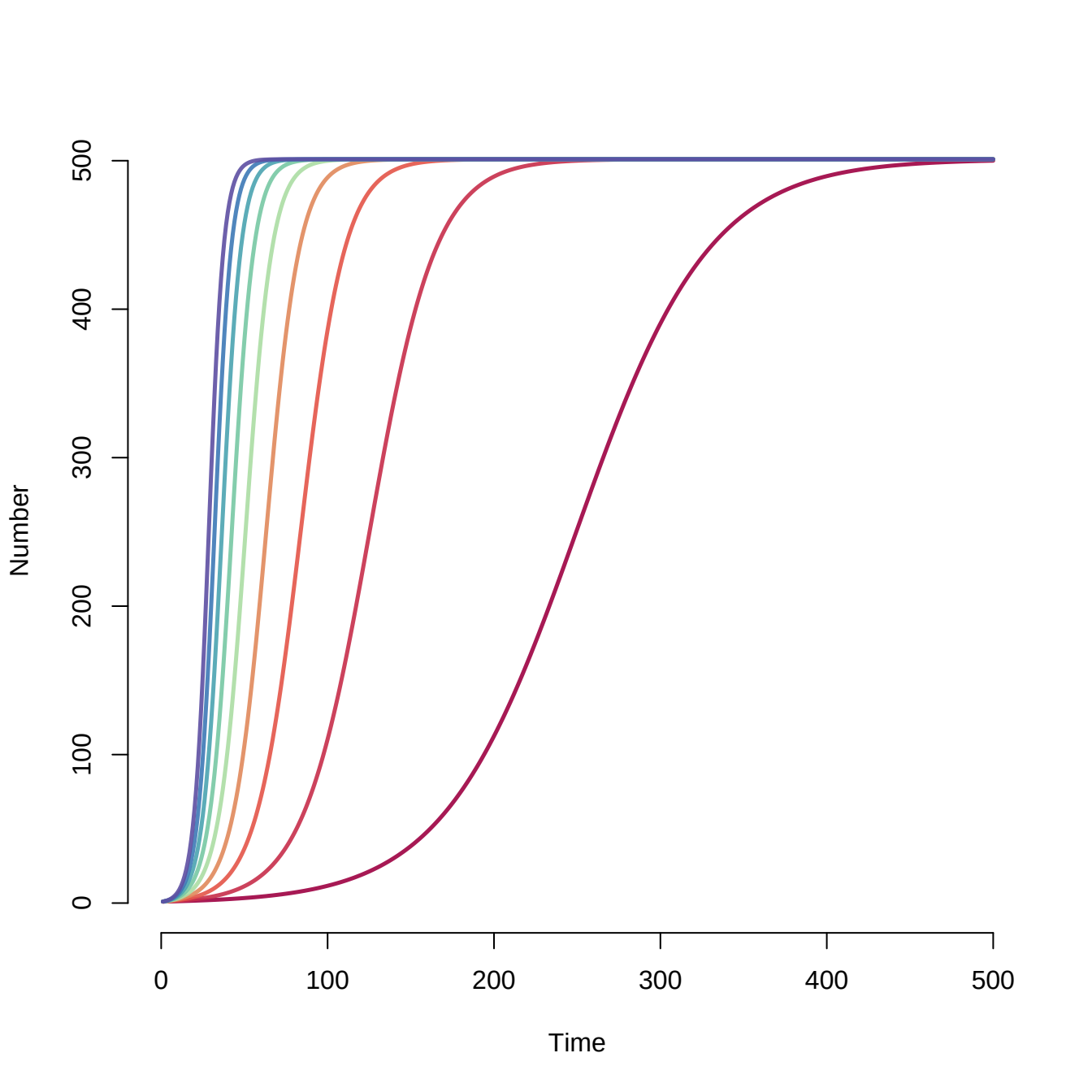
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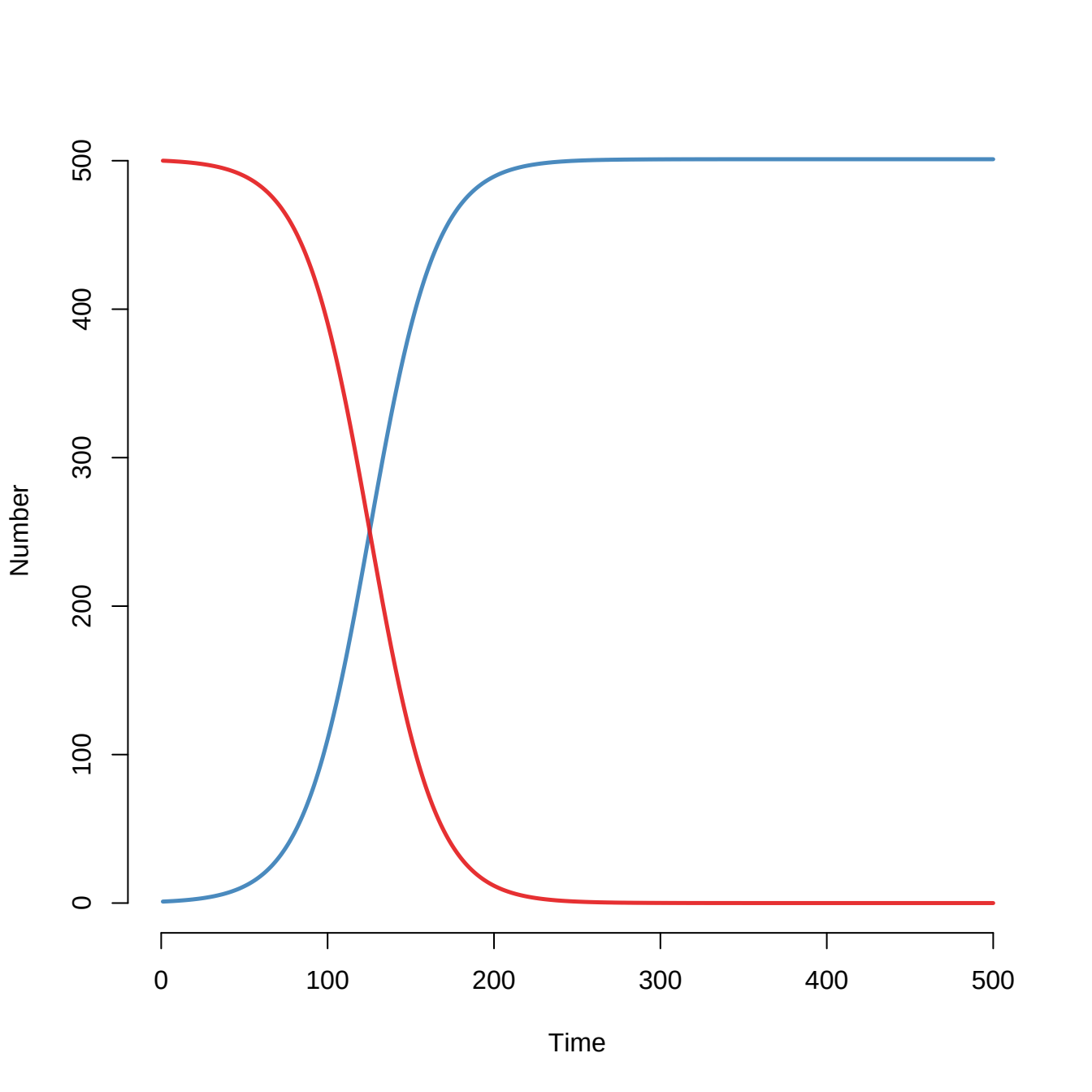
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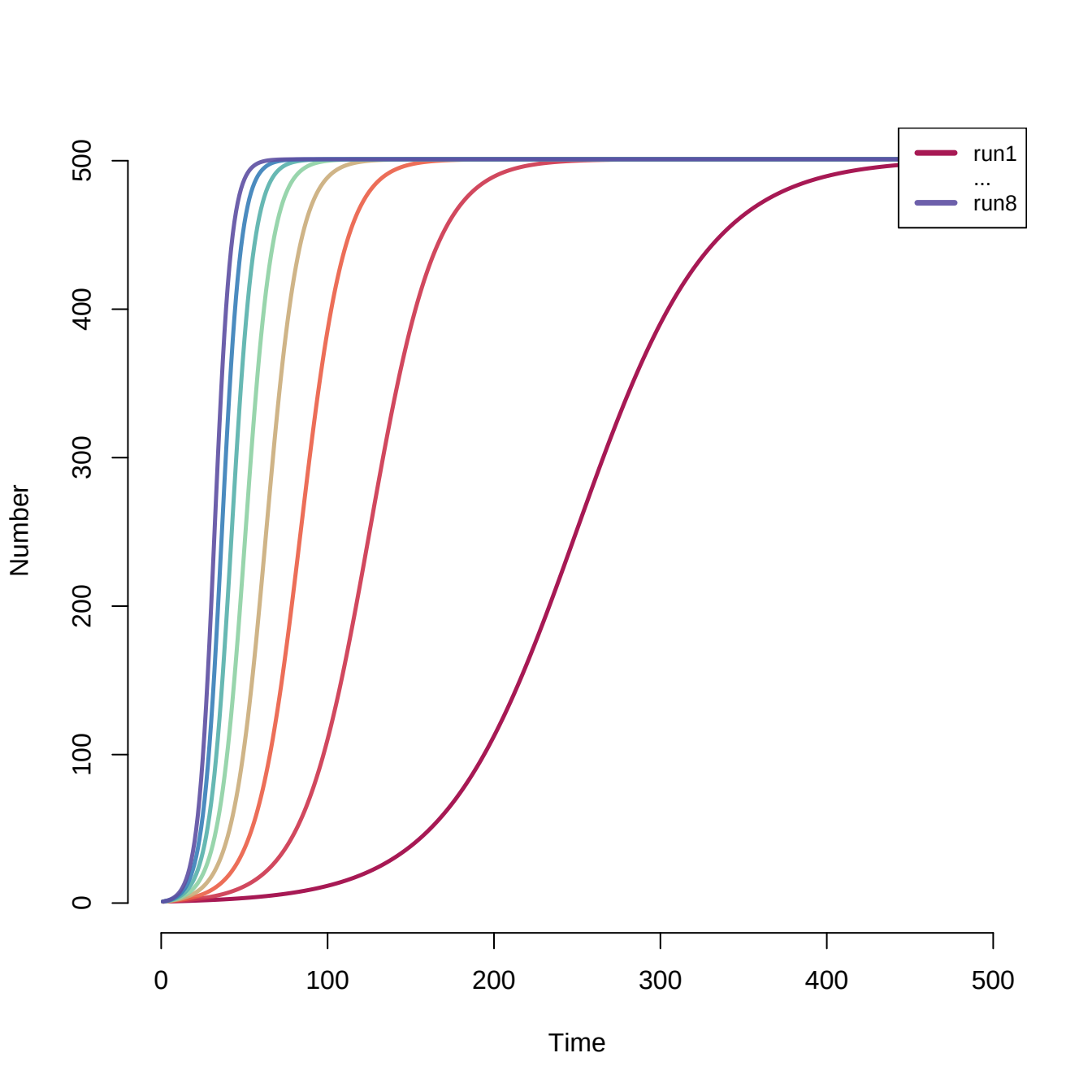
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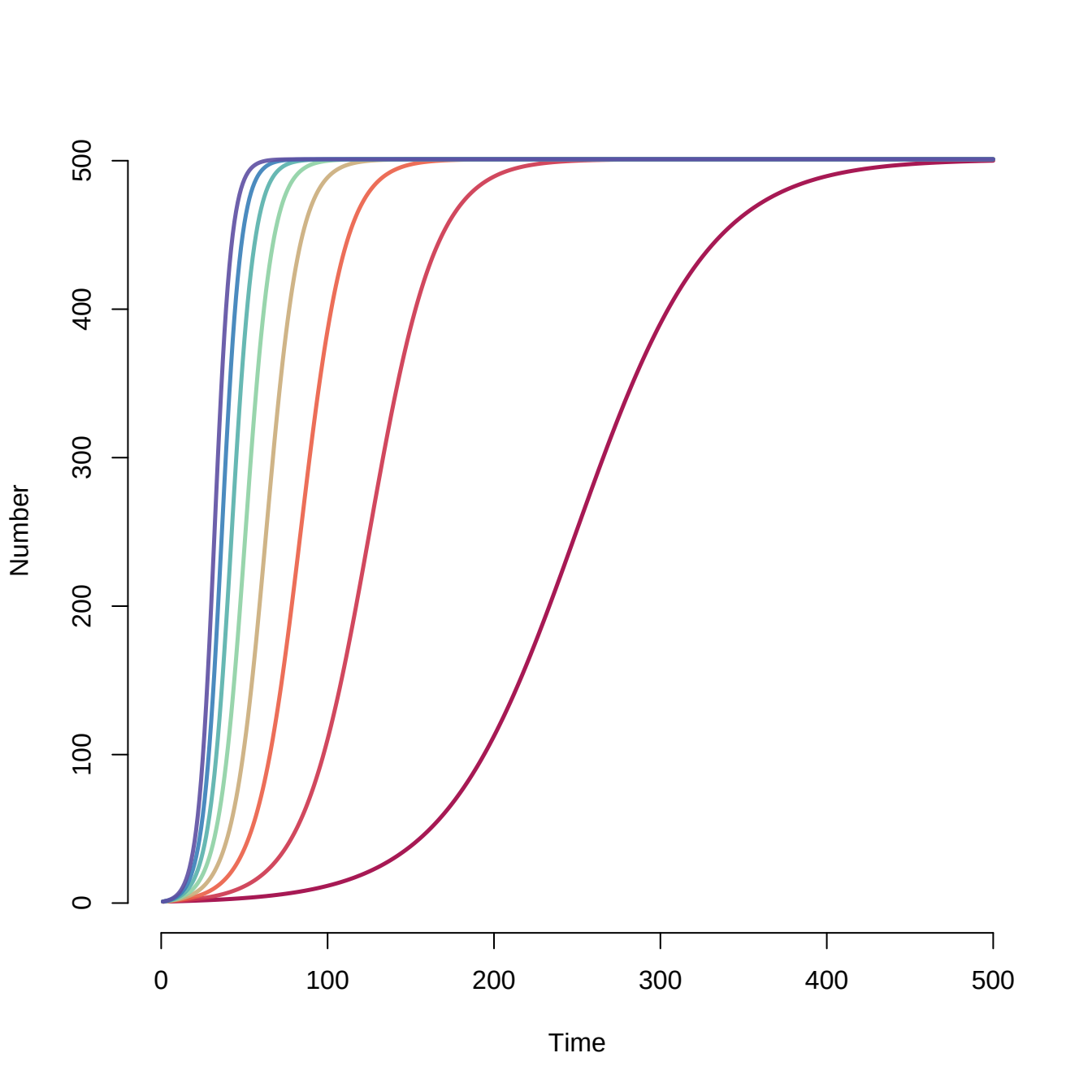
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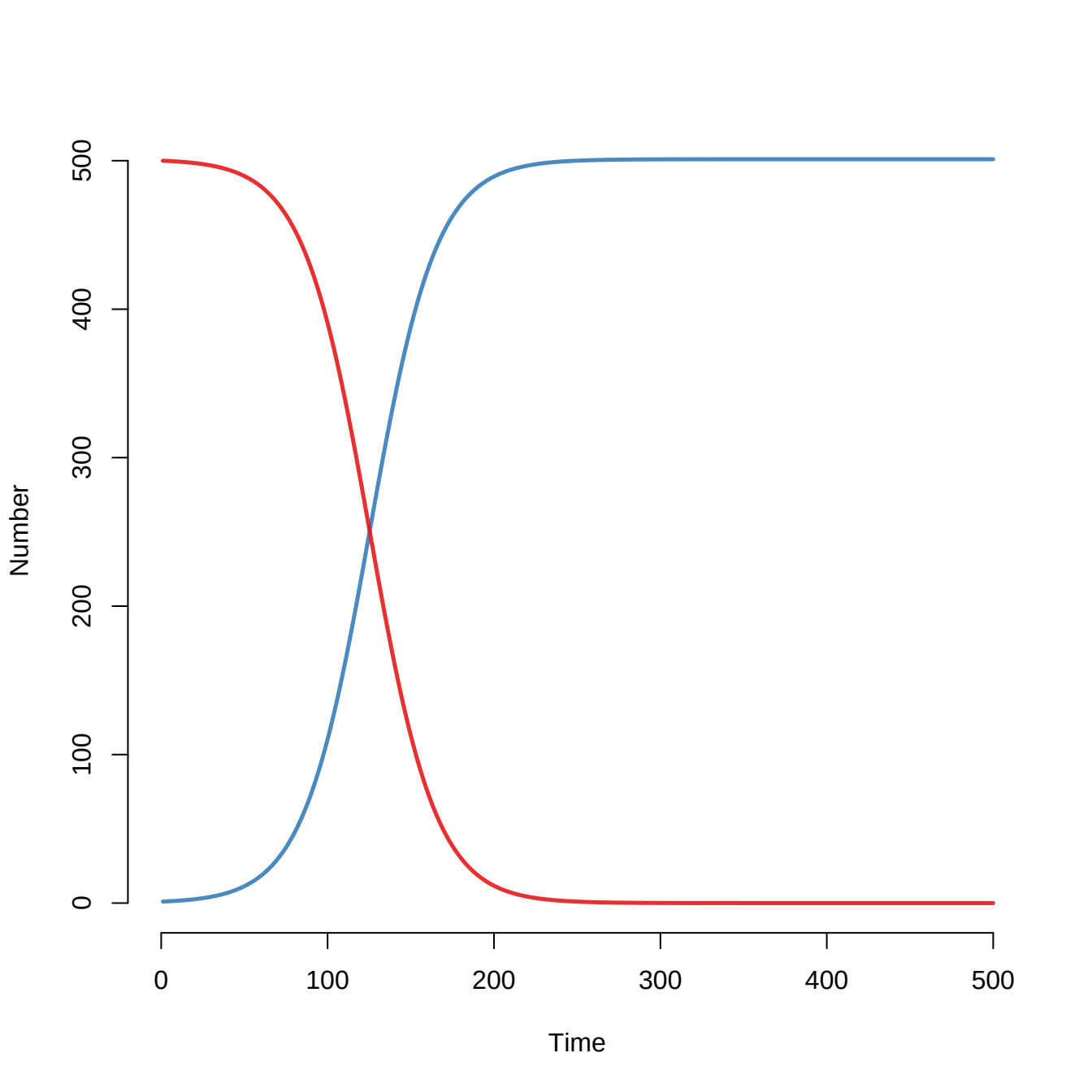
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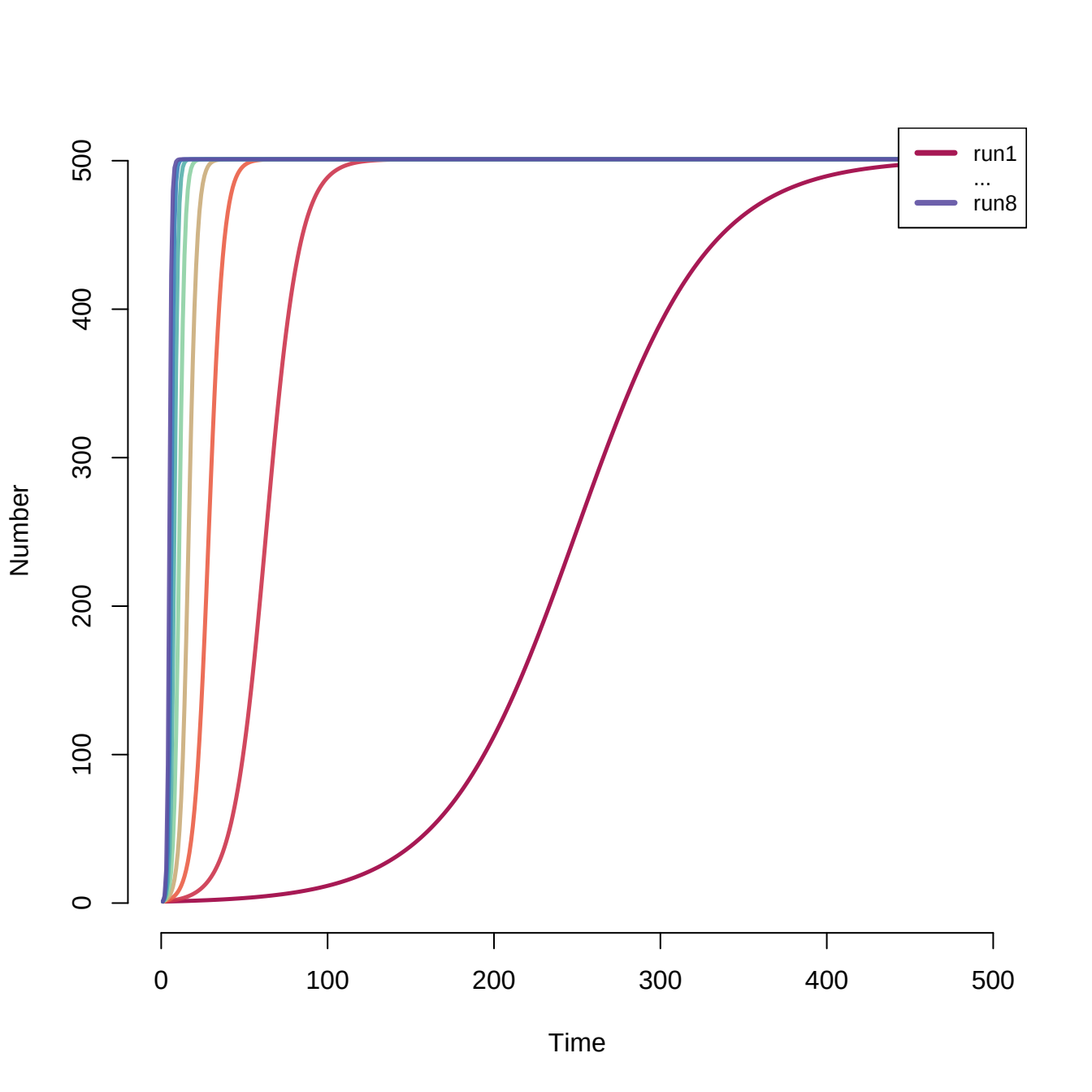
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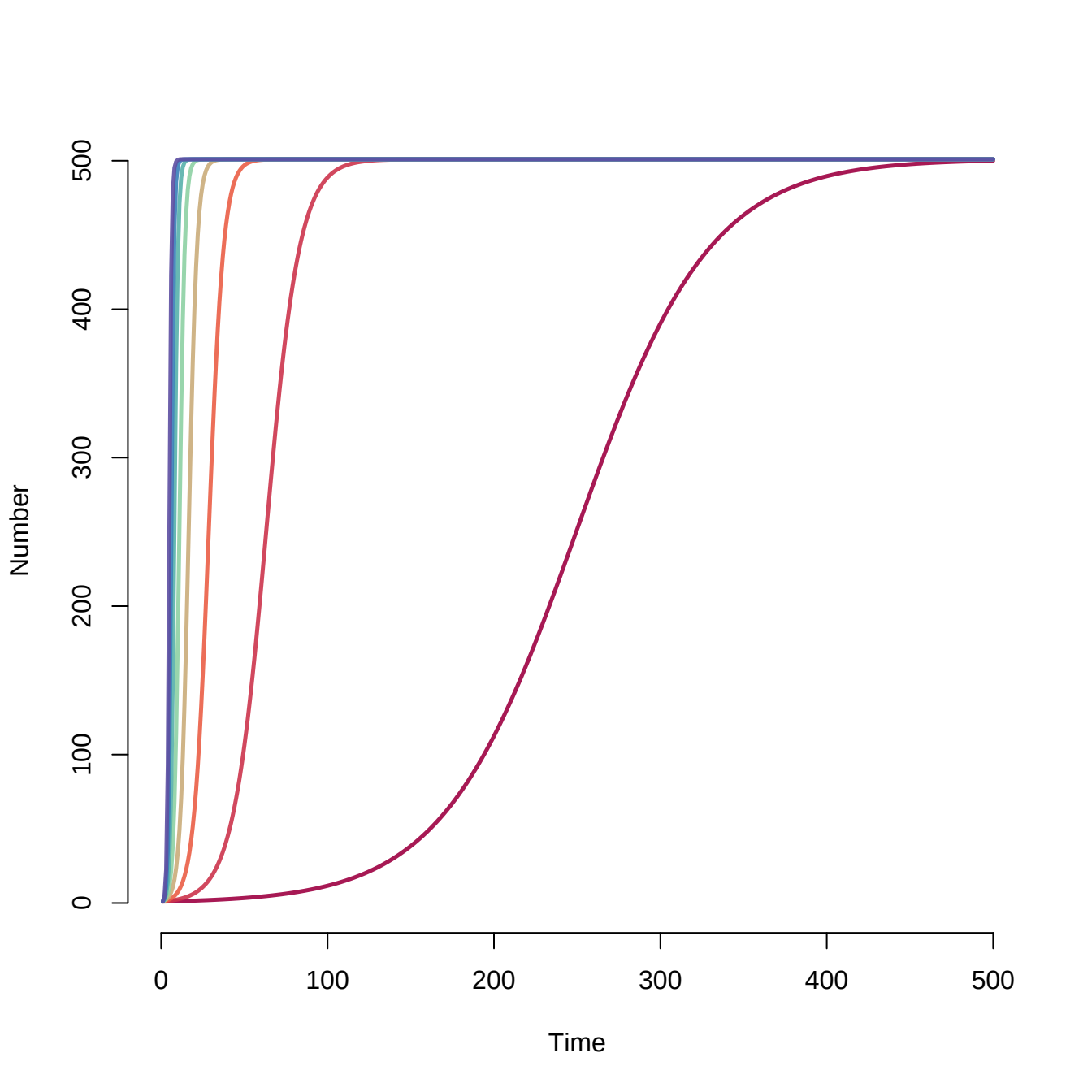
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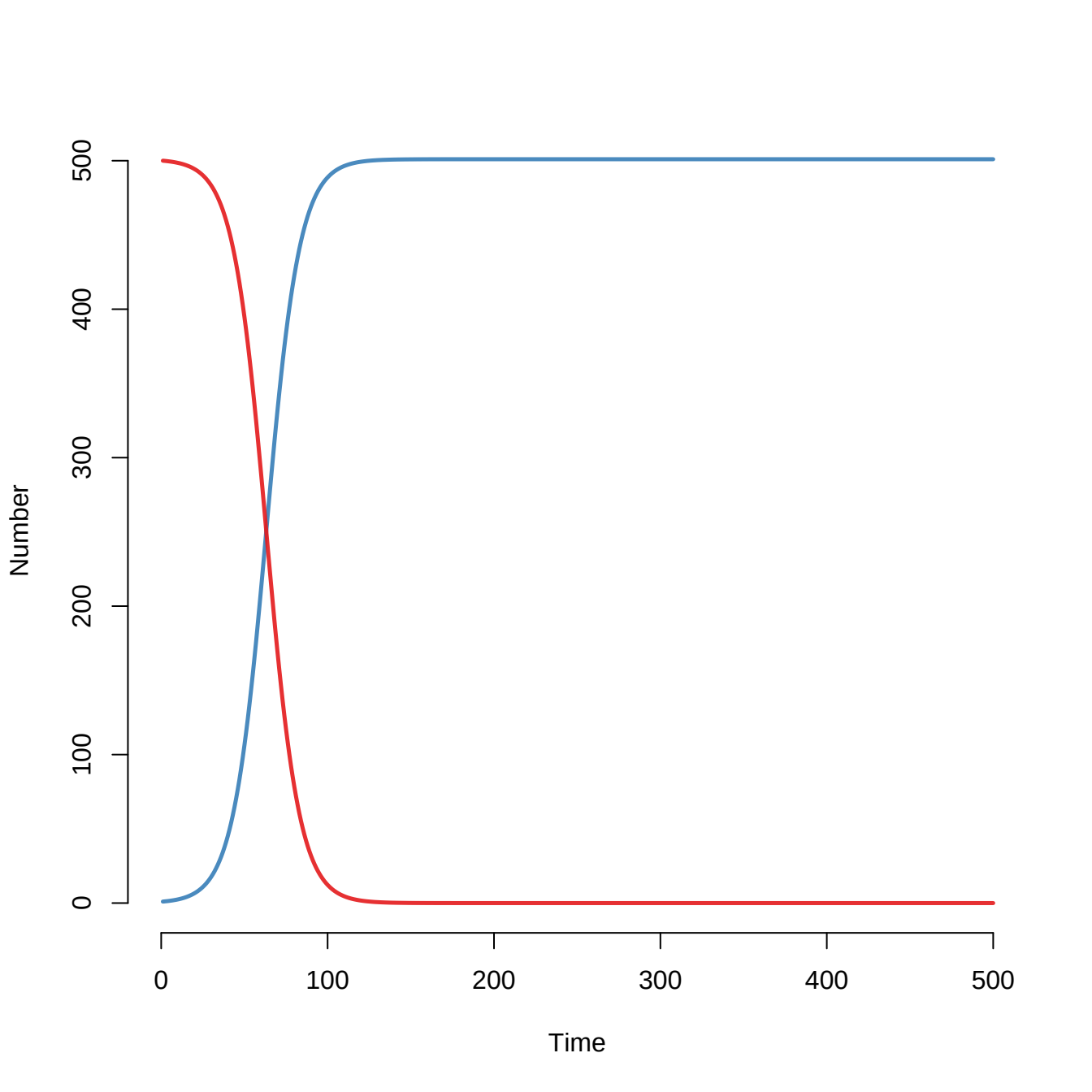
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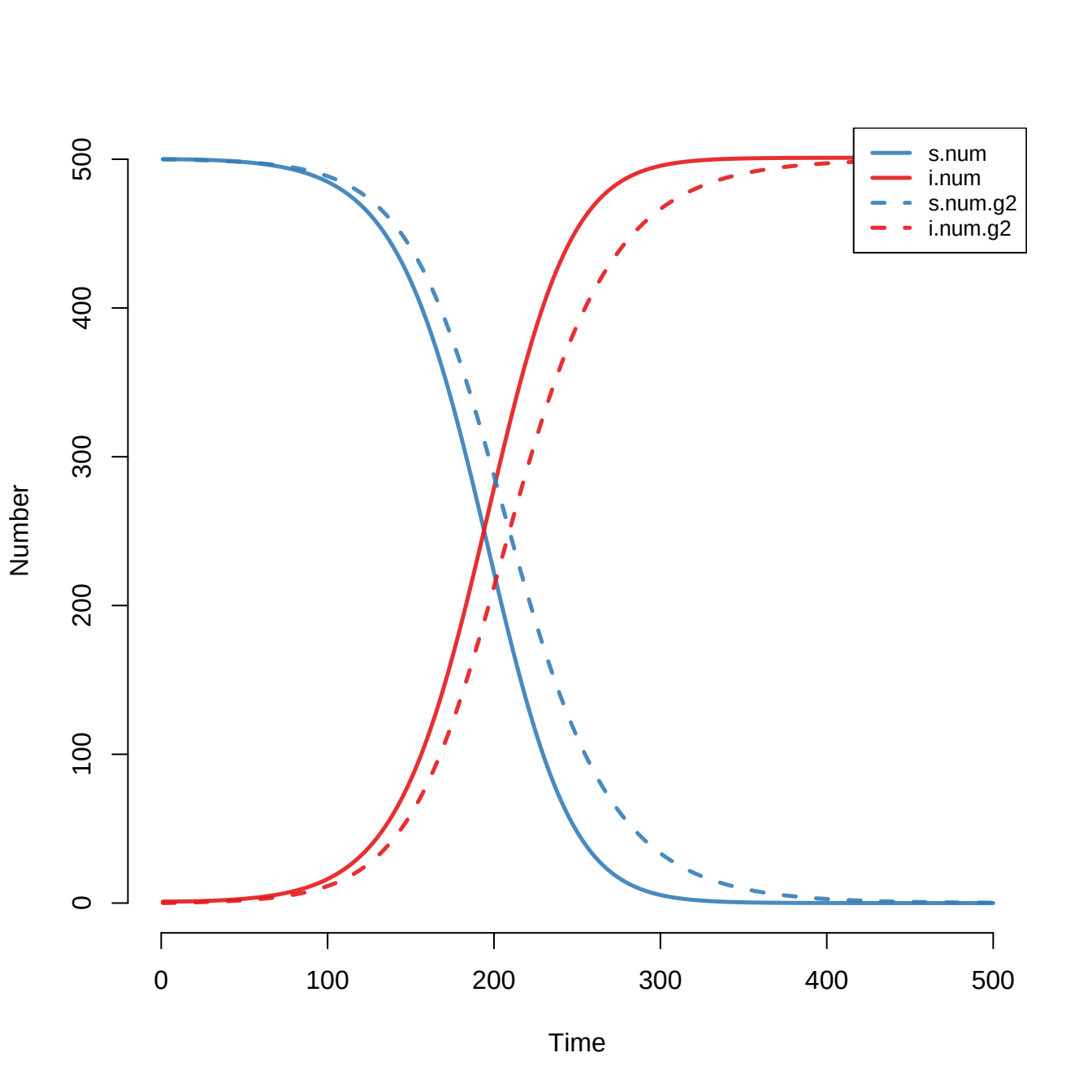
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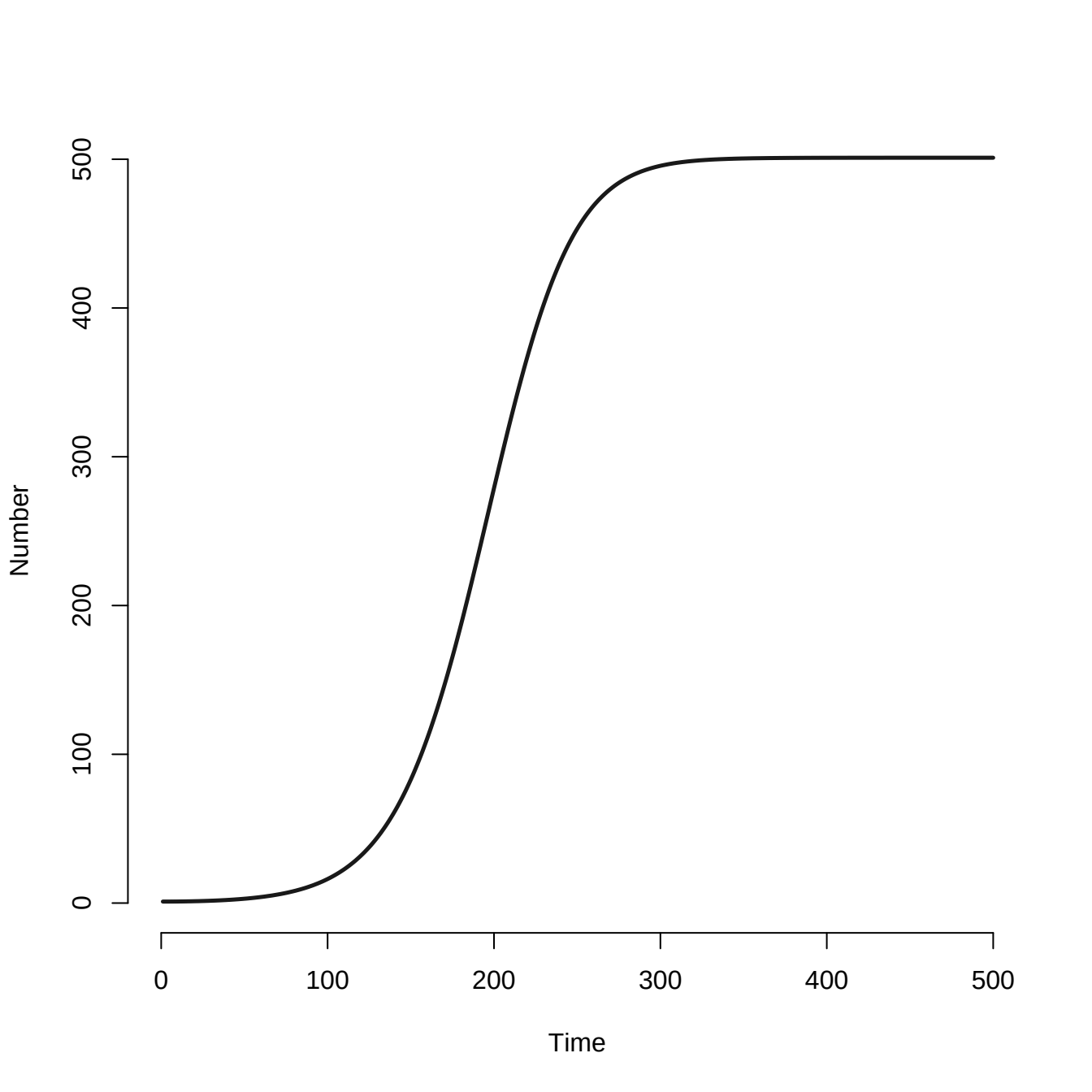
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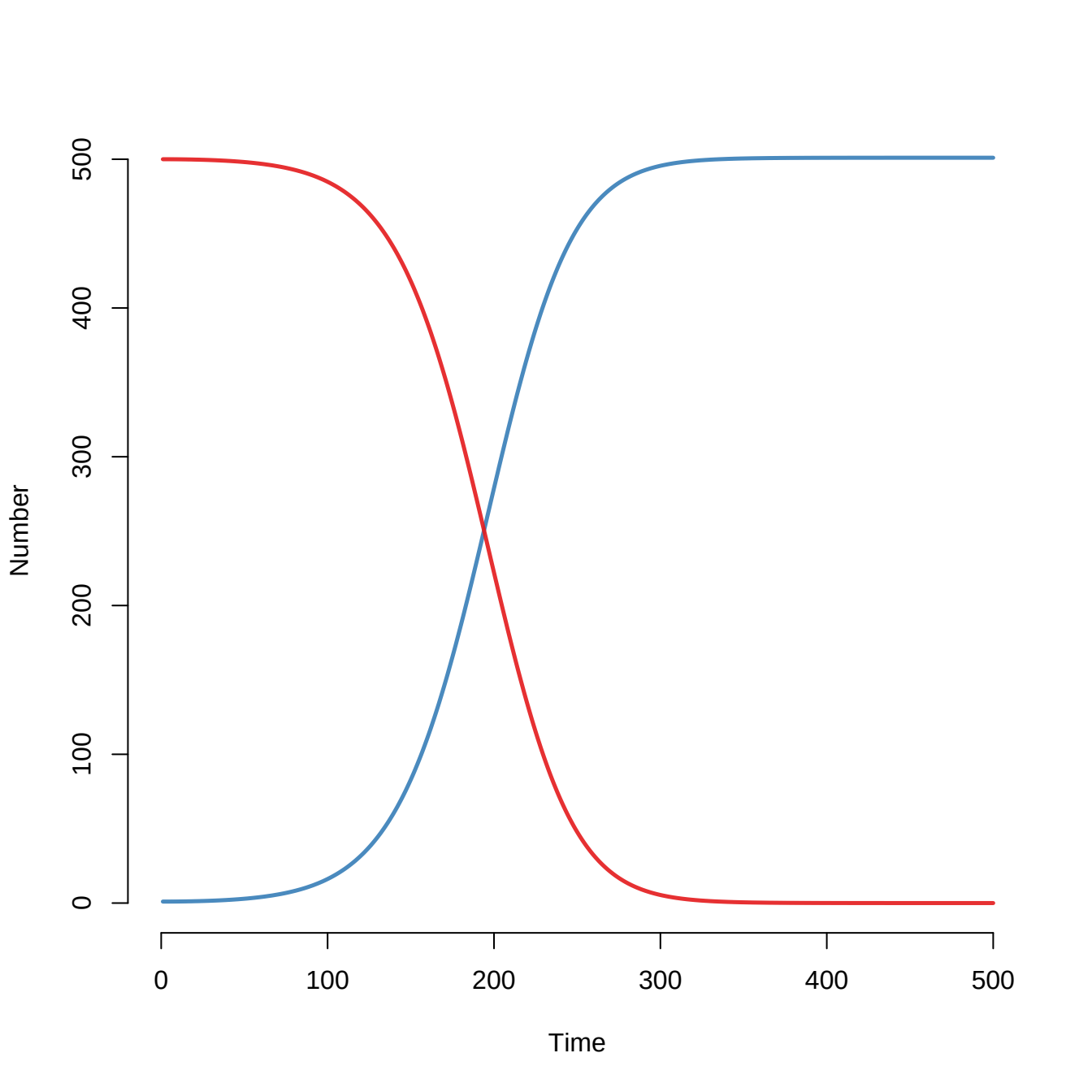
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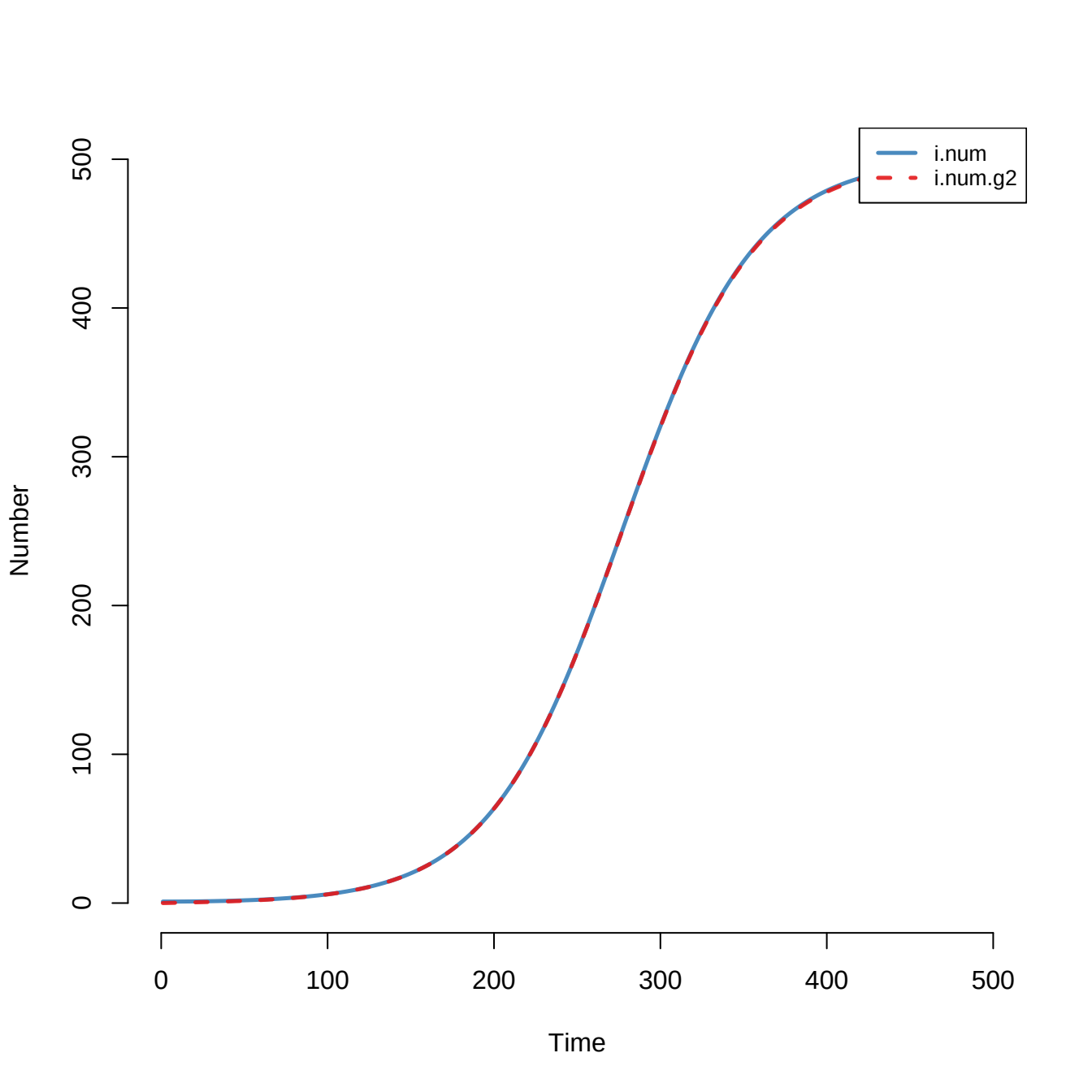
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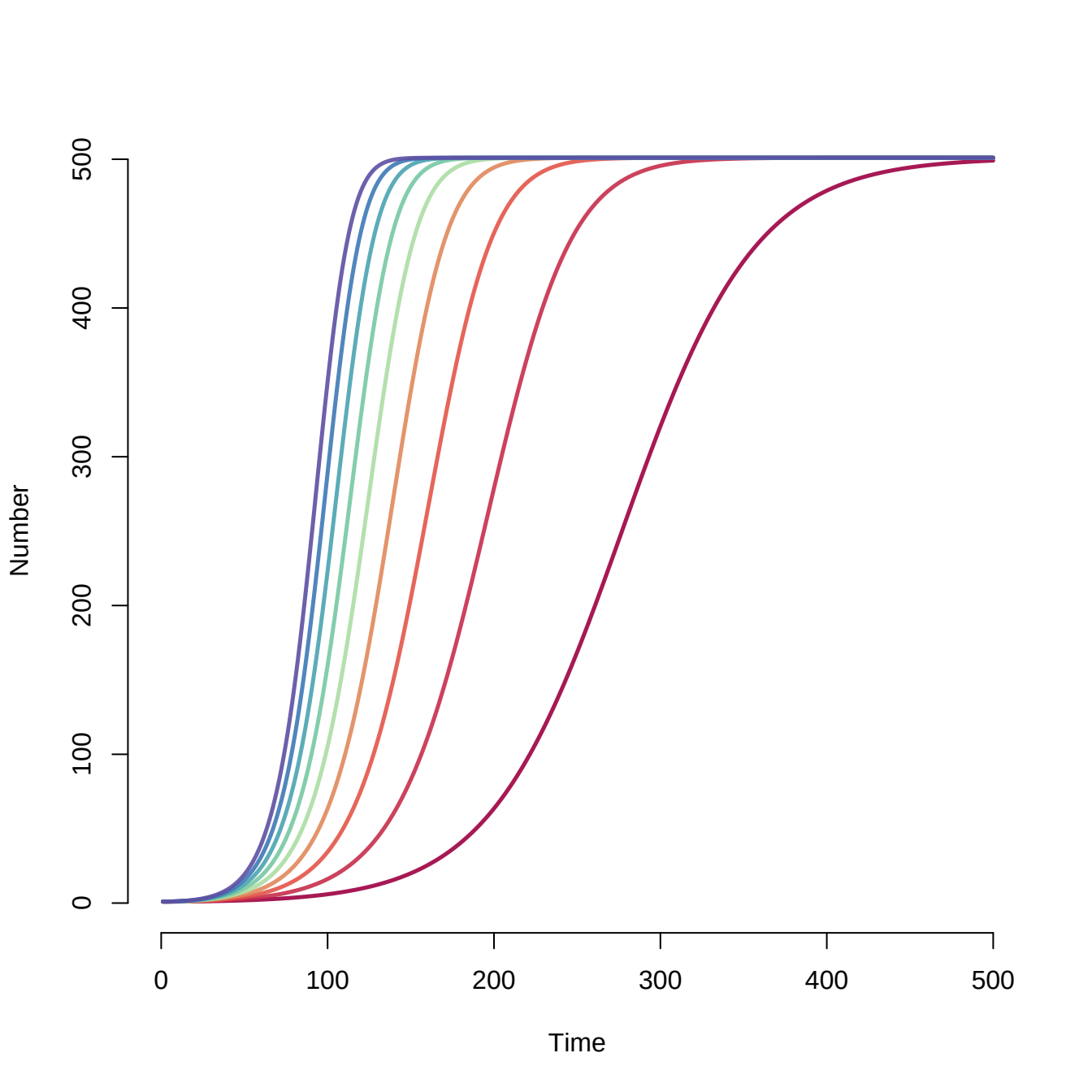
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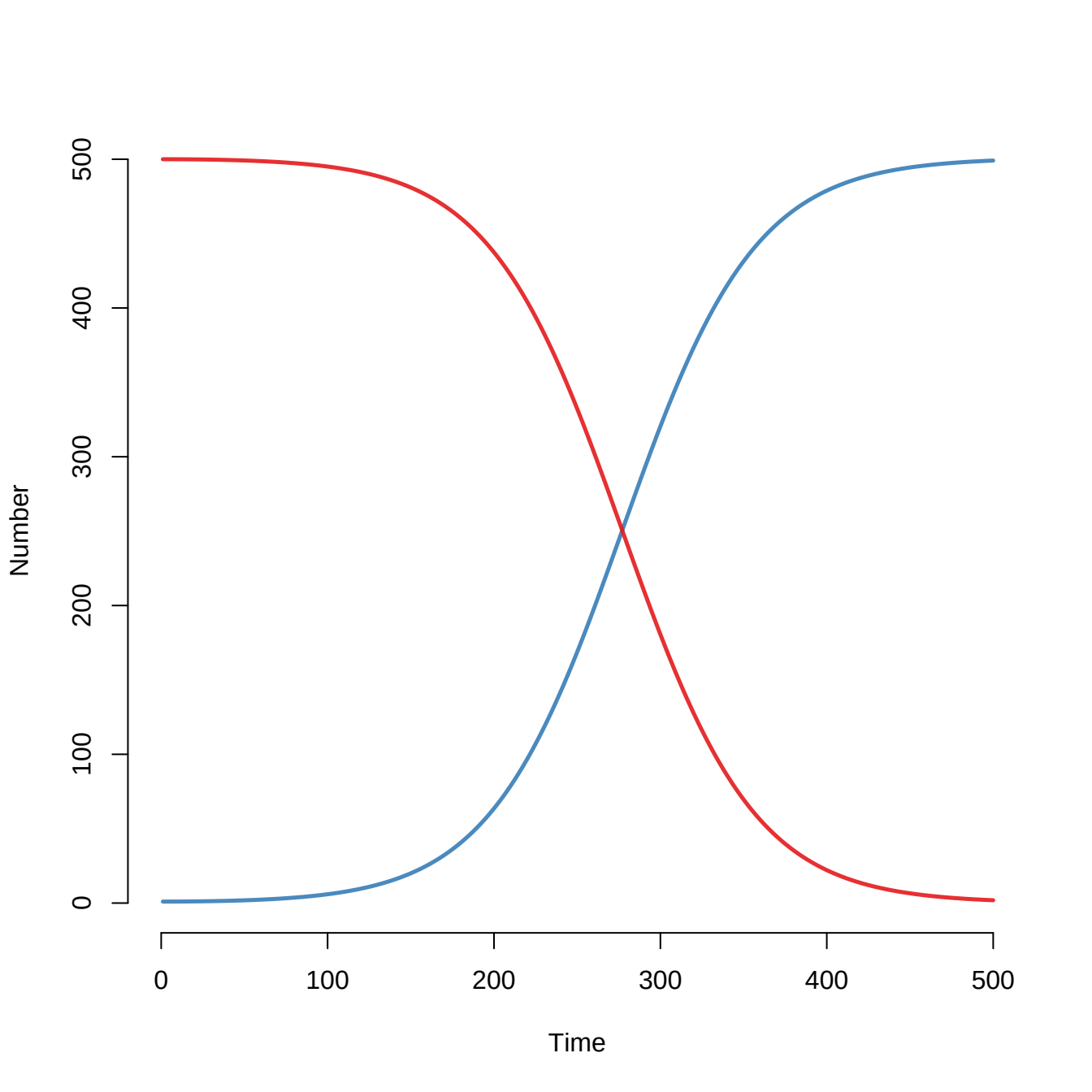
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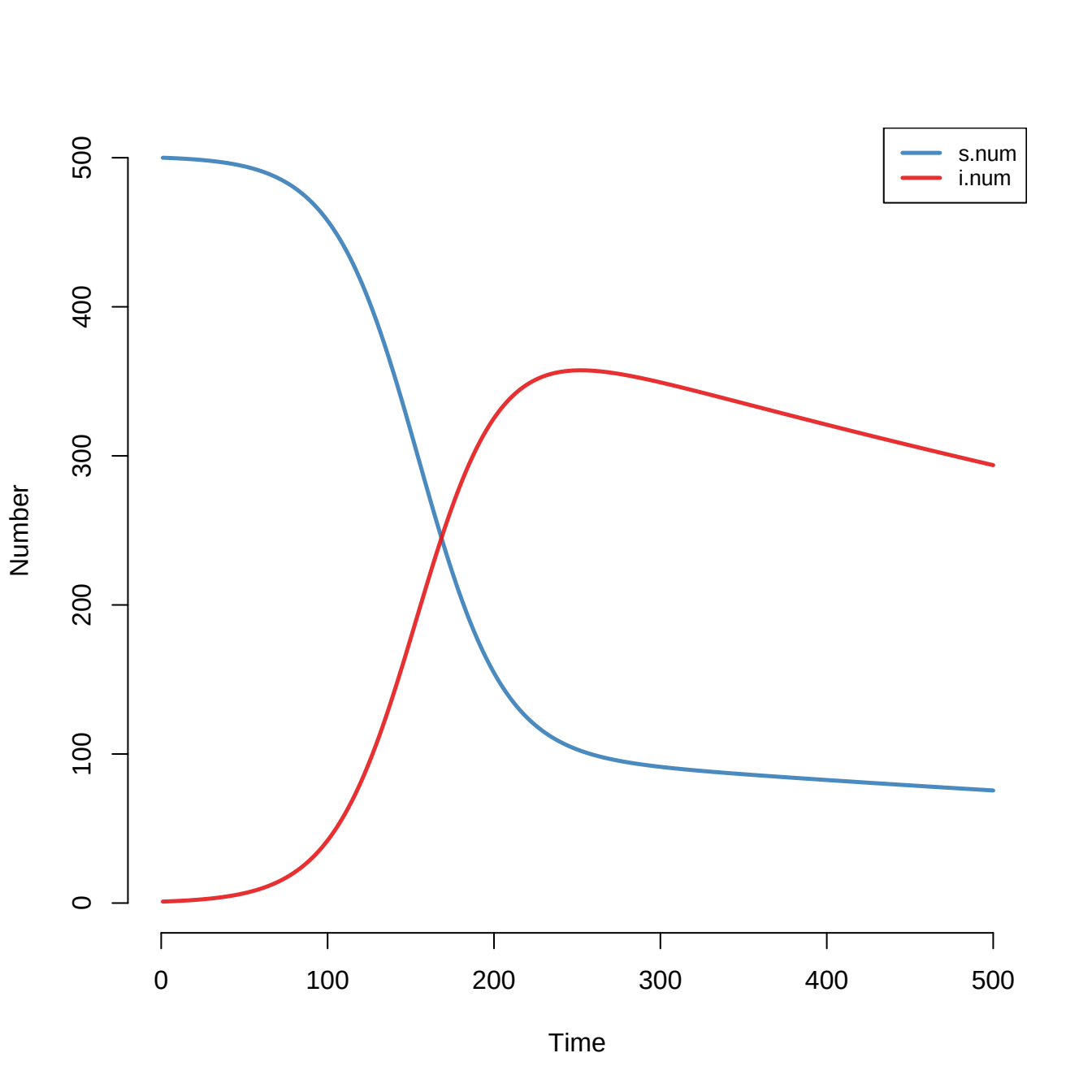
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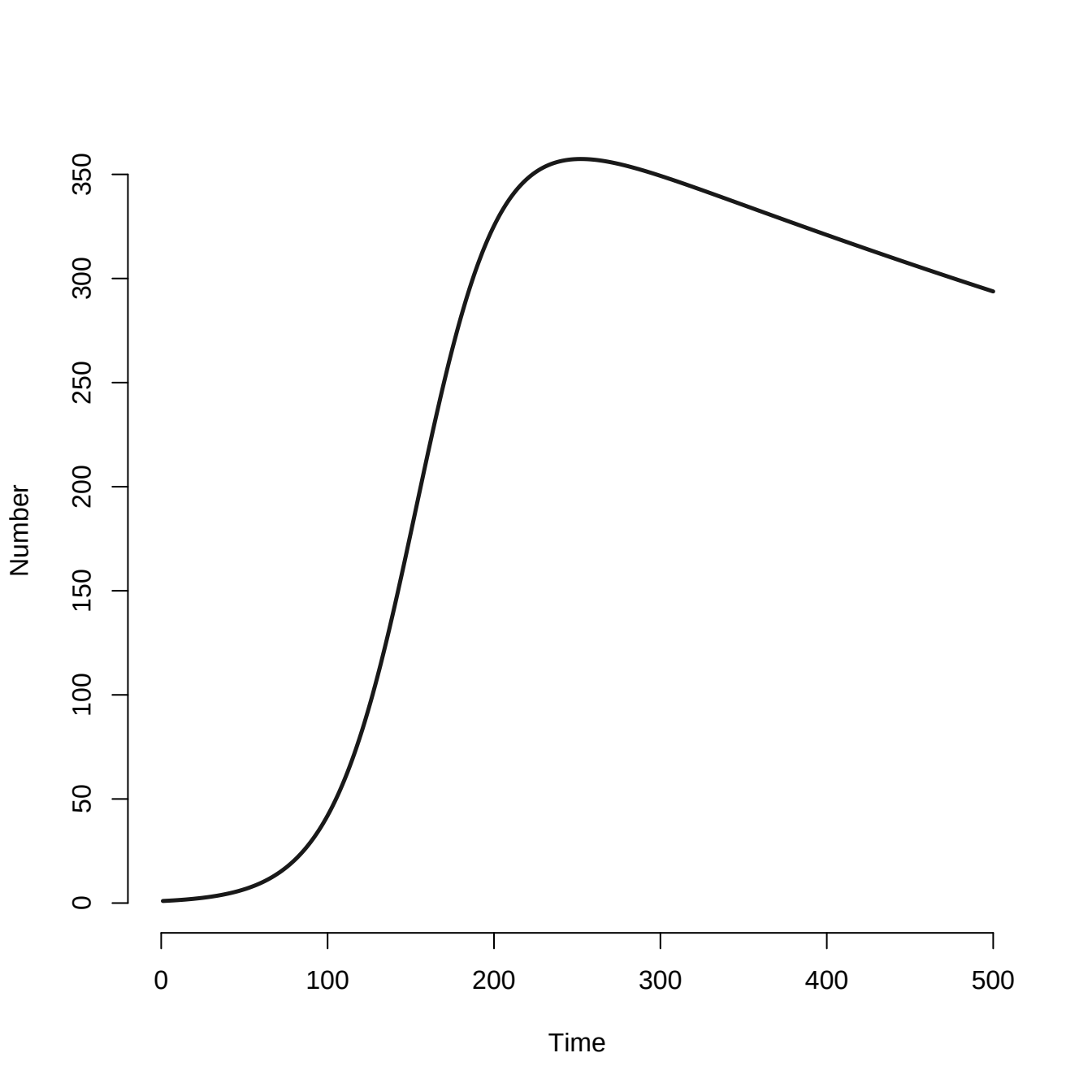
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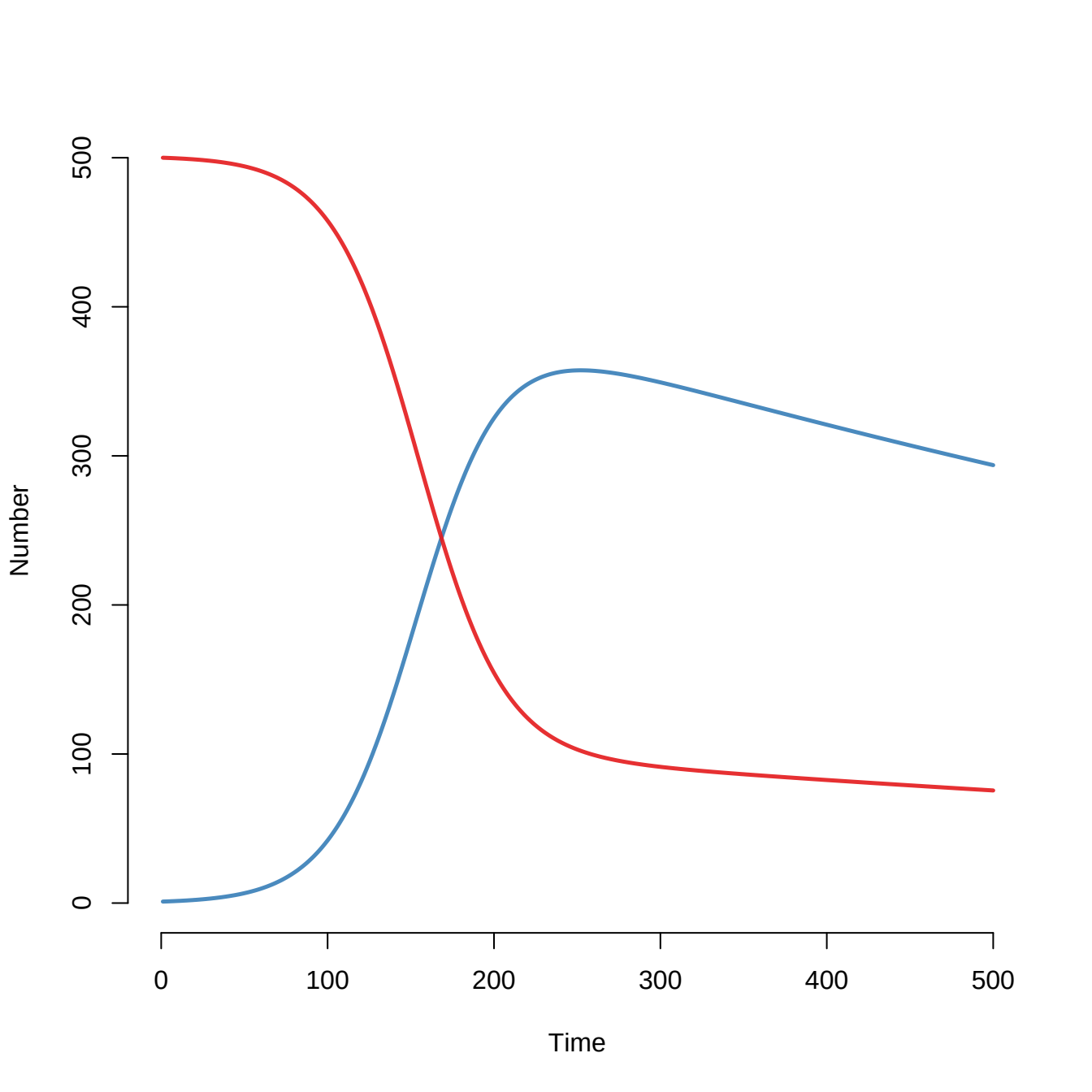
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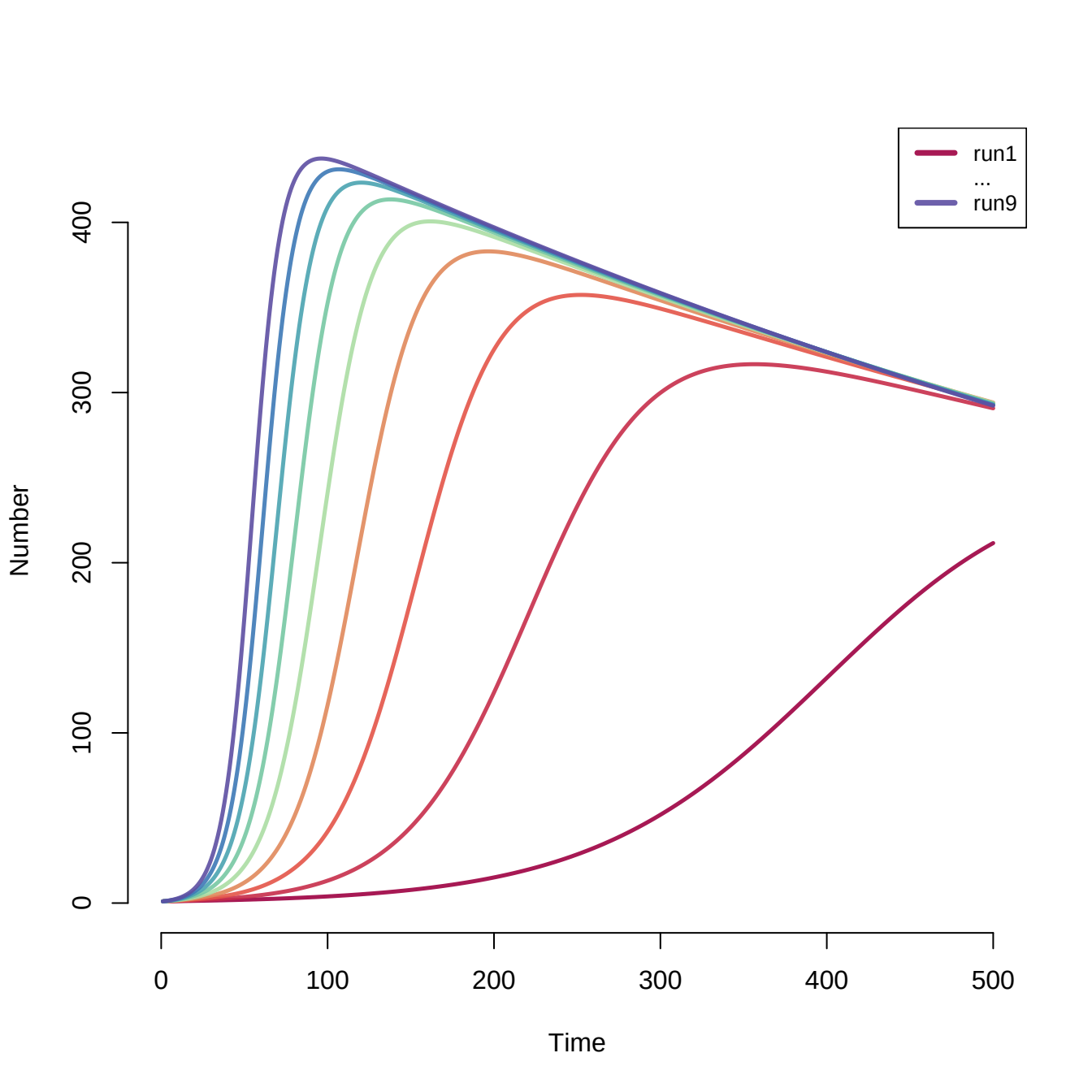
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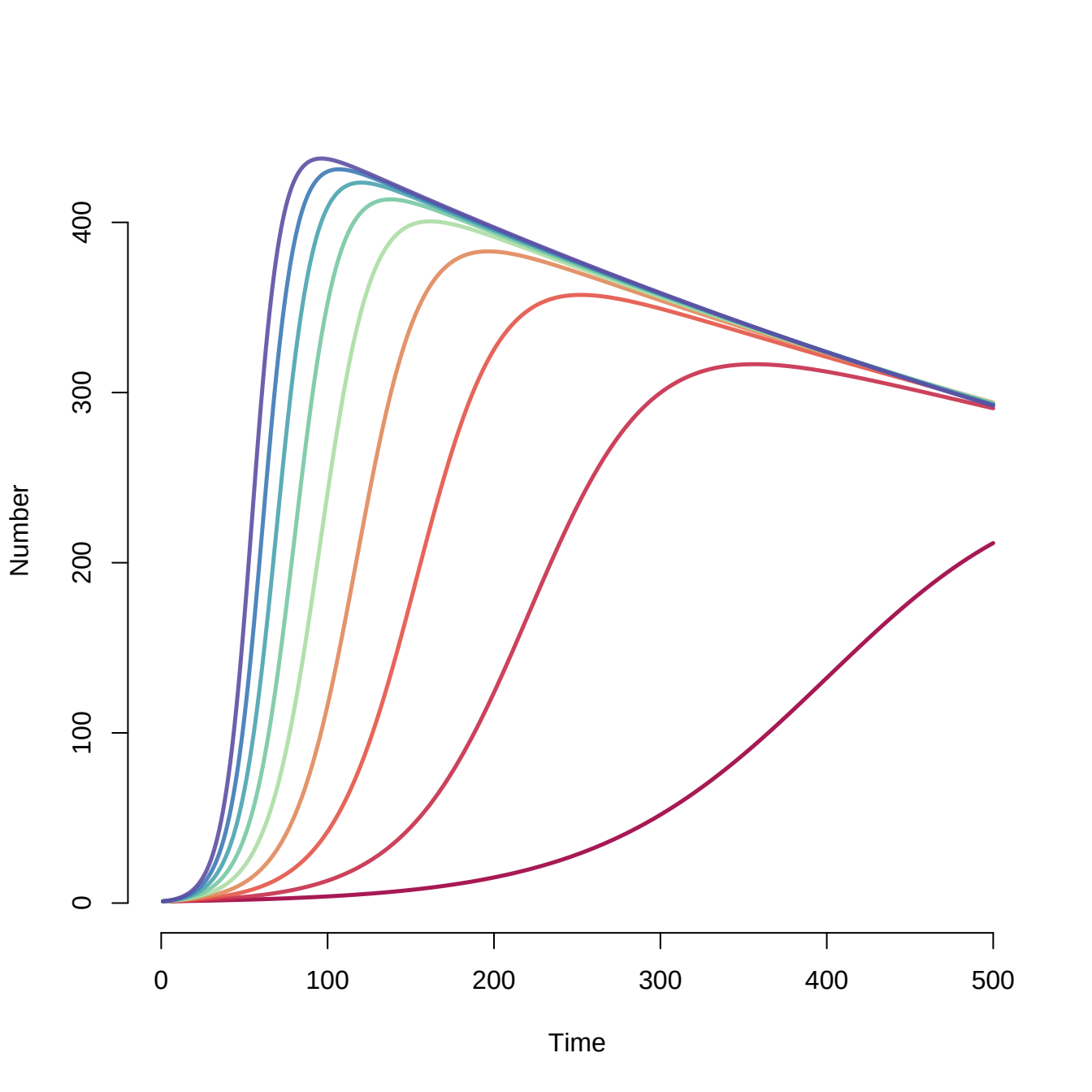
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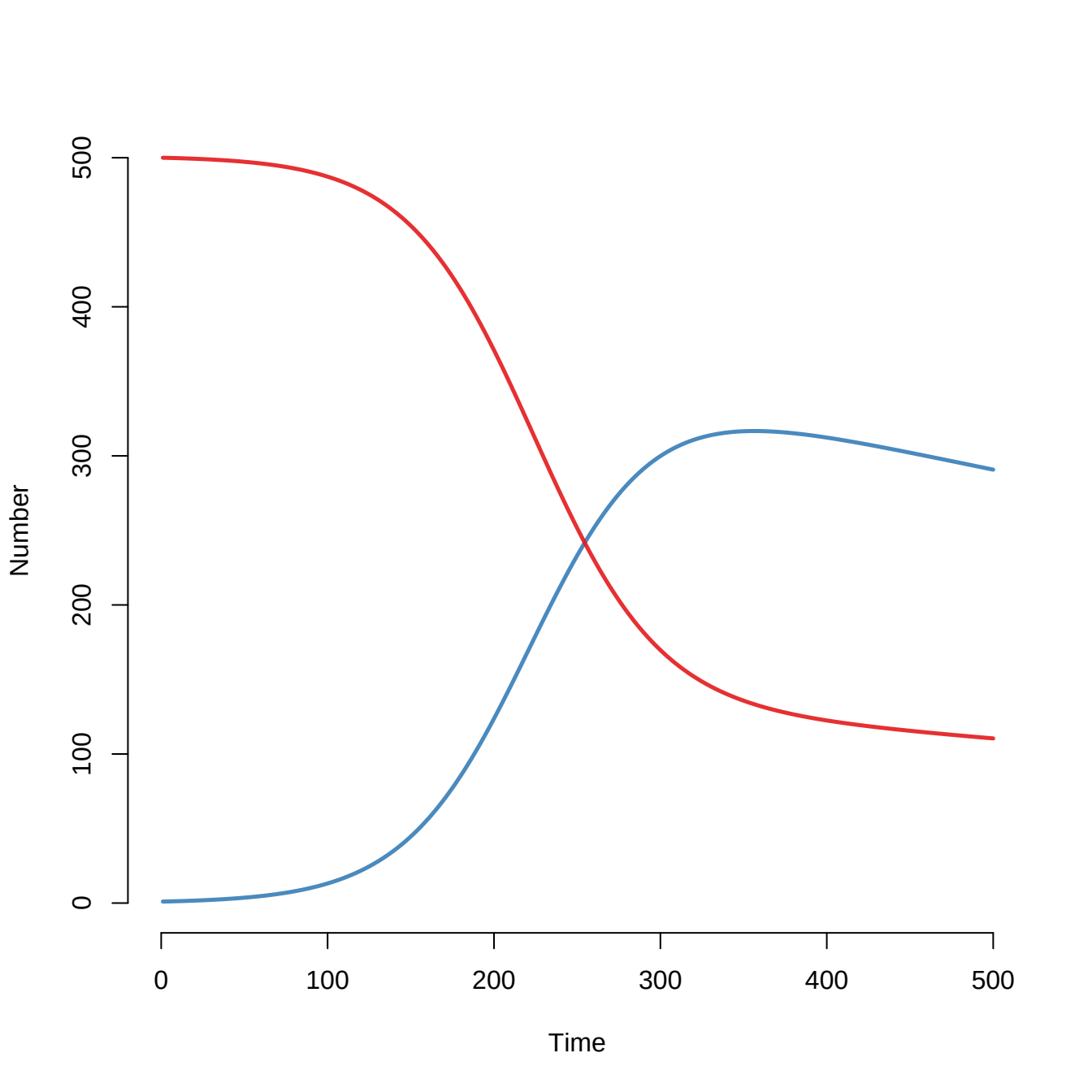
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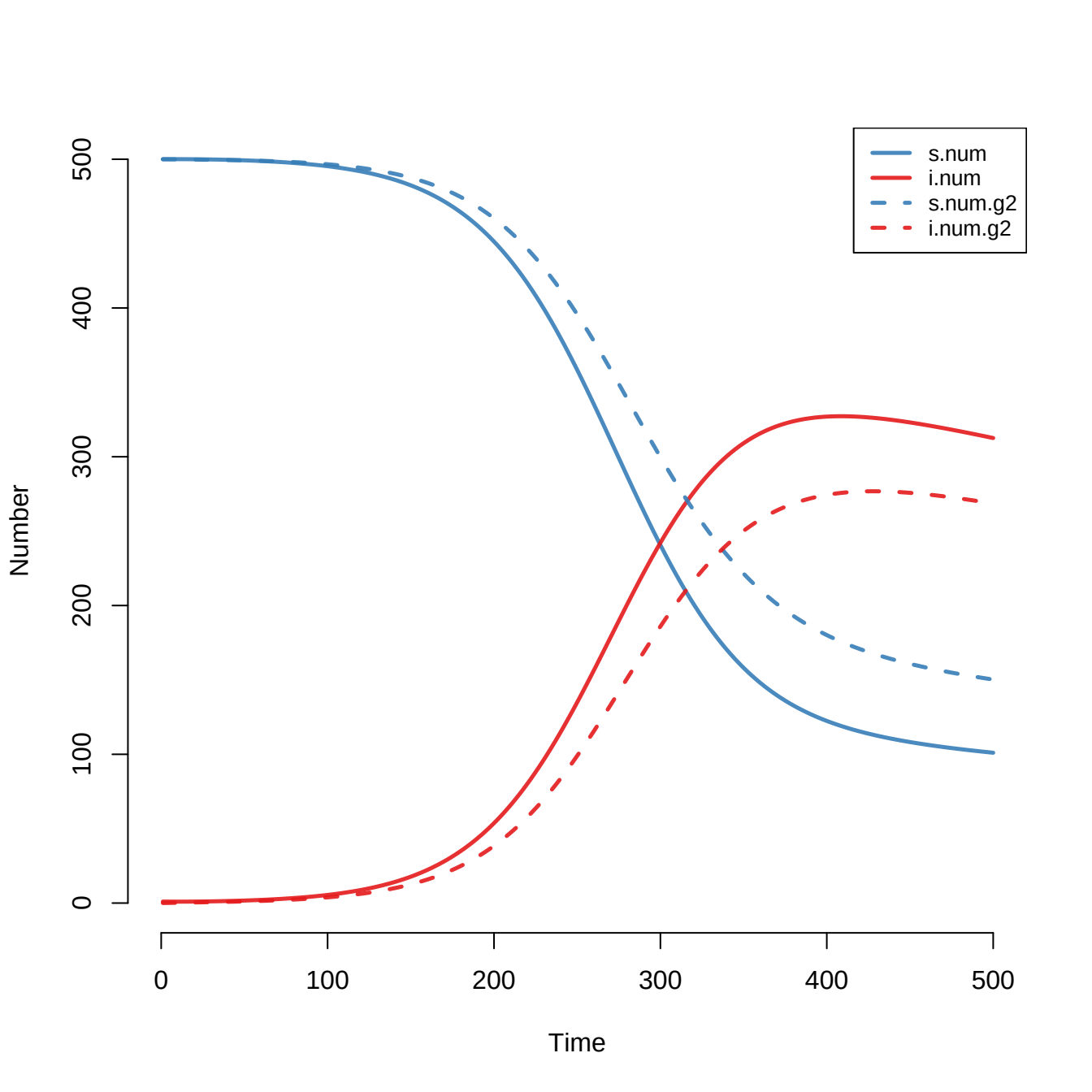
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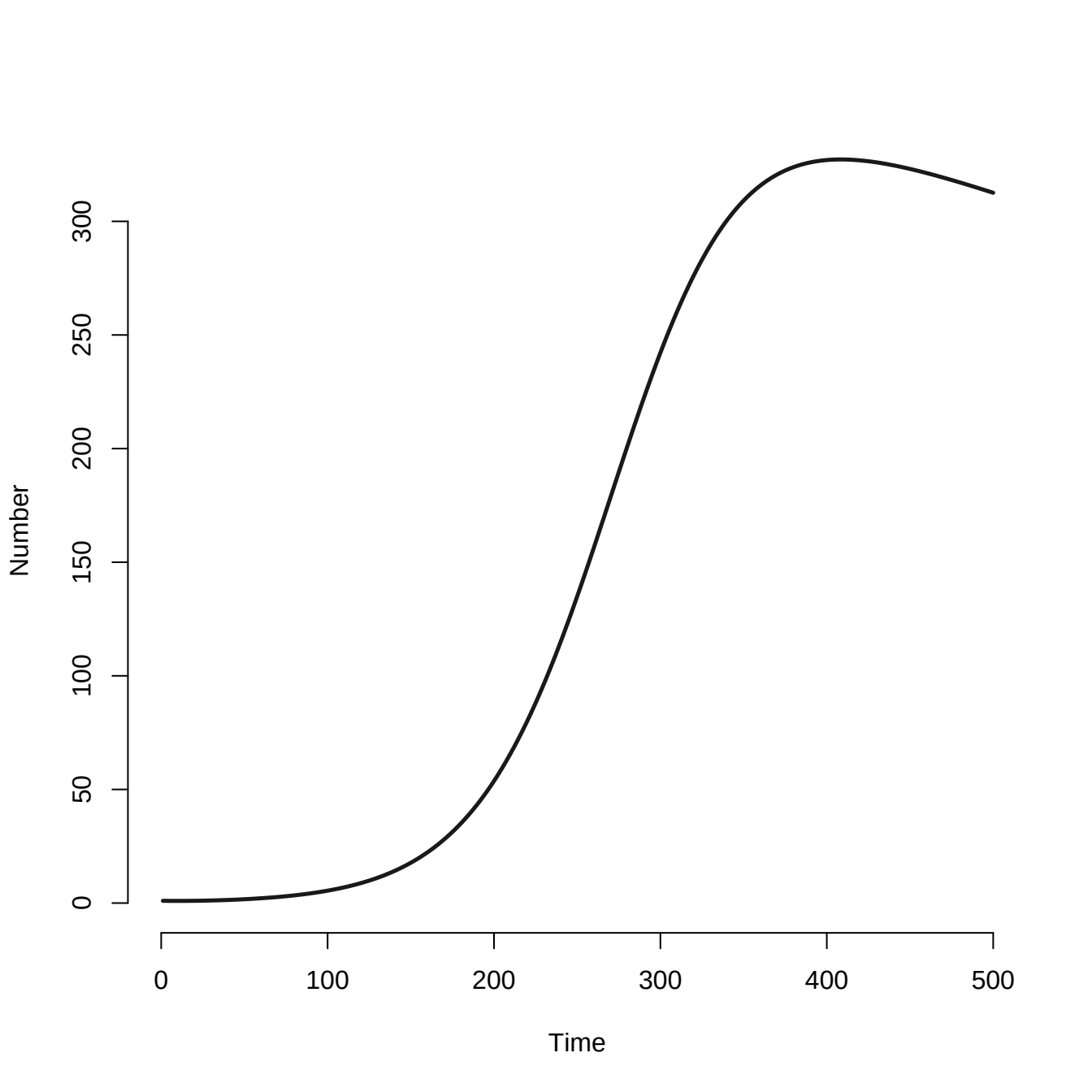
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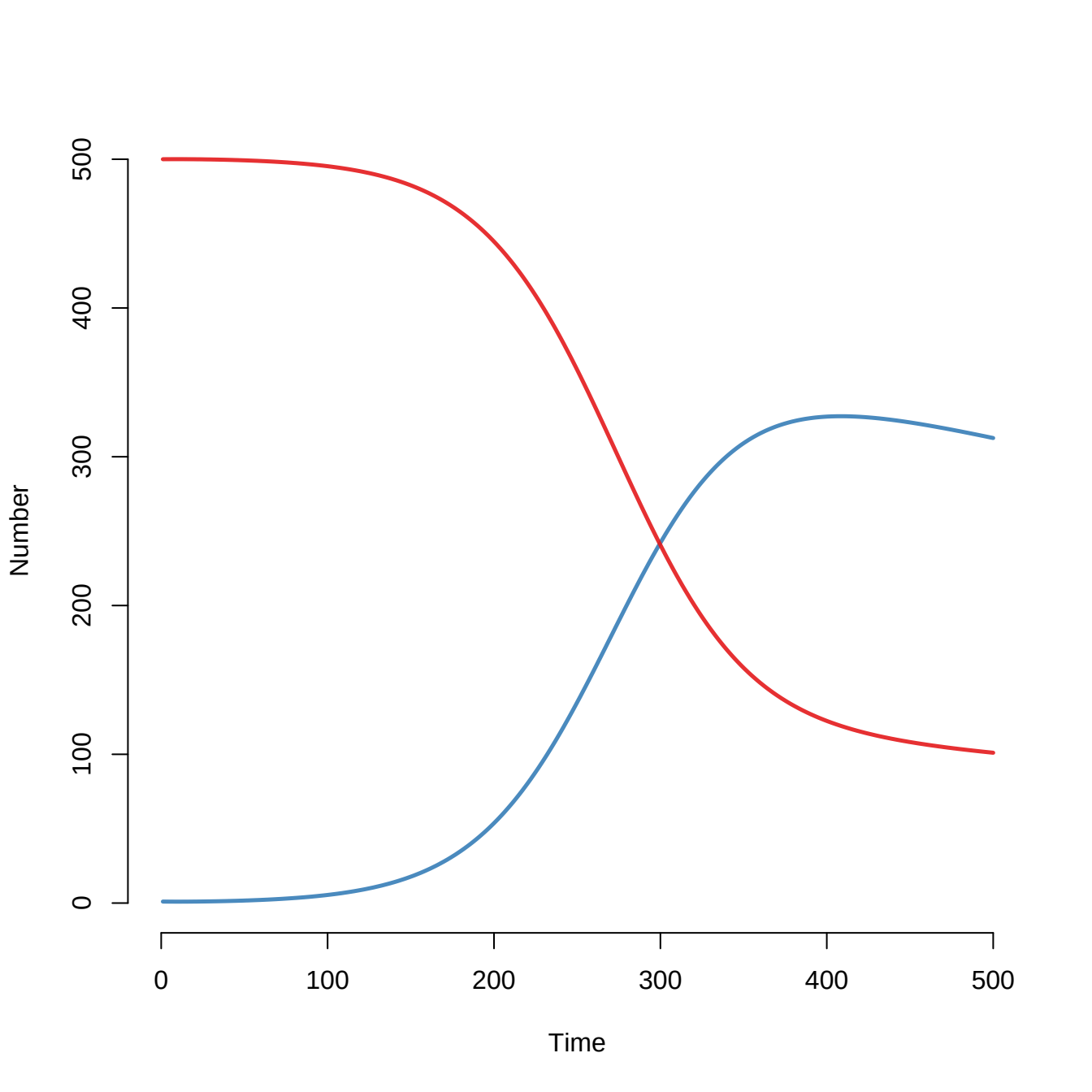
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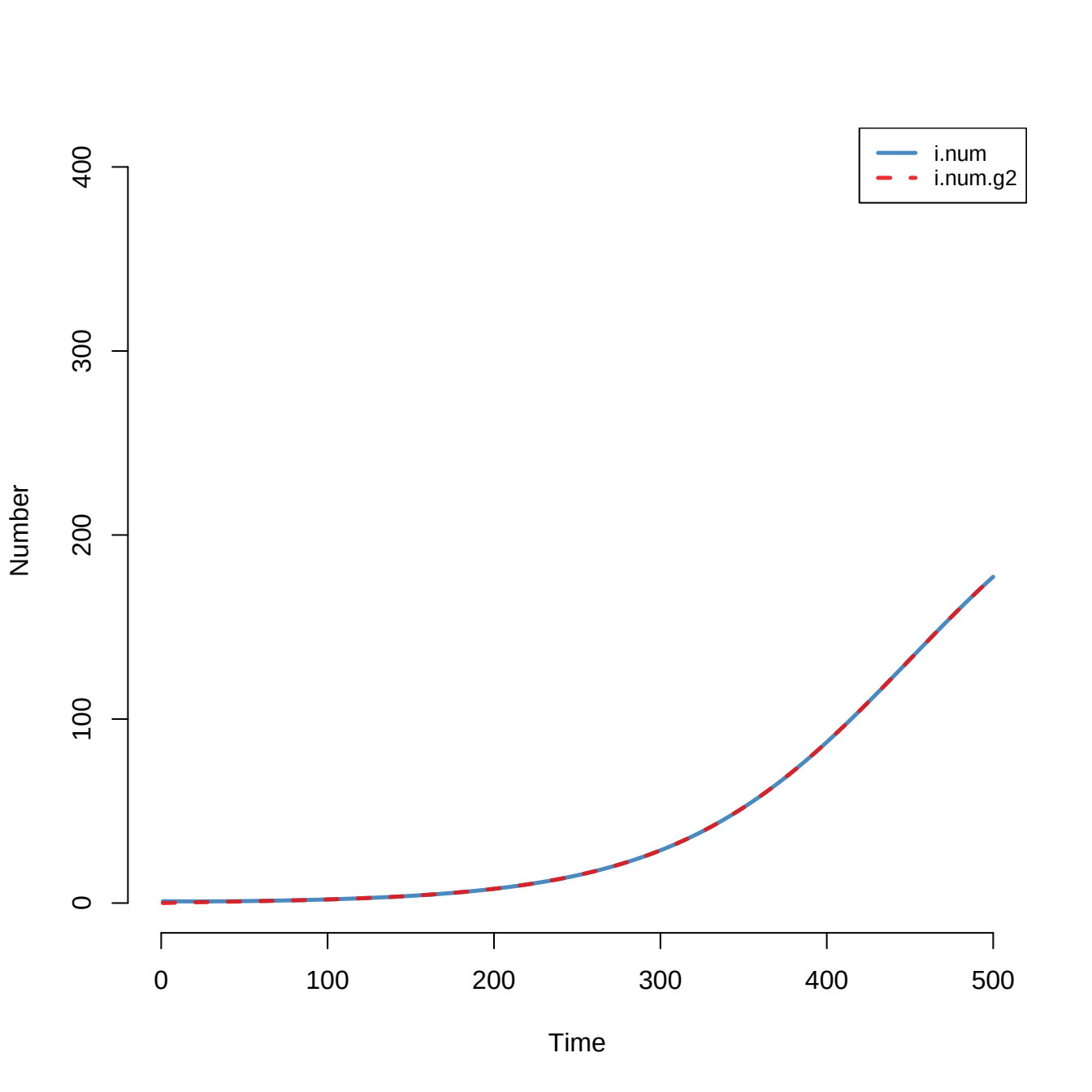
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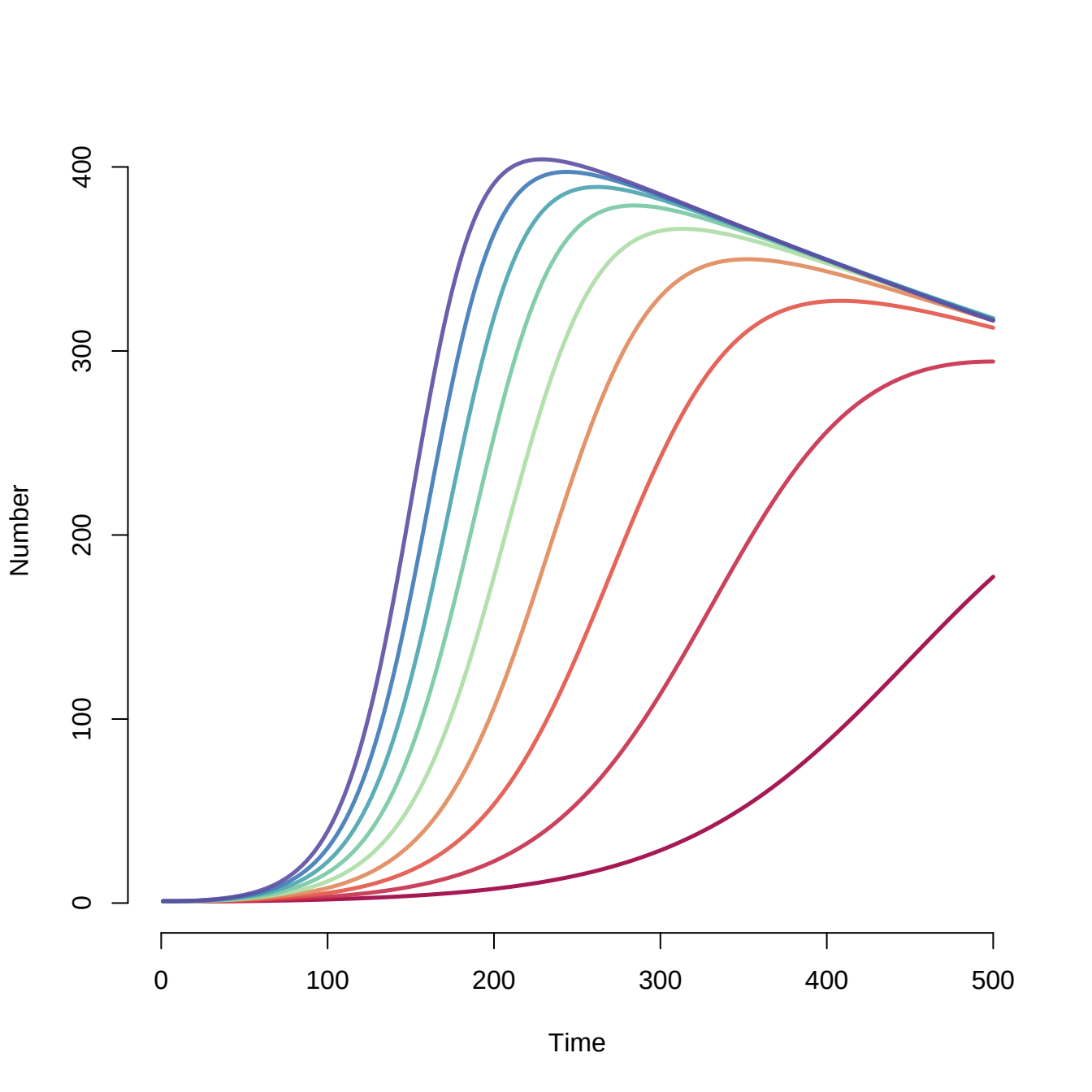
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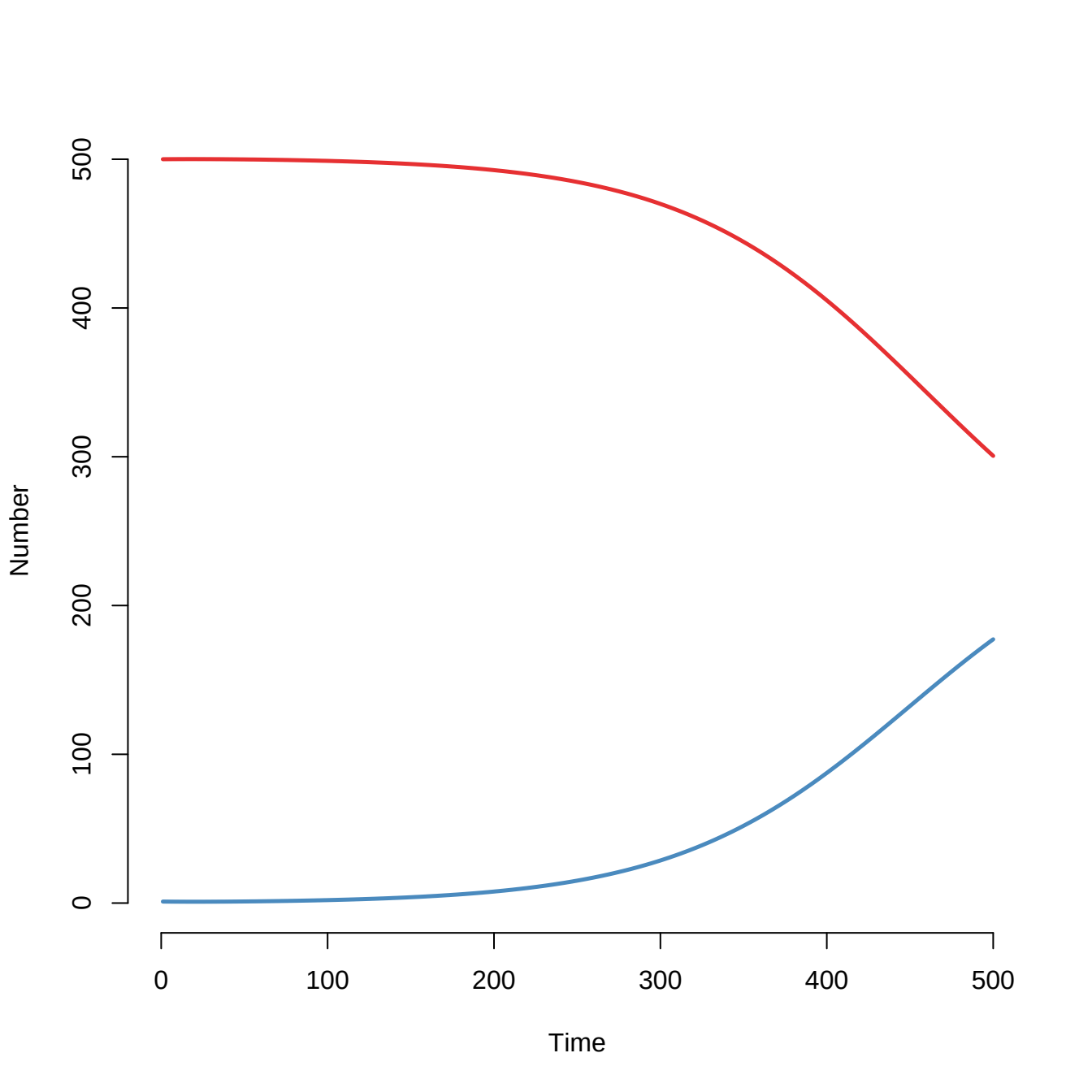
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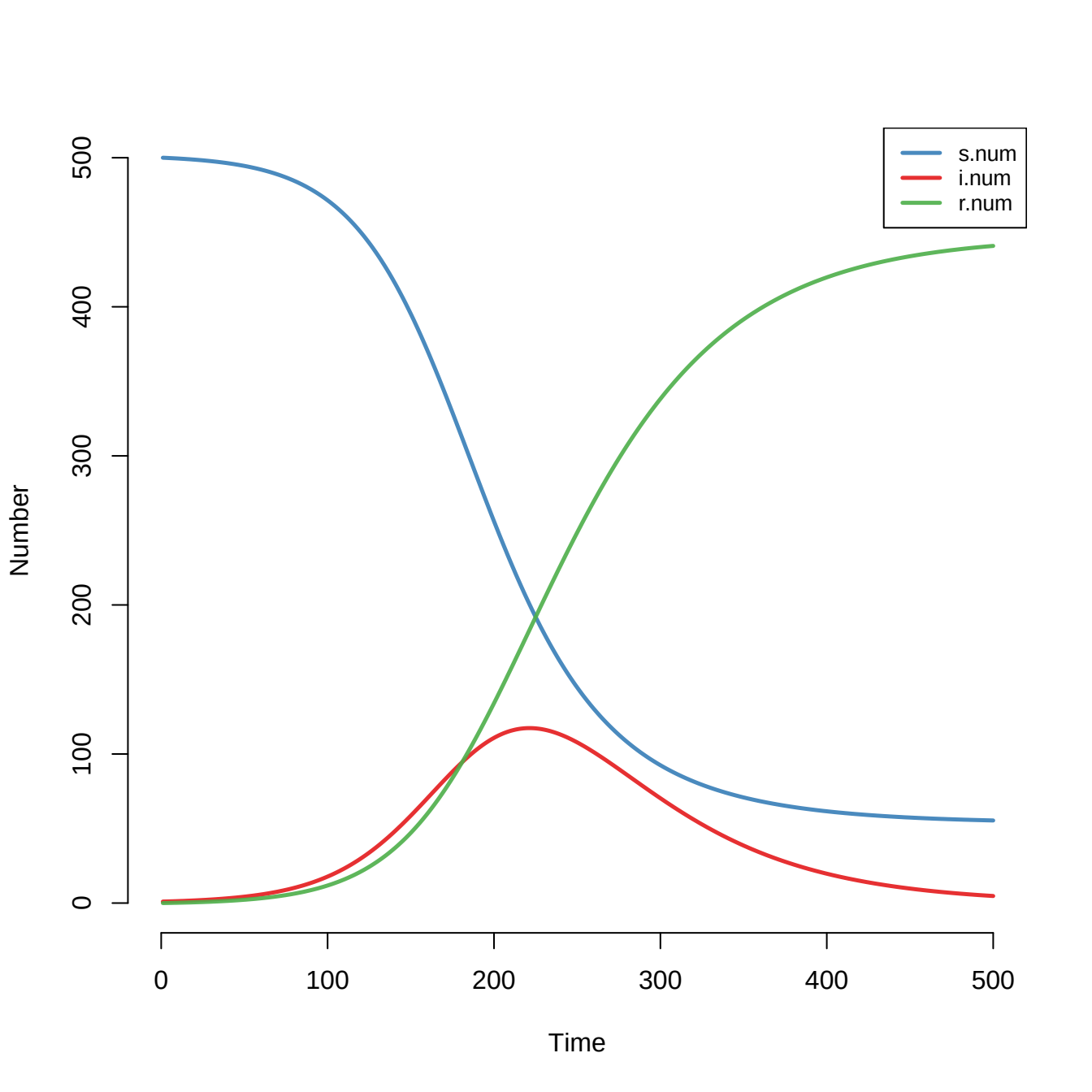
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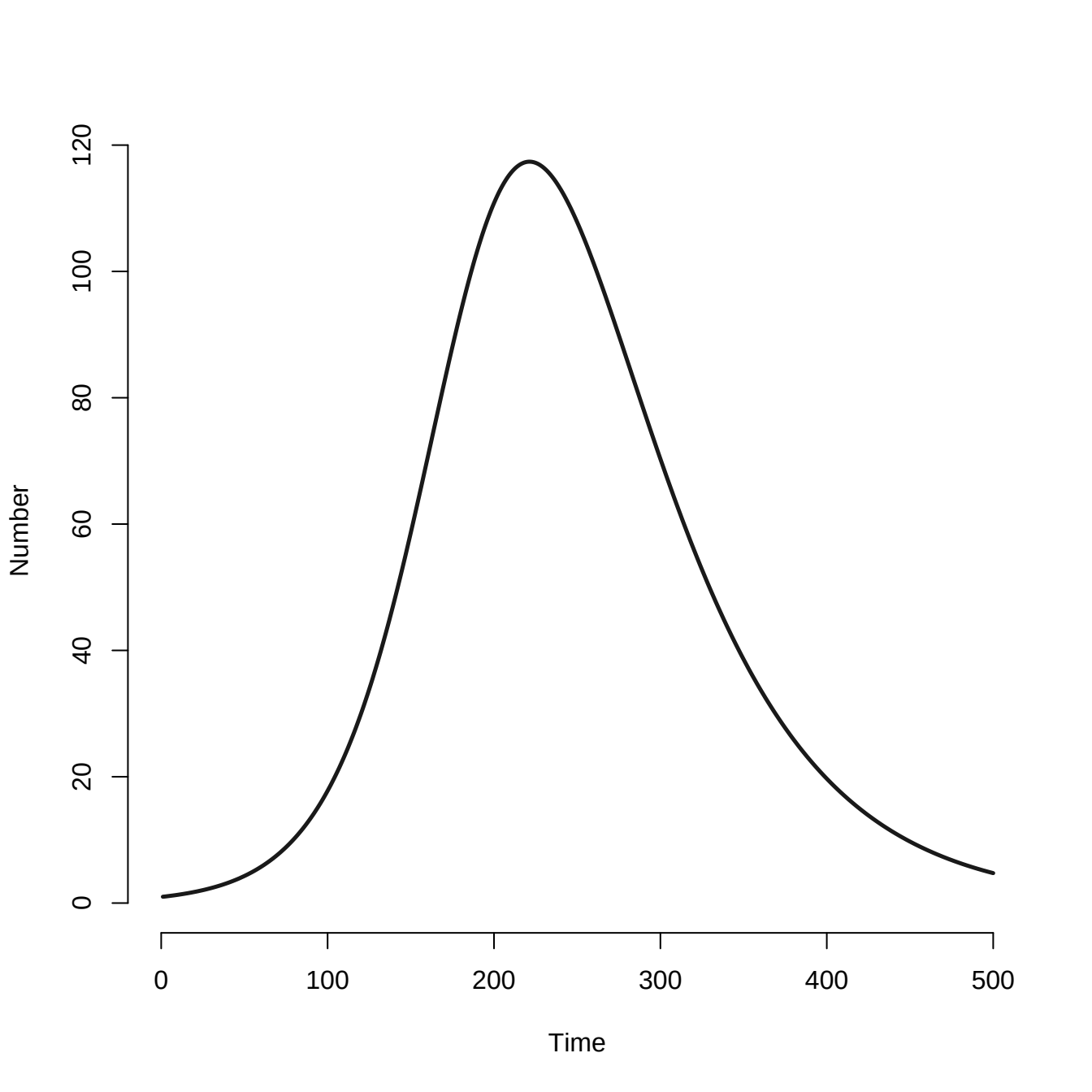
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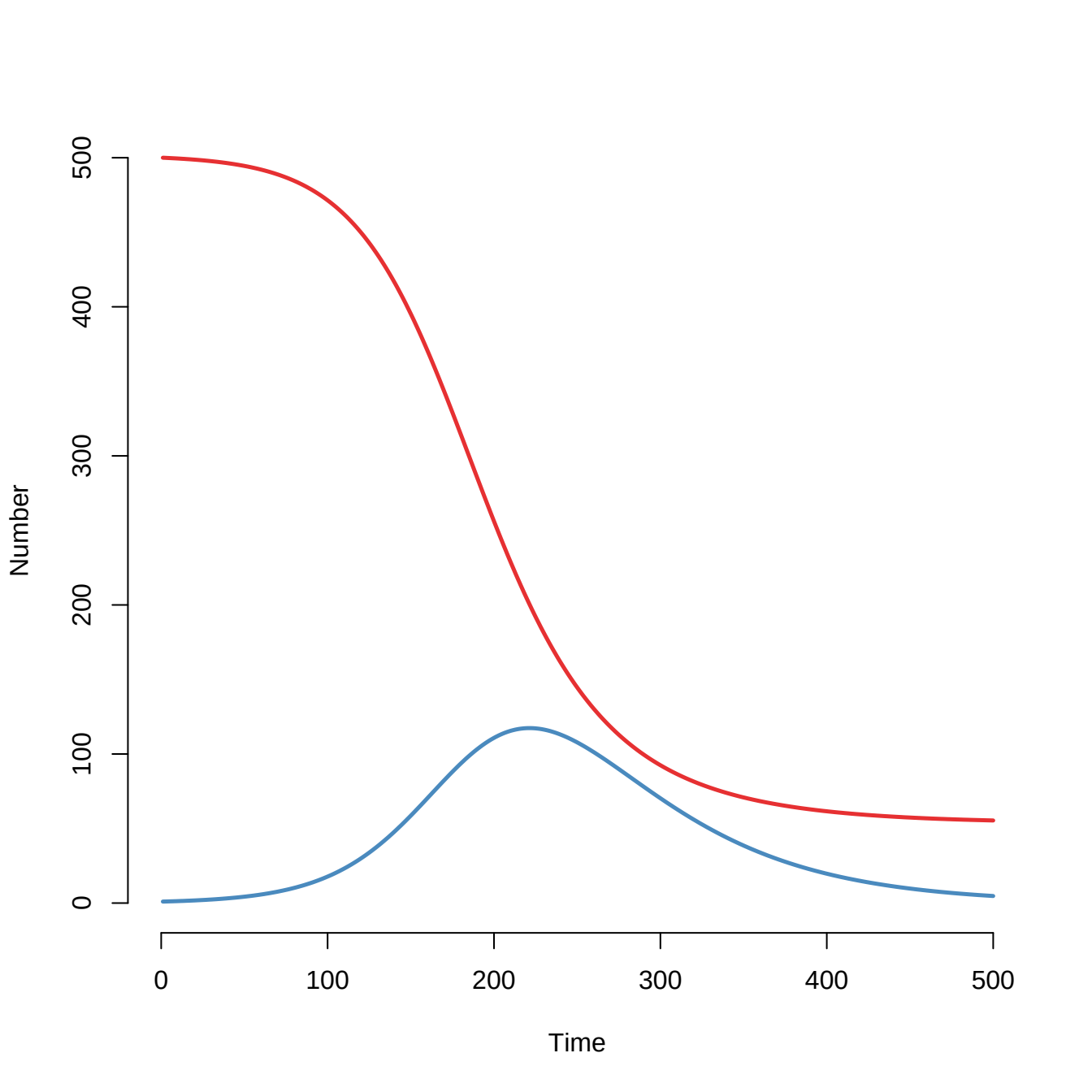
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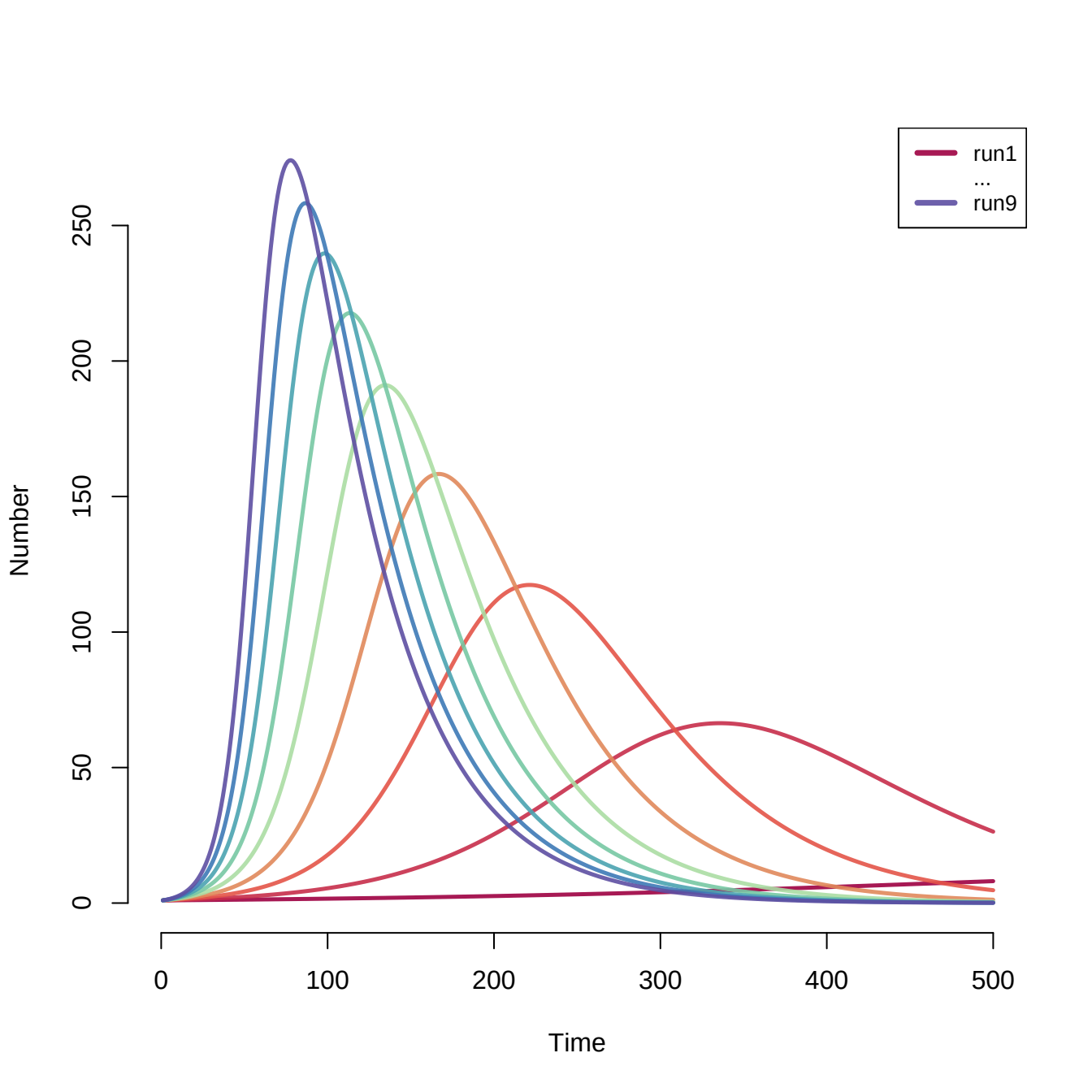
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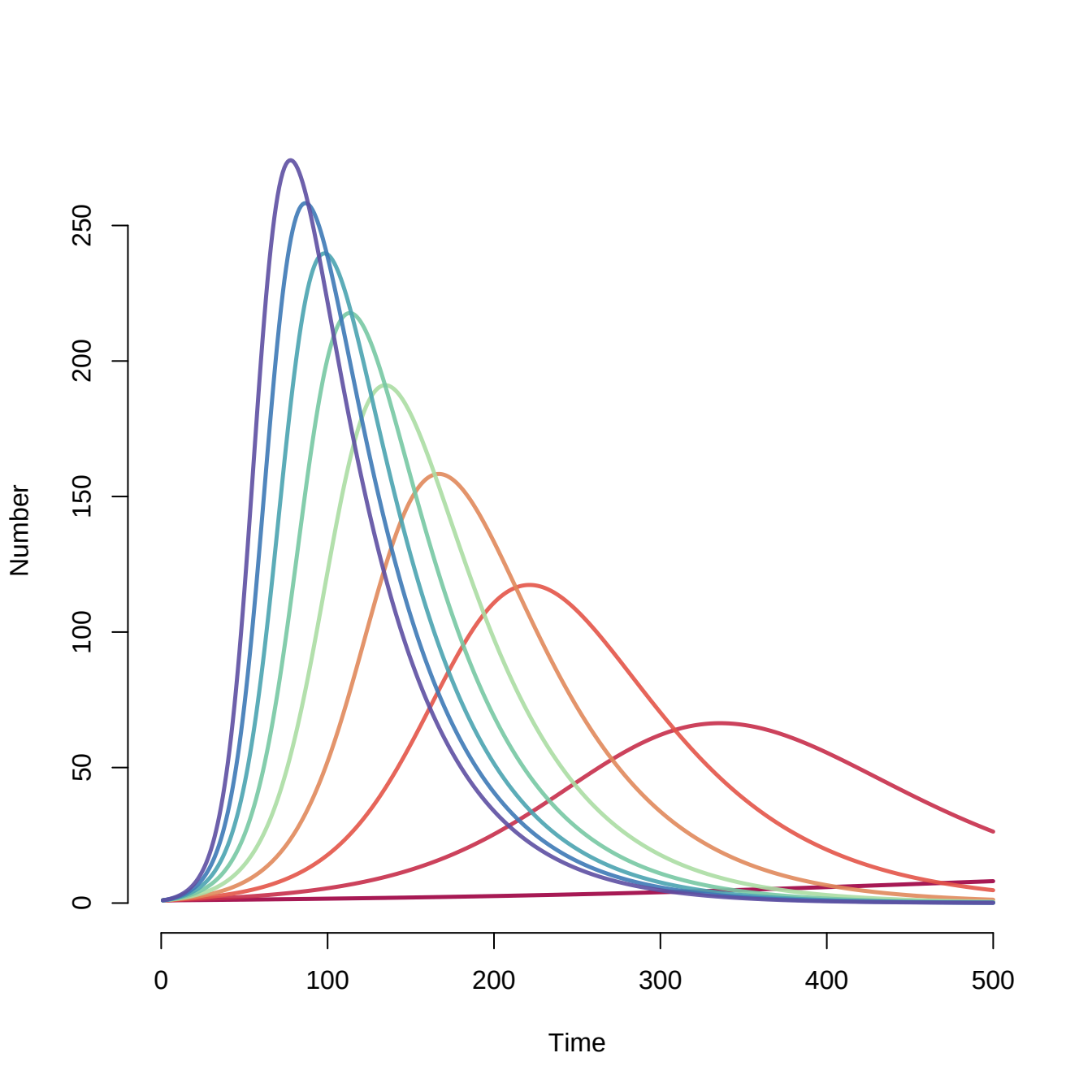
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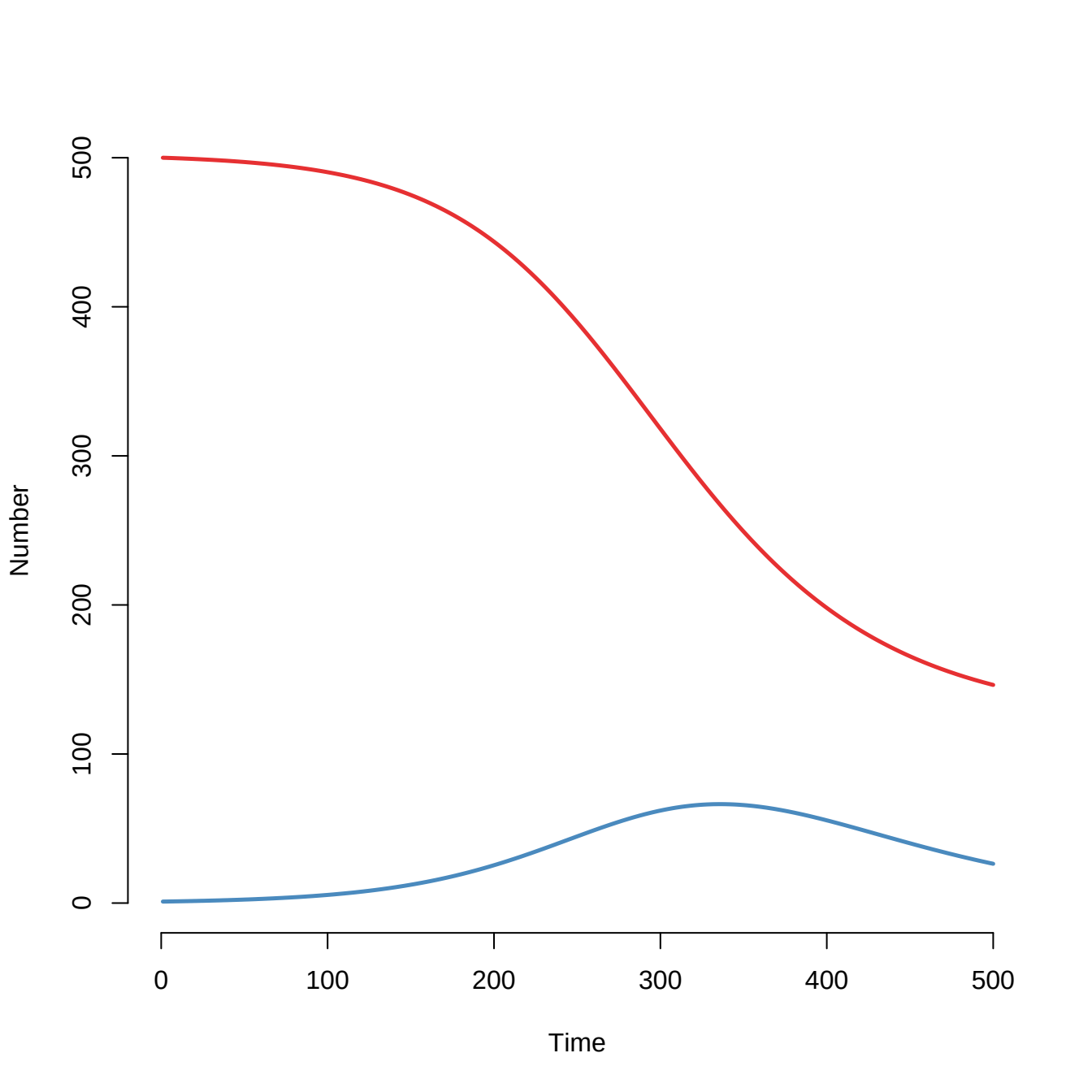
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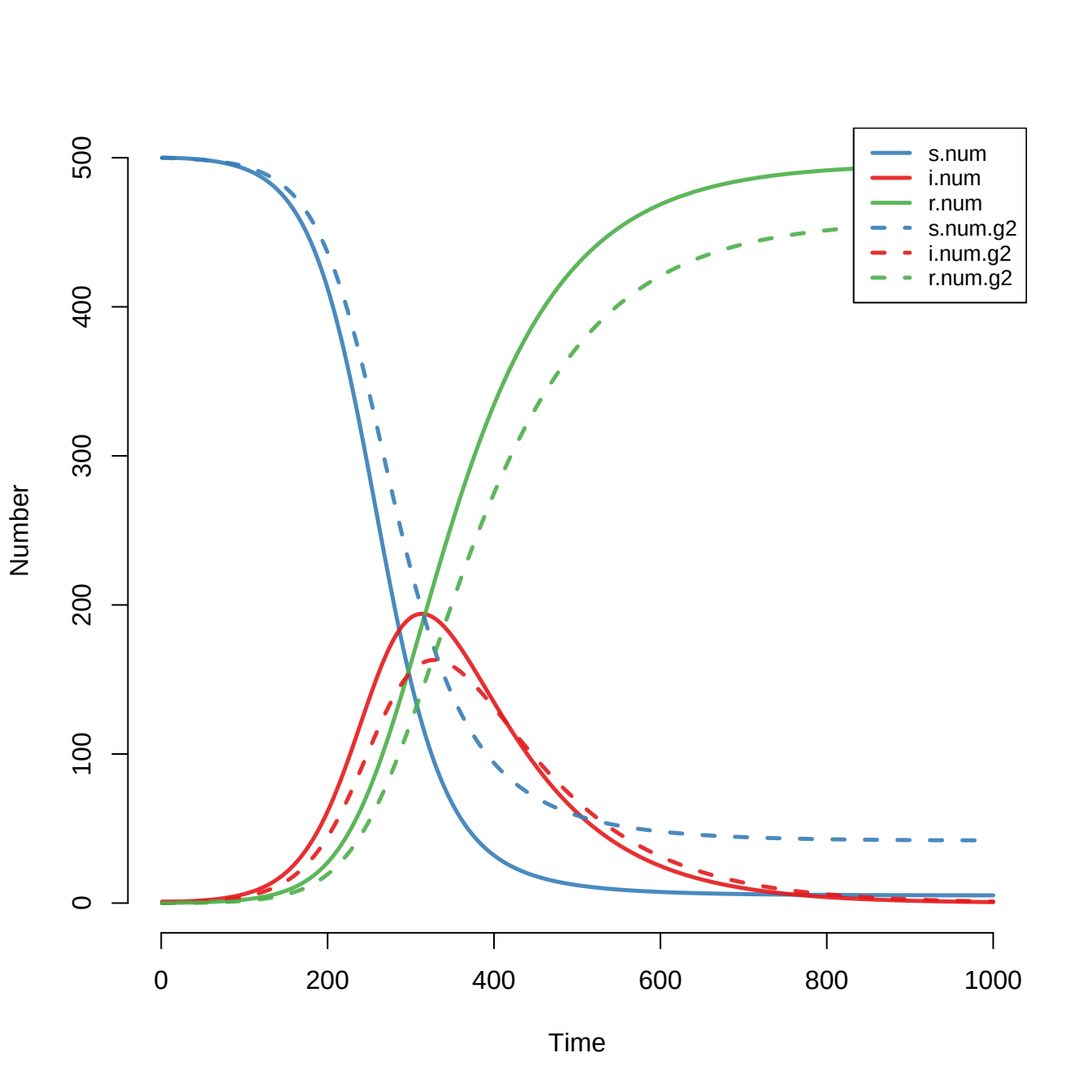
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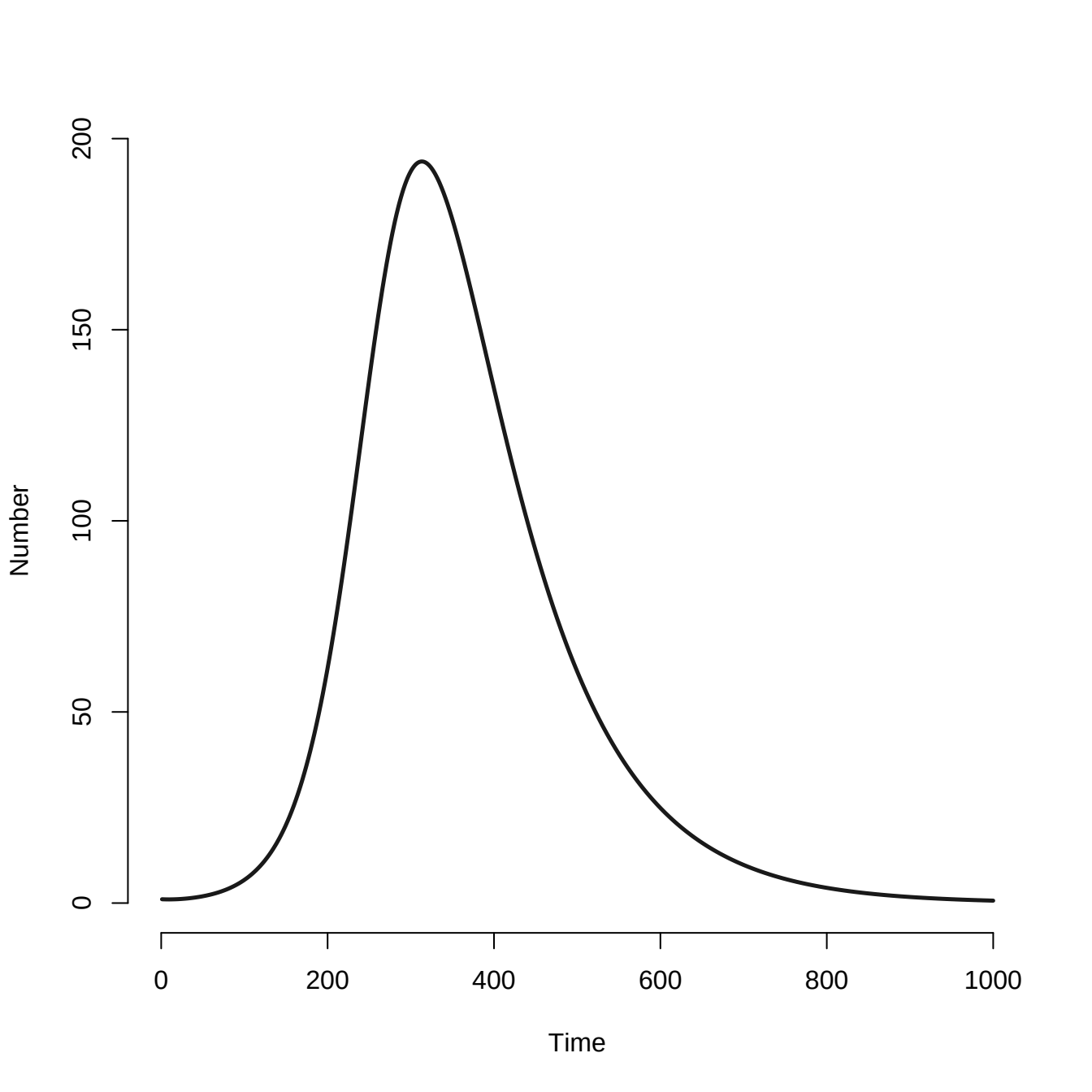
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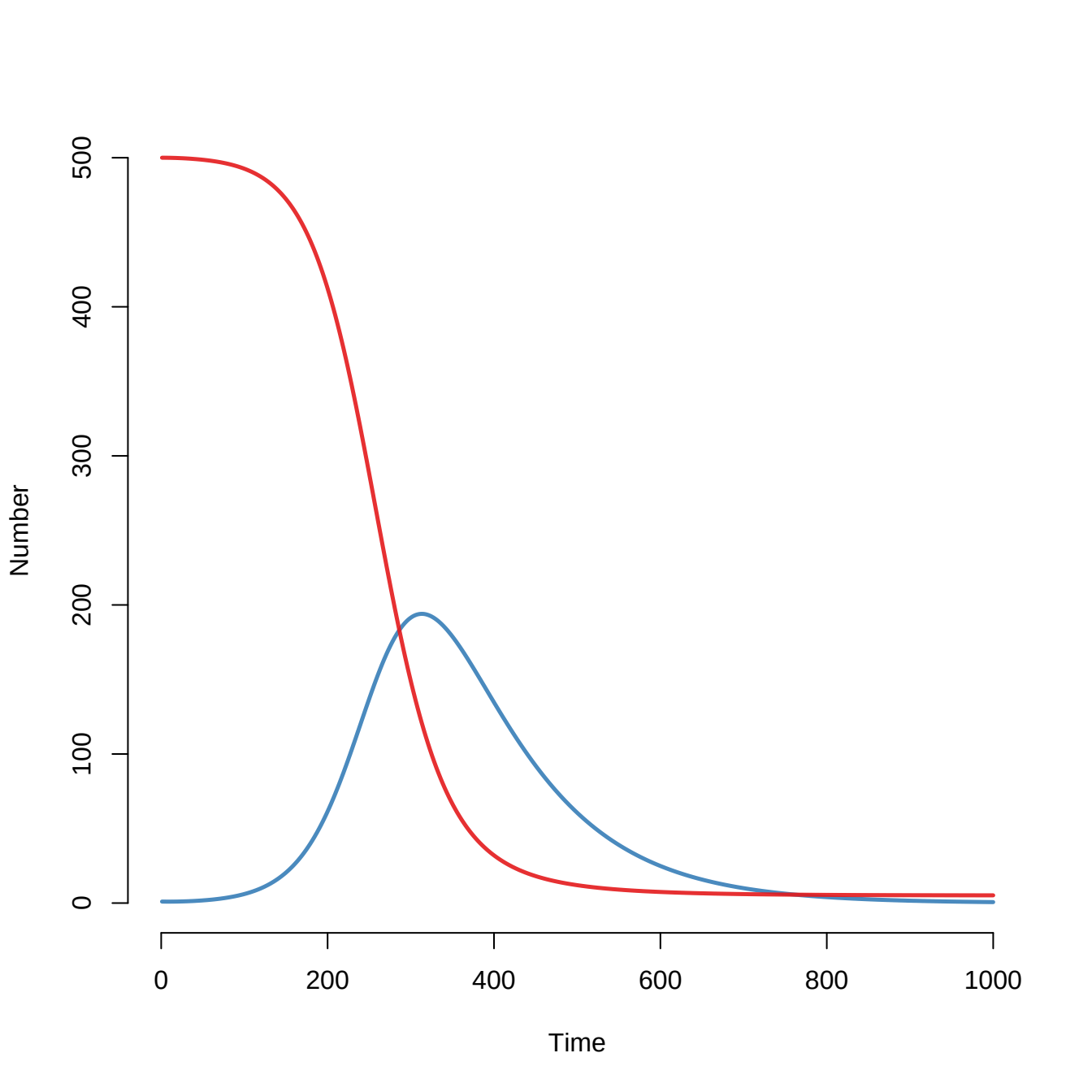
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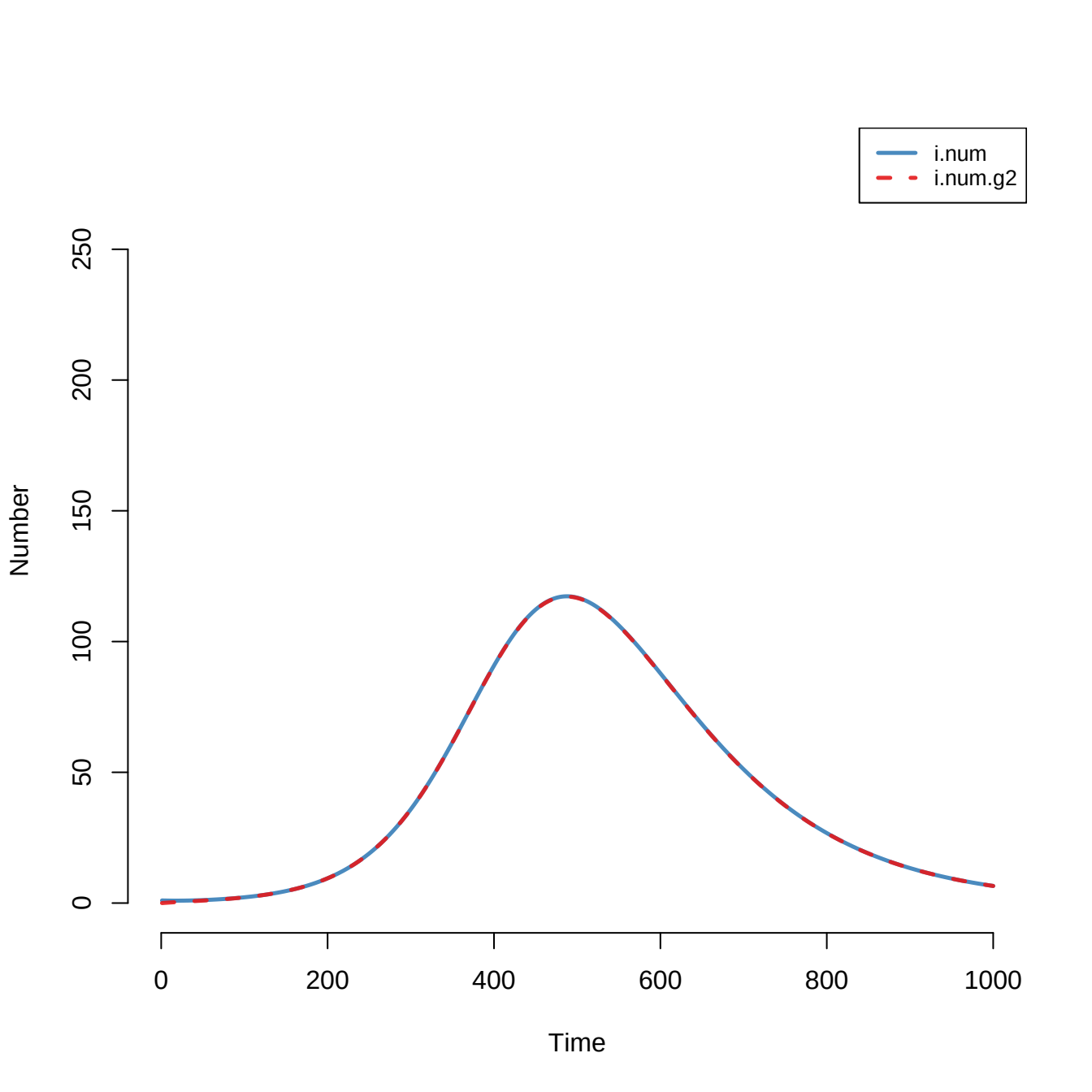
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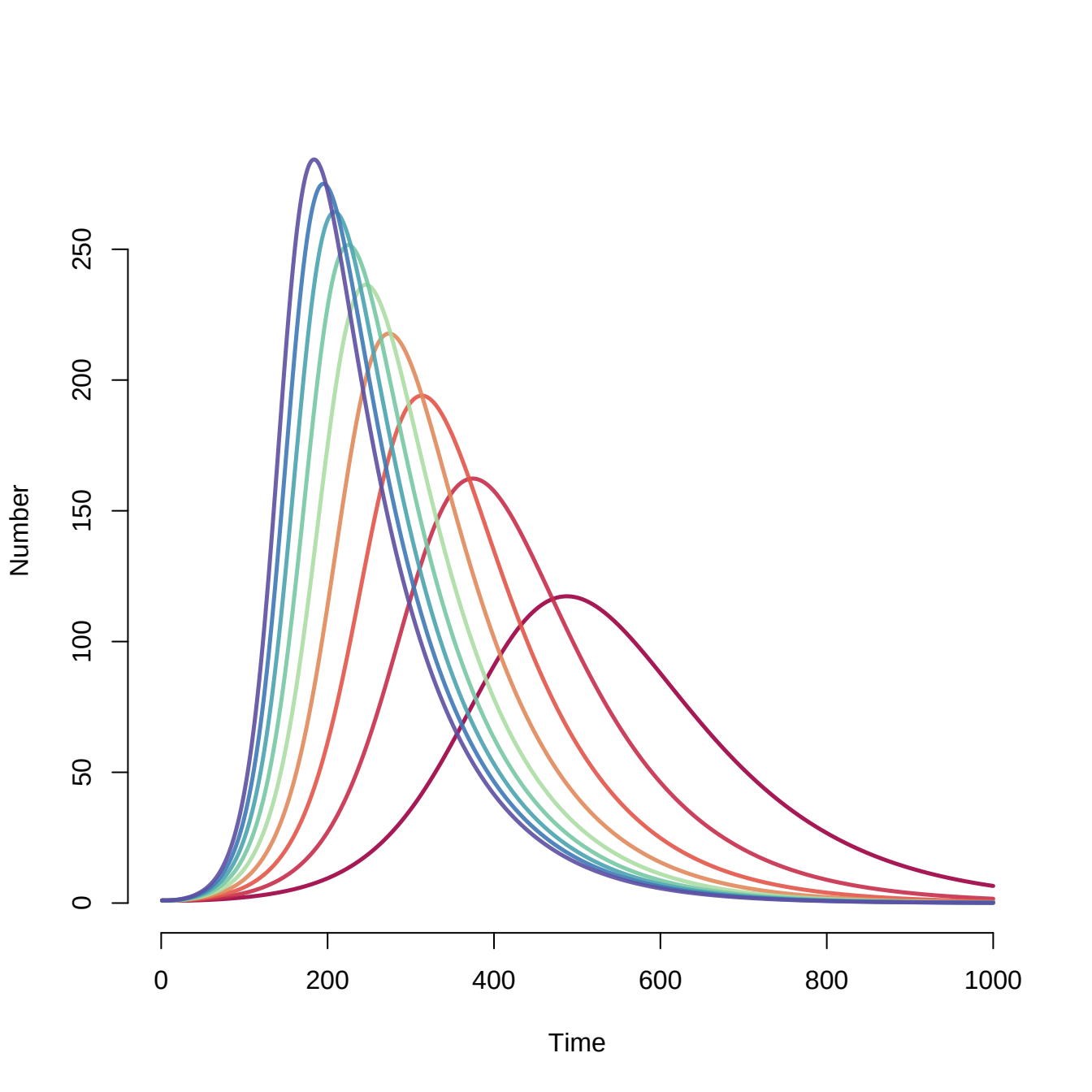
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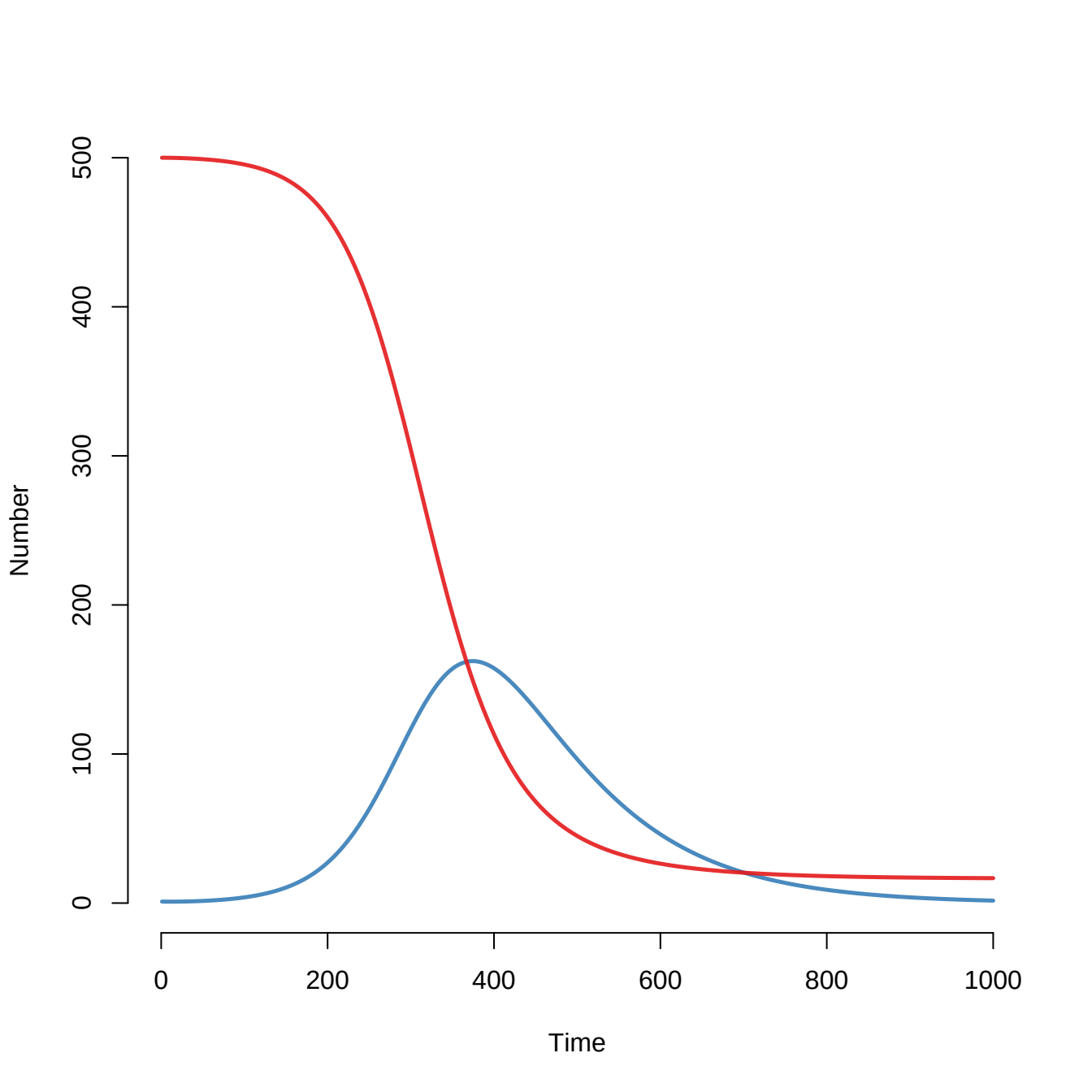
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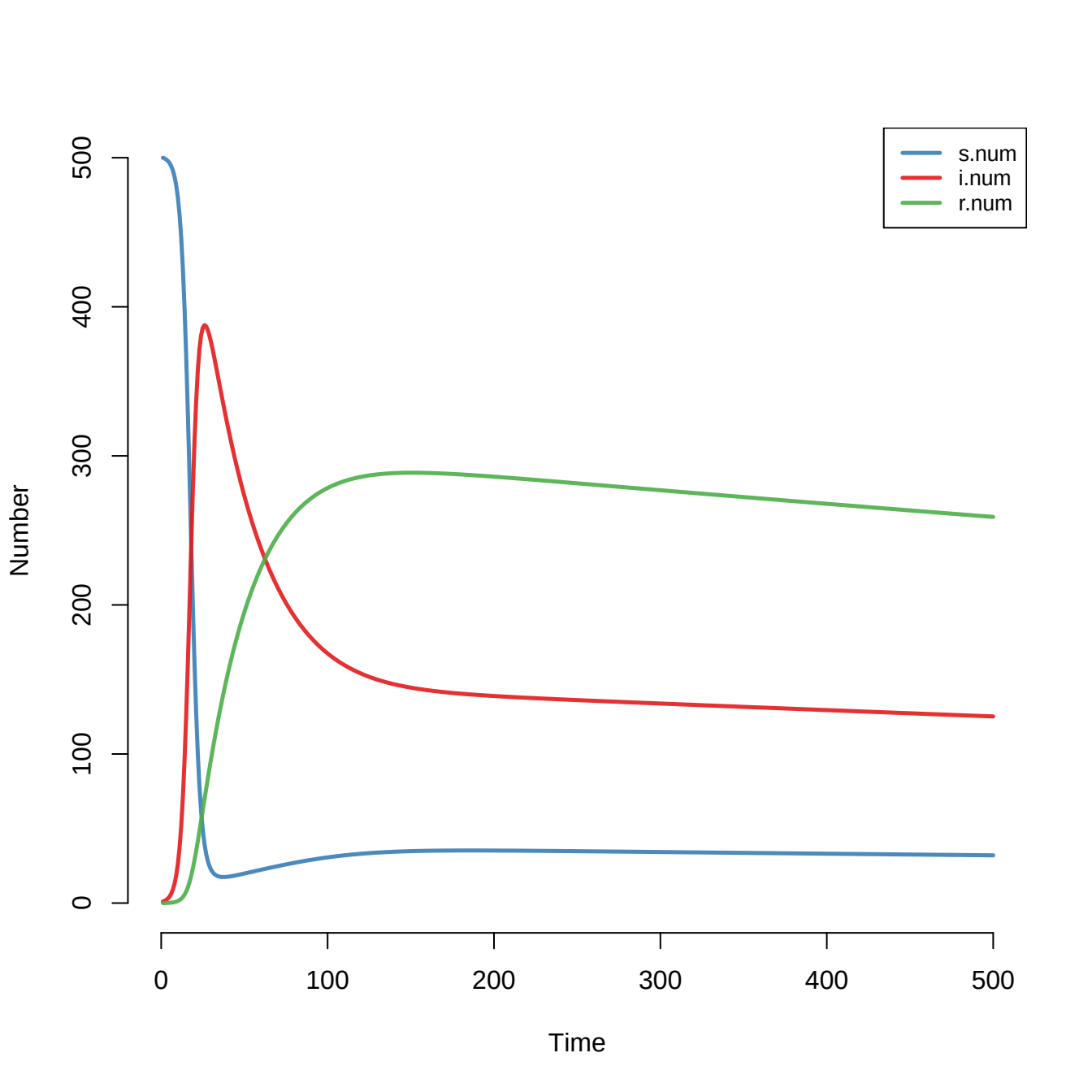
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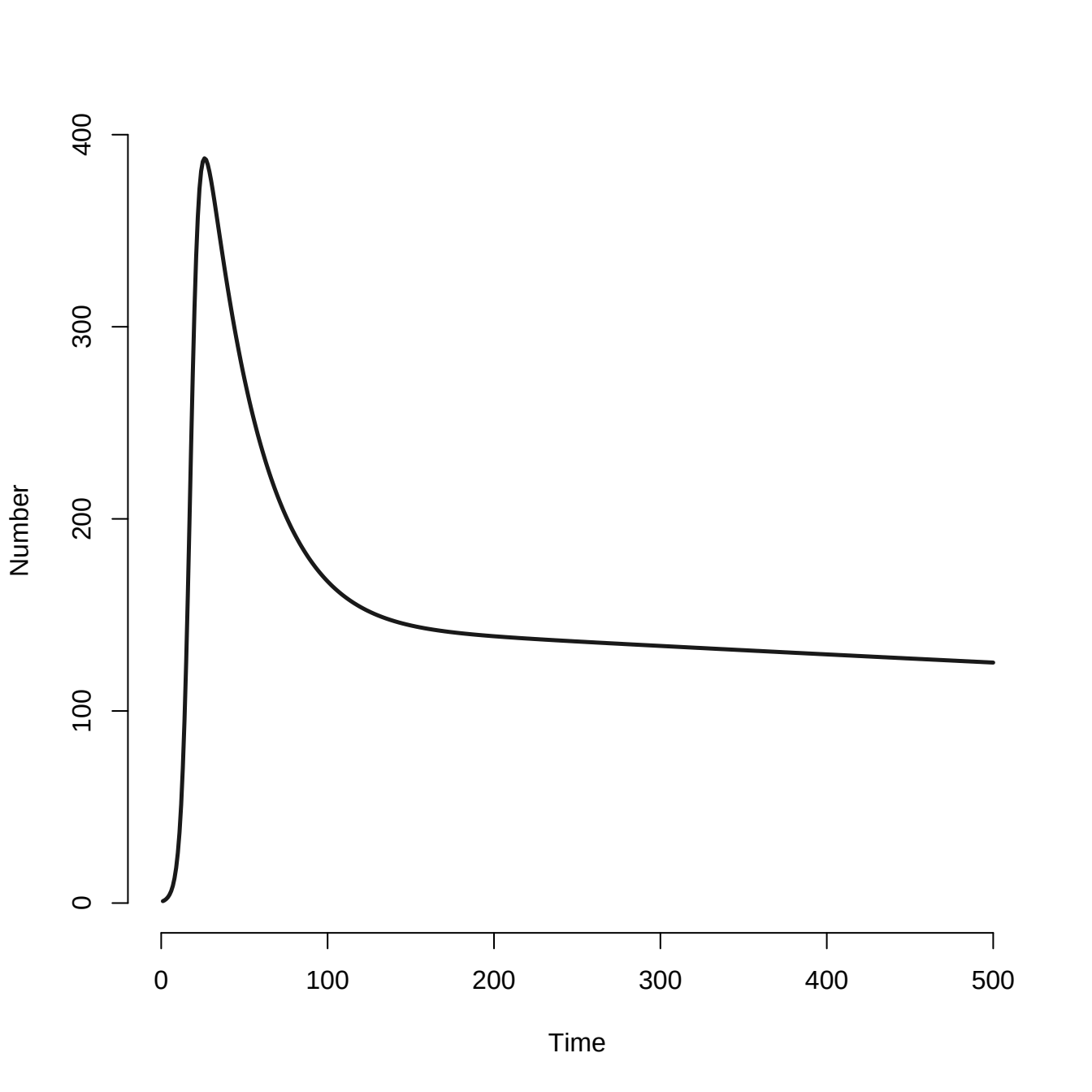
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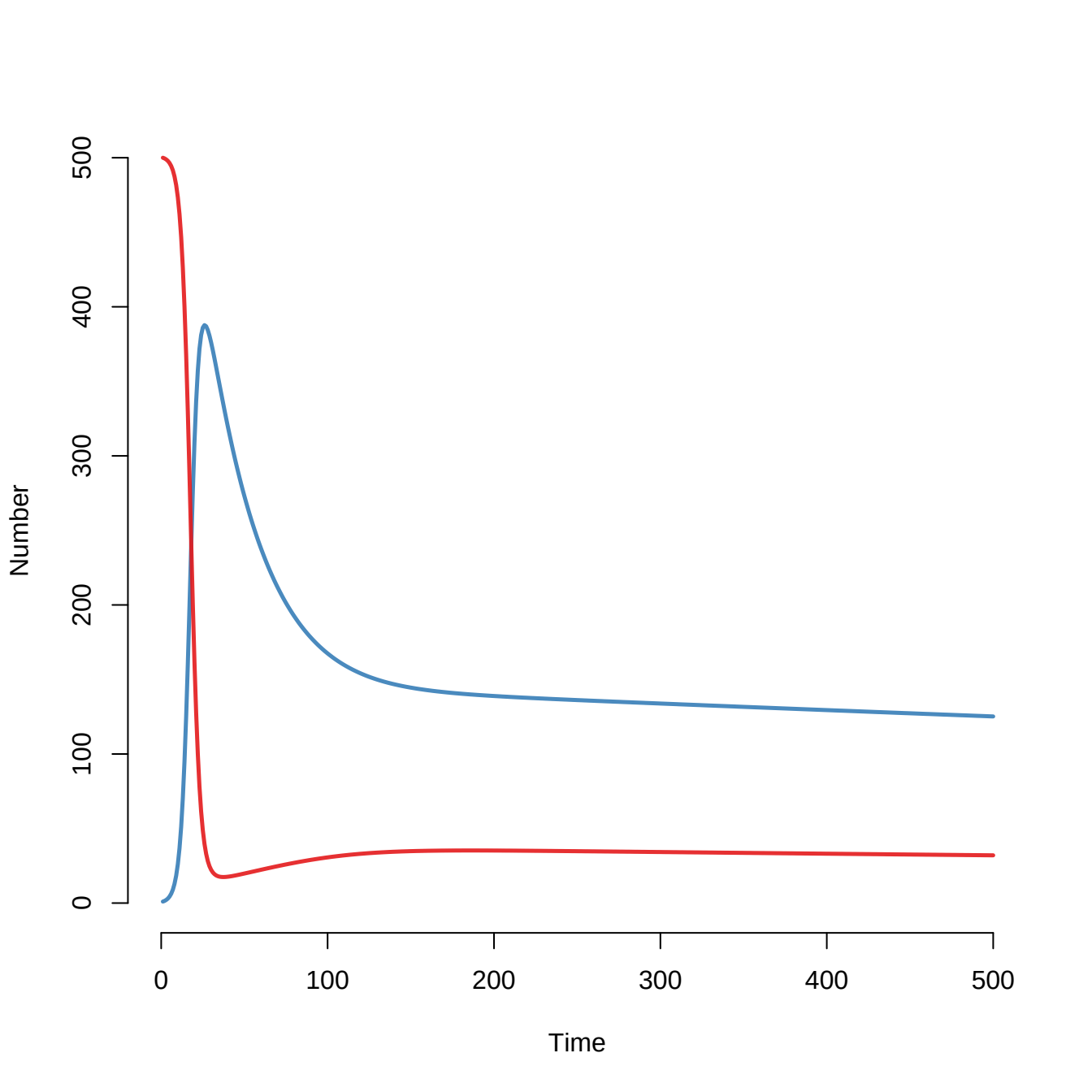
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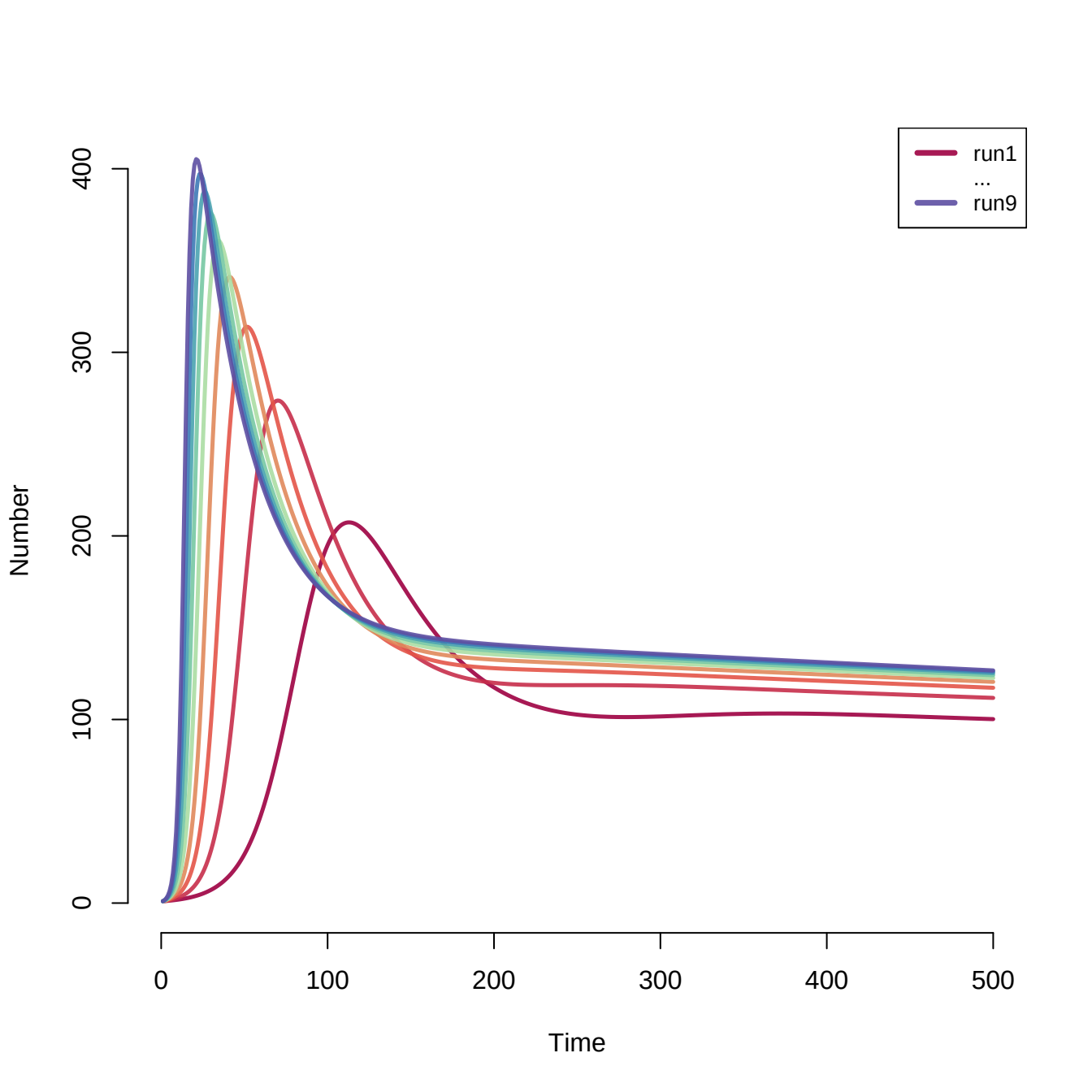
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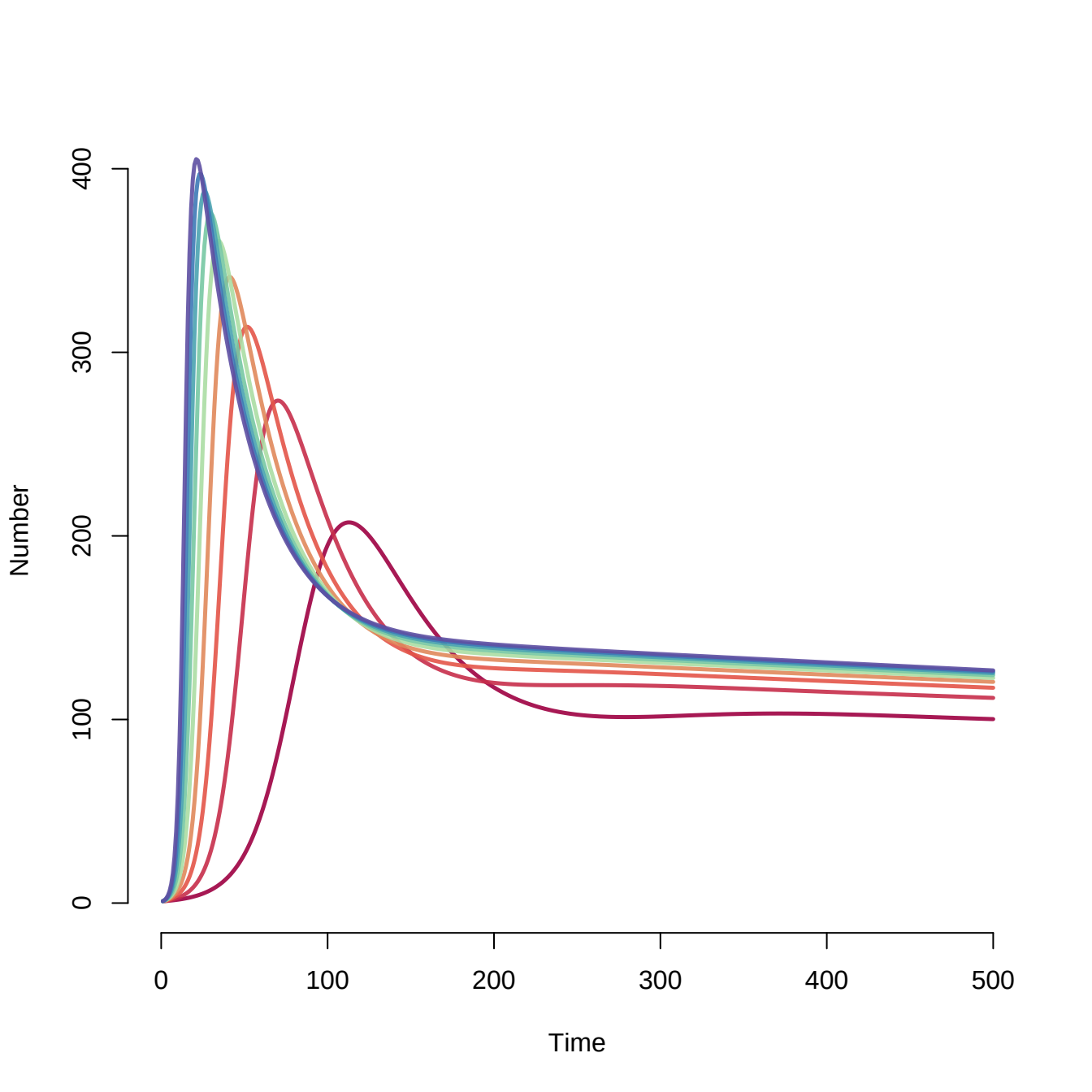
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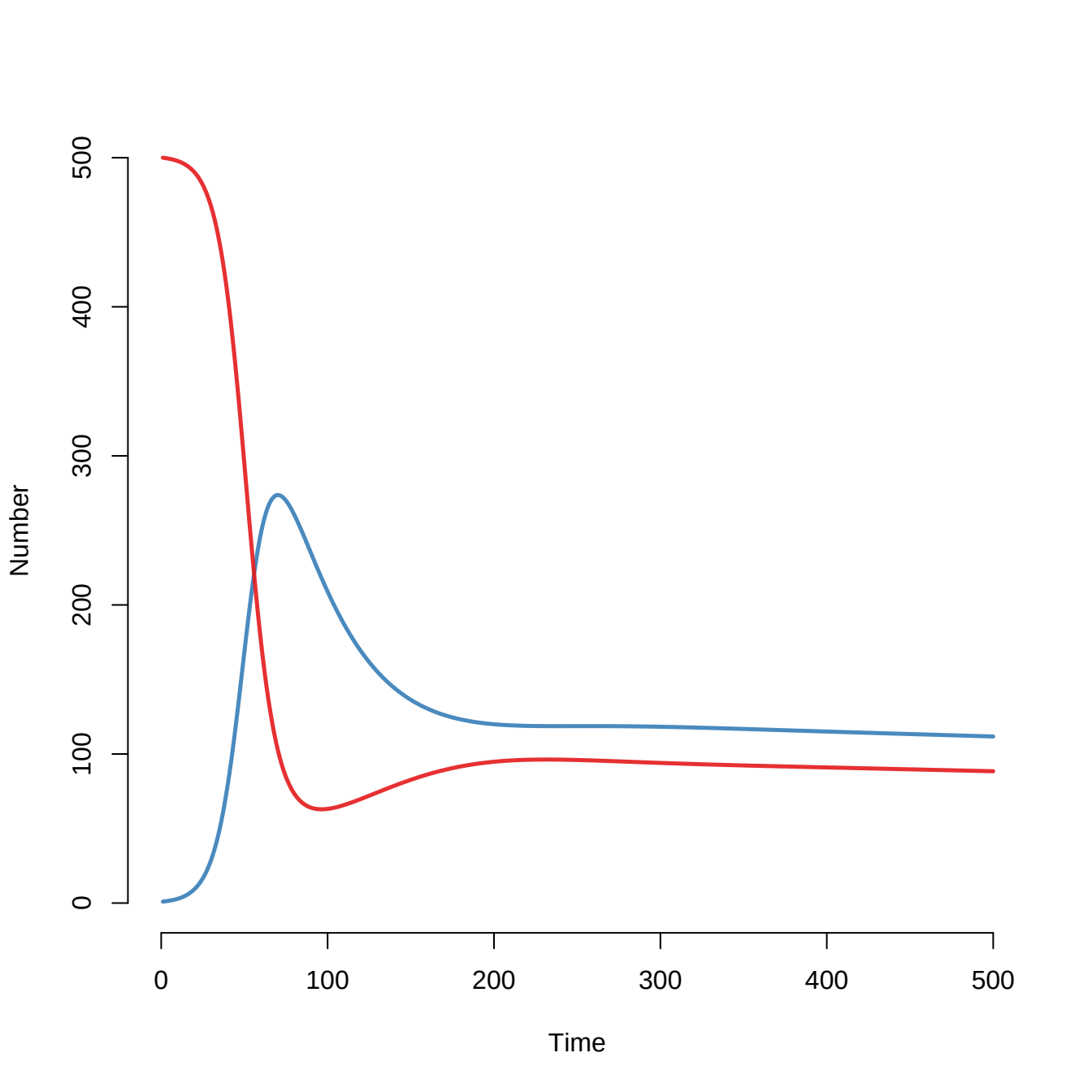
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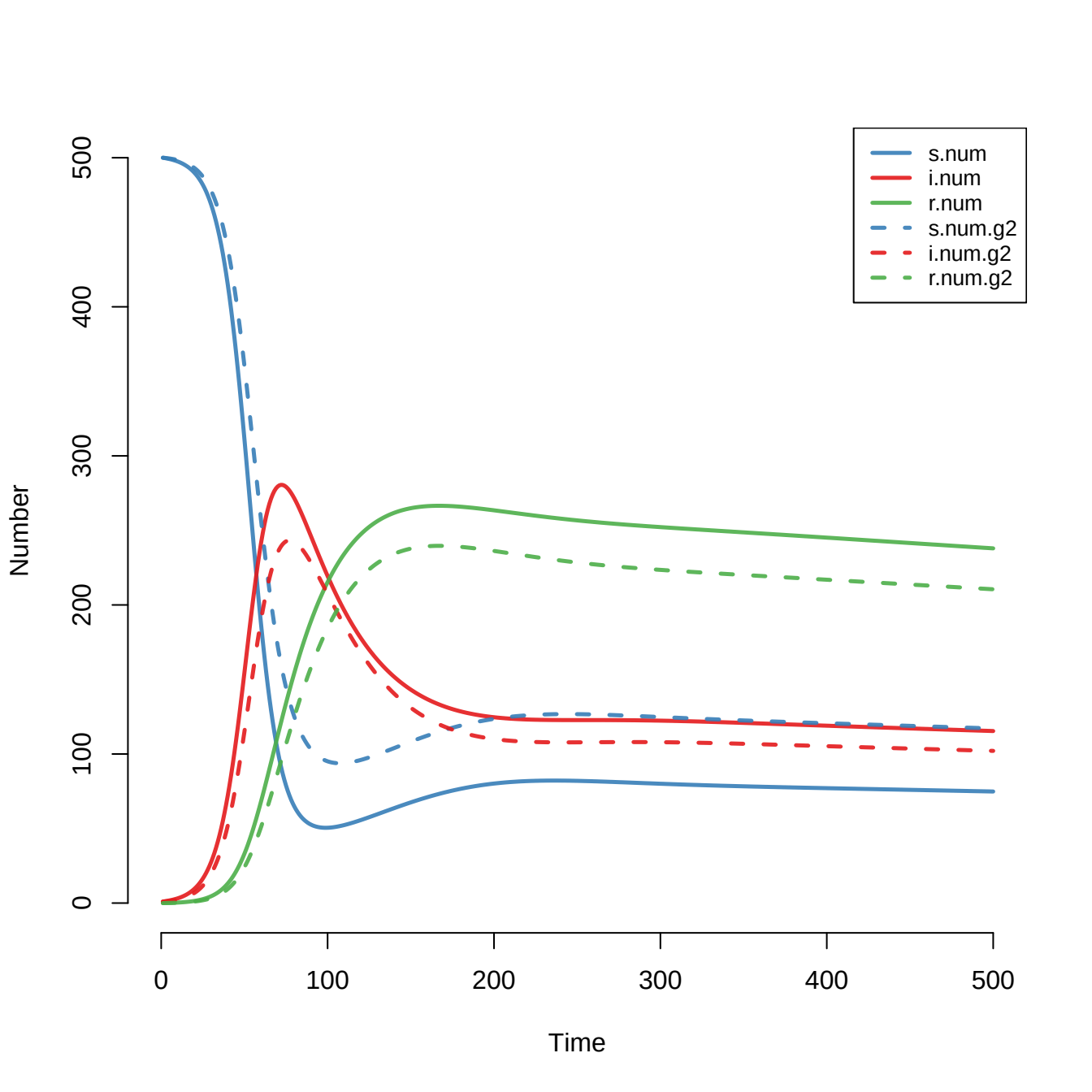
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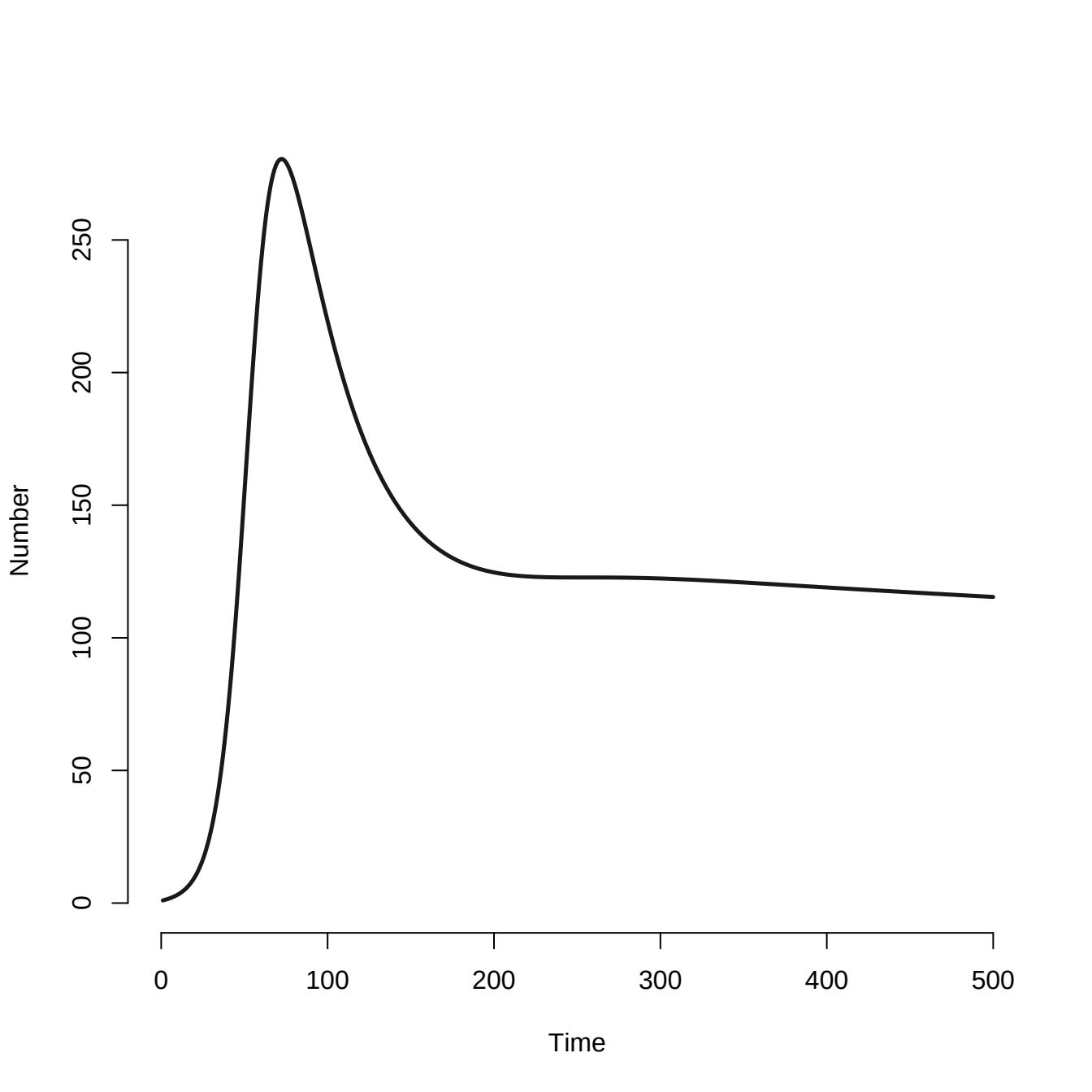
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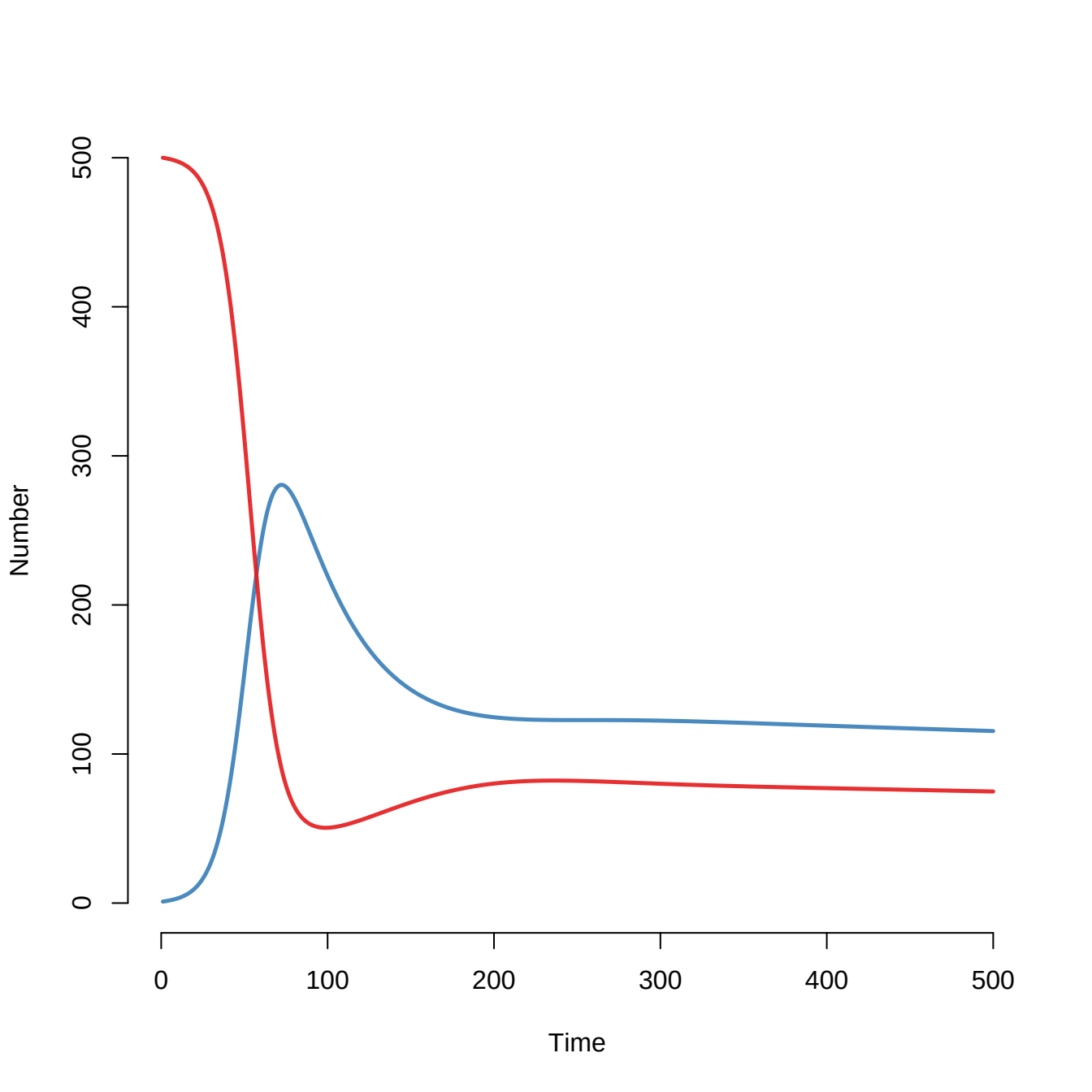
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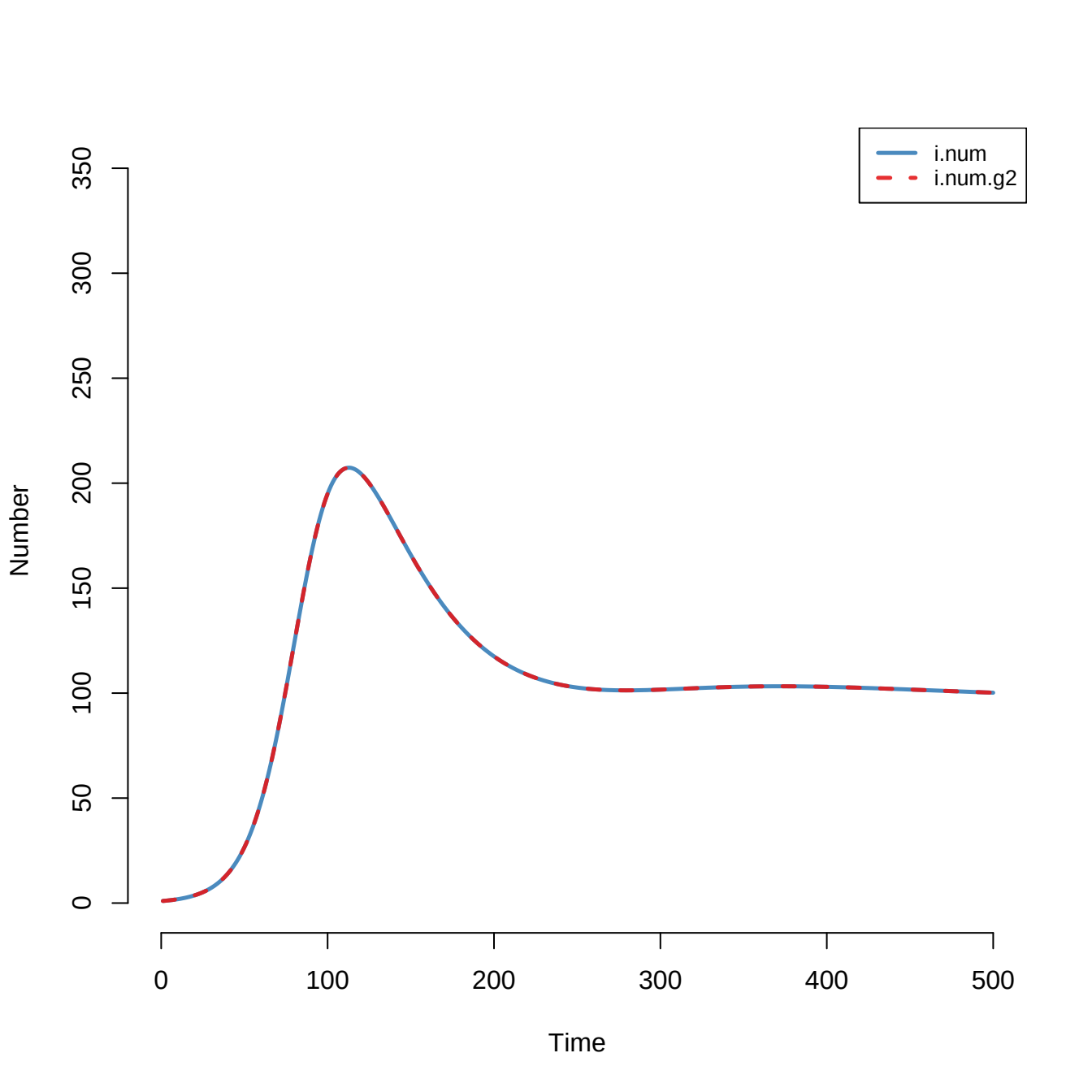
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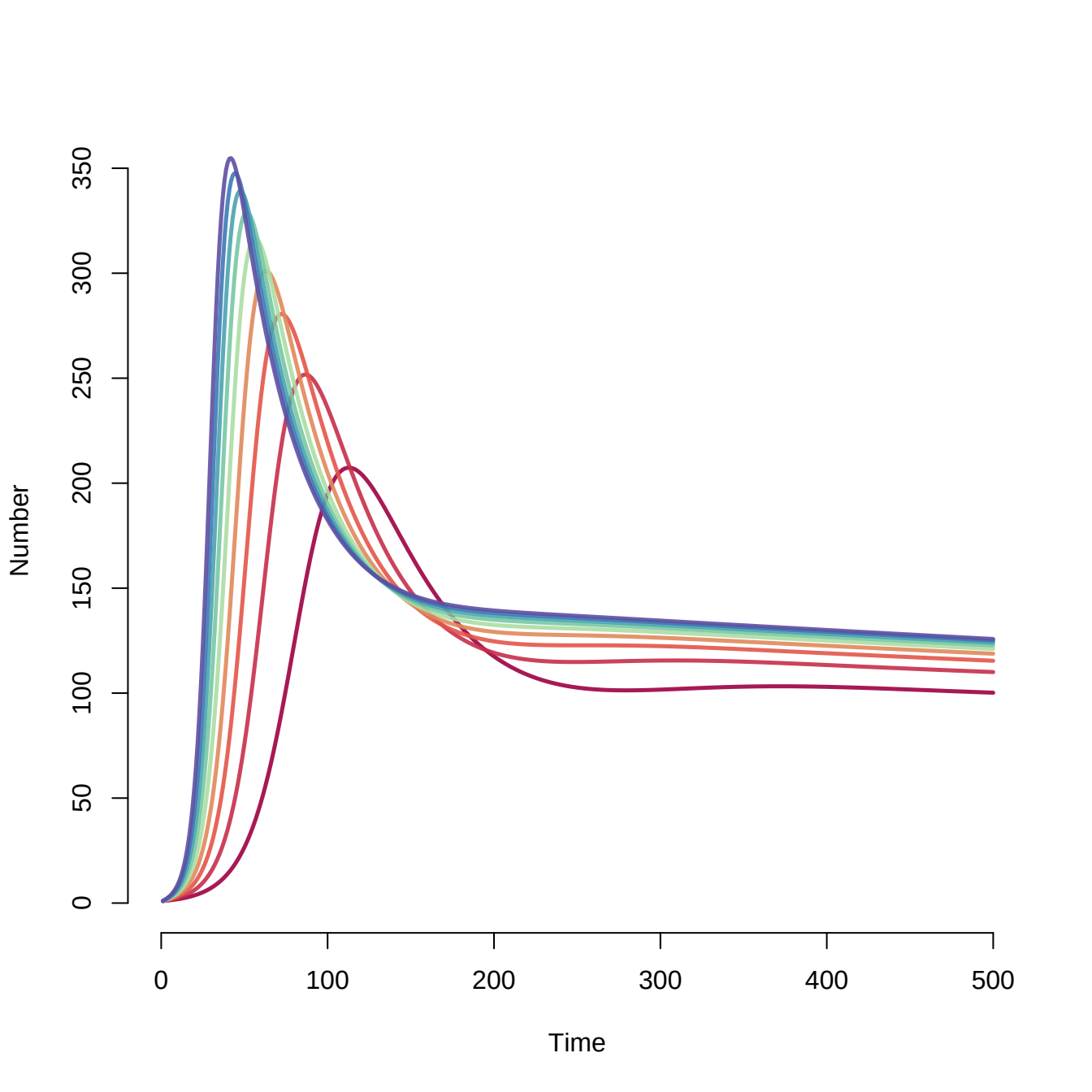
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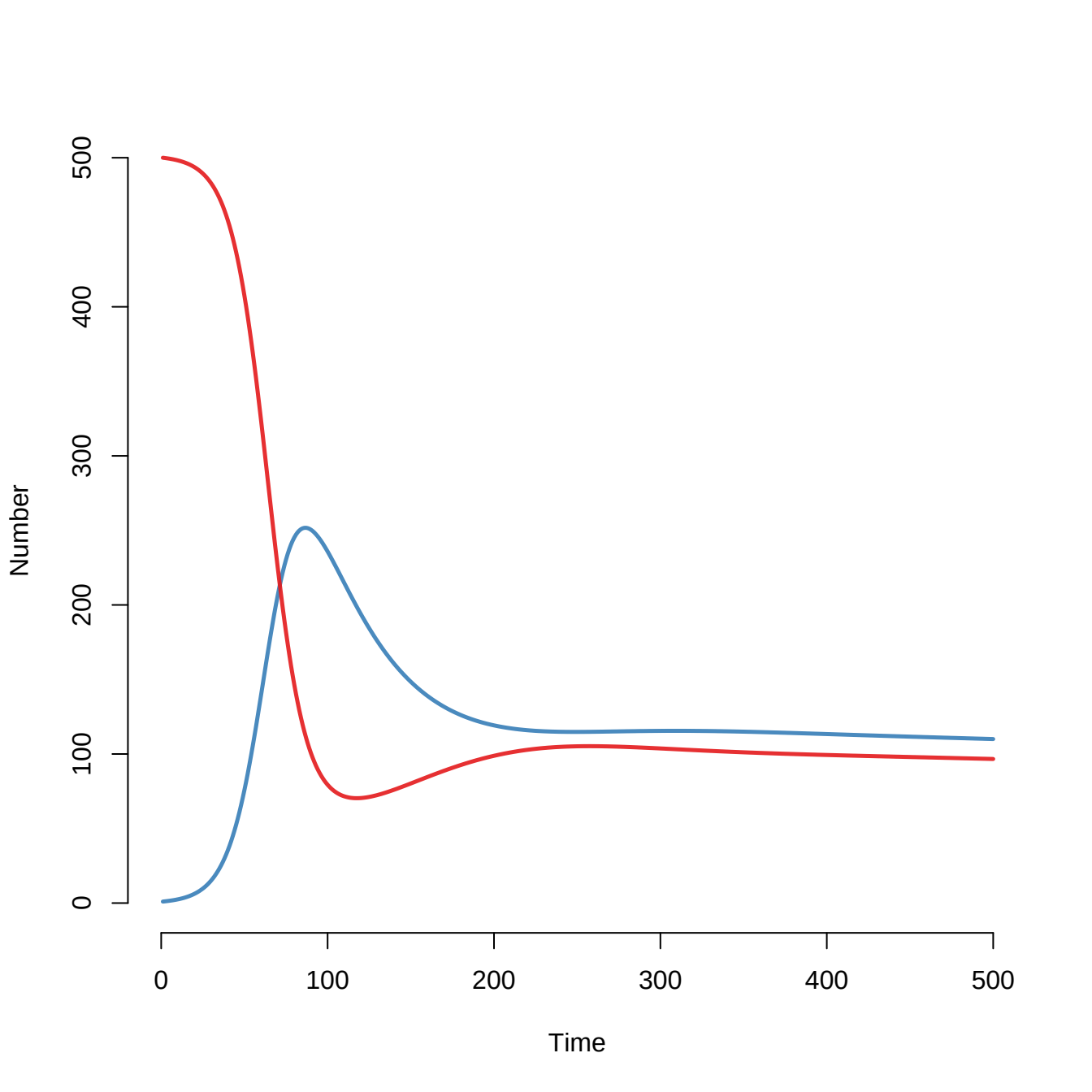
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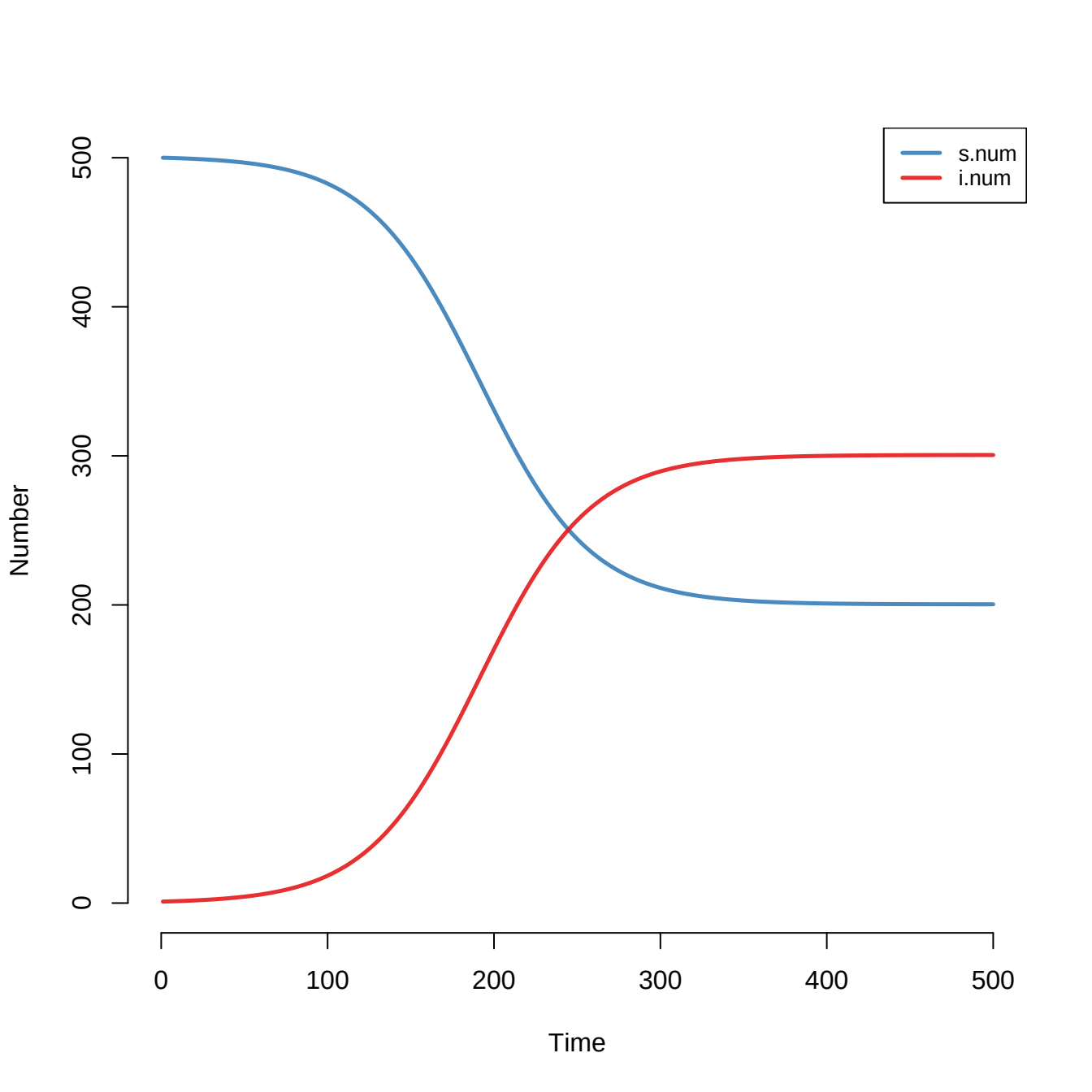
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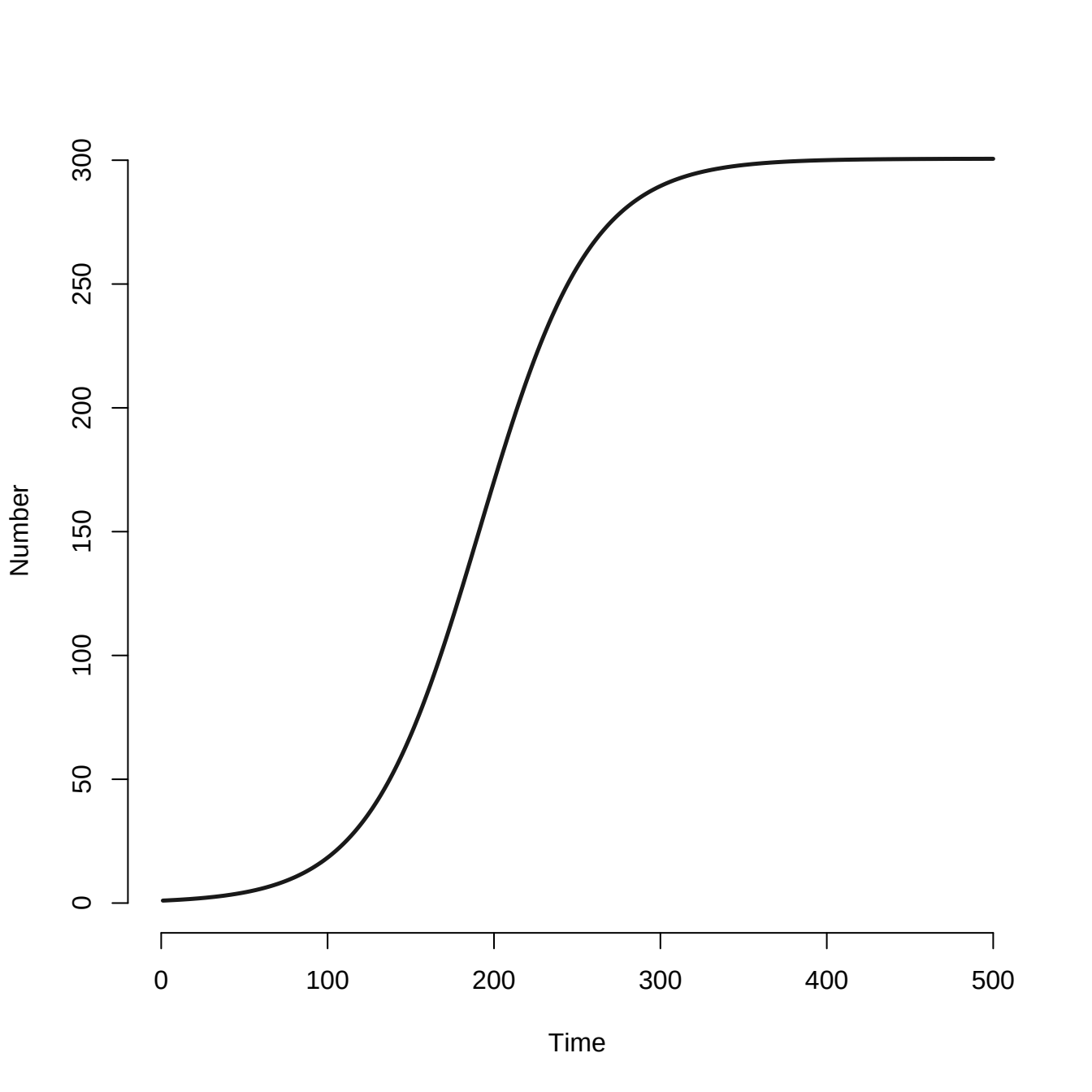
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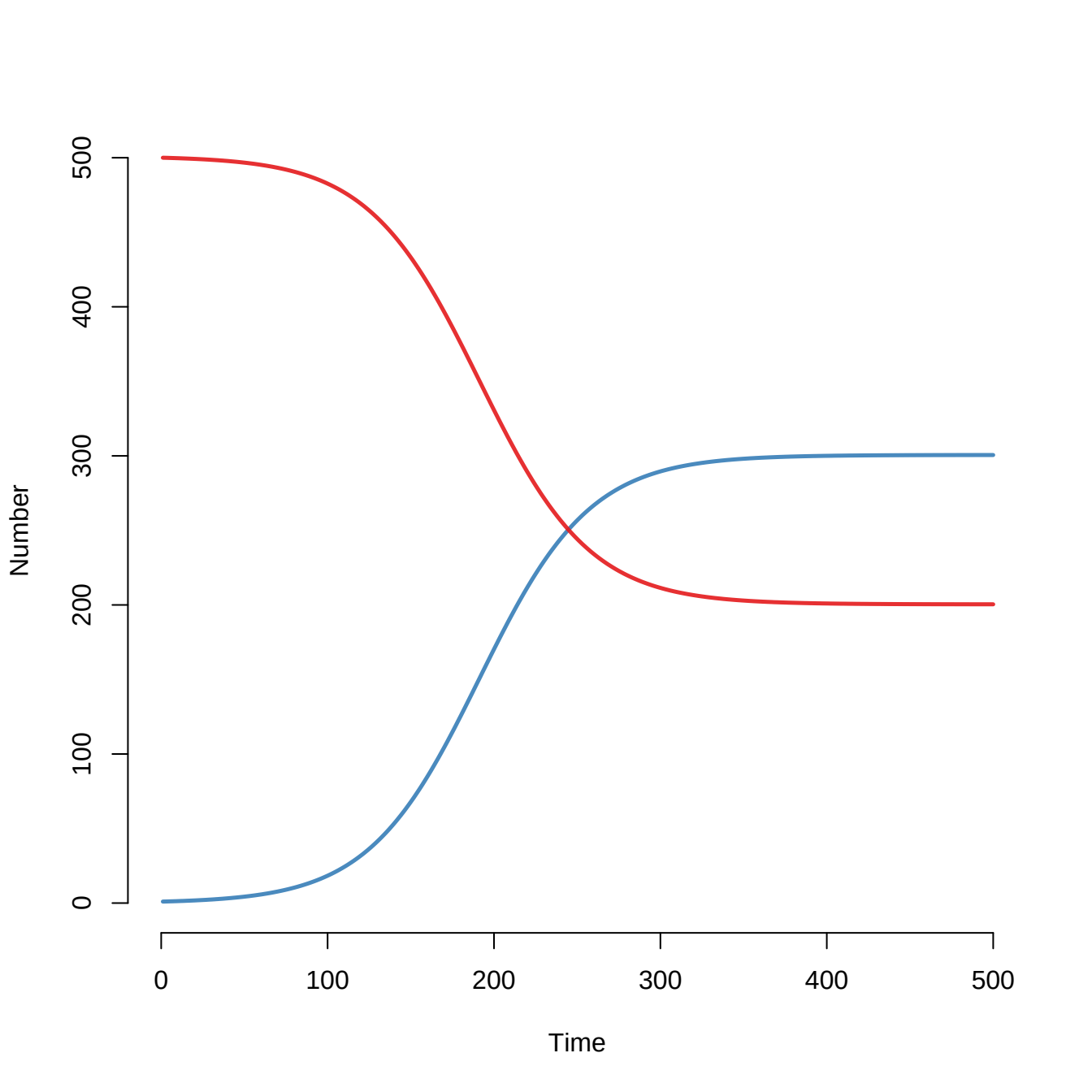
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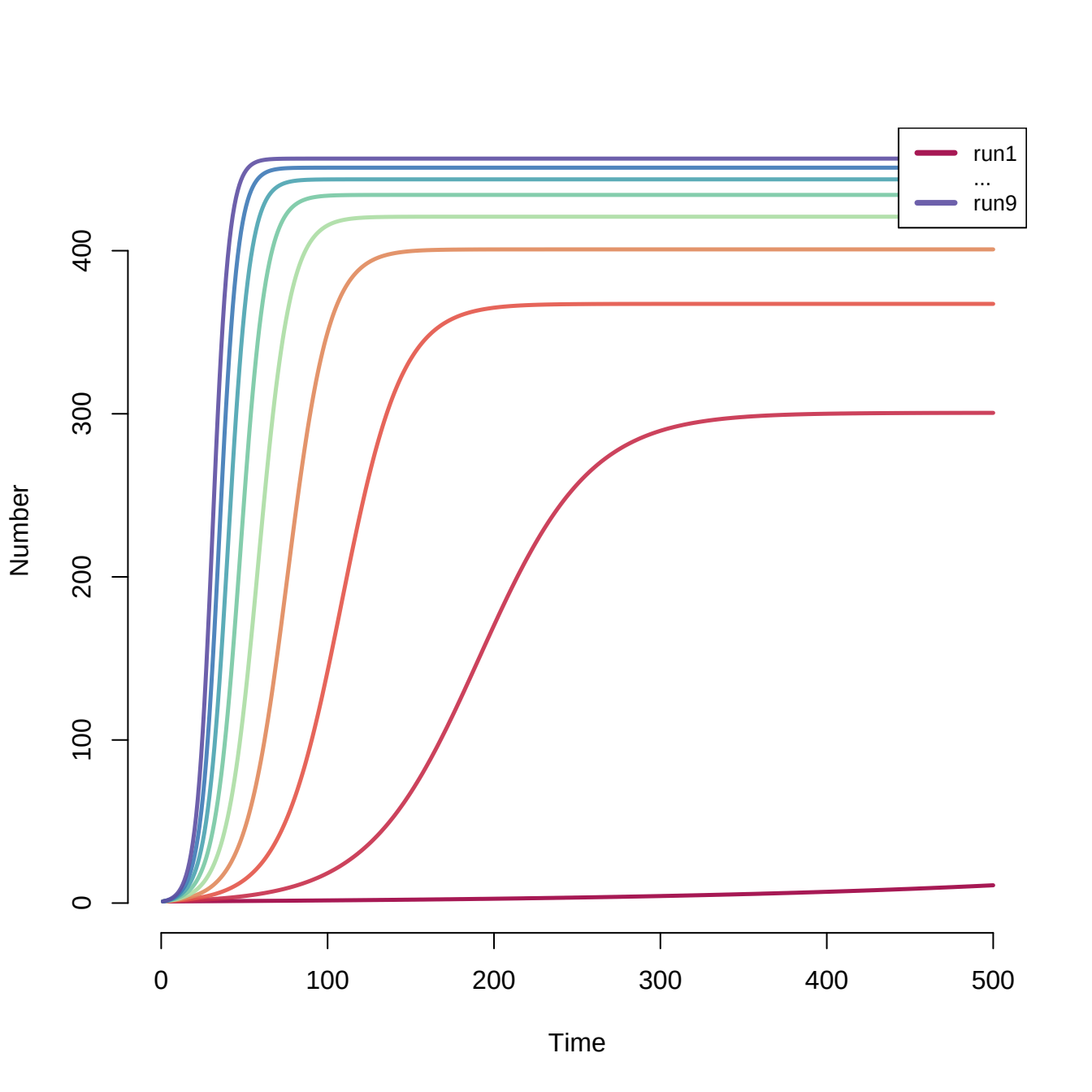
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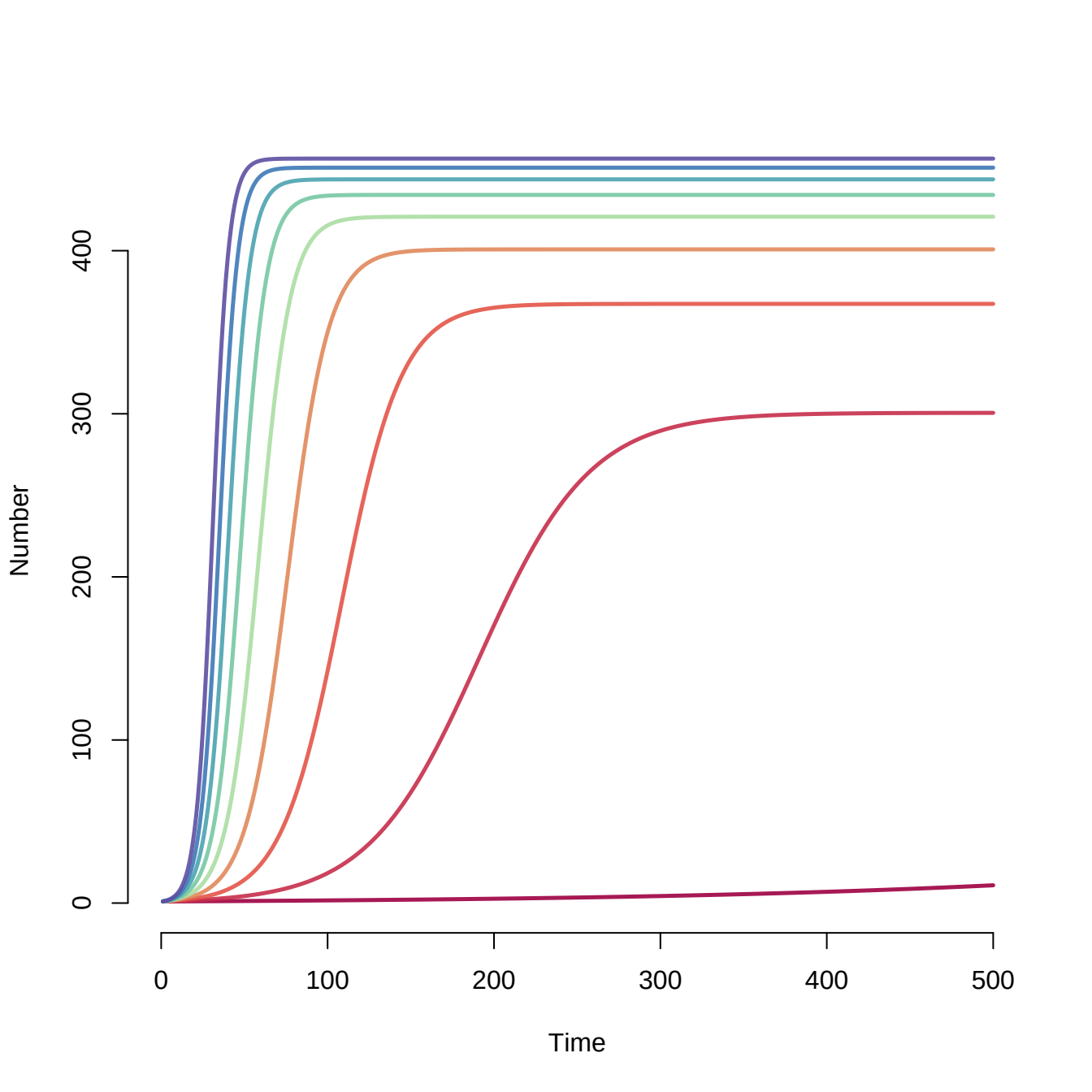
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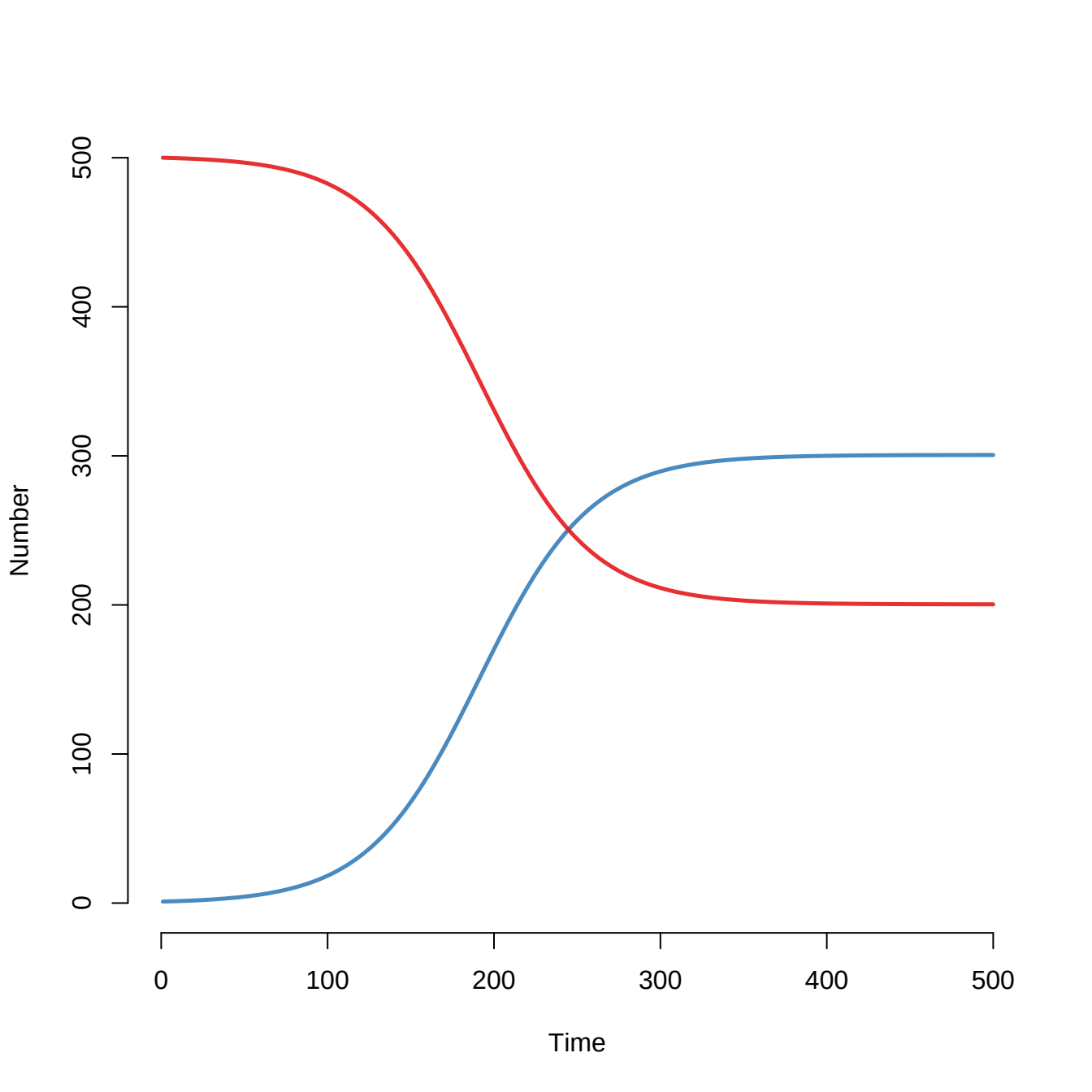
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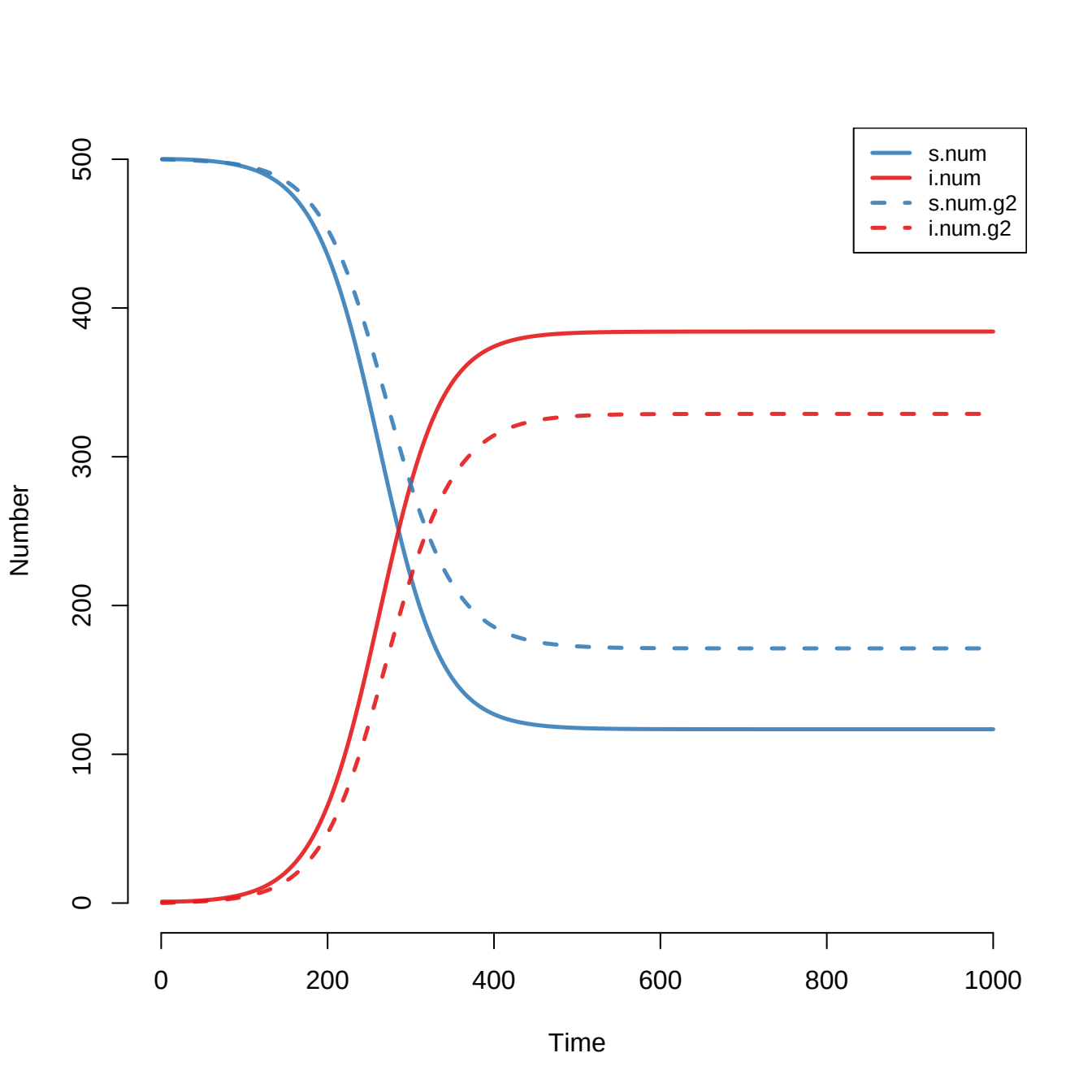
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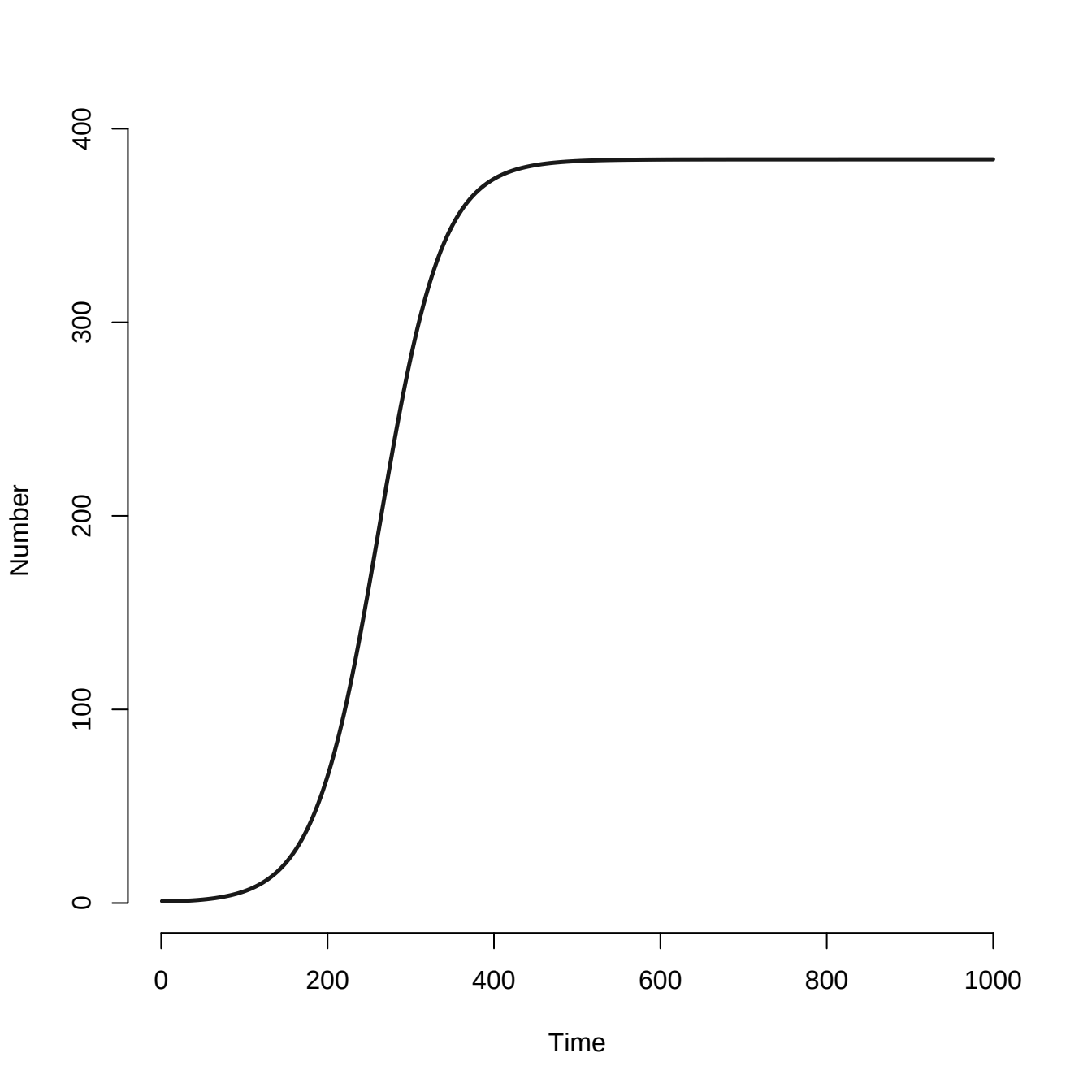
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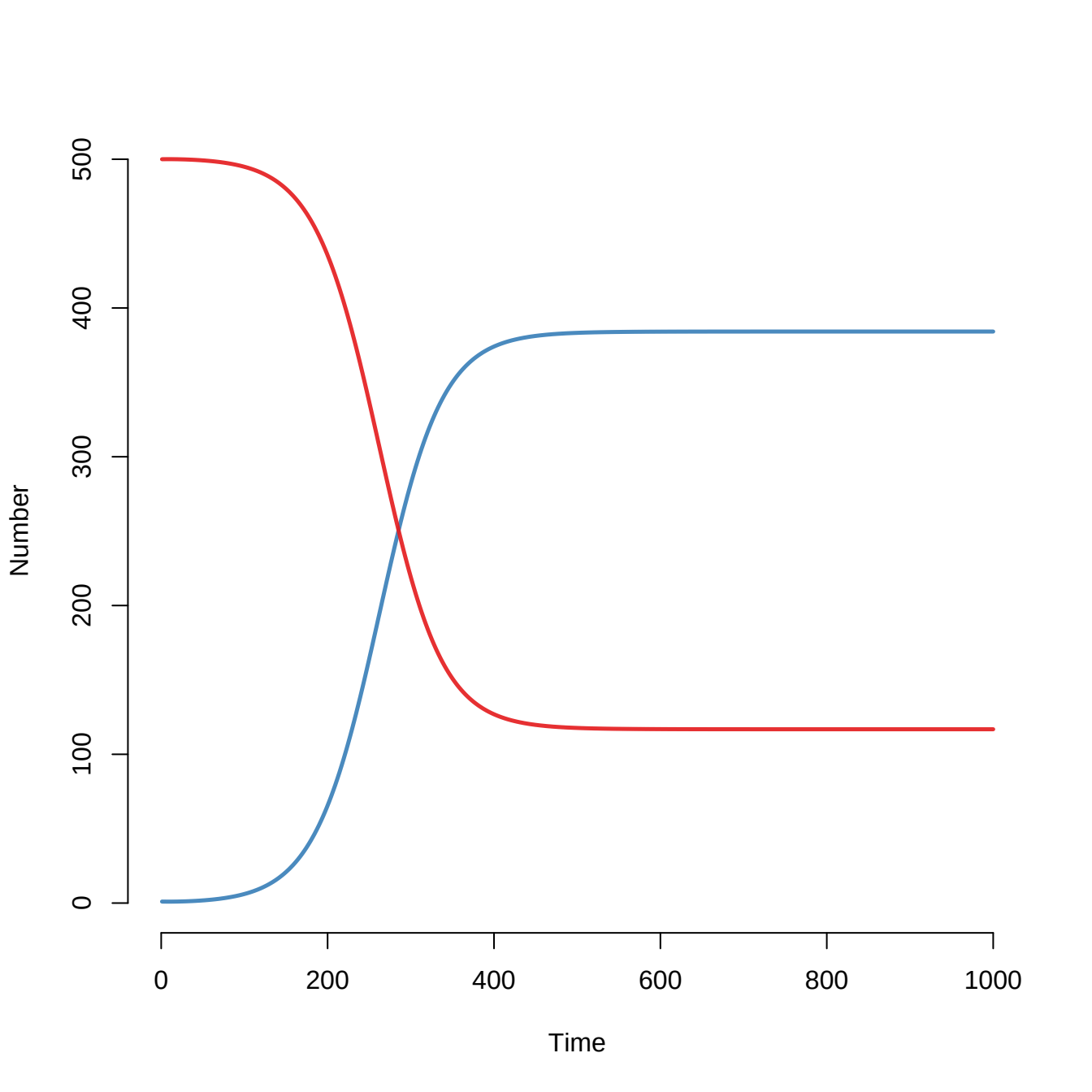
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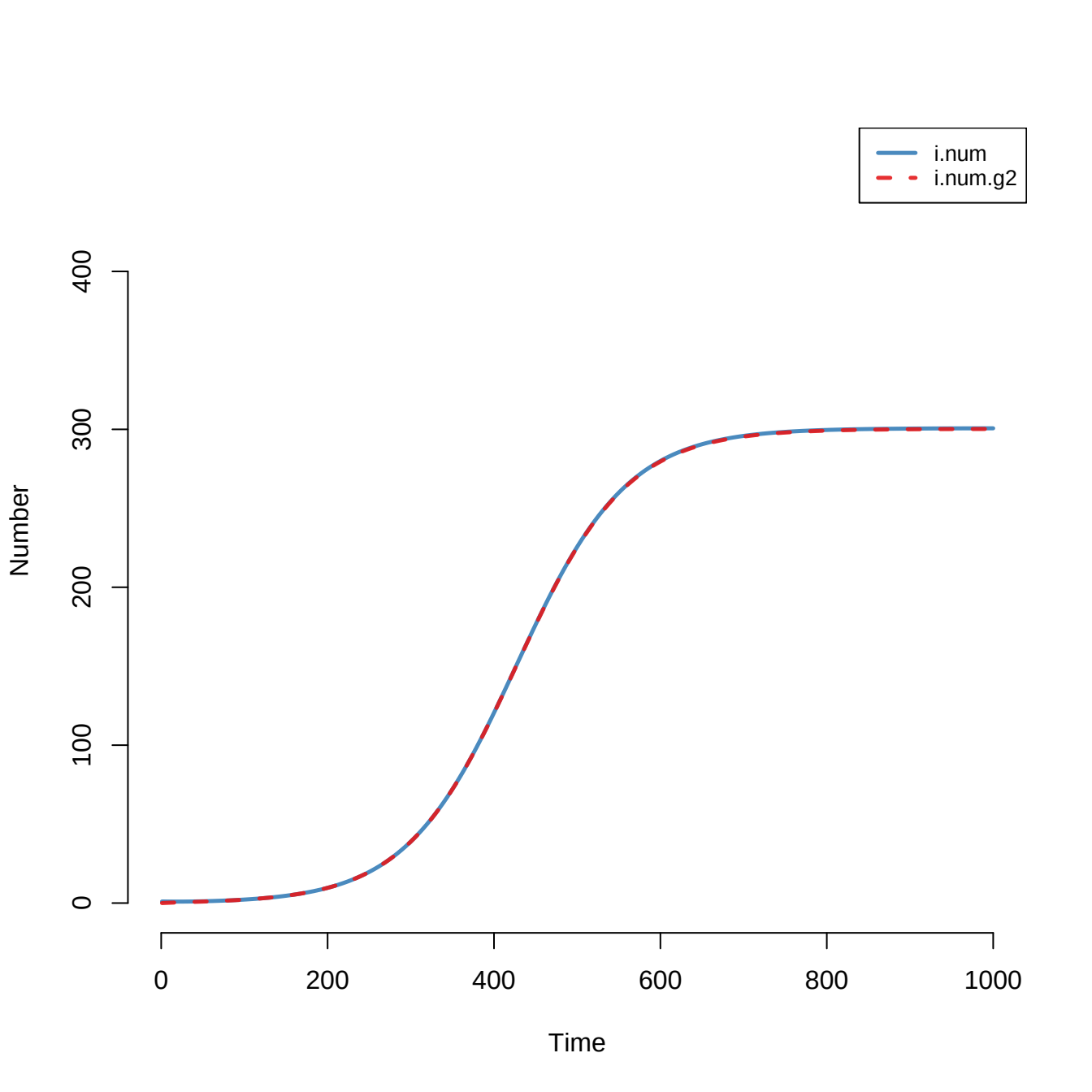
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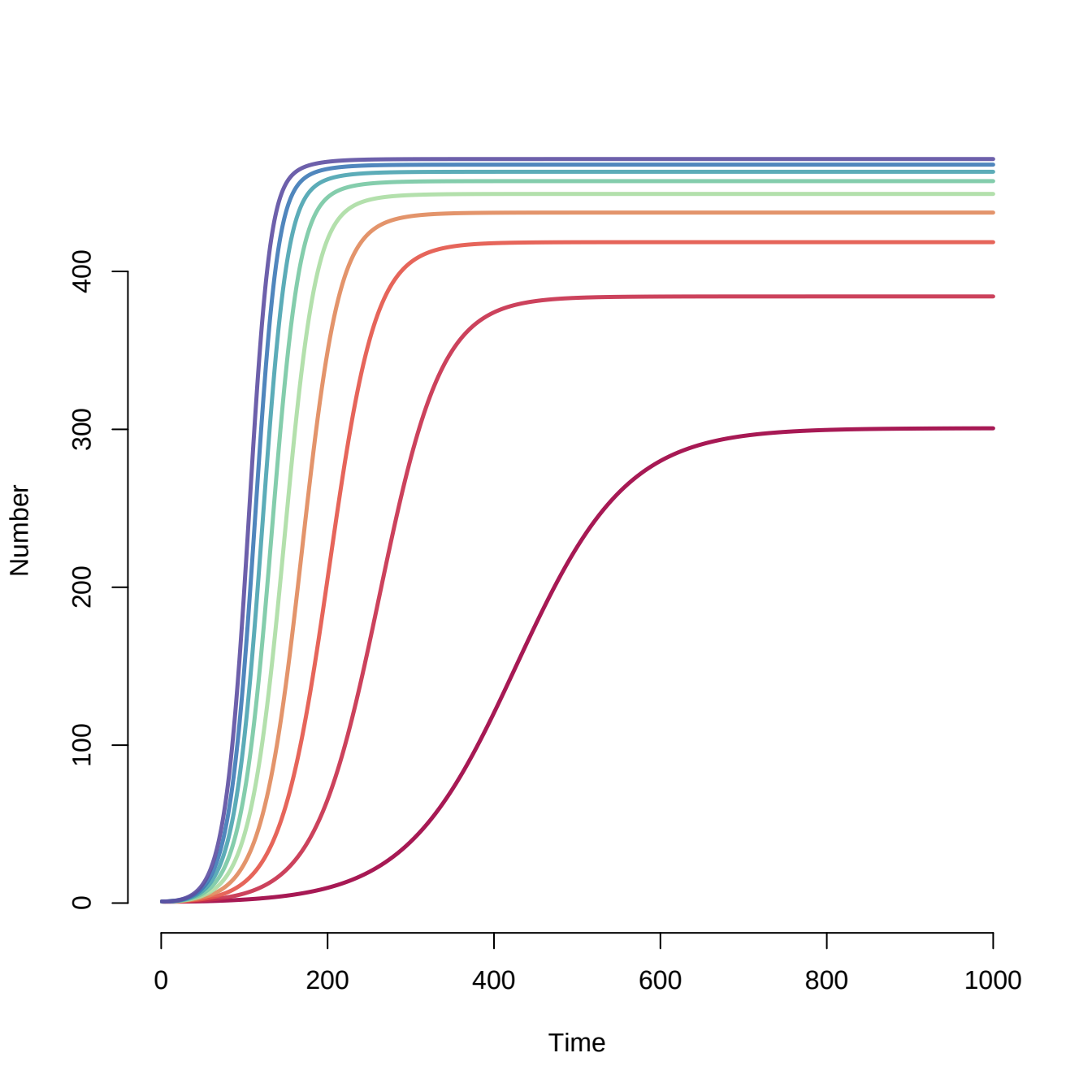
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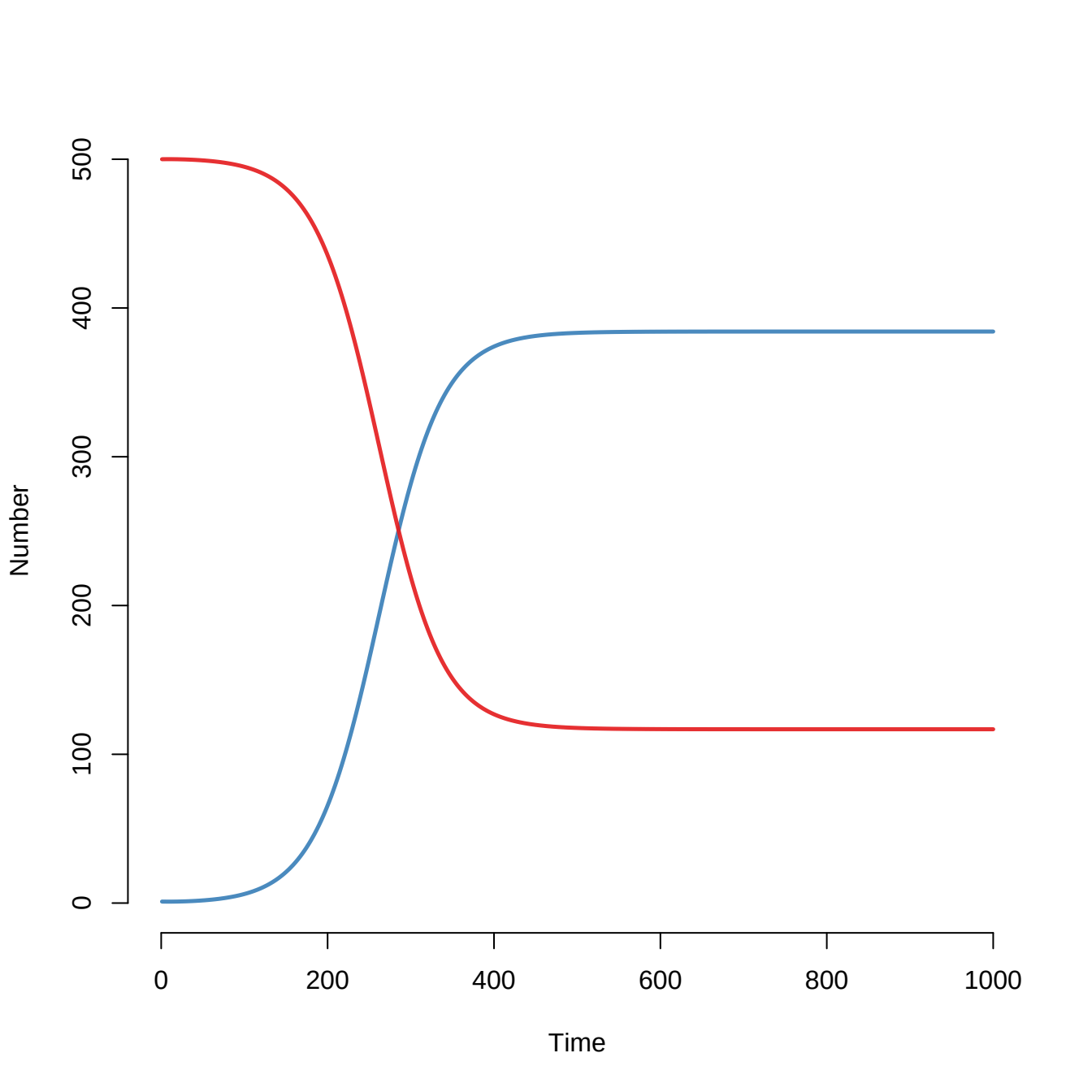
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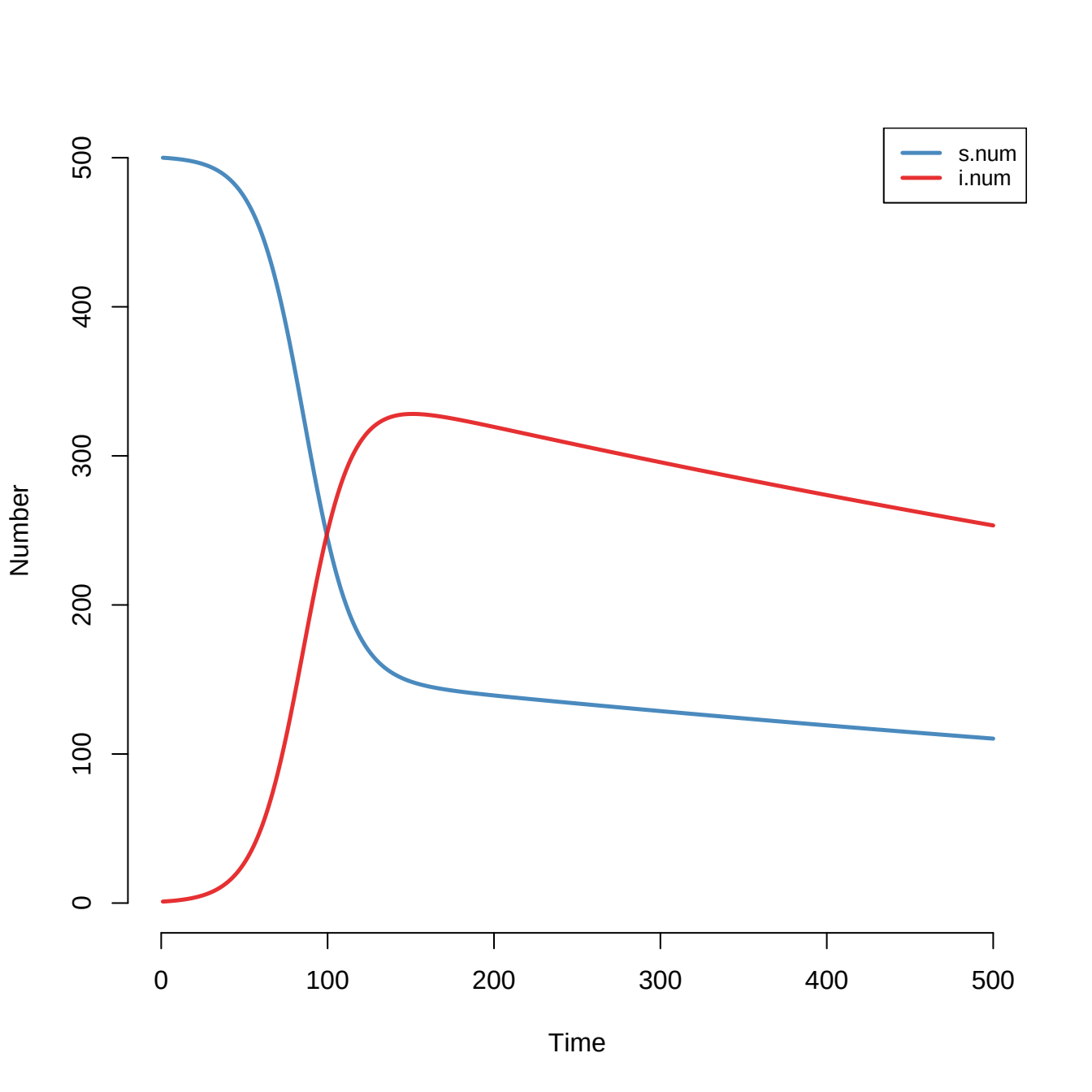
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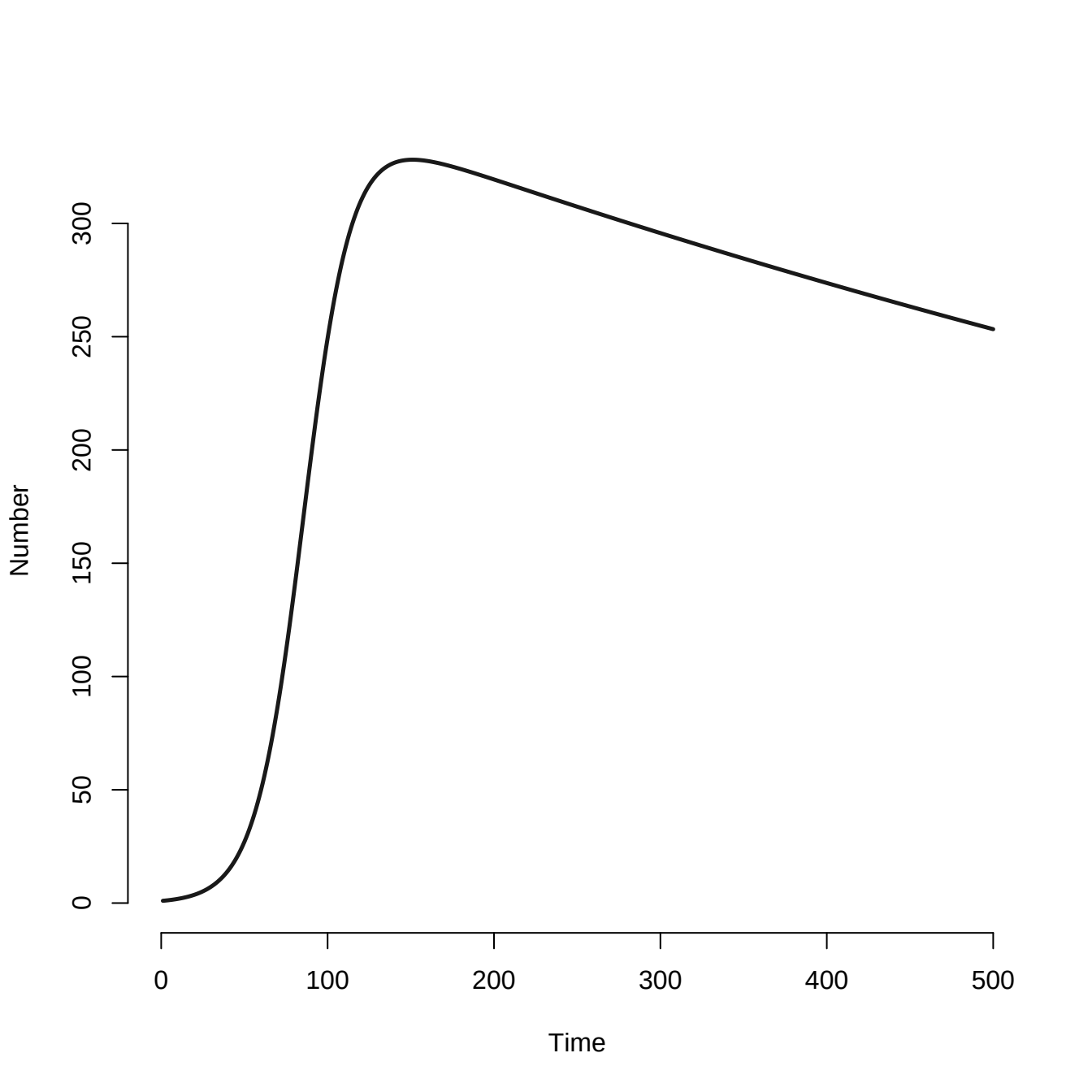
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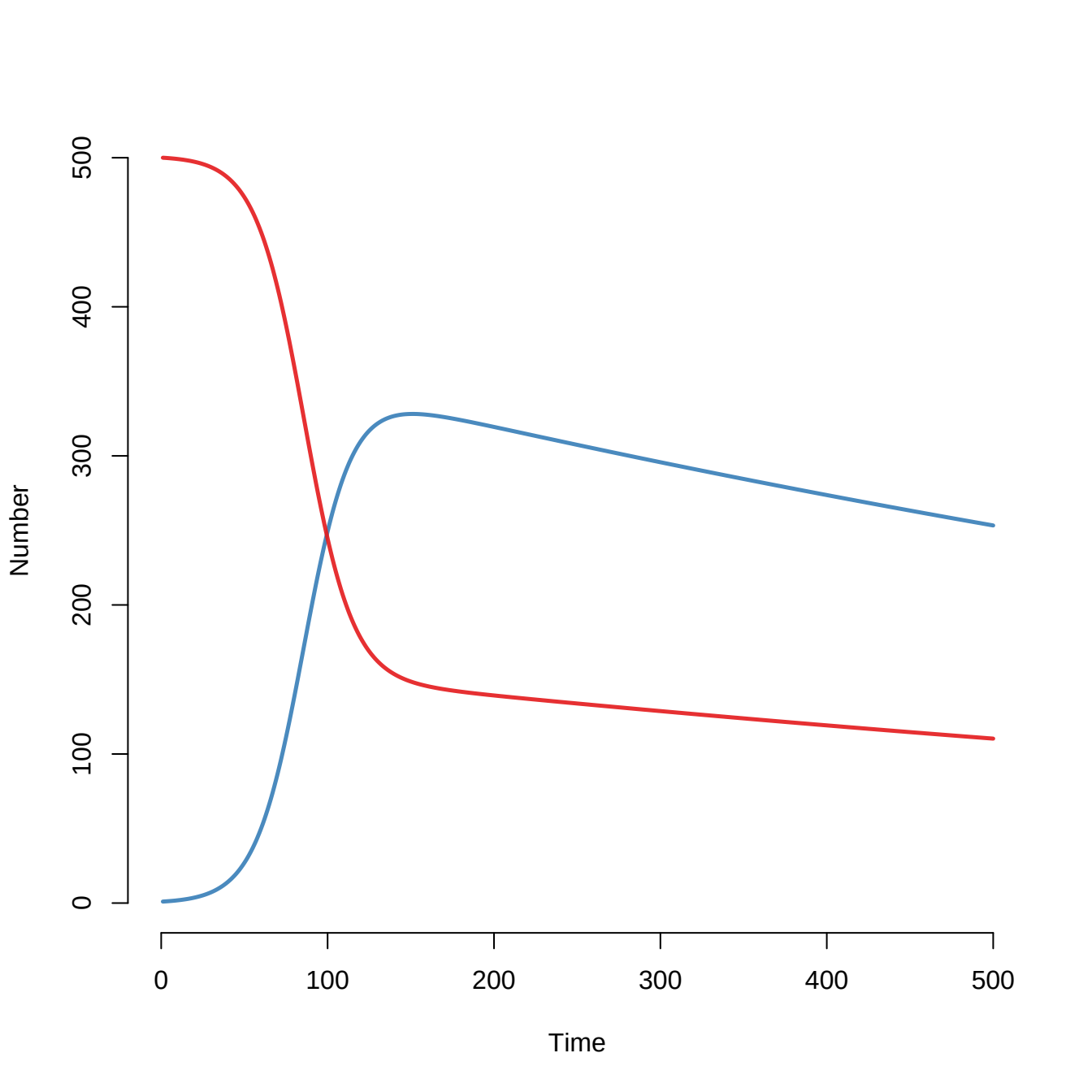
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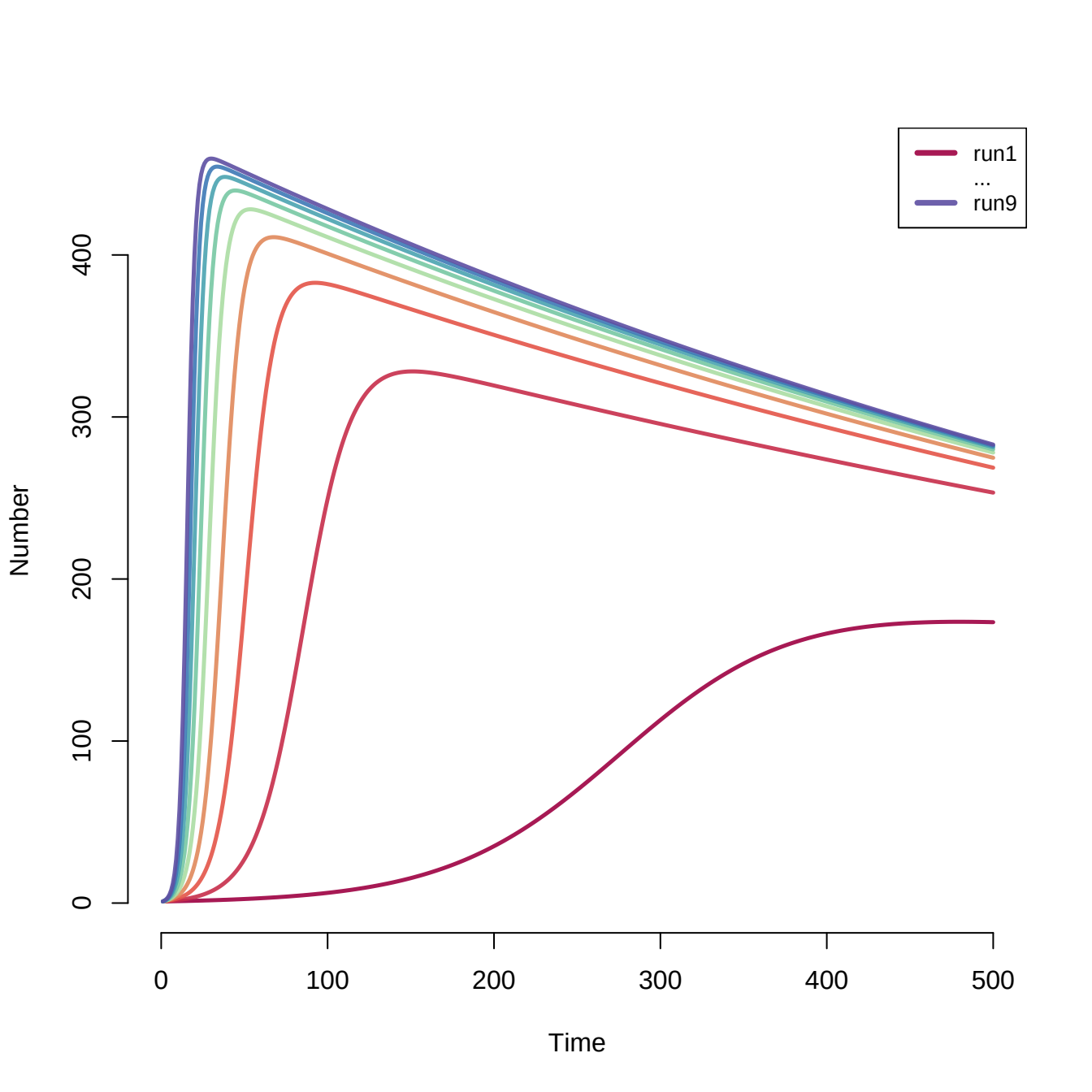
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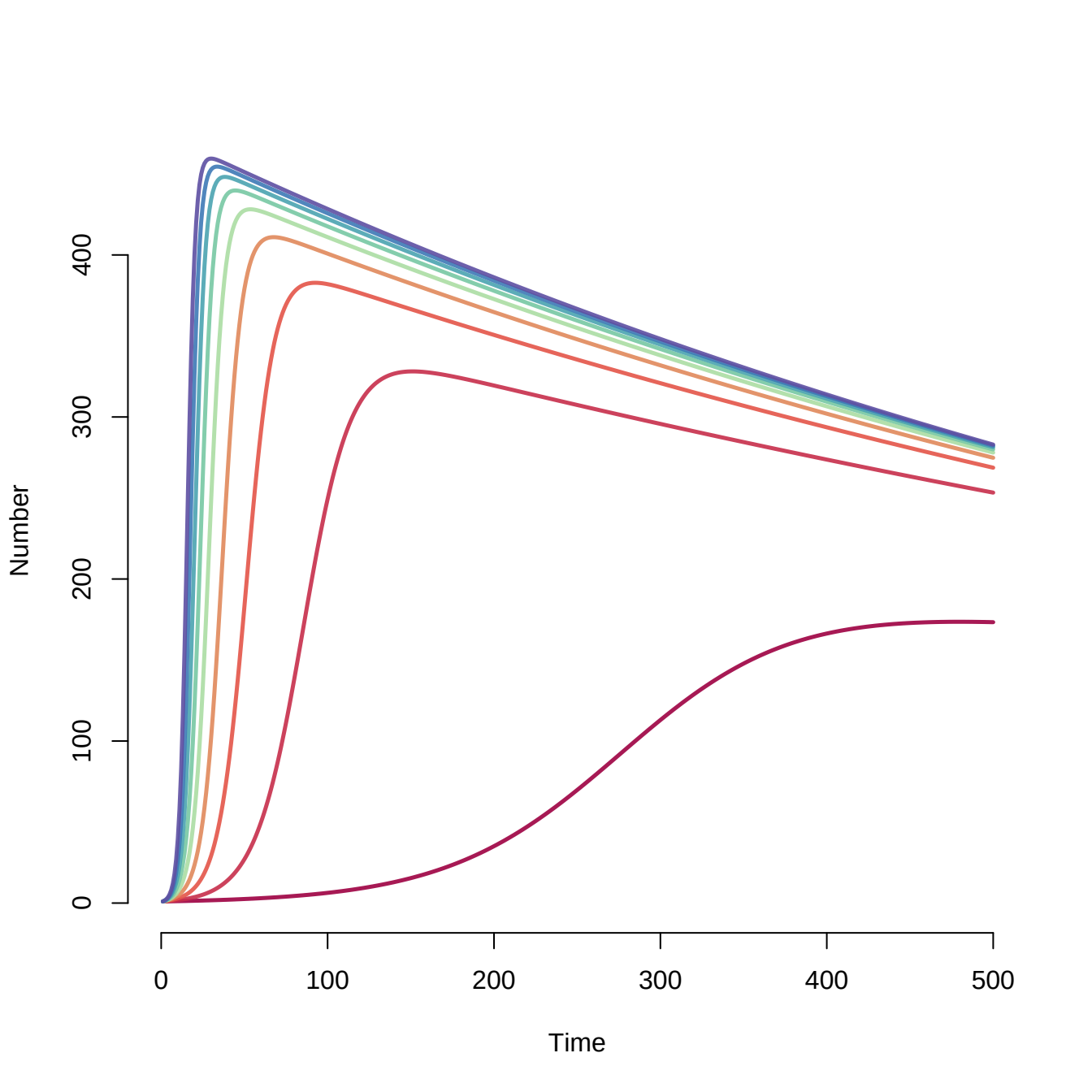
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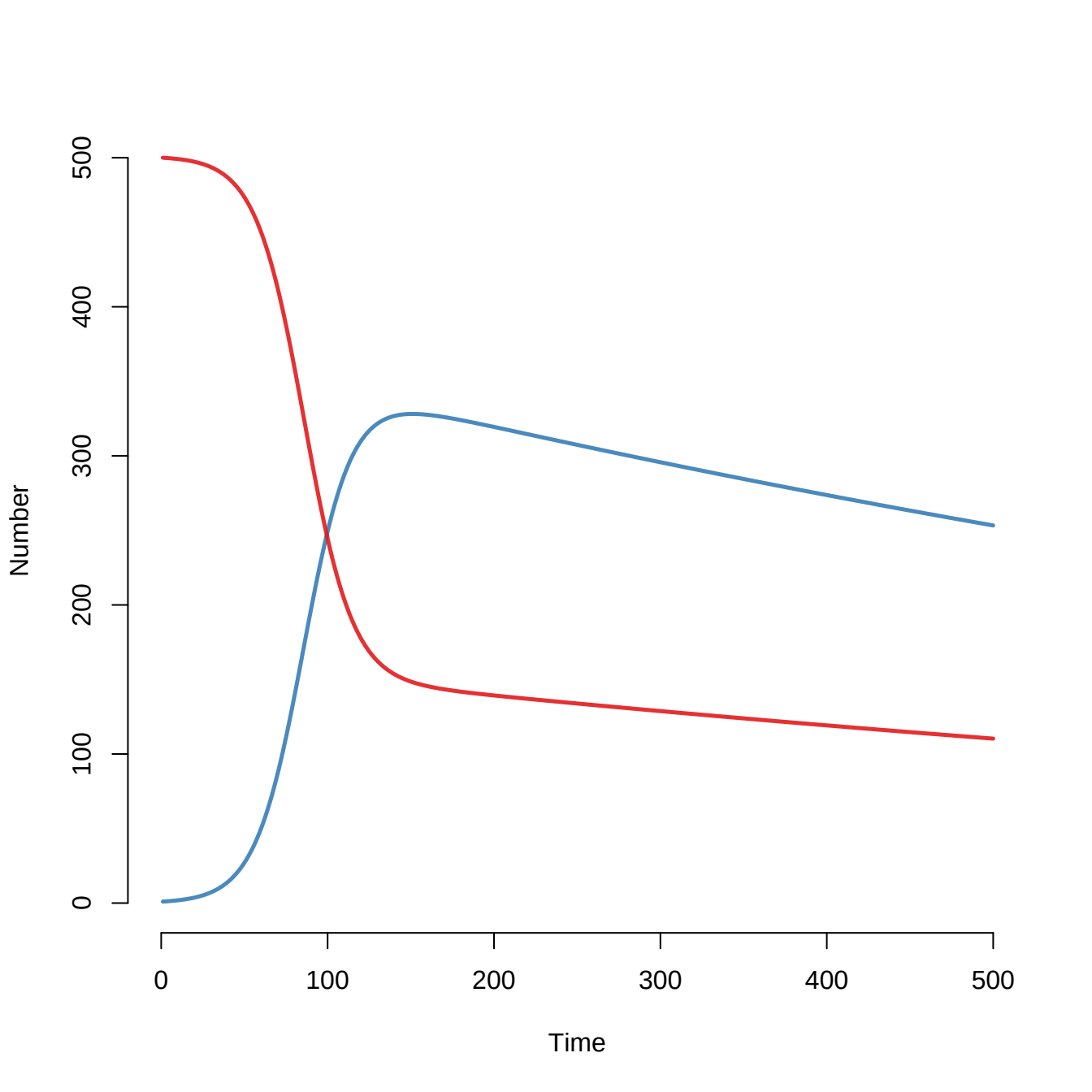
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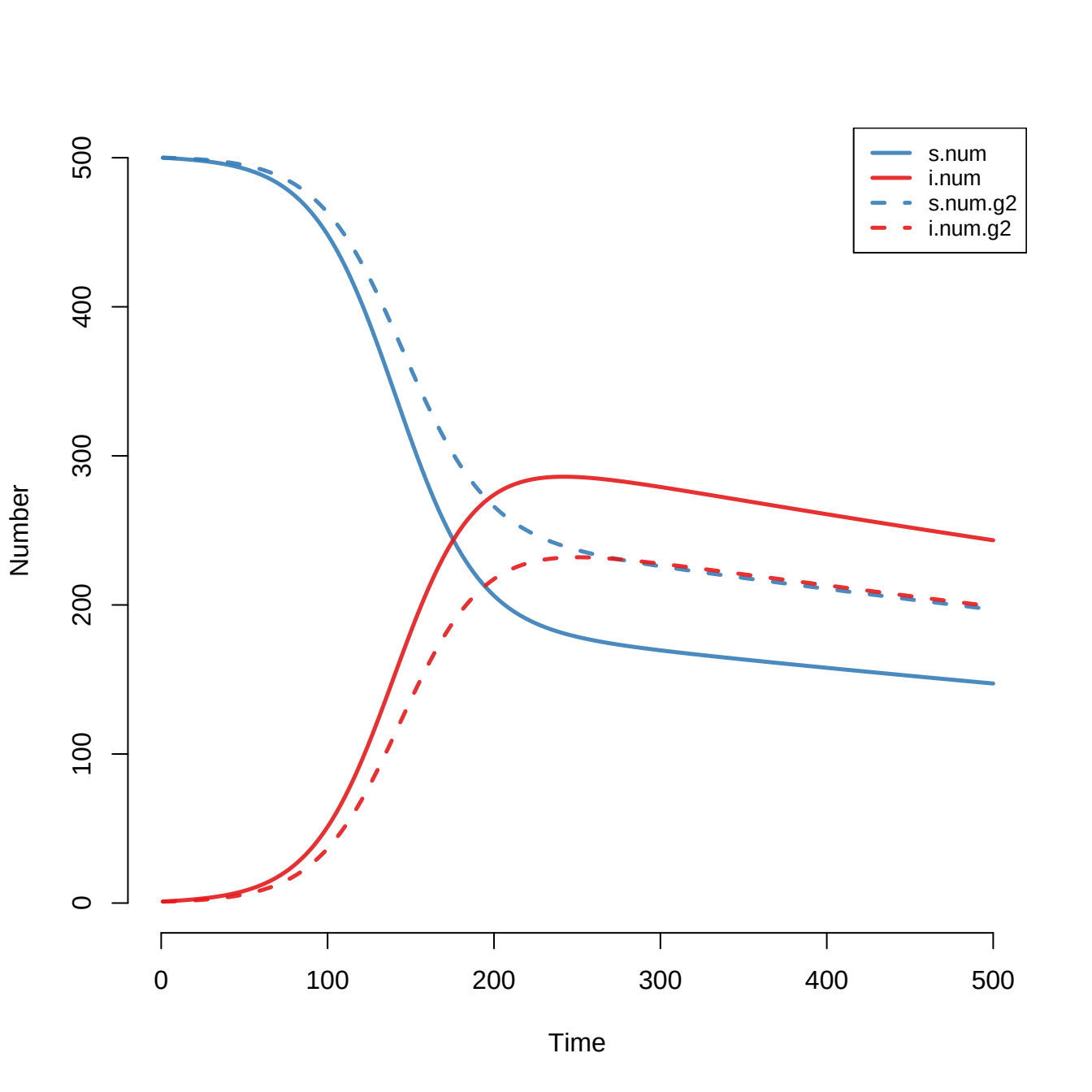
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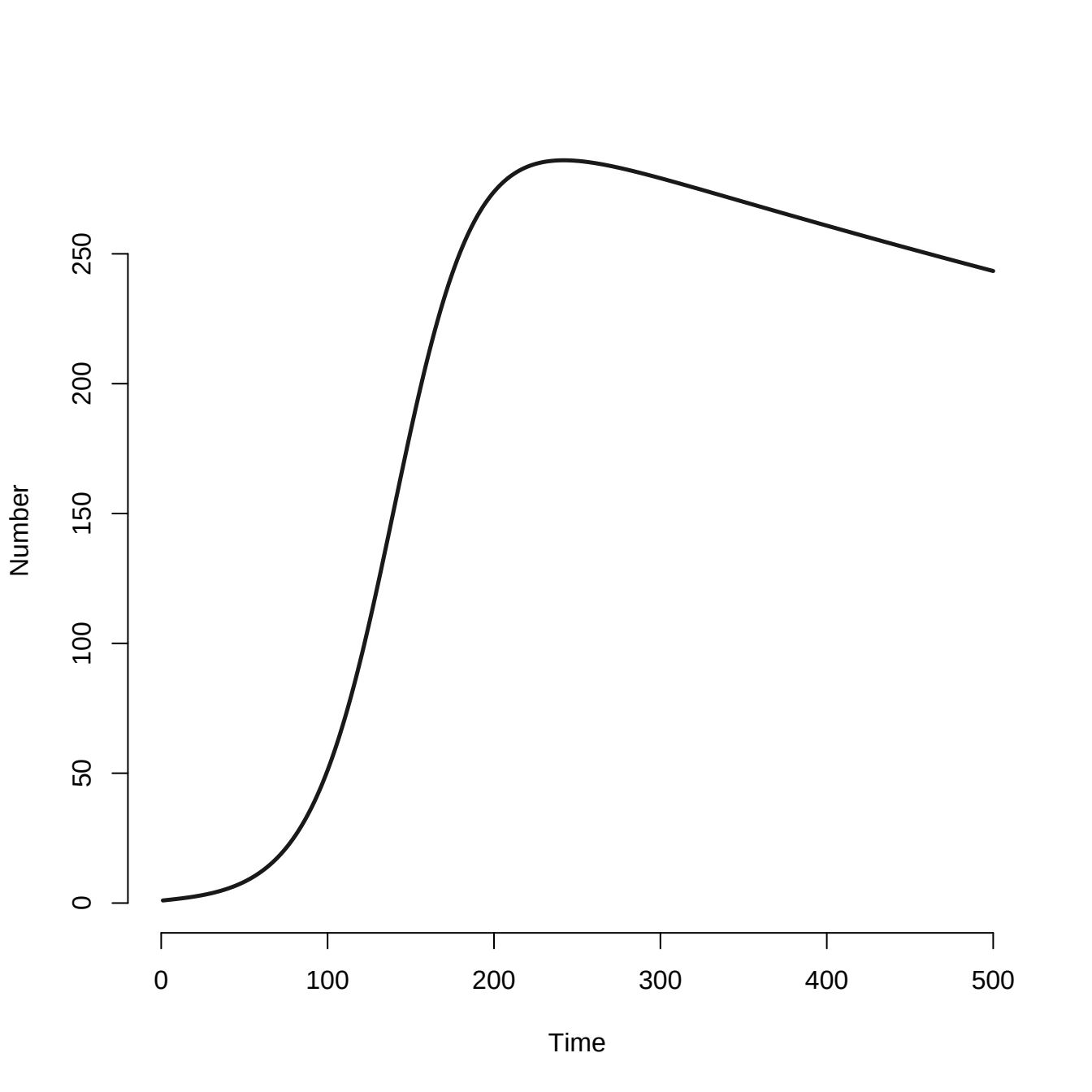
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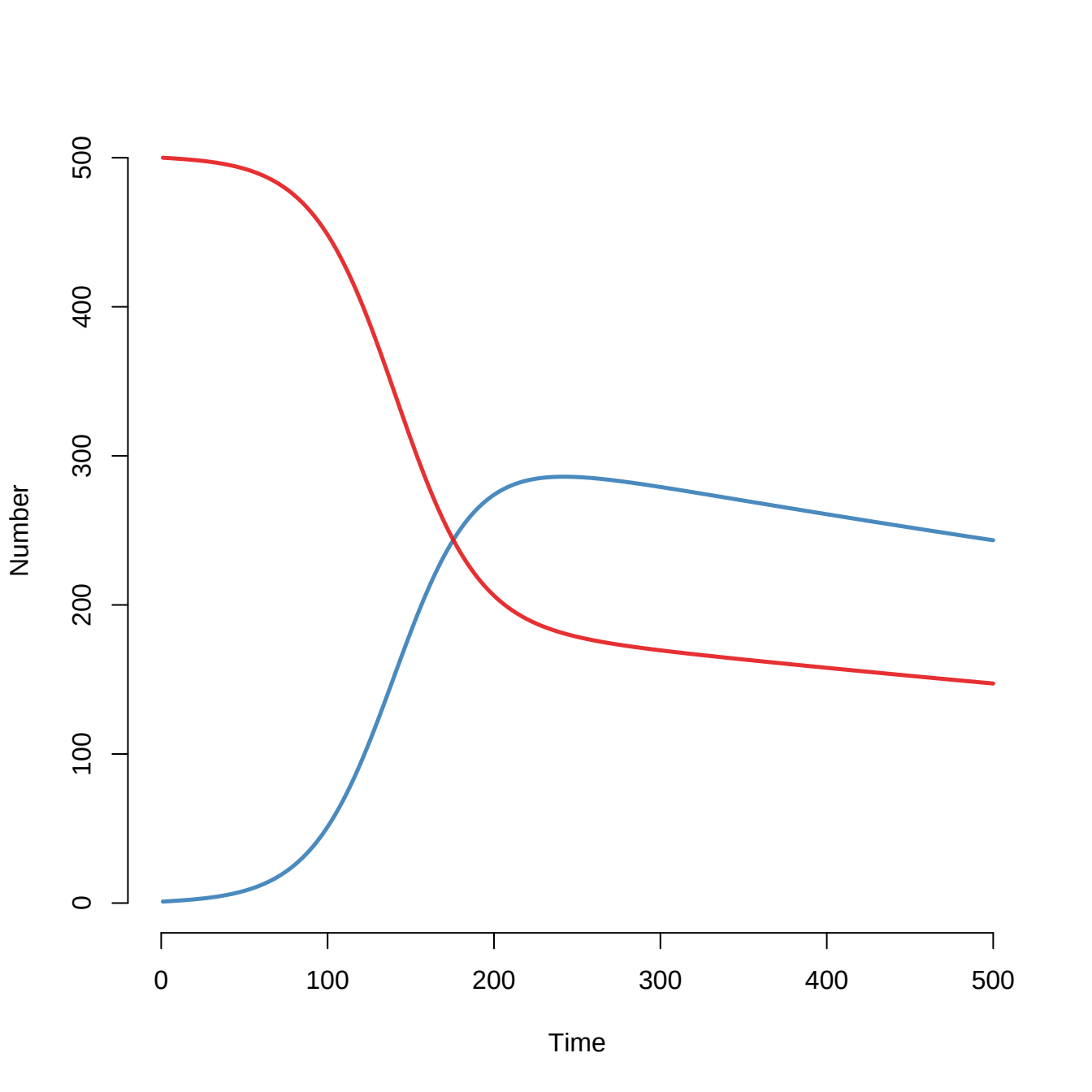
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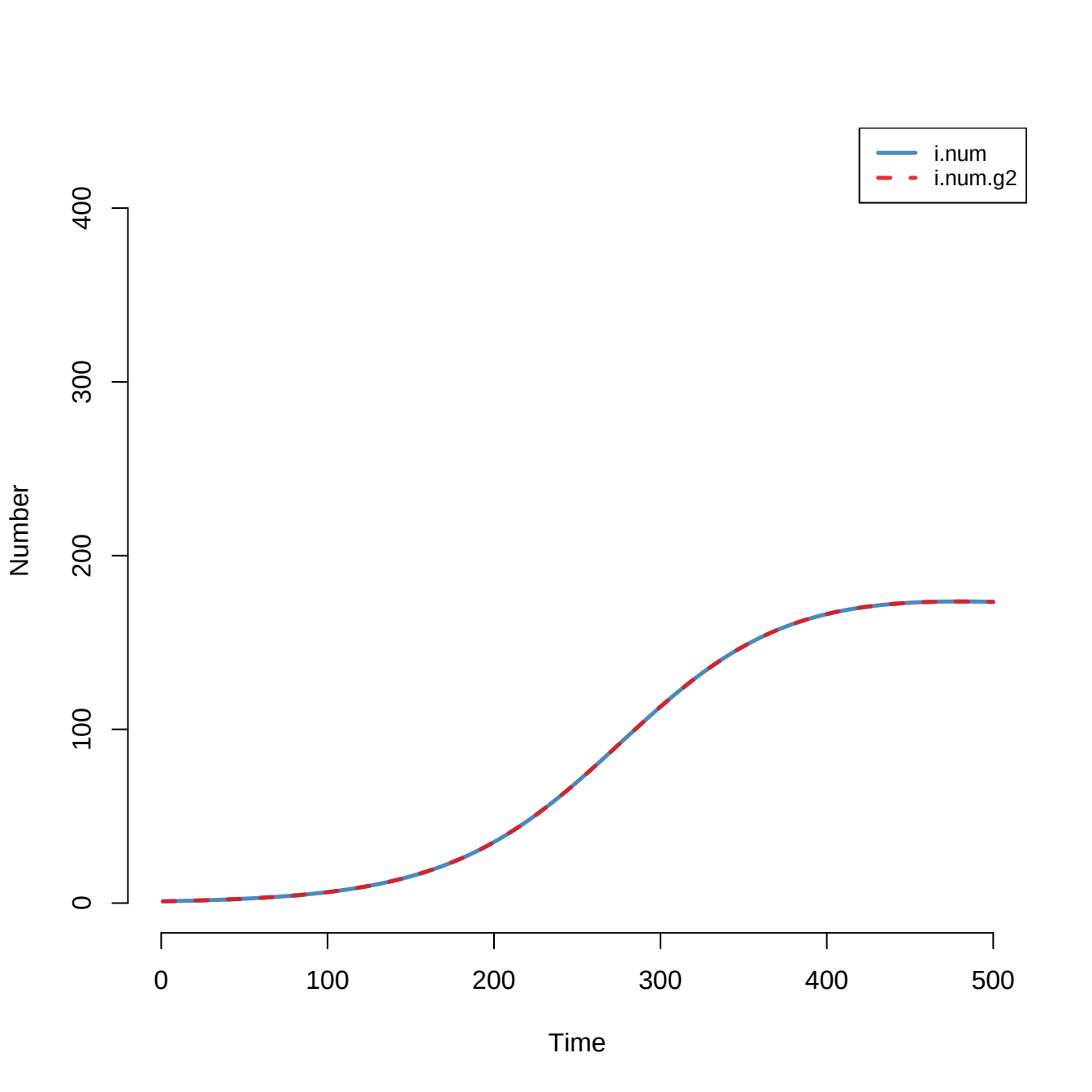
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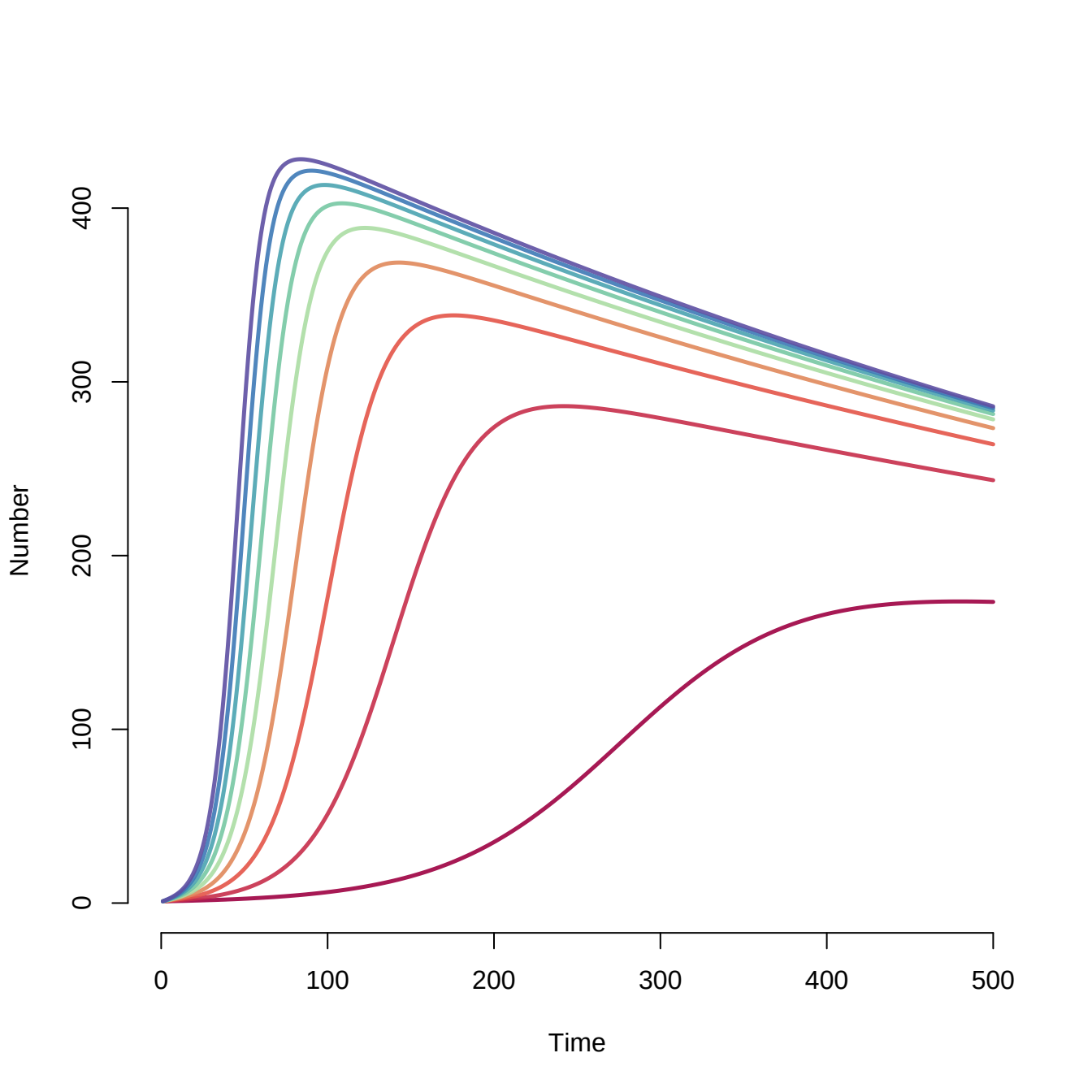
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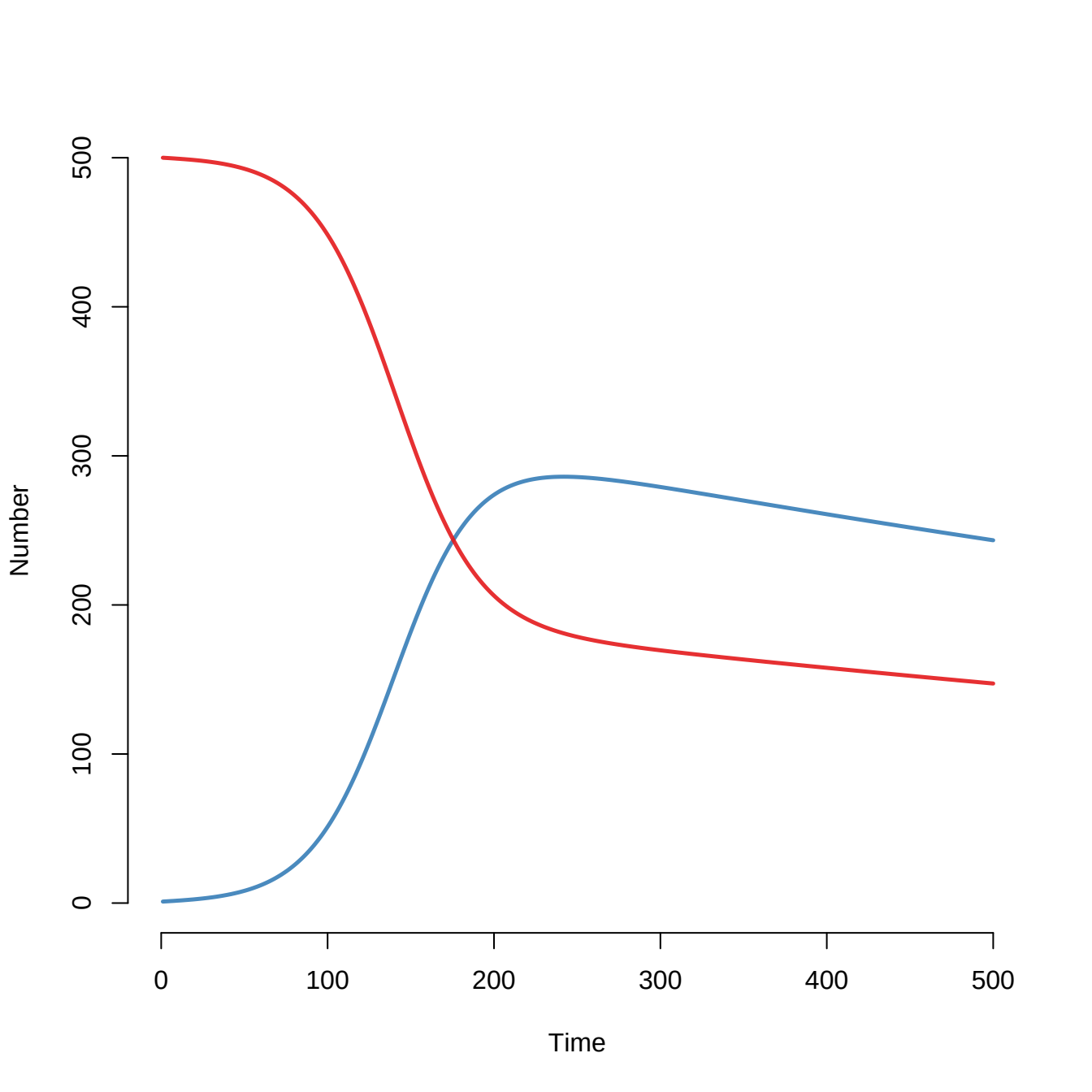
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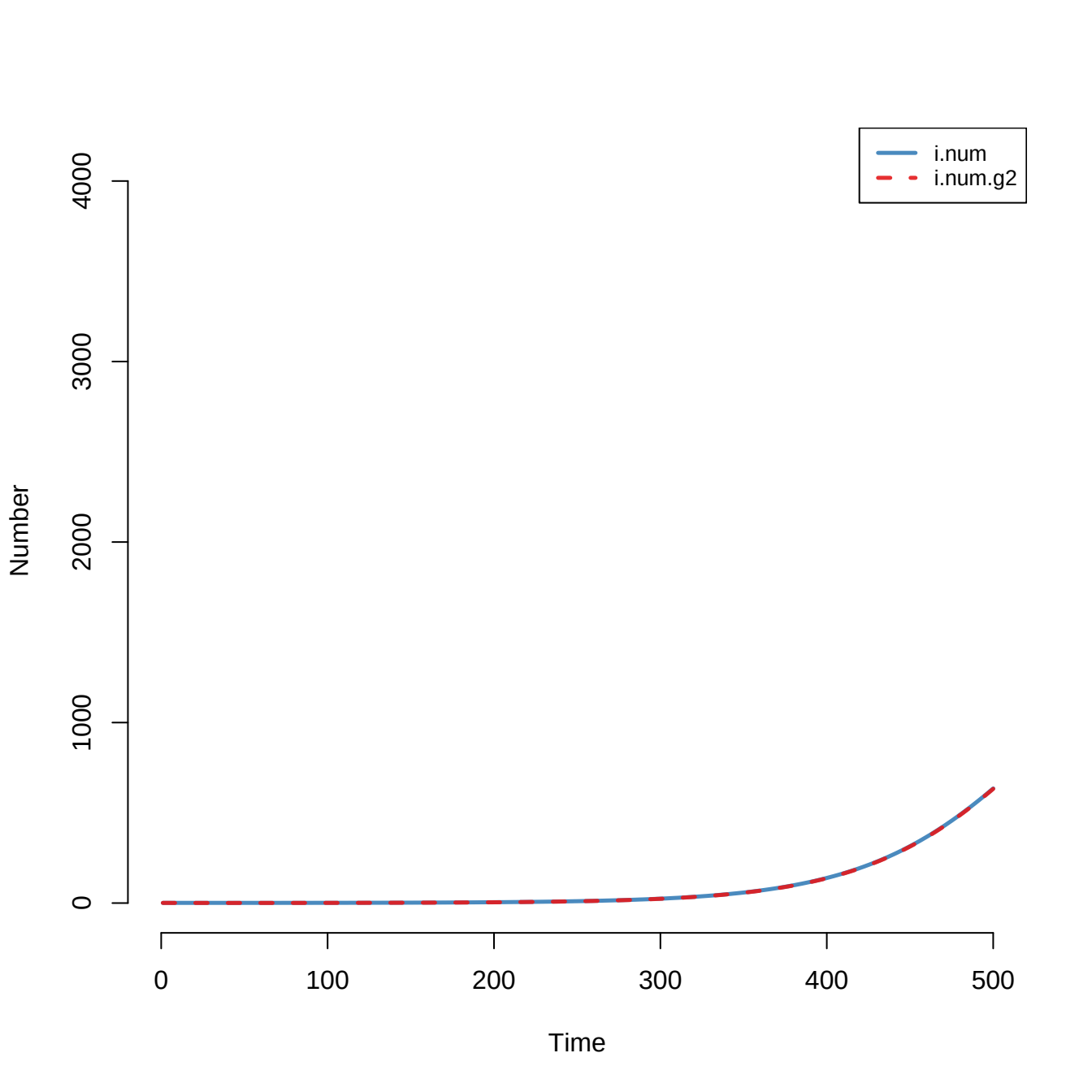
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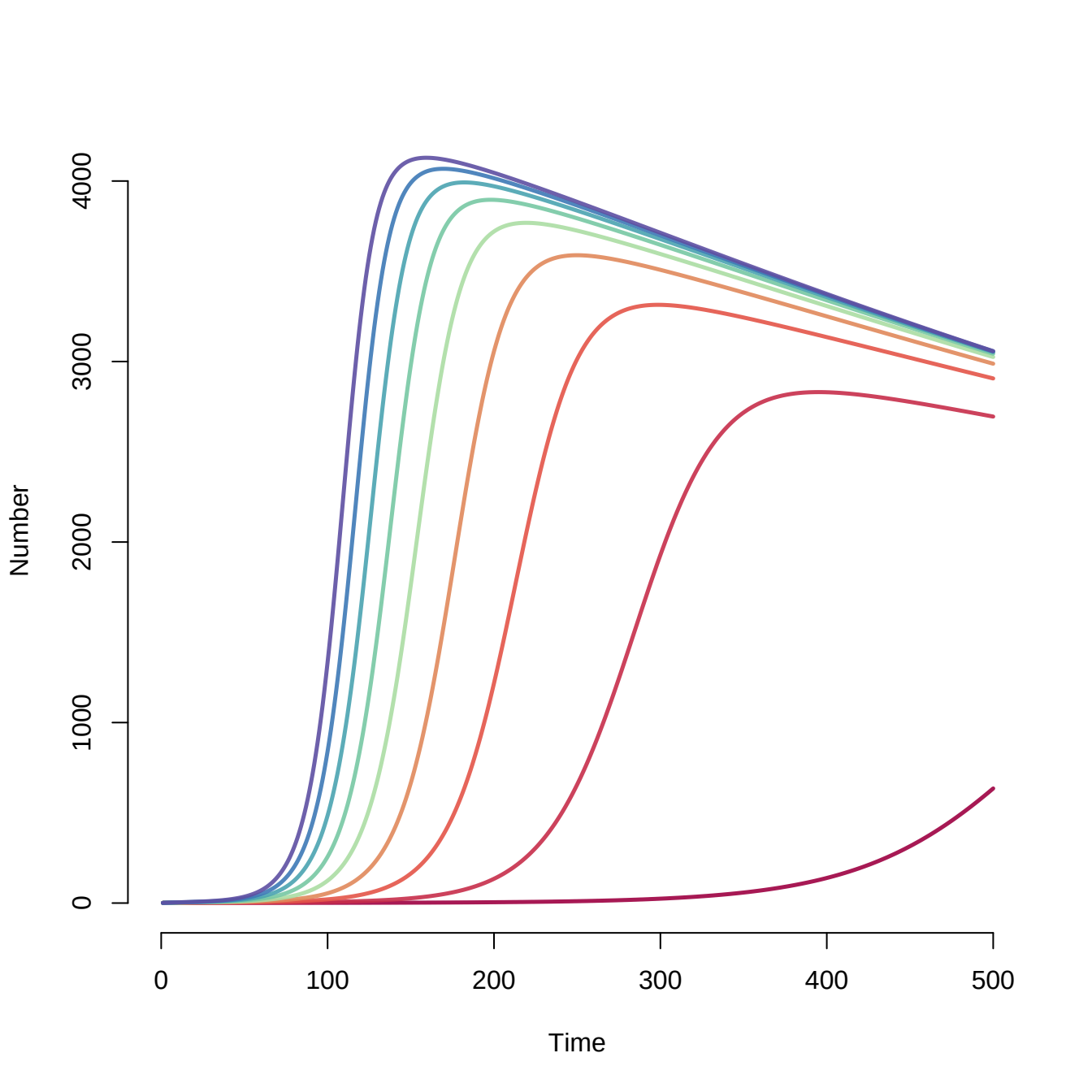
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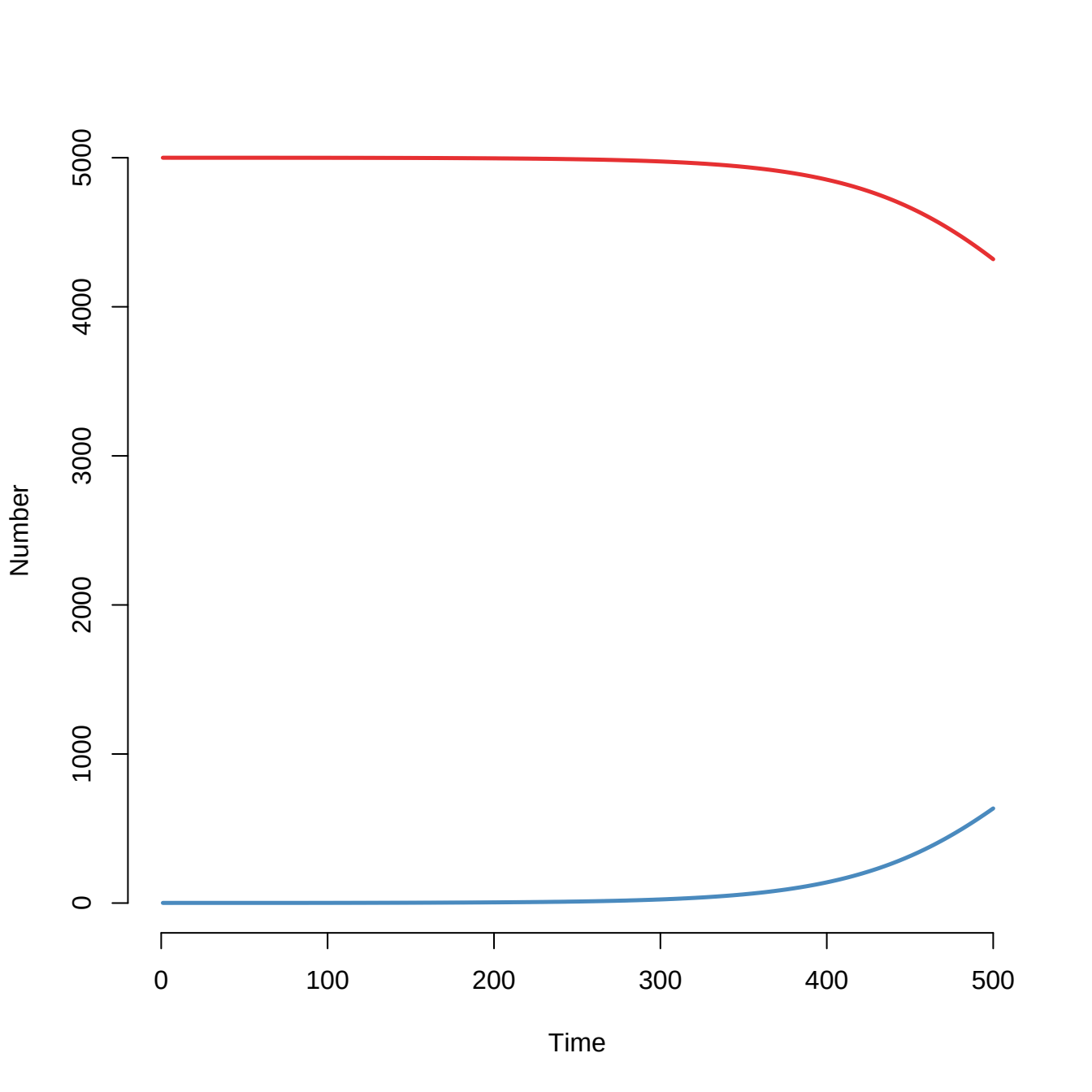
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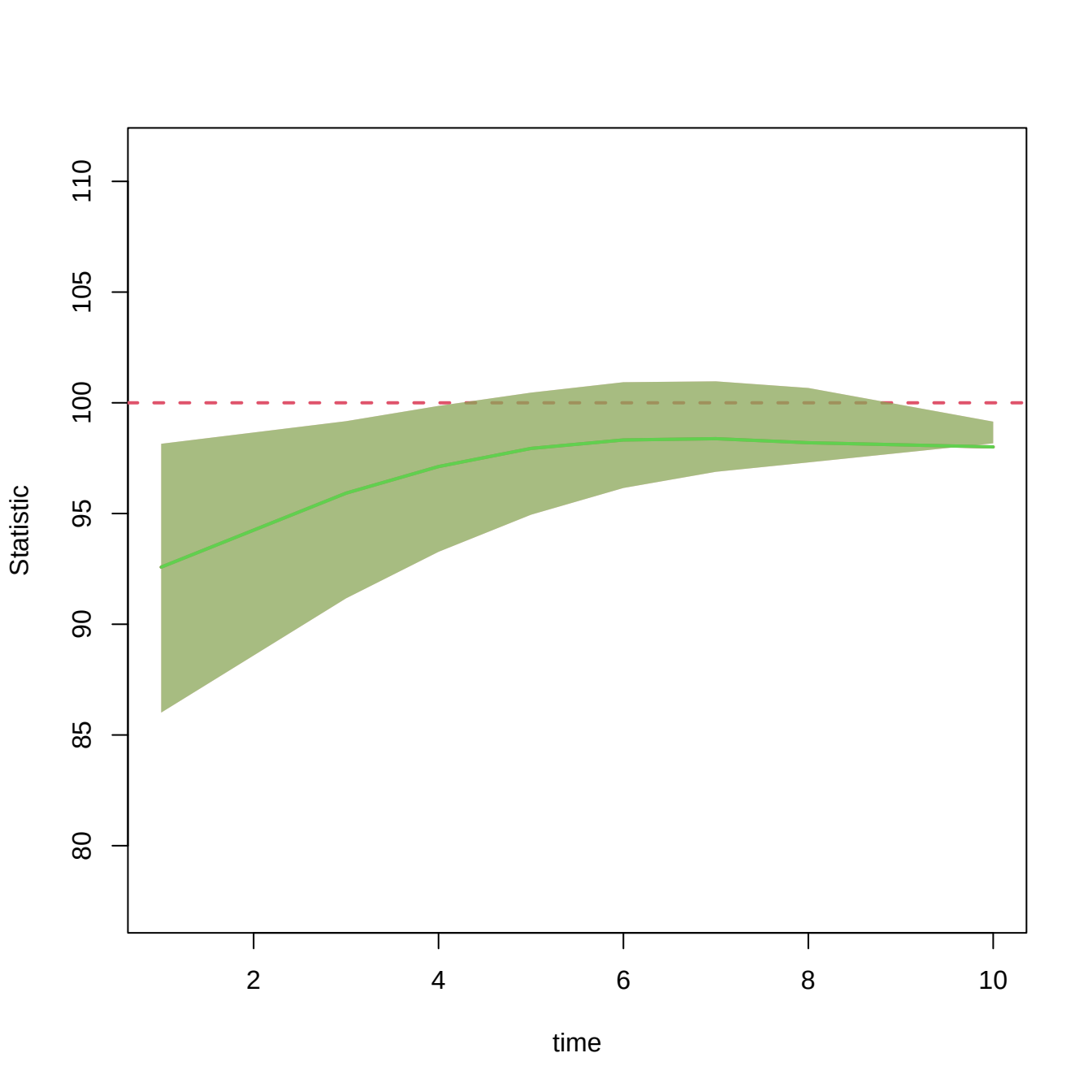
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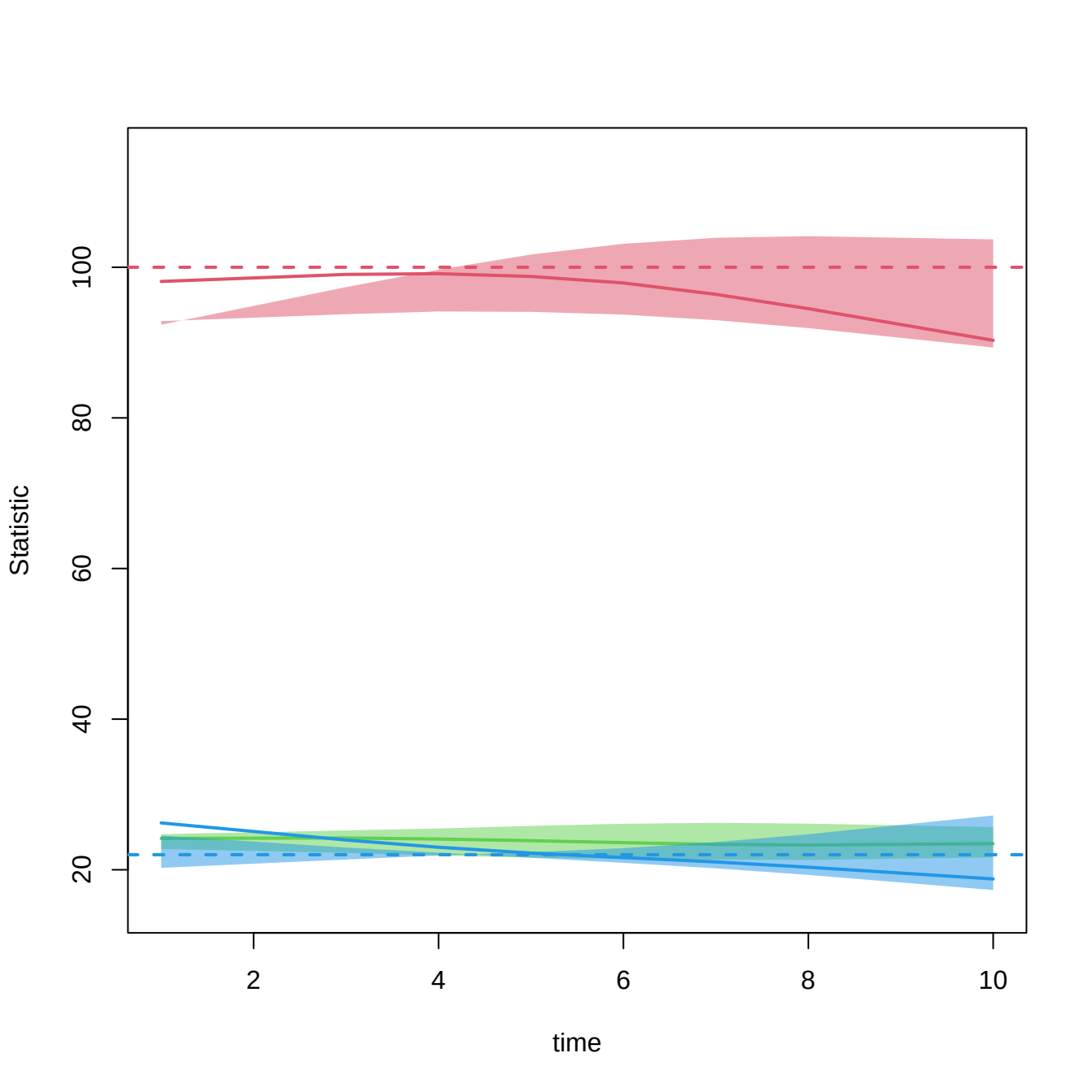
time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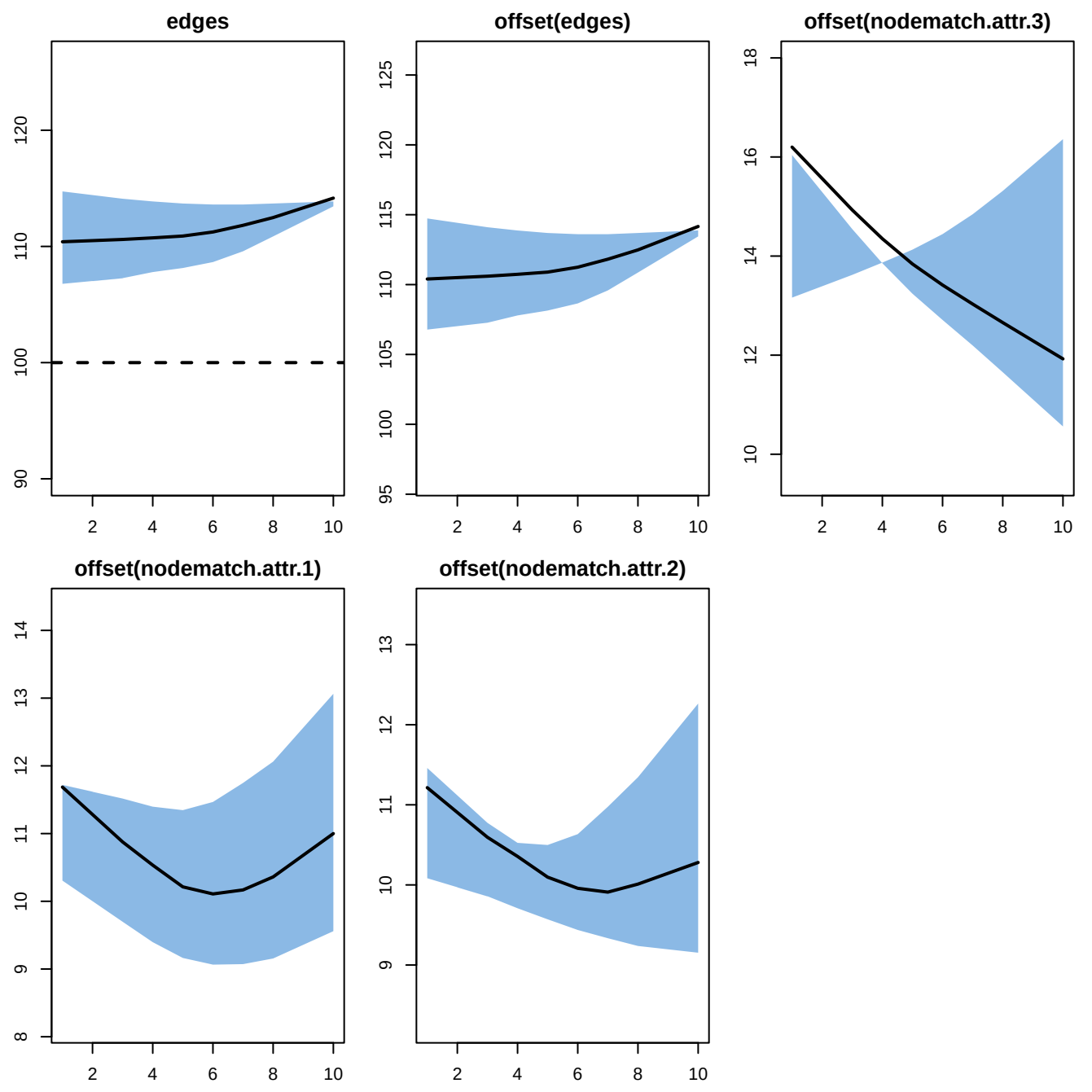
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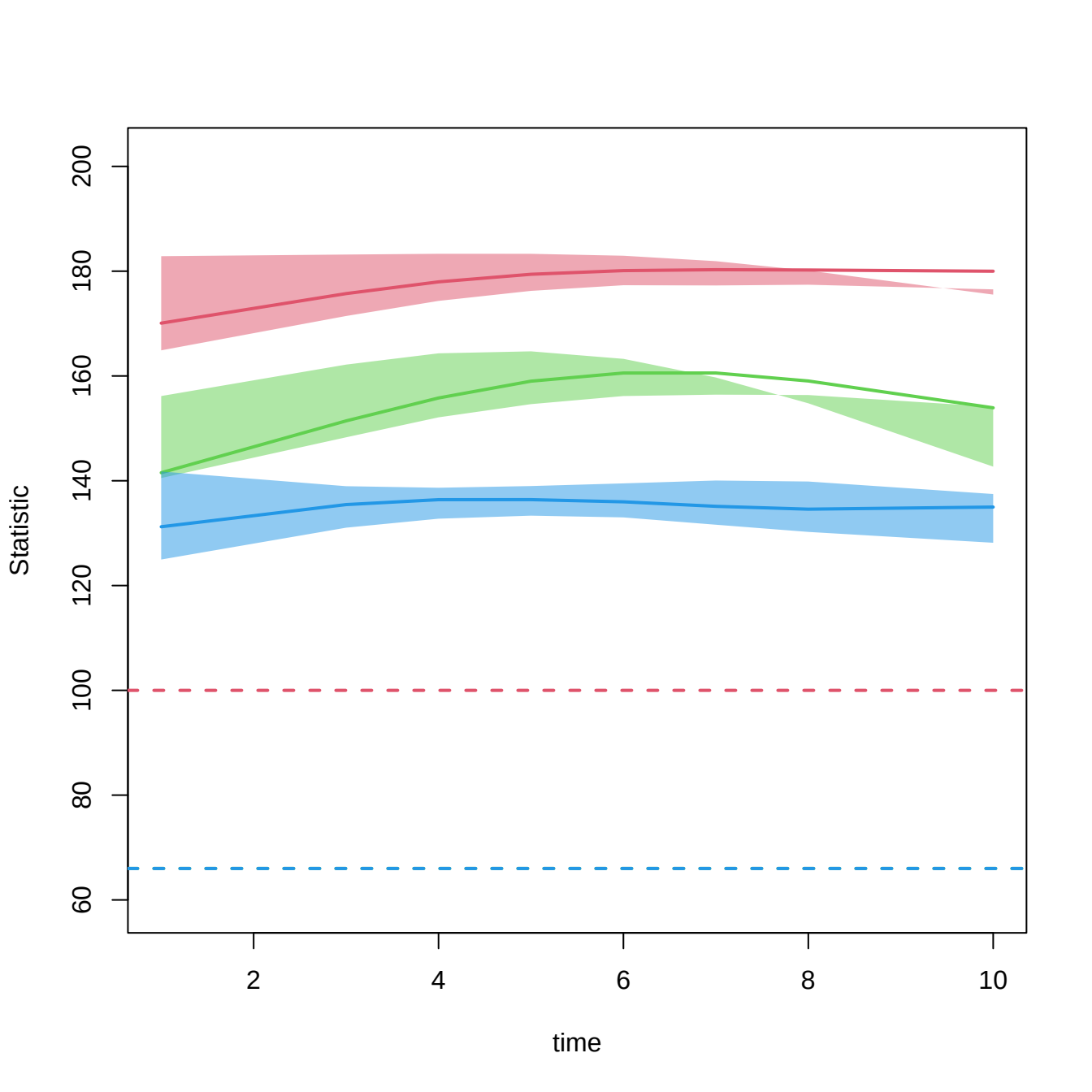
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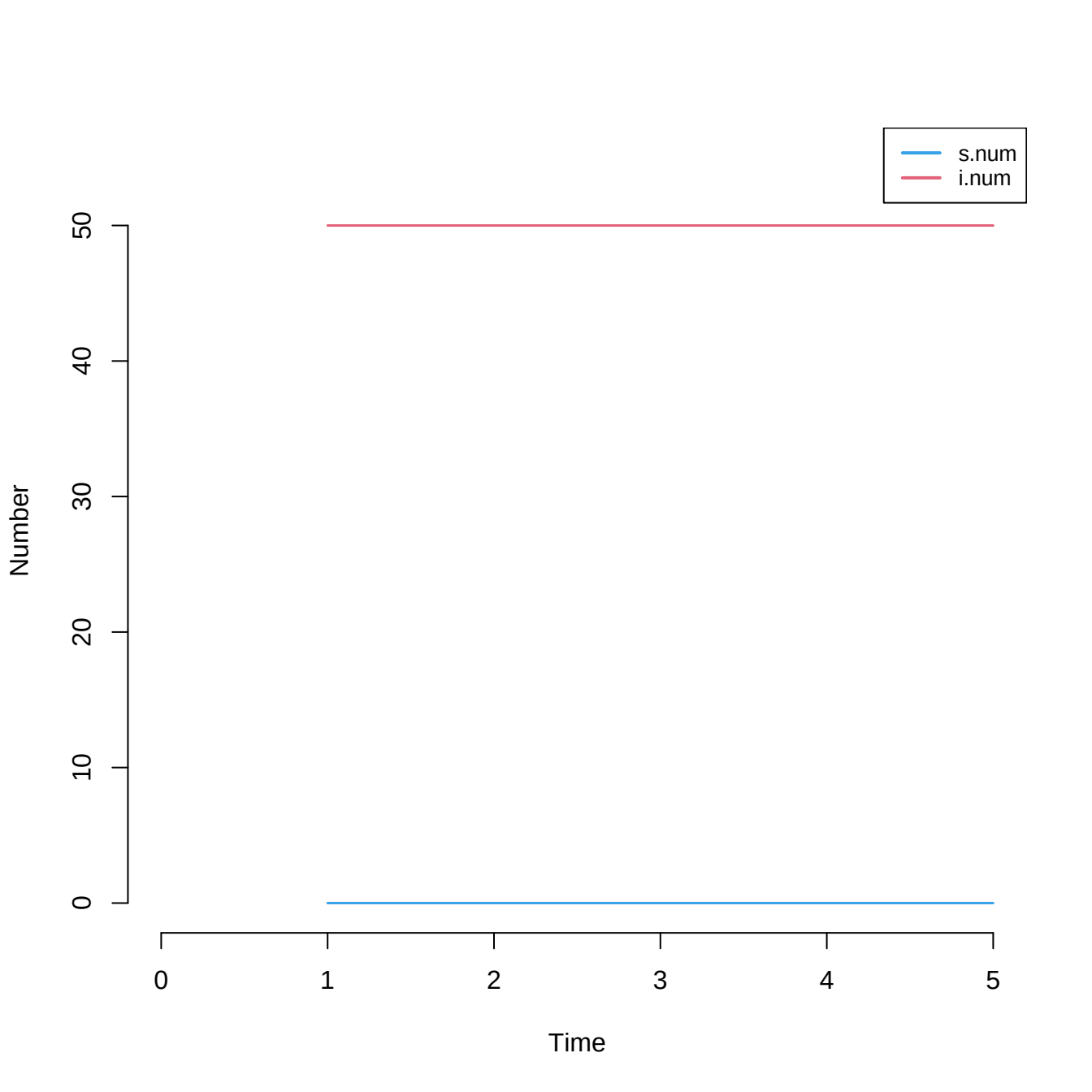
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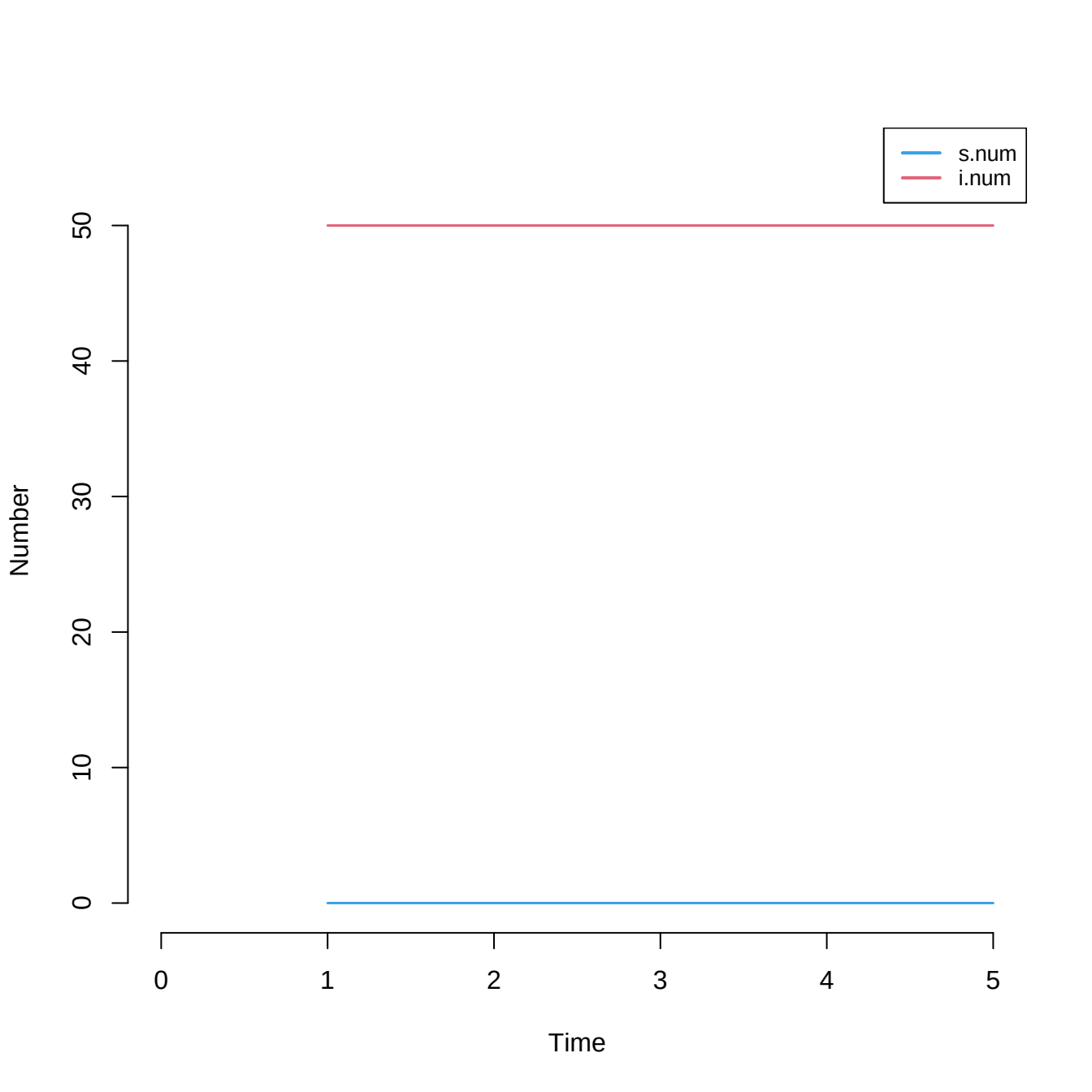
5
Time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i.num
Number
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10
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30
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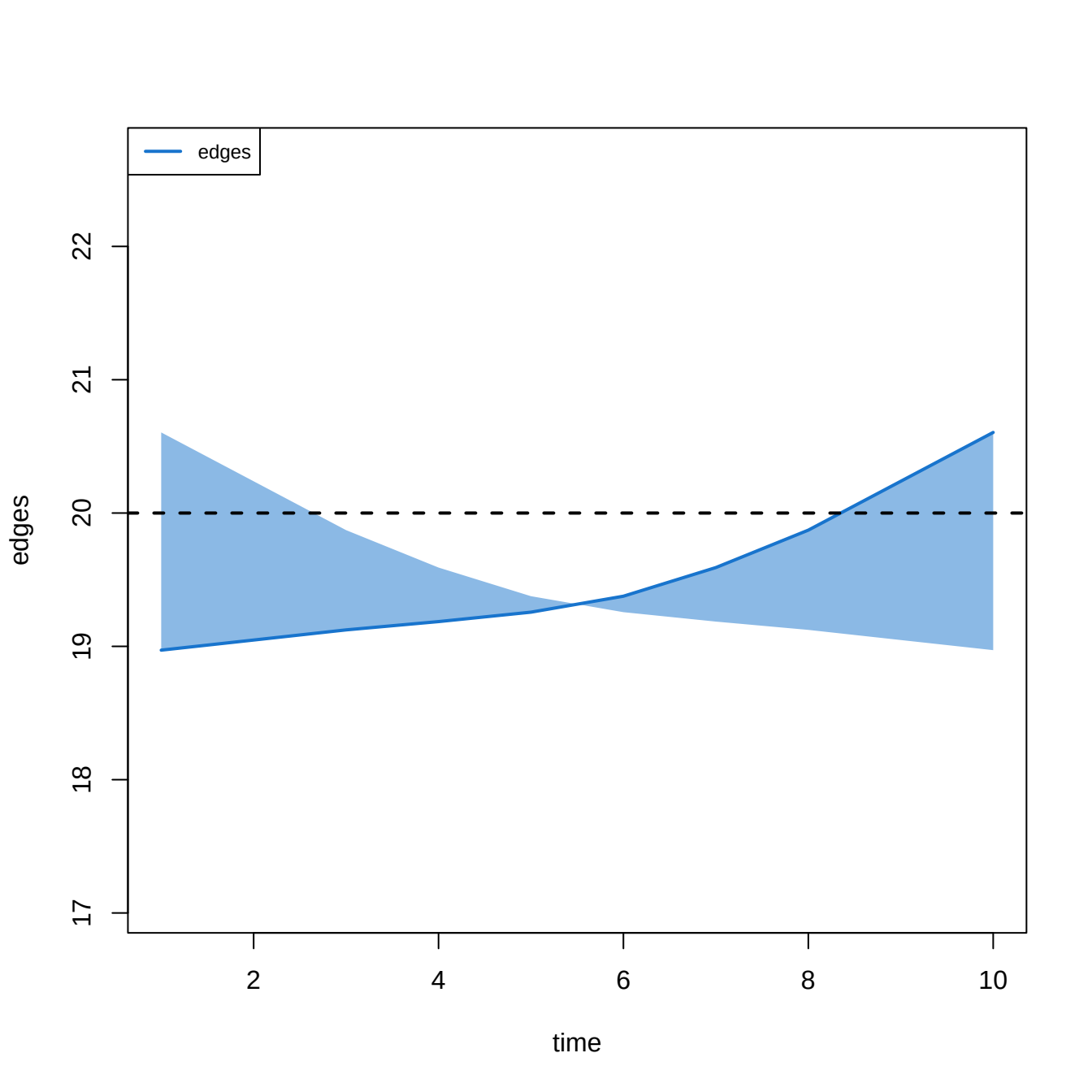
50
0
1
2
3
4
5
Time


edges
edges
22
21
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19
18
17
2
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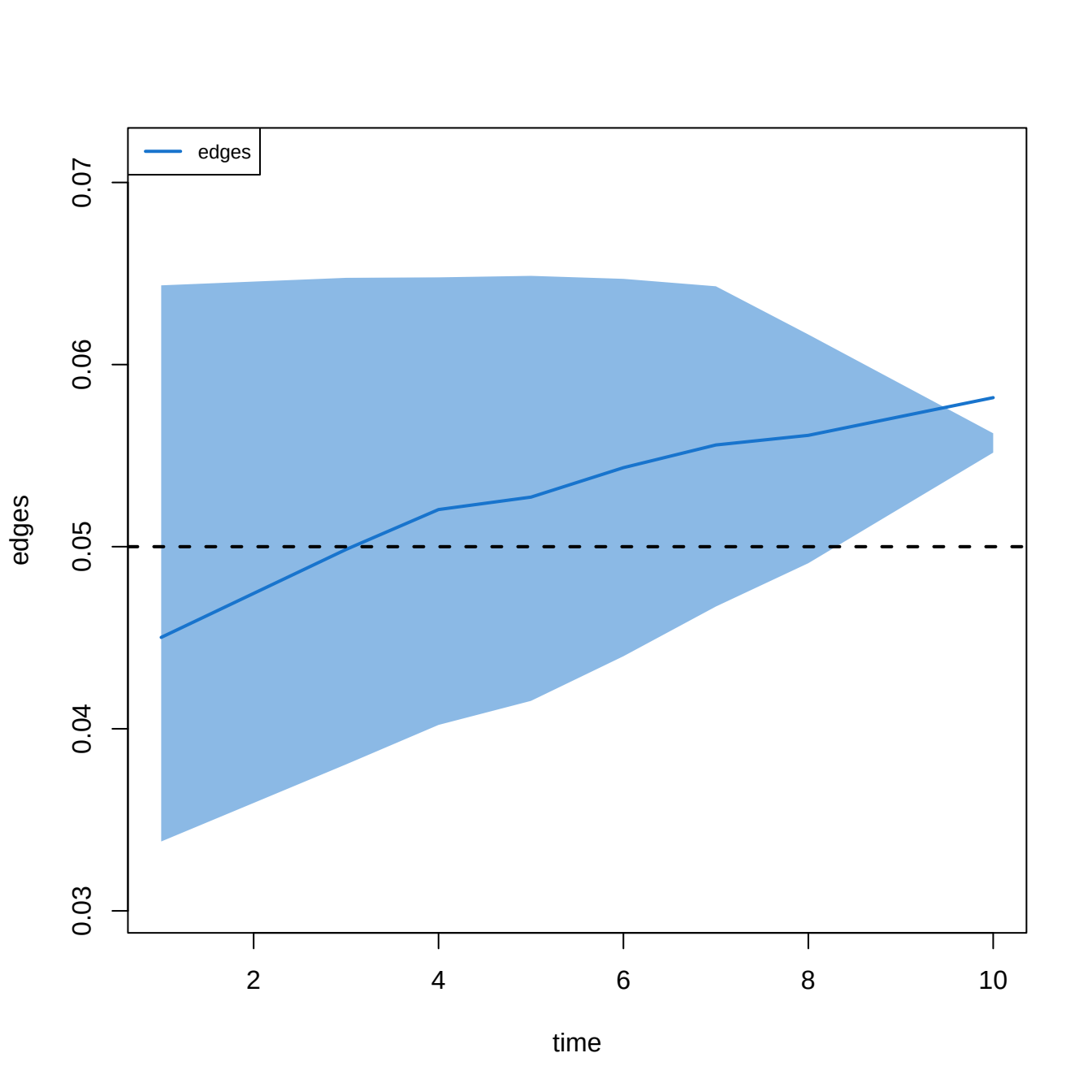
6
8
10
time


edges
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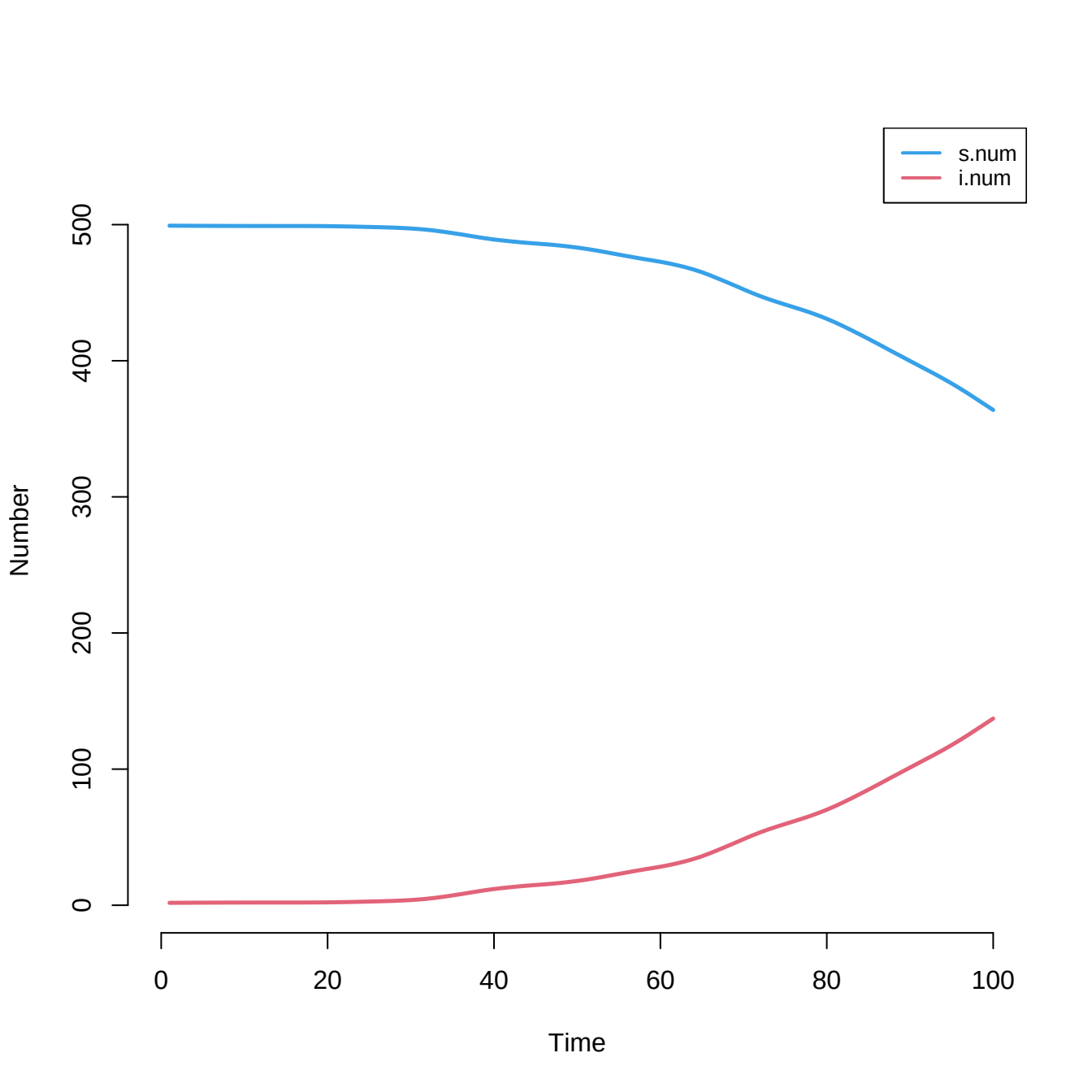
0.05
0.04
0.03
edges
2
4
6
8
10
time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i.num
Number
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60
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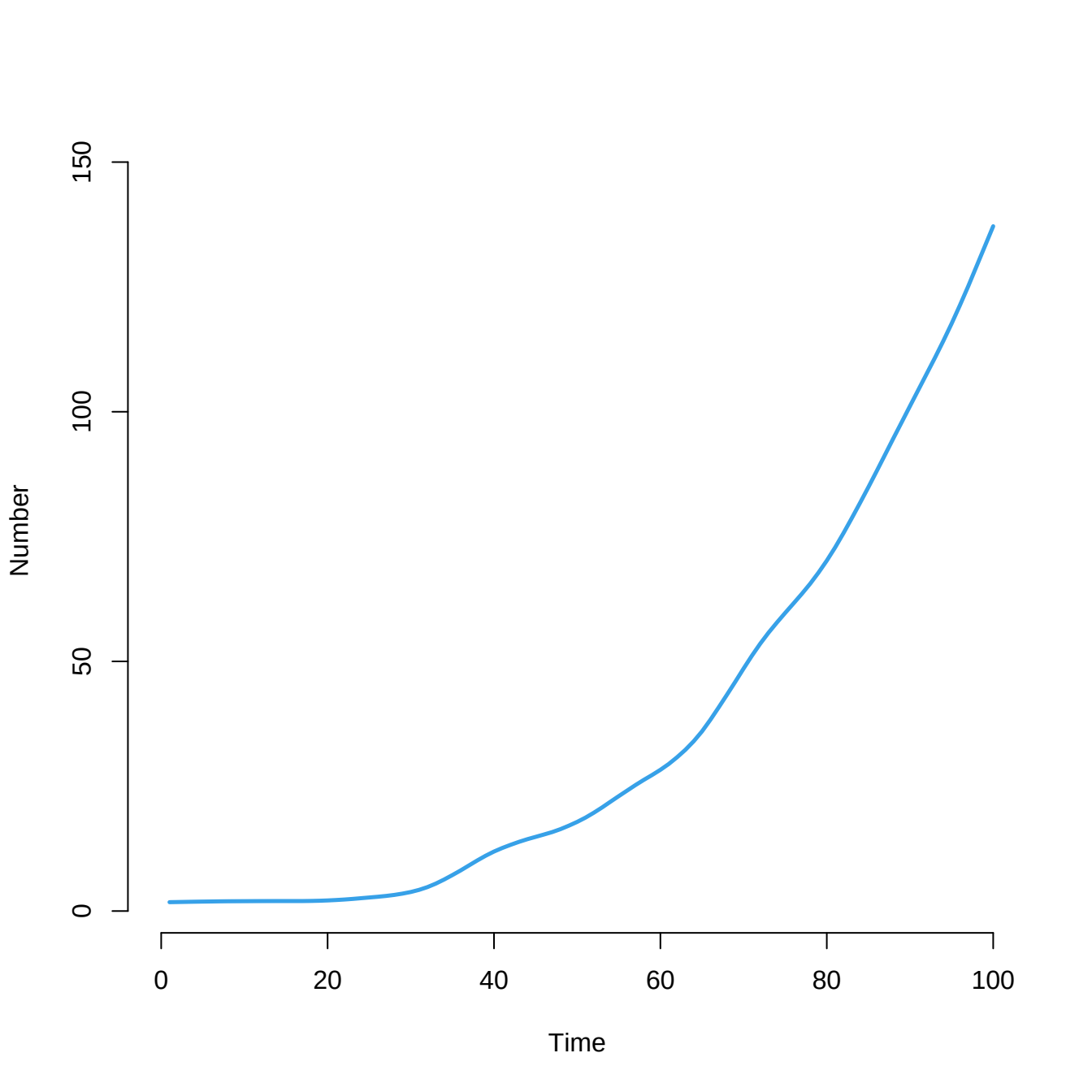
100
Time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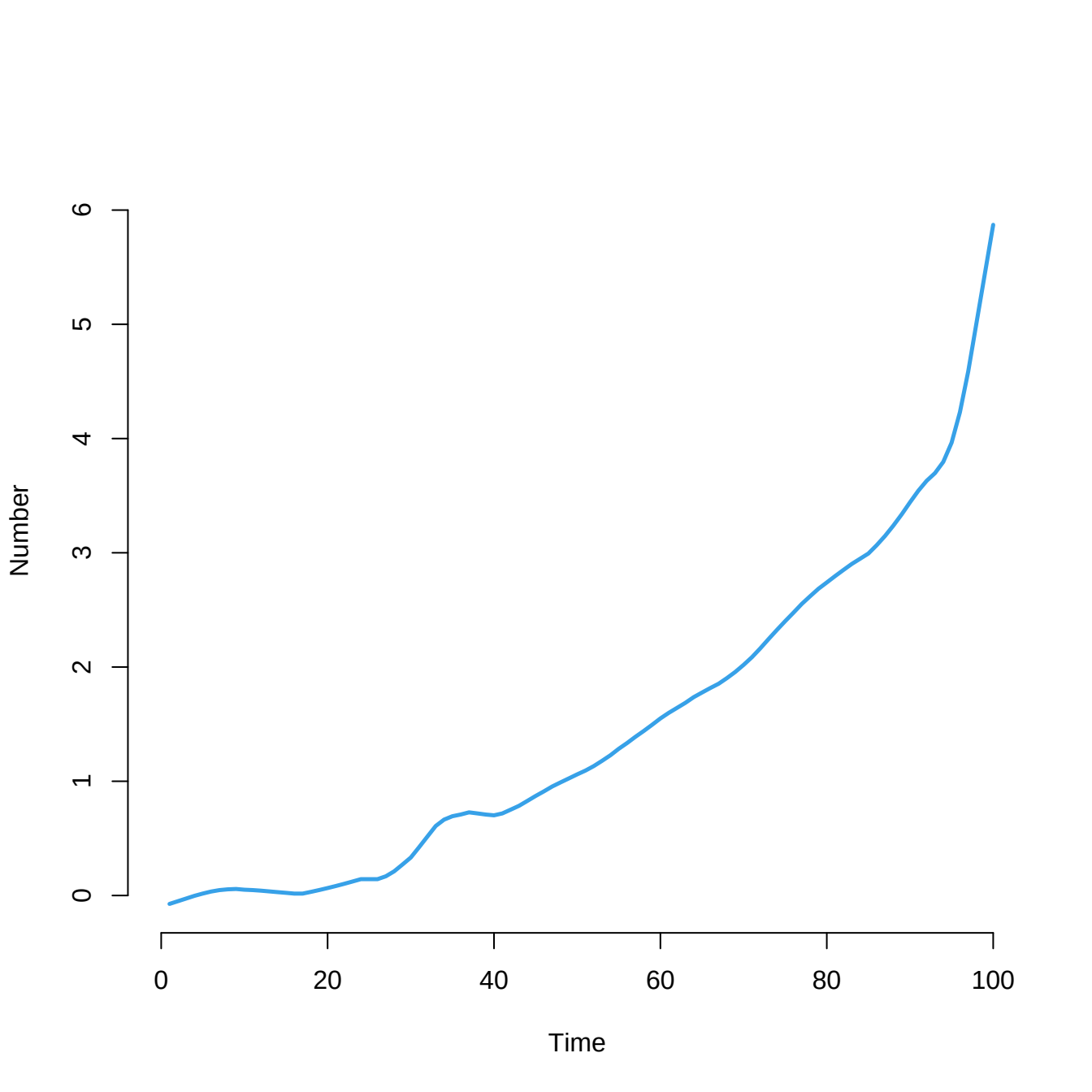
100
Time


Number
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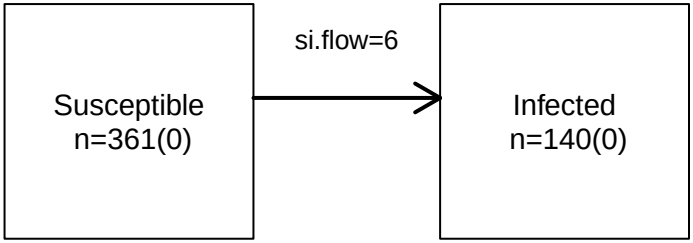
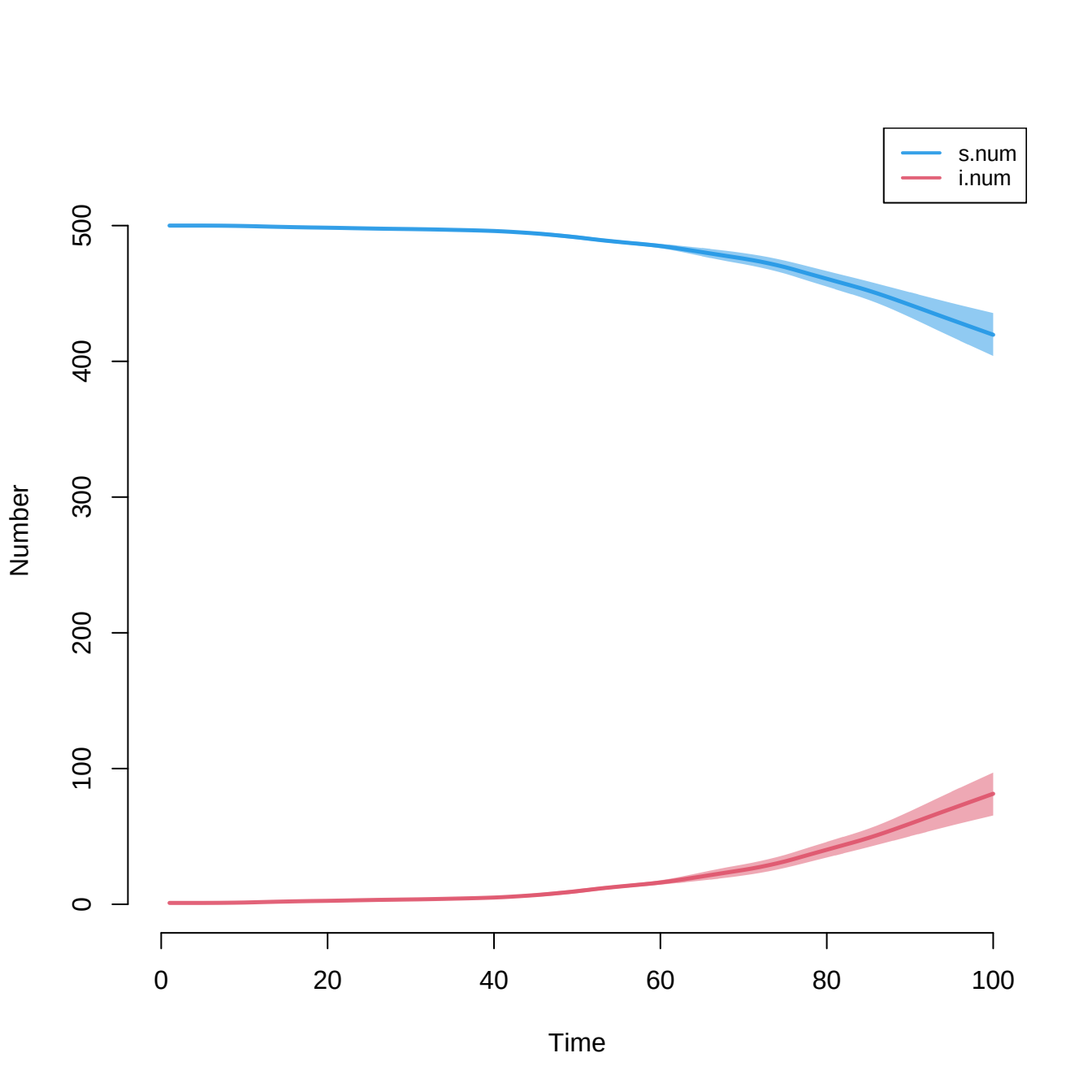
0
20
40
60
80
100
Time

SI Model Diagram

Simulation means(sd) | time=100

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i.num
Number
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500
0
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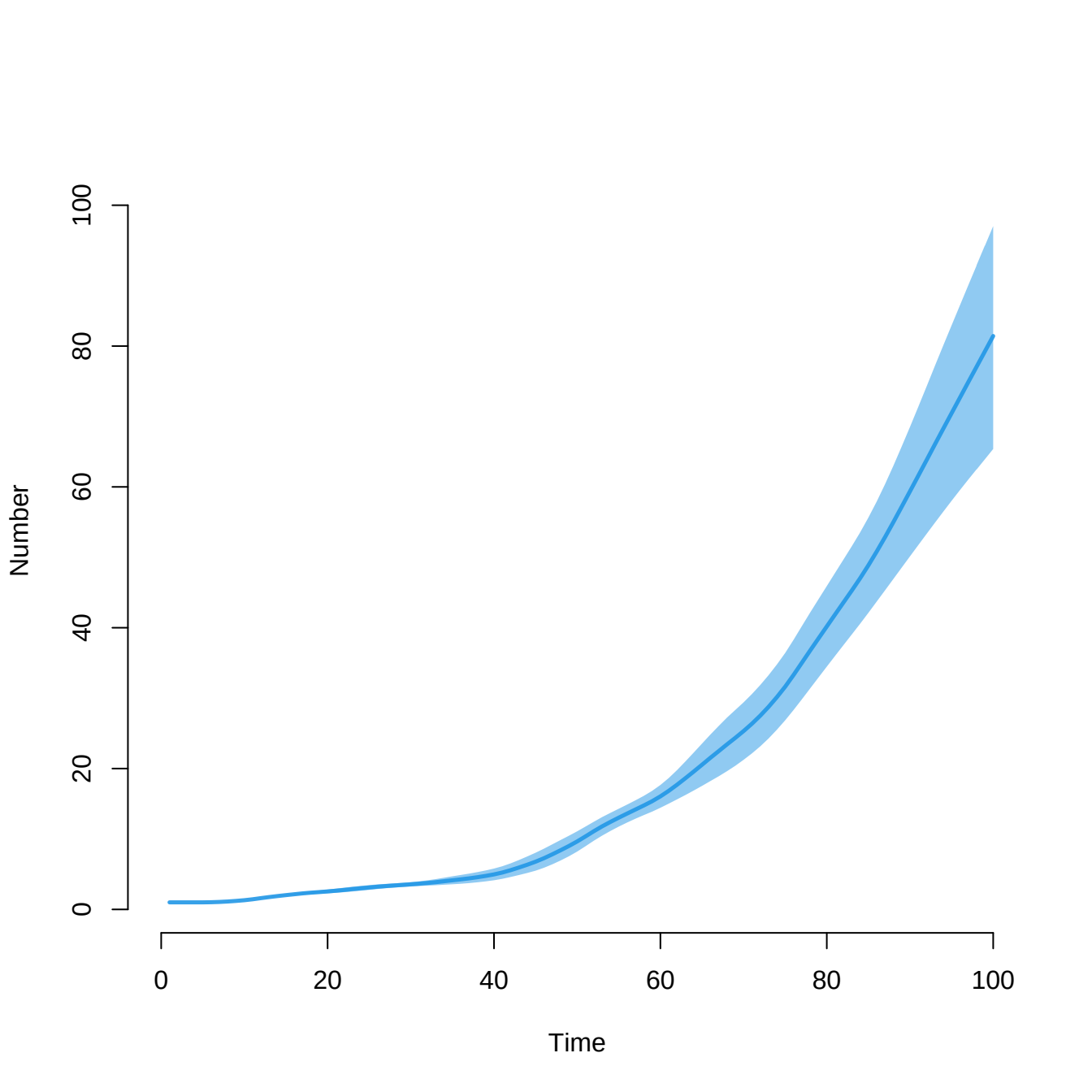
40
60
80
100
Time


Number
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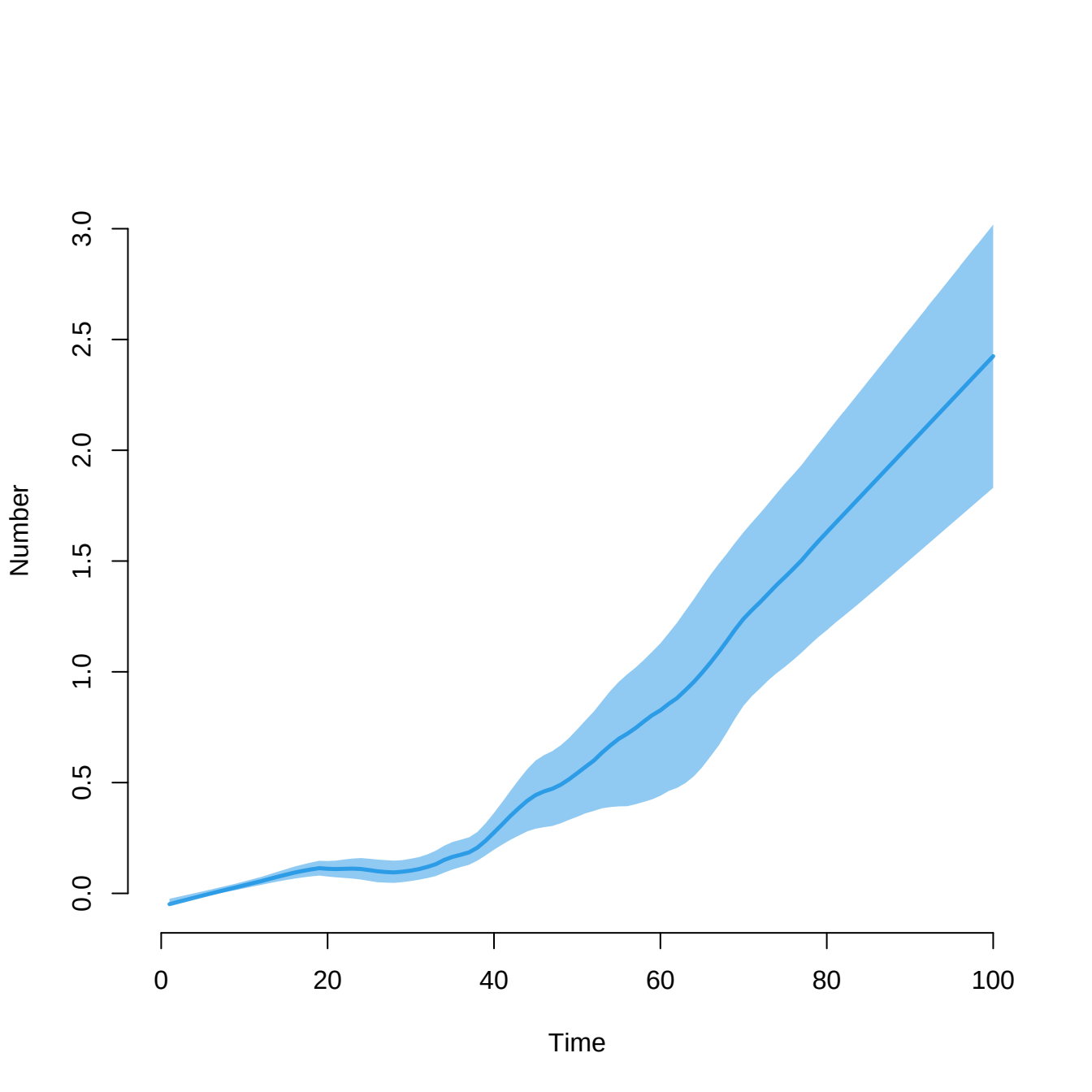
40
60
80
100
Time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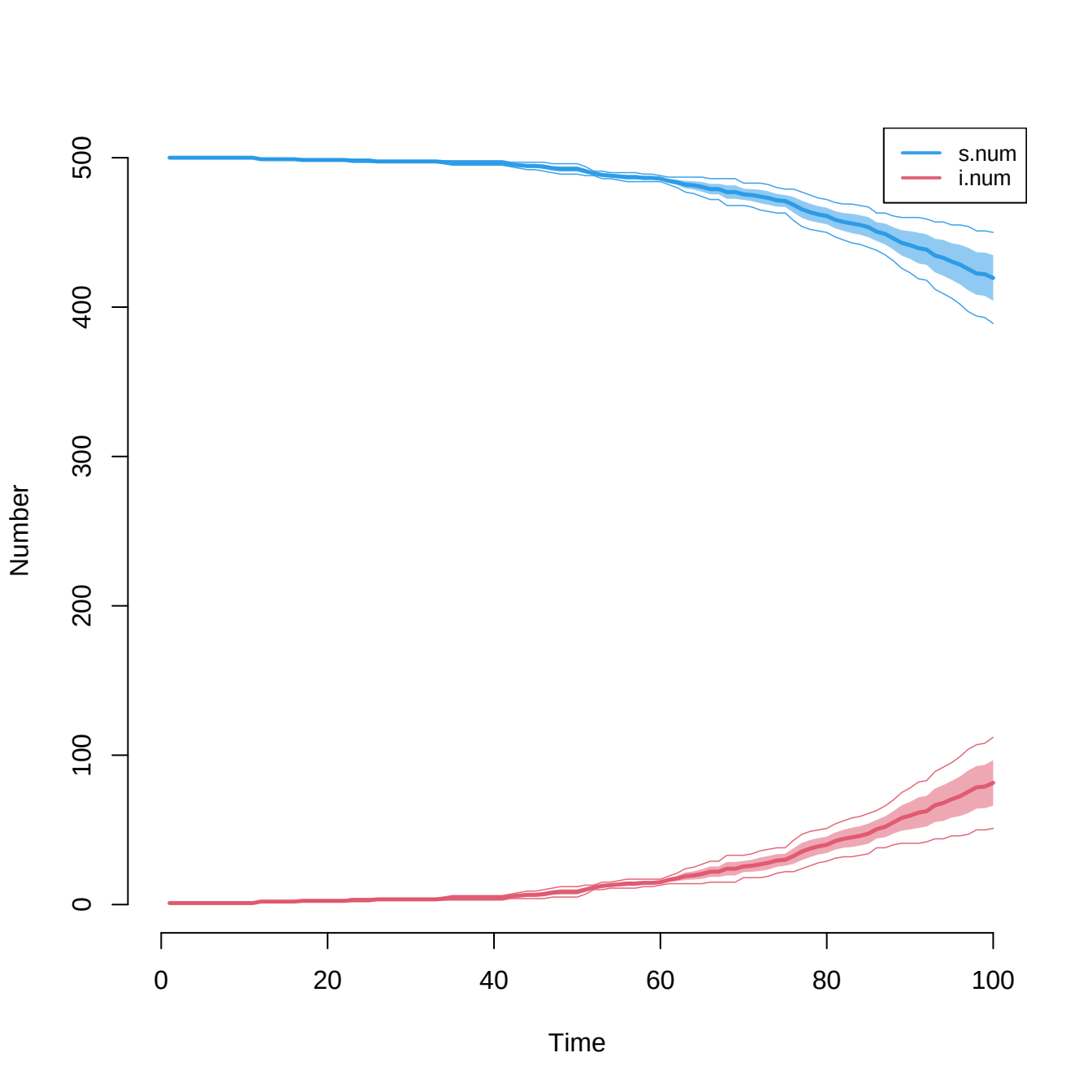
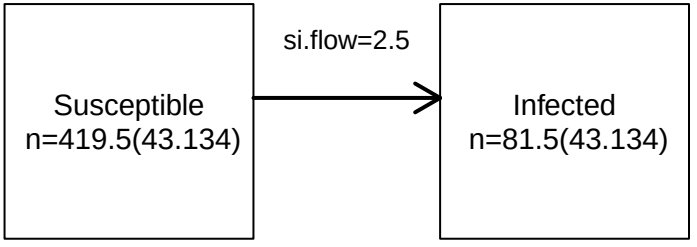
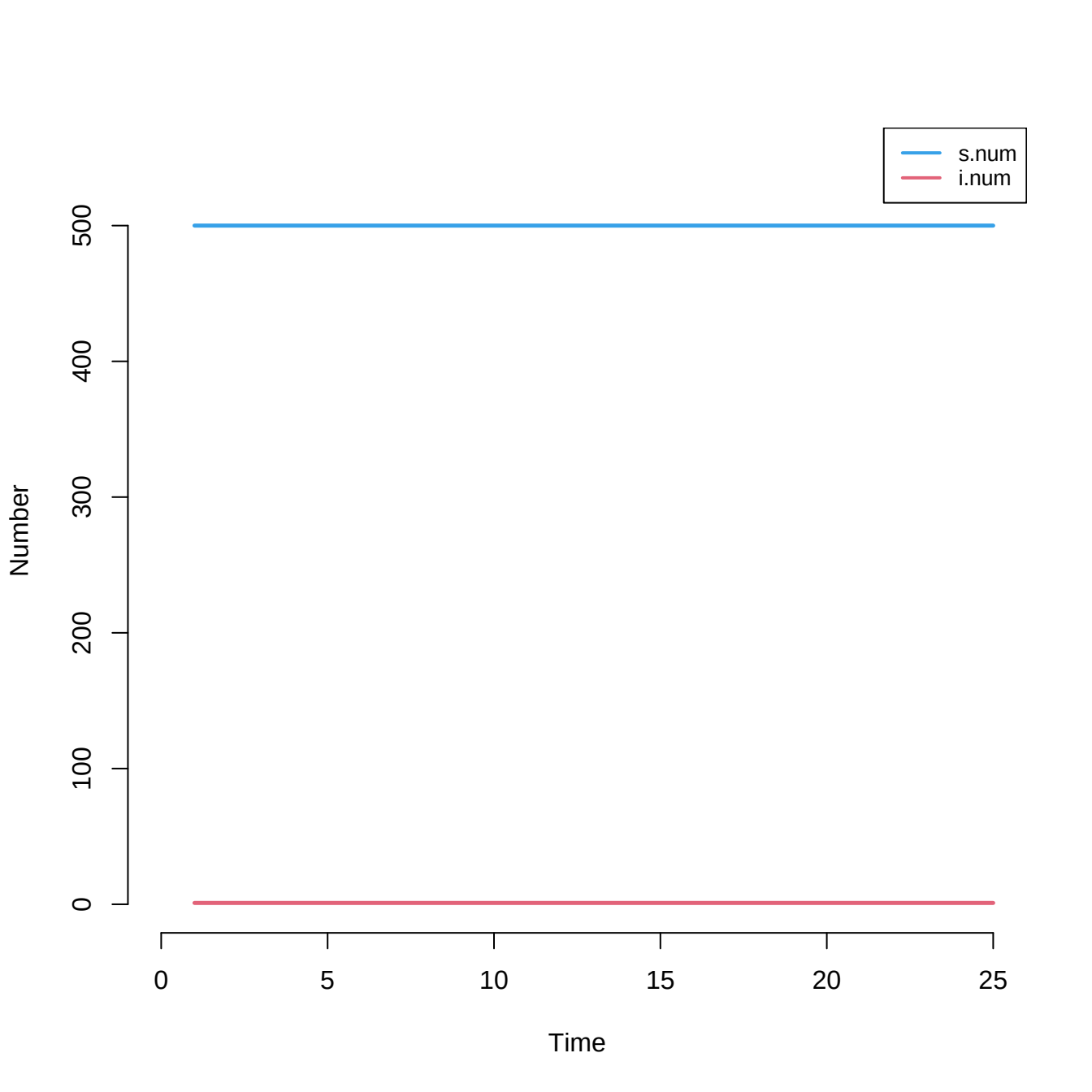
1.0
1.5
2.0
2.5
3.0
0
20
40
60
80
100
Time

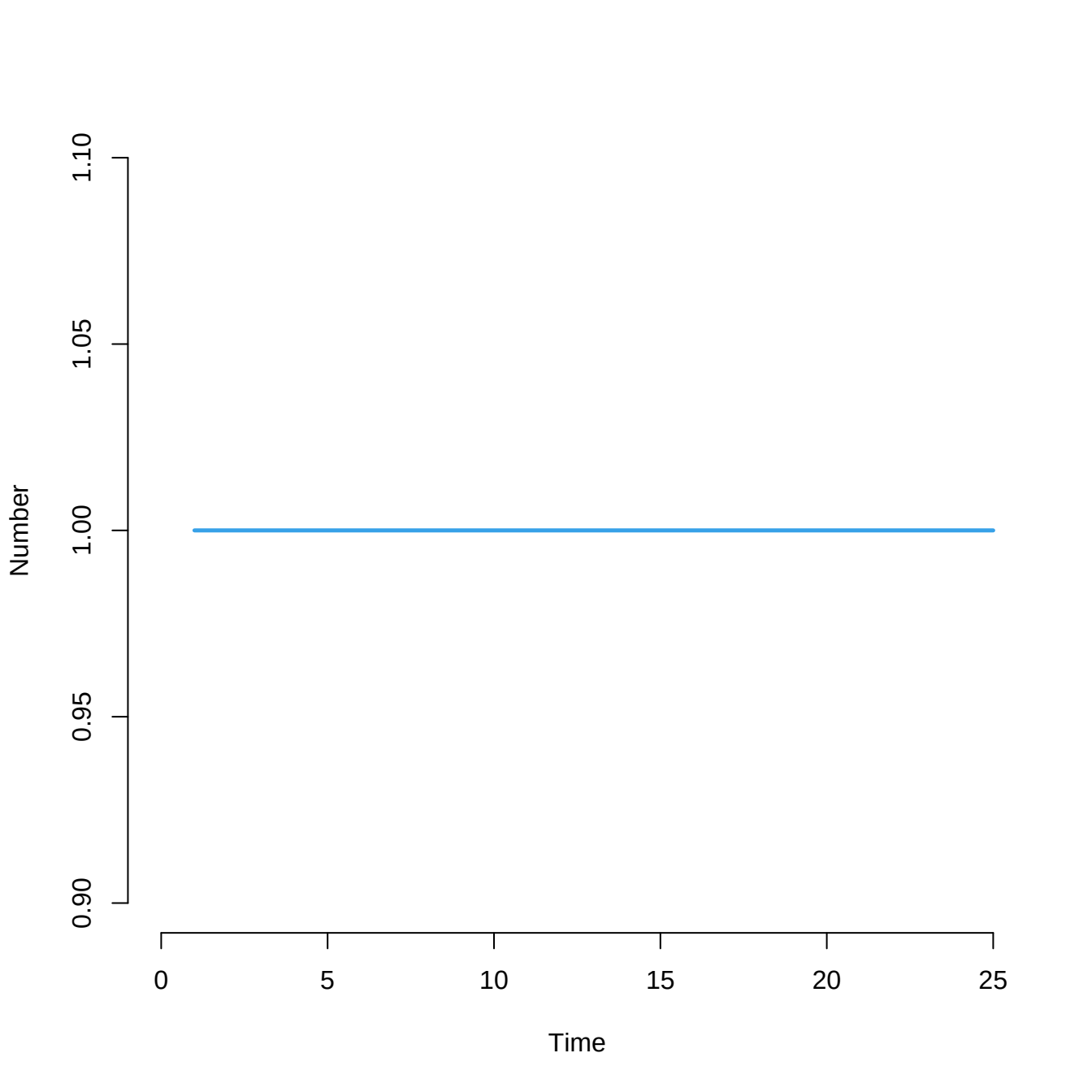

s.num
i.num
Number
0
100
200
300
400
500
0
20
40
60
80
100
Time

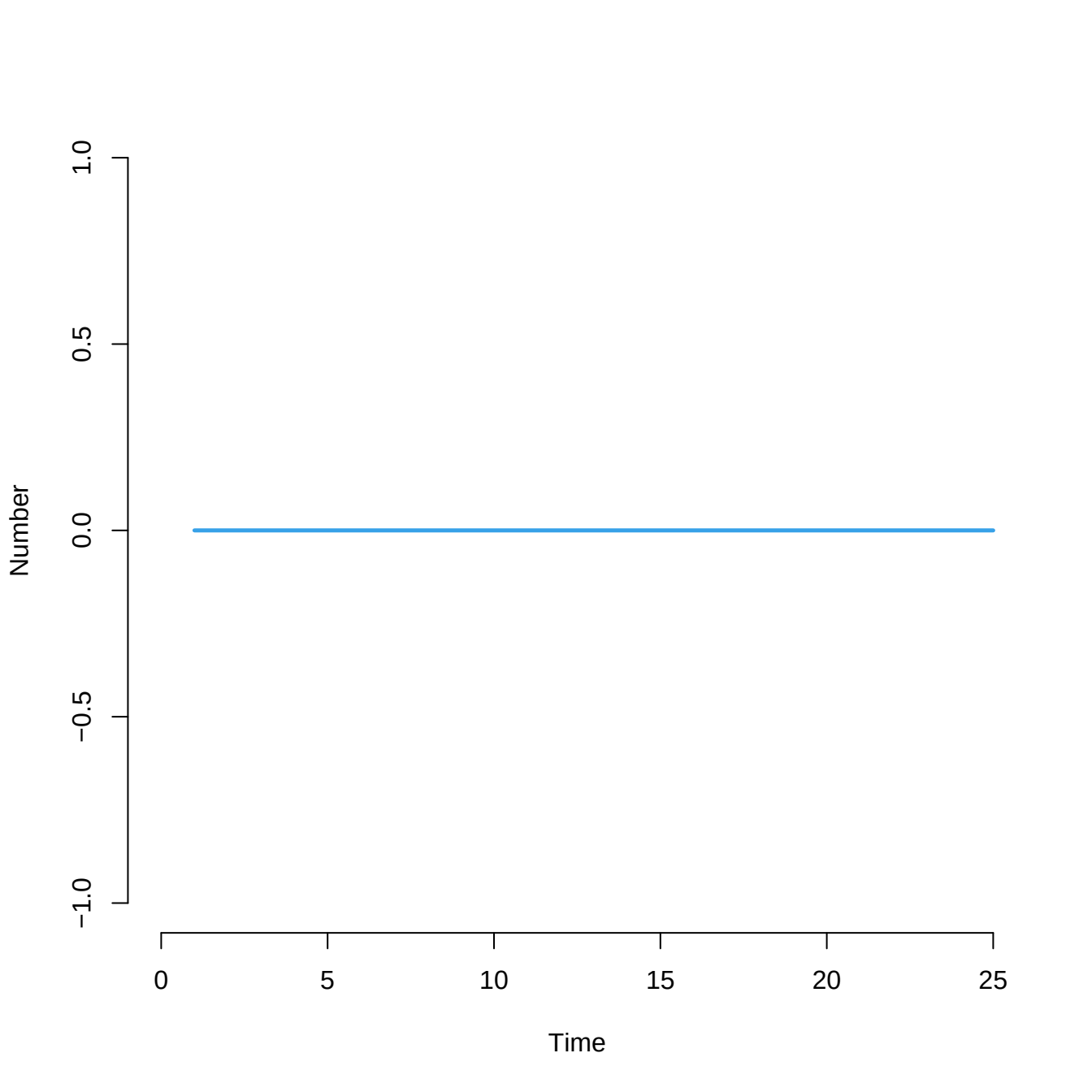
SI Model Diagram

Simulation means(sd) | time=100



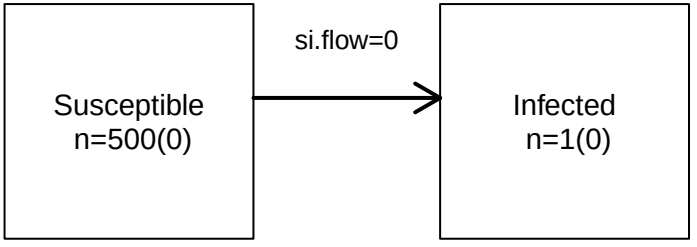

s.num
i.num
Number
0
100
200
300
400
500
0
5
10
15
20
25
Time

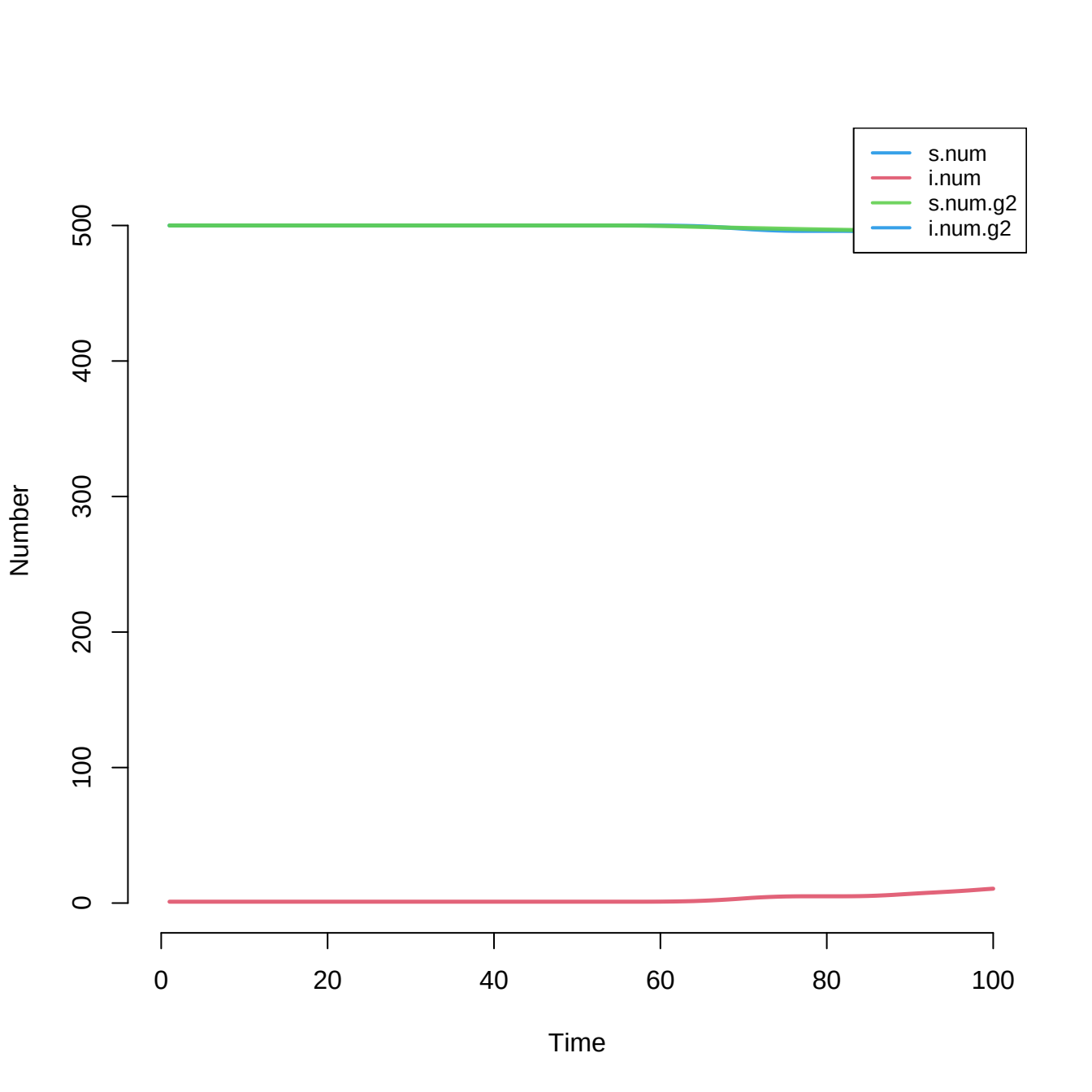

Number
1.10
1.05
1.00
0.95
0.90
0
5
10
15
20
25
Time

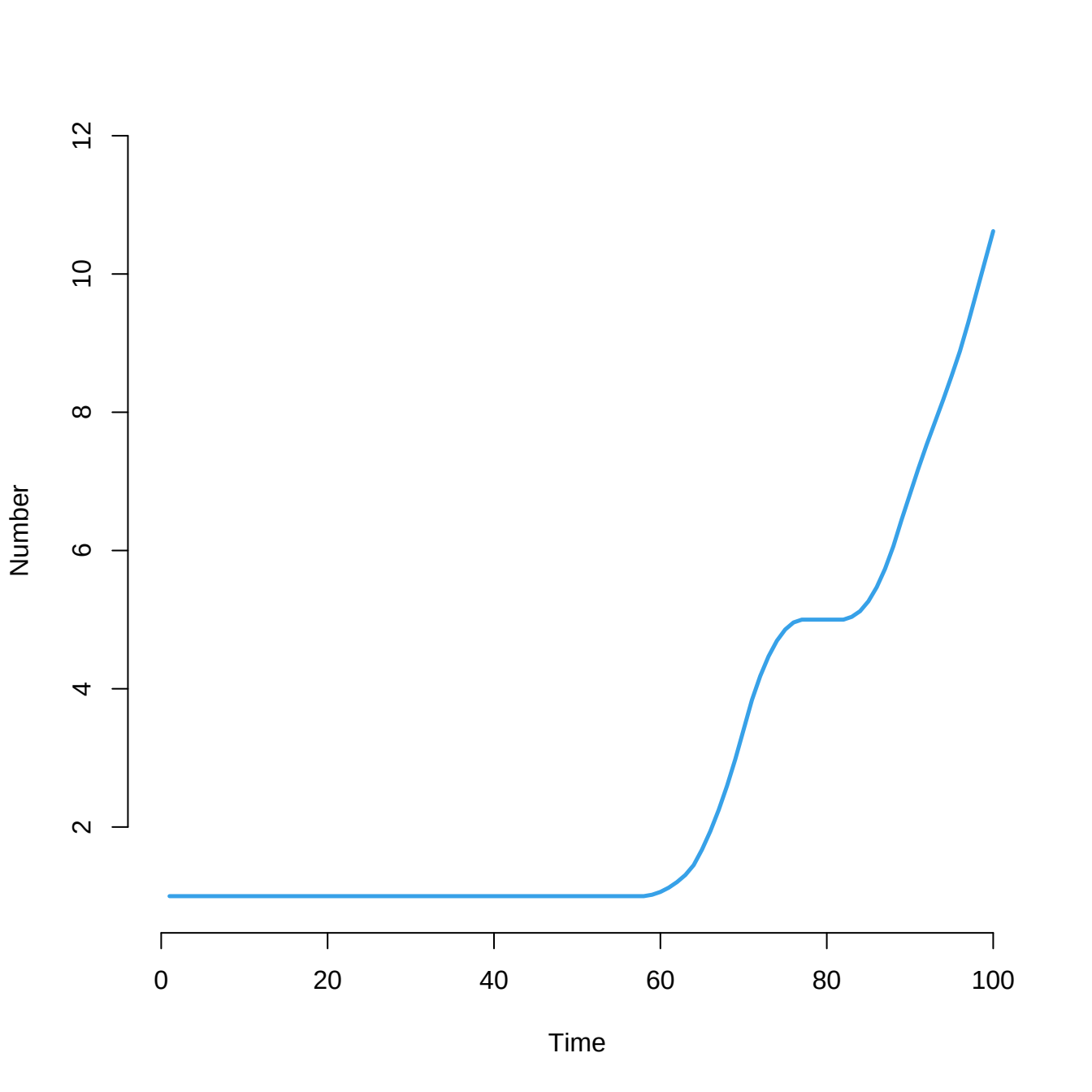

Number
1.0
0.5
0.0
−0.5
−1.0
0
5
10
15
20
25
Time

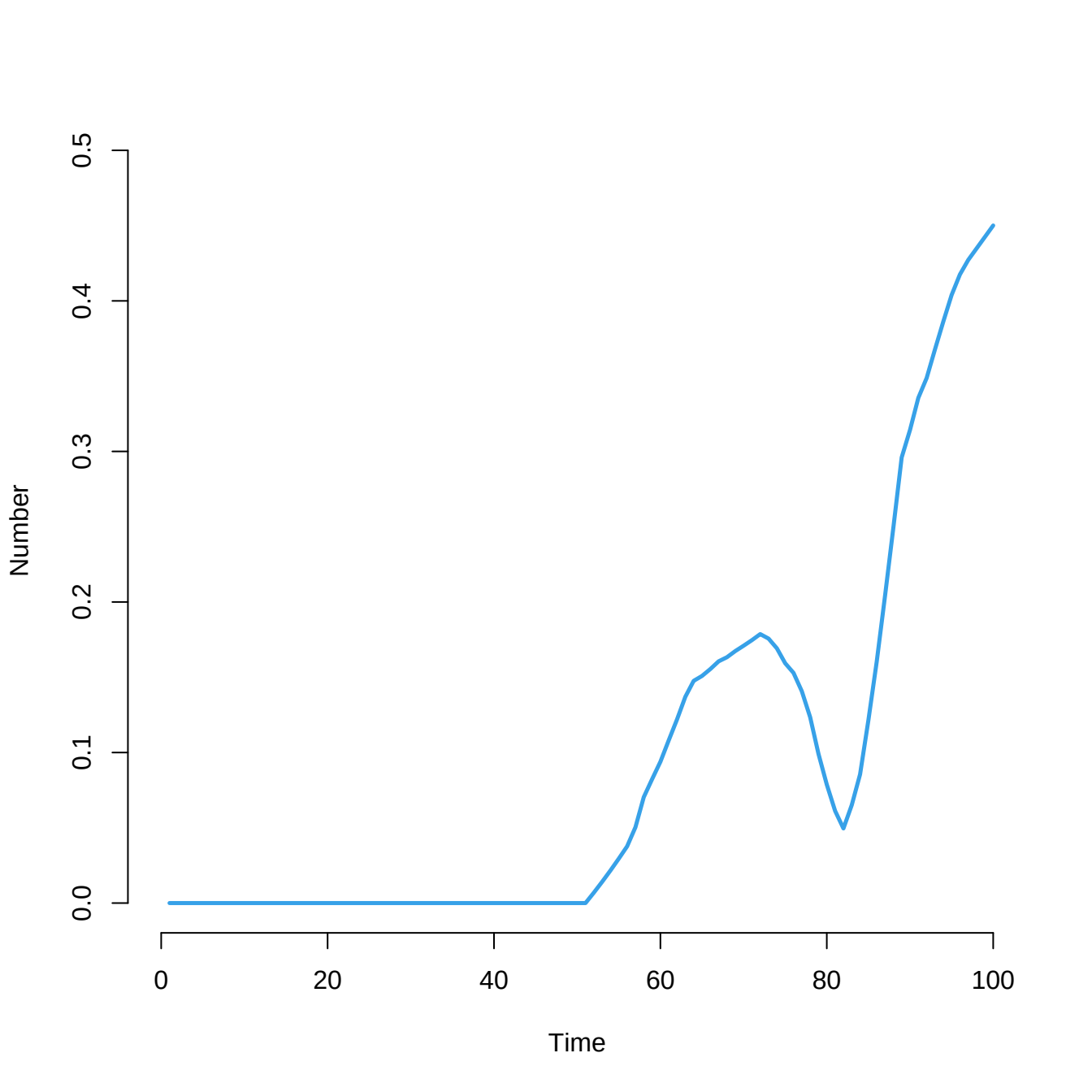
SI Model Diagram

Simulation means(sd) | time=25




s.num
i.num
s.num.g2
i.num.g2
Number
0
100
200
300
400
500
0
20
40
60
80
100
Time


Number
2
4
6
8
10
12
0
20
40
60
80
100
Time


Number
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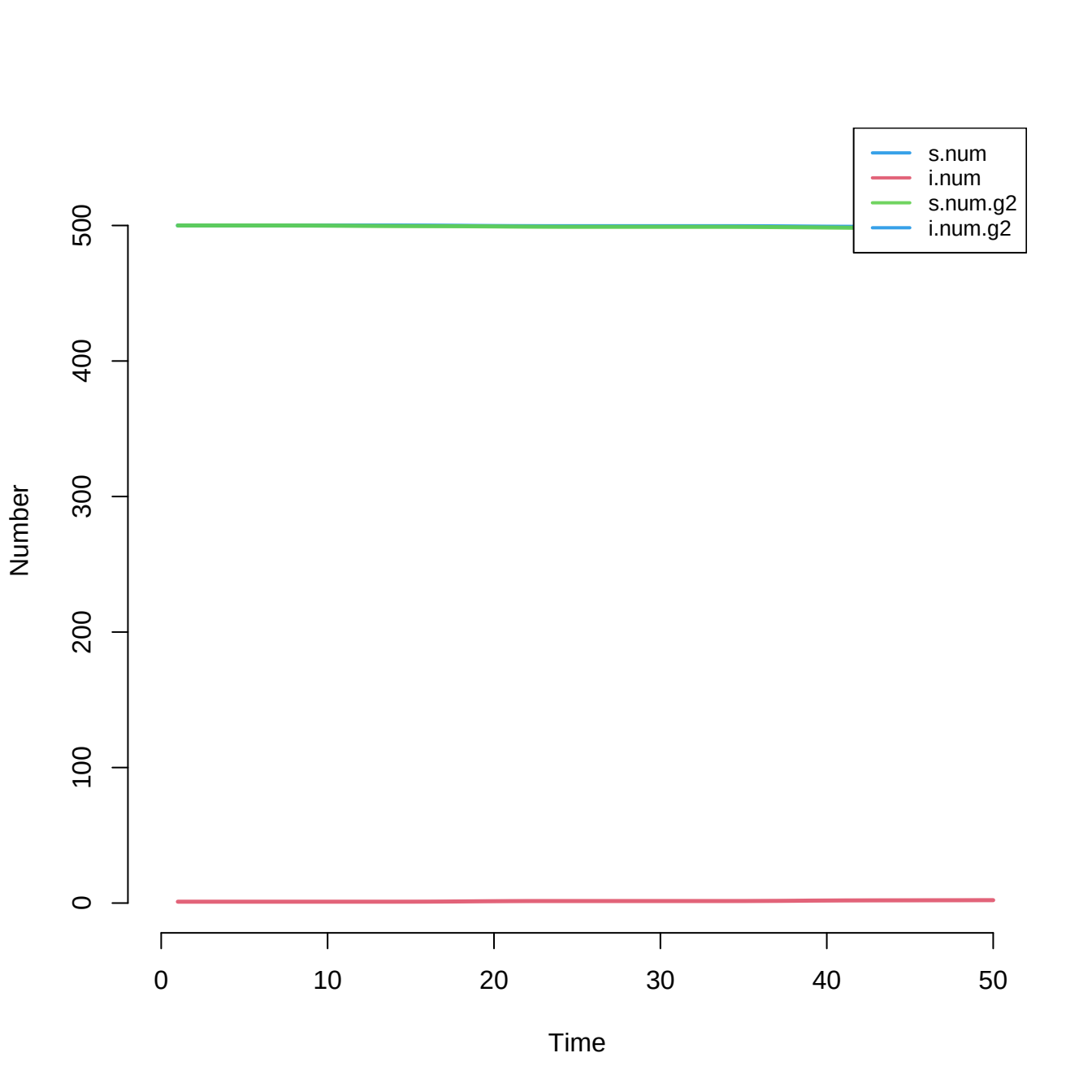
0.2
0.3
0.4
0.5
0
20
40
60
80
100
Time


s.num
i.num
s.num.g2
i.num.g2
Number
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100
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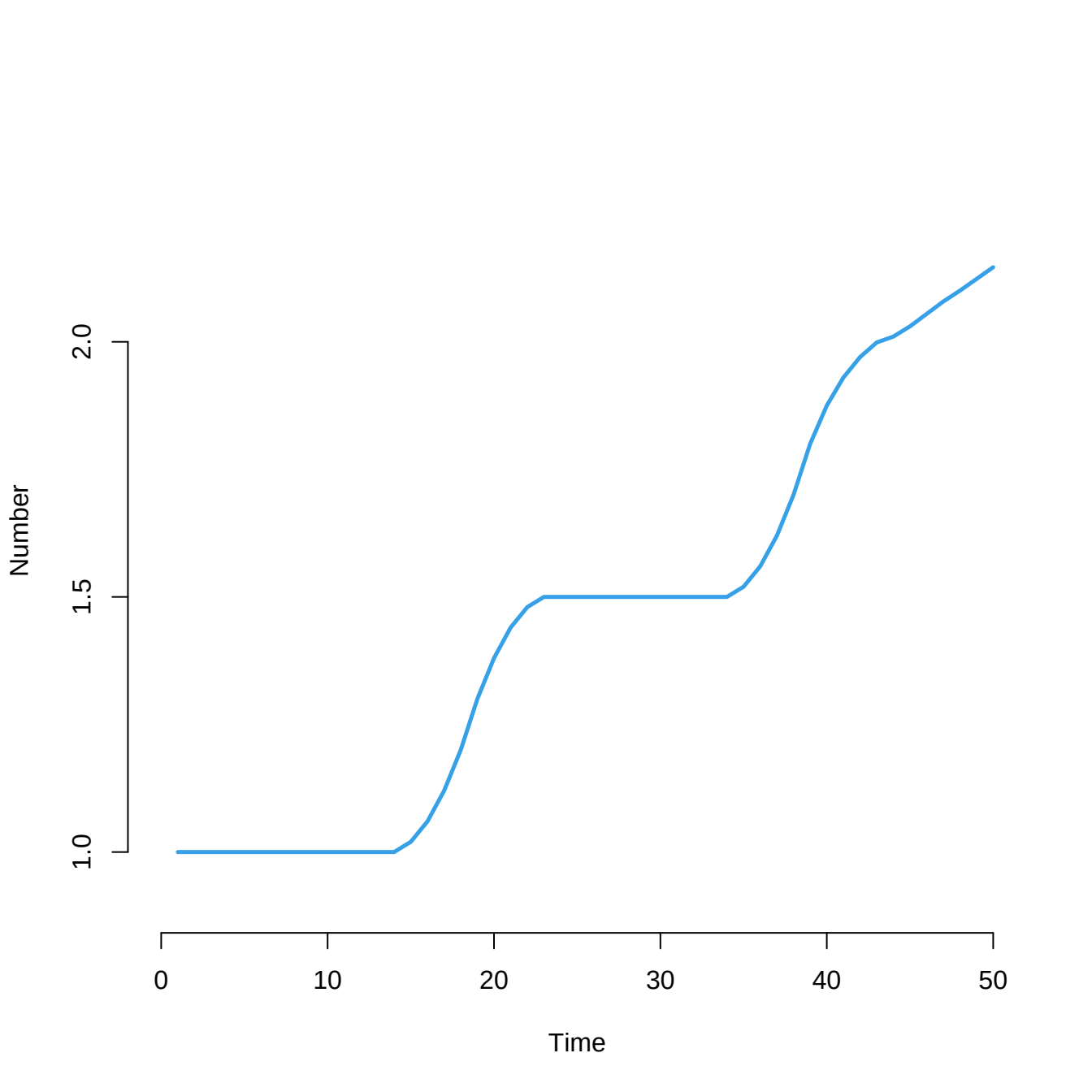
20
30
40
50
Time


Number
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30
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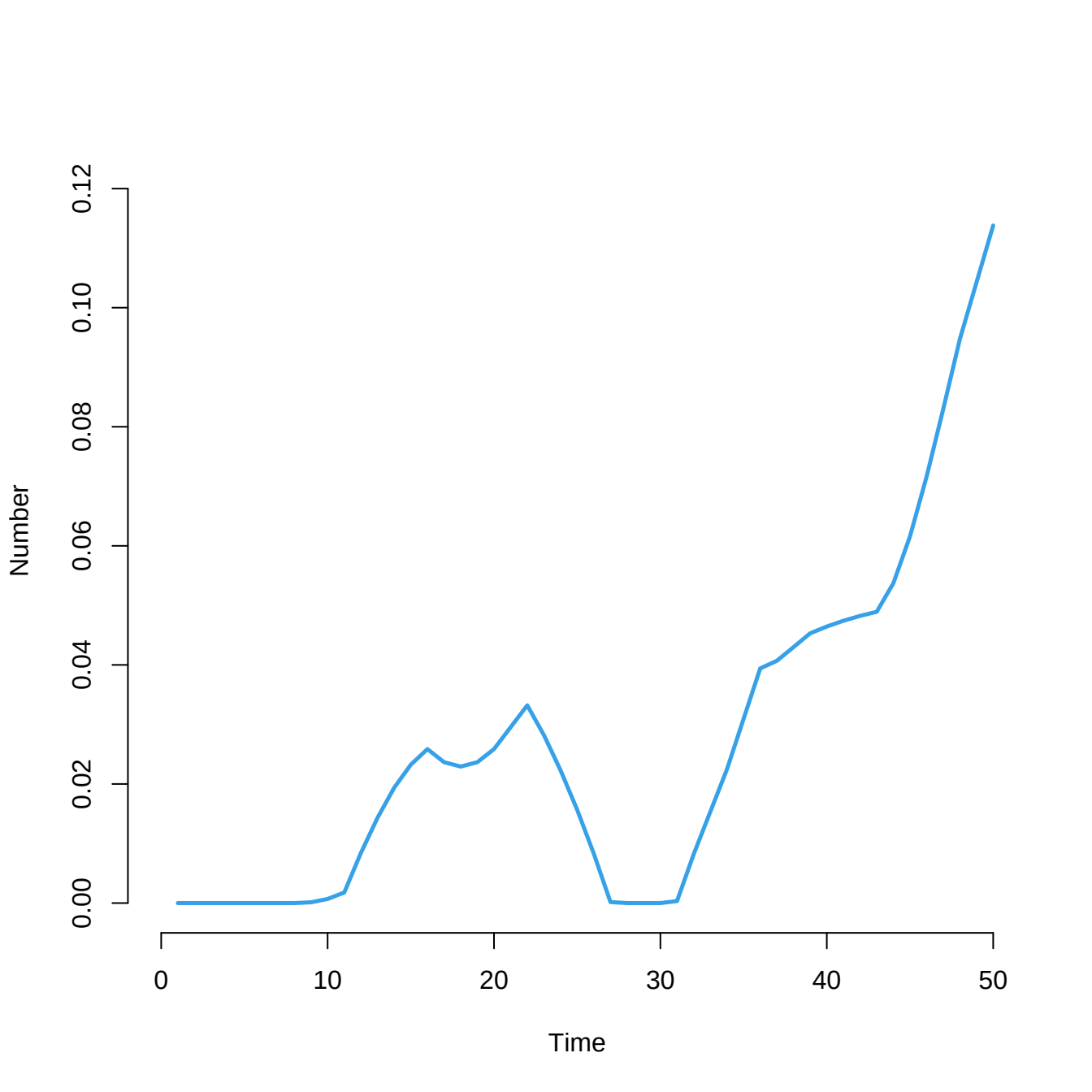
50
Time


Number
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0.10
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30
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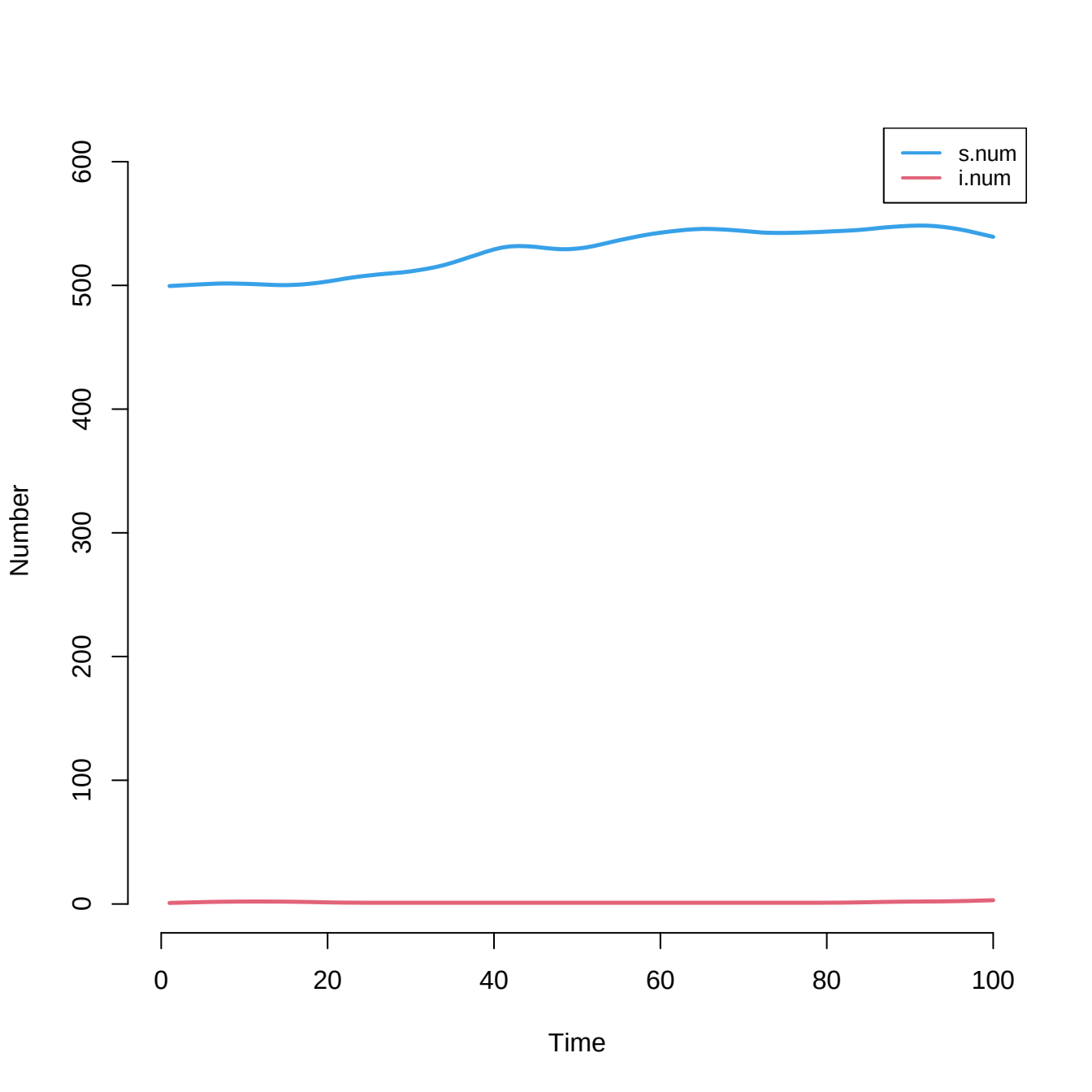
50
Time


s.num
i.num
Number
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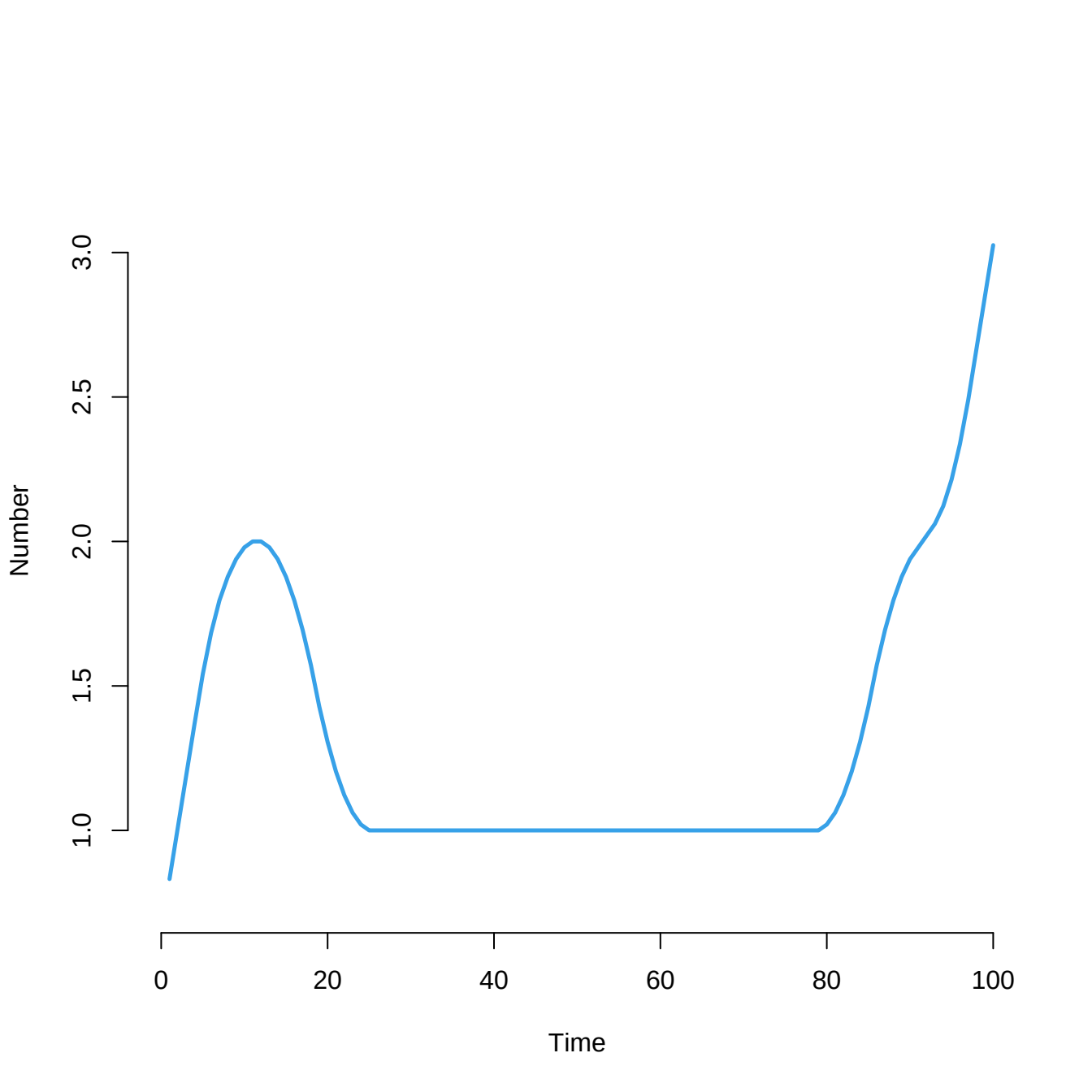
40
60
80
100
Time


Number
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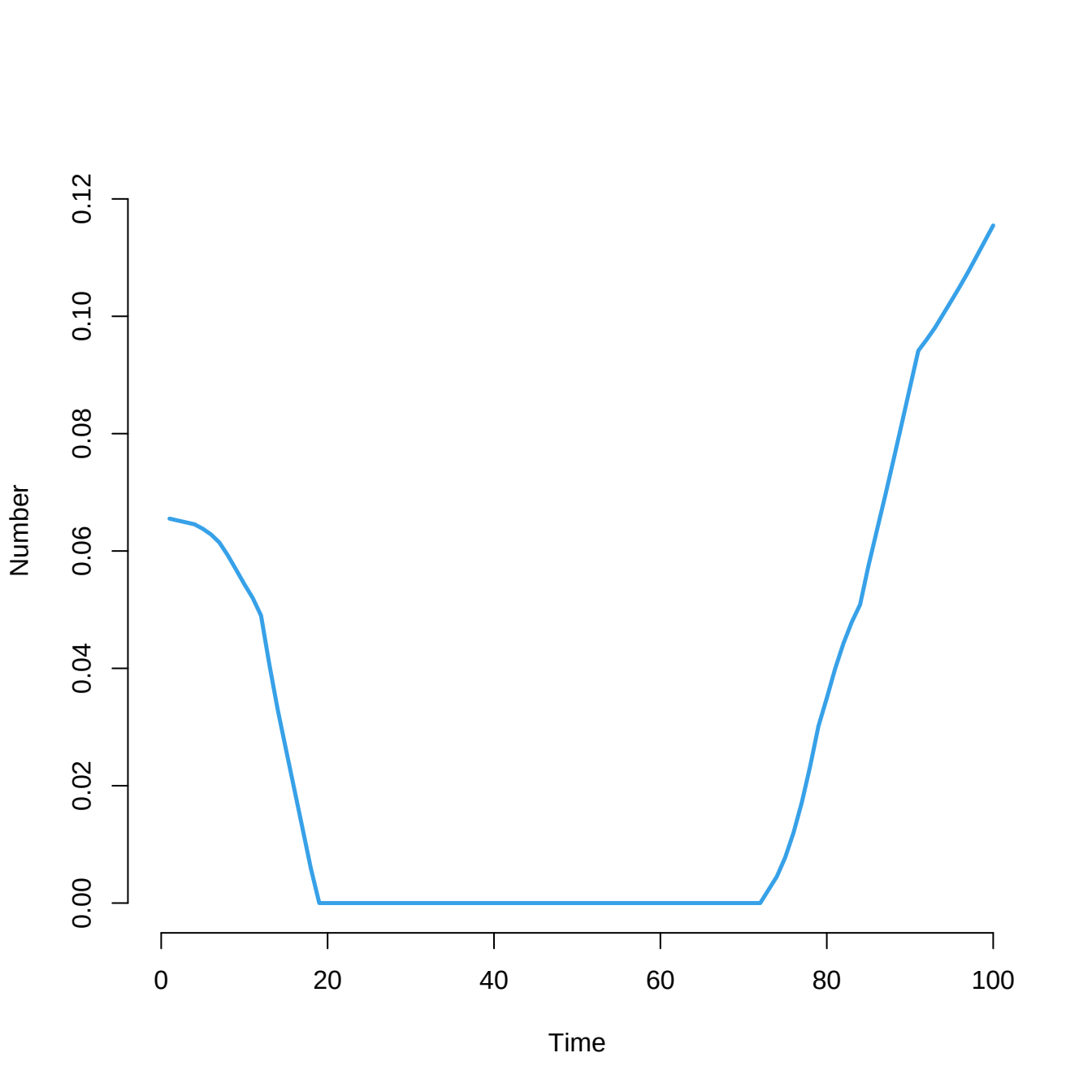
2.0
2.5
3.0
0
20
40
60
80
100
Time


Number
0.00
0.02
0.04
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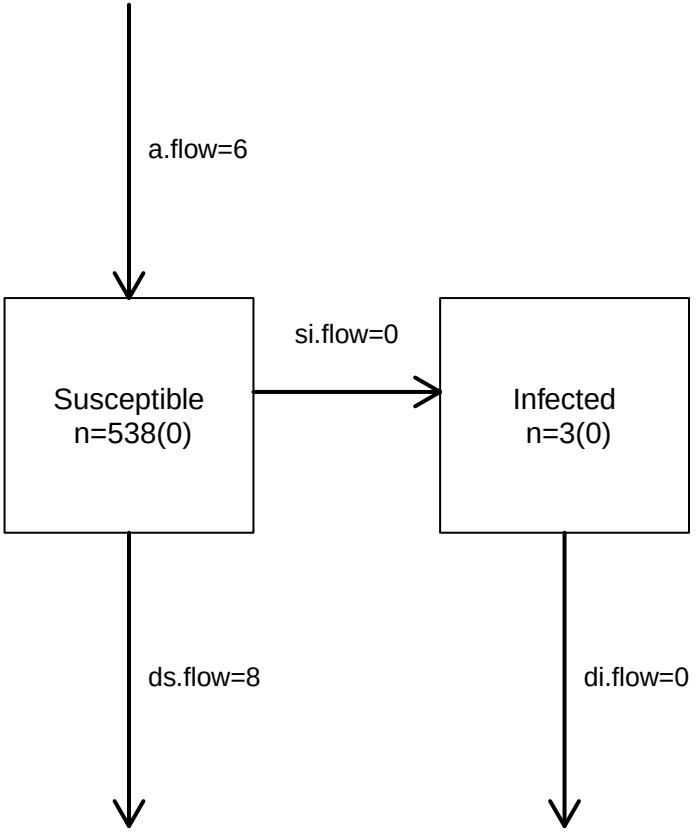
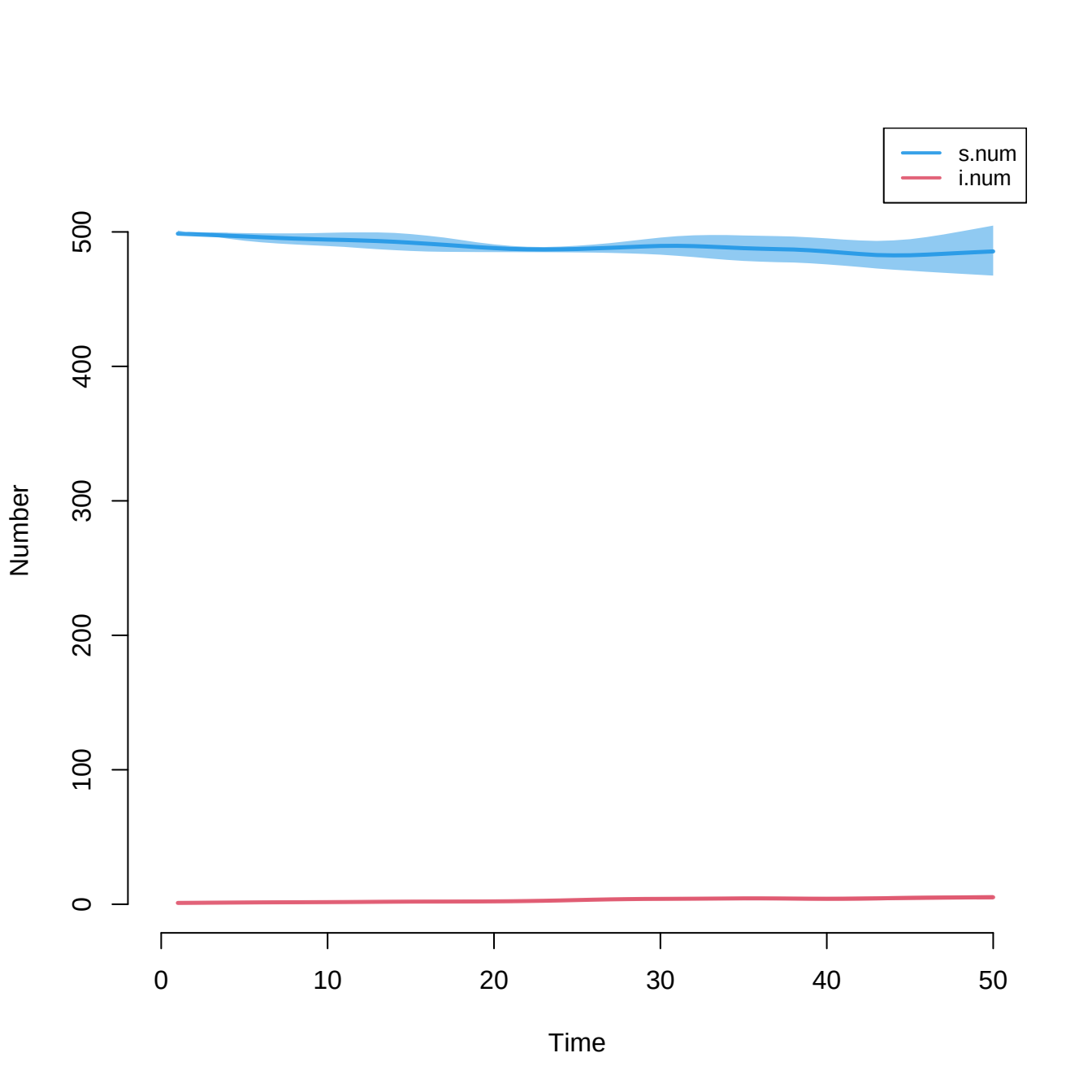
20
40
60
80
100
Time

SI Model Diagram

Simulation means(sd) | time=100




s.num
i.num
Number
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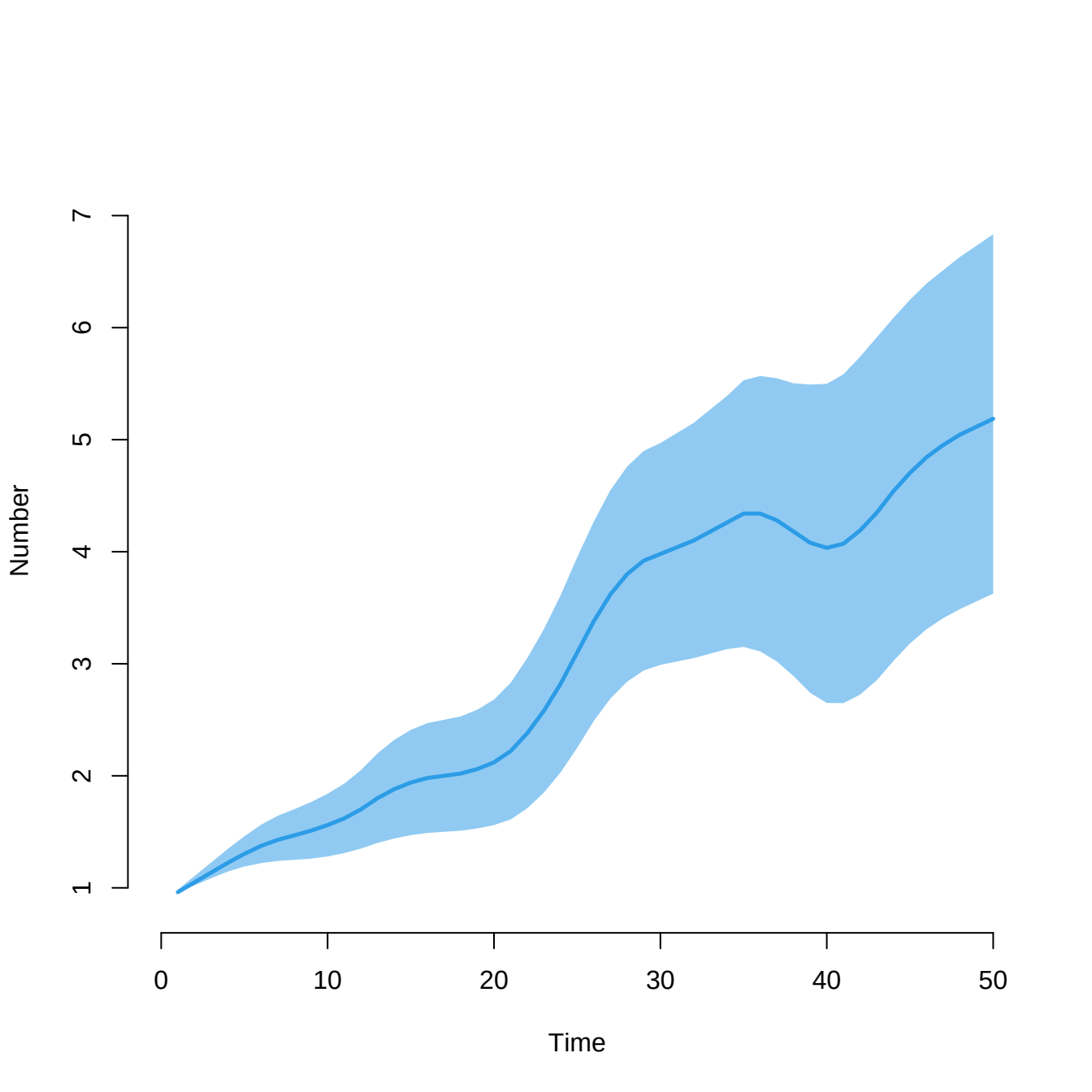
300
400
500
0
10
20
30
40
50
Time


Number
1
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3
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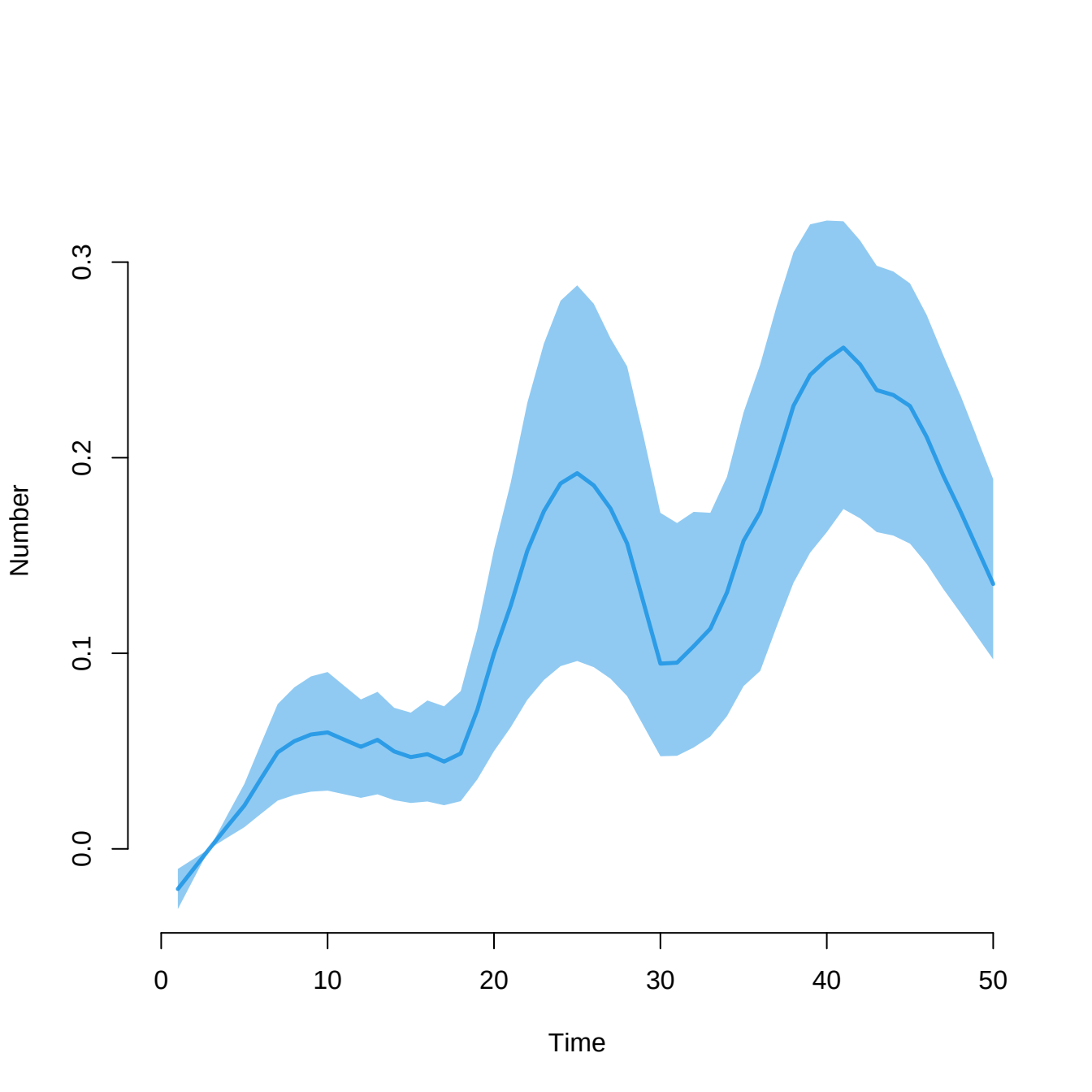
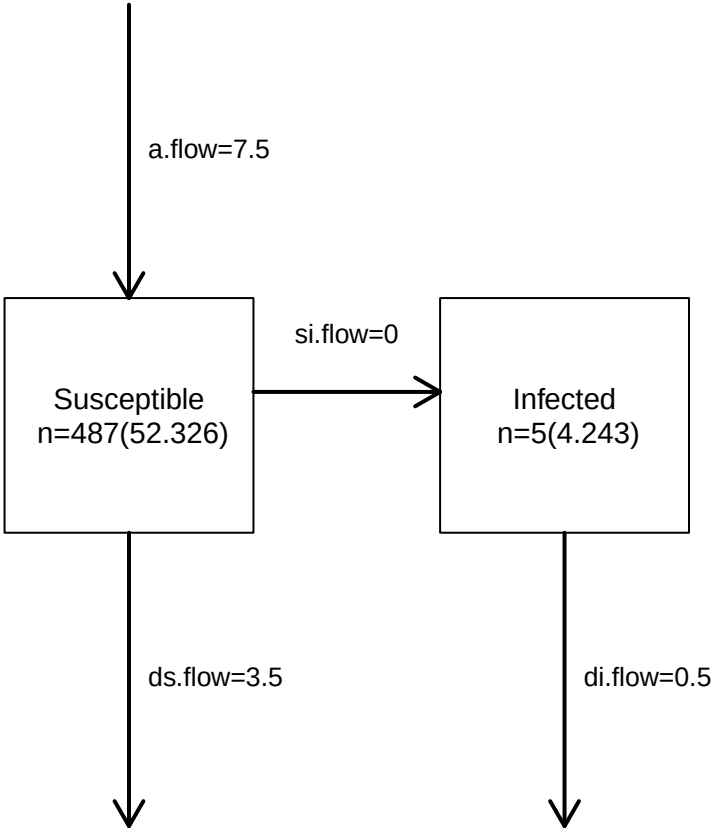
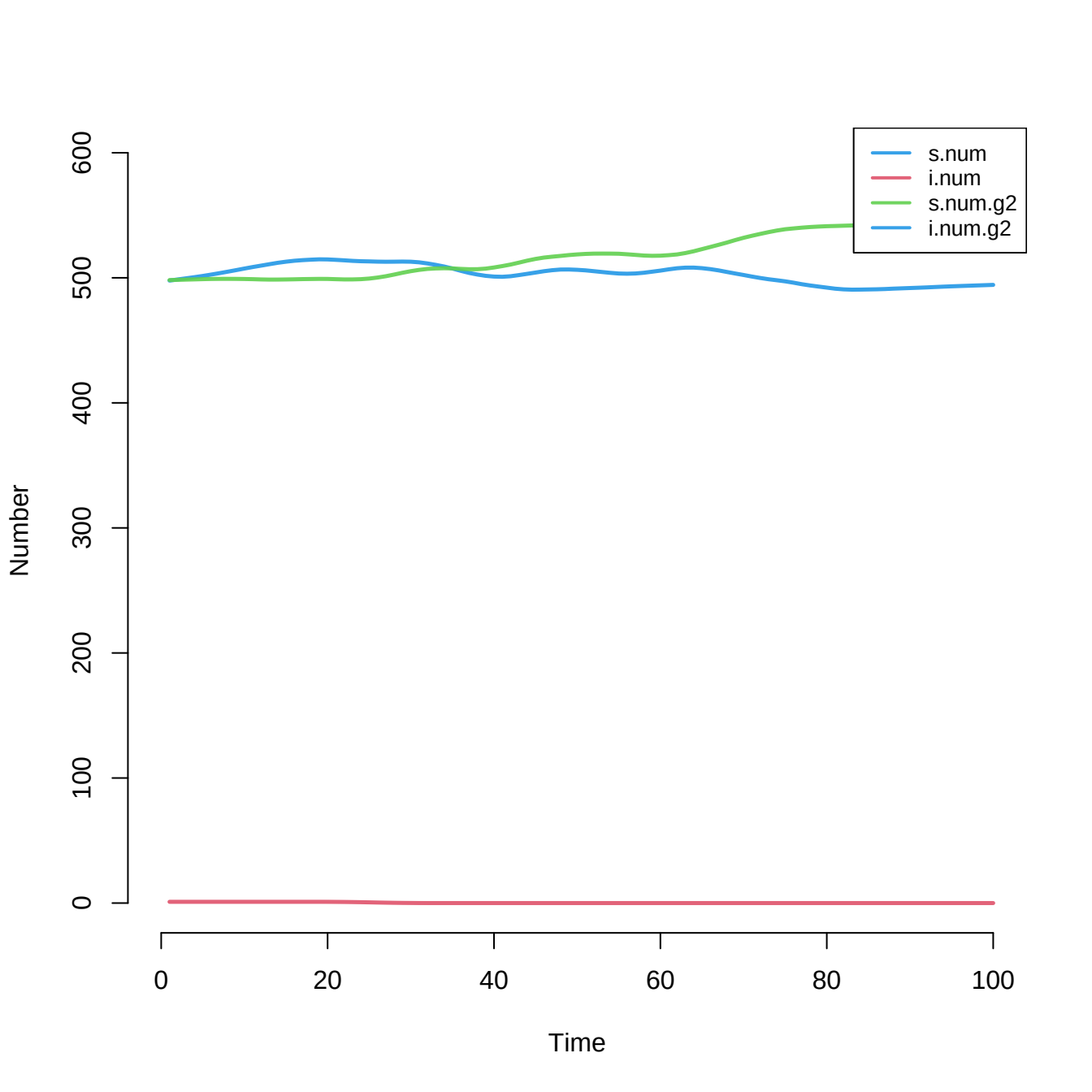
5
6
7
0
10
20
30
40
50
Time


Number
0.0
0.1
0.2
0.3
0
10
20
30
40
50
Time

SI Model Diagram

Simulation means(sd) | time=50




s.num
i.num
s.num.g2
i.num.g2
Number
0
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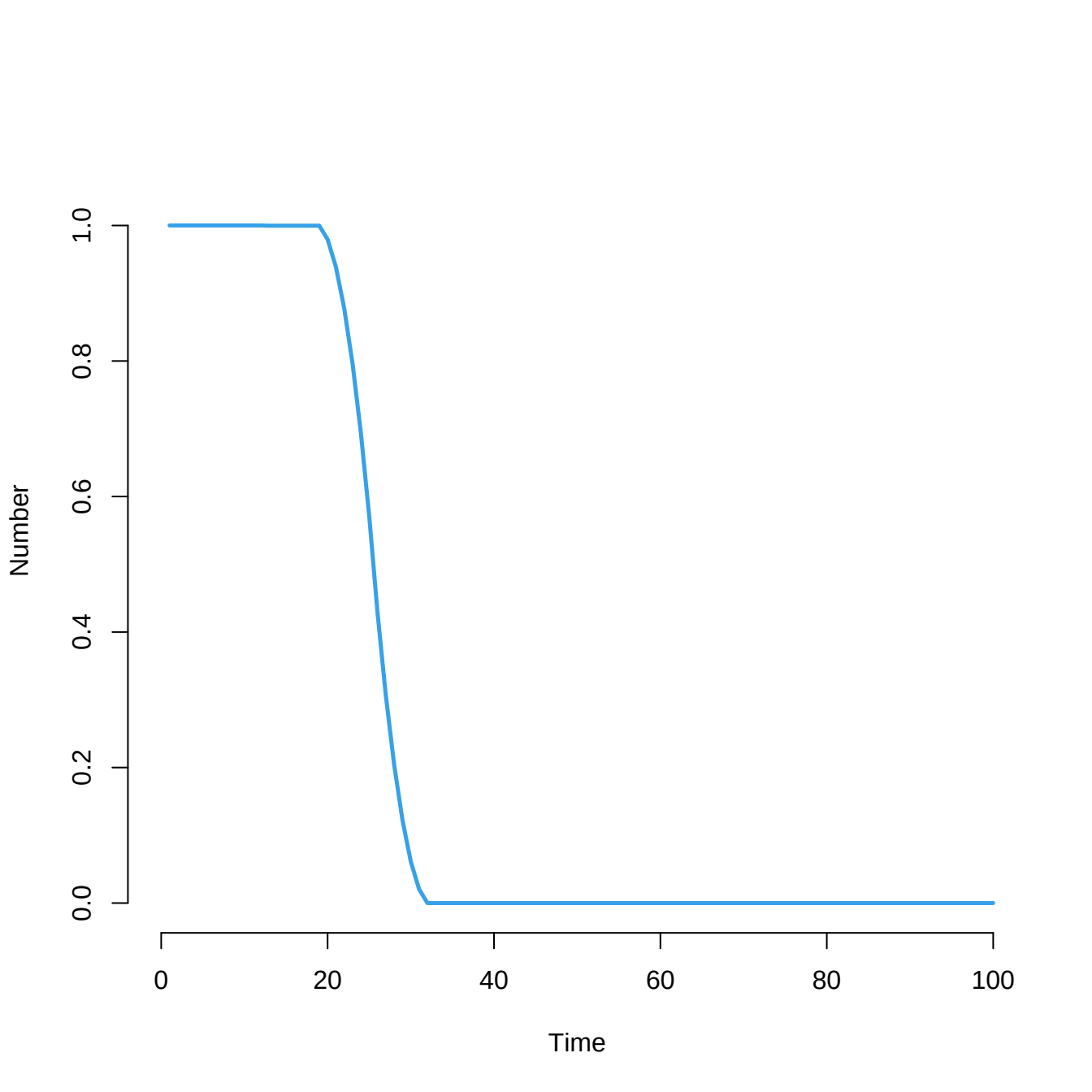
200
300
400
500
600
0
20
40
60
80
100
Time


Number
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0.6
0.8
1.0
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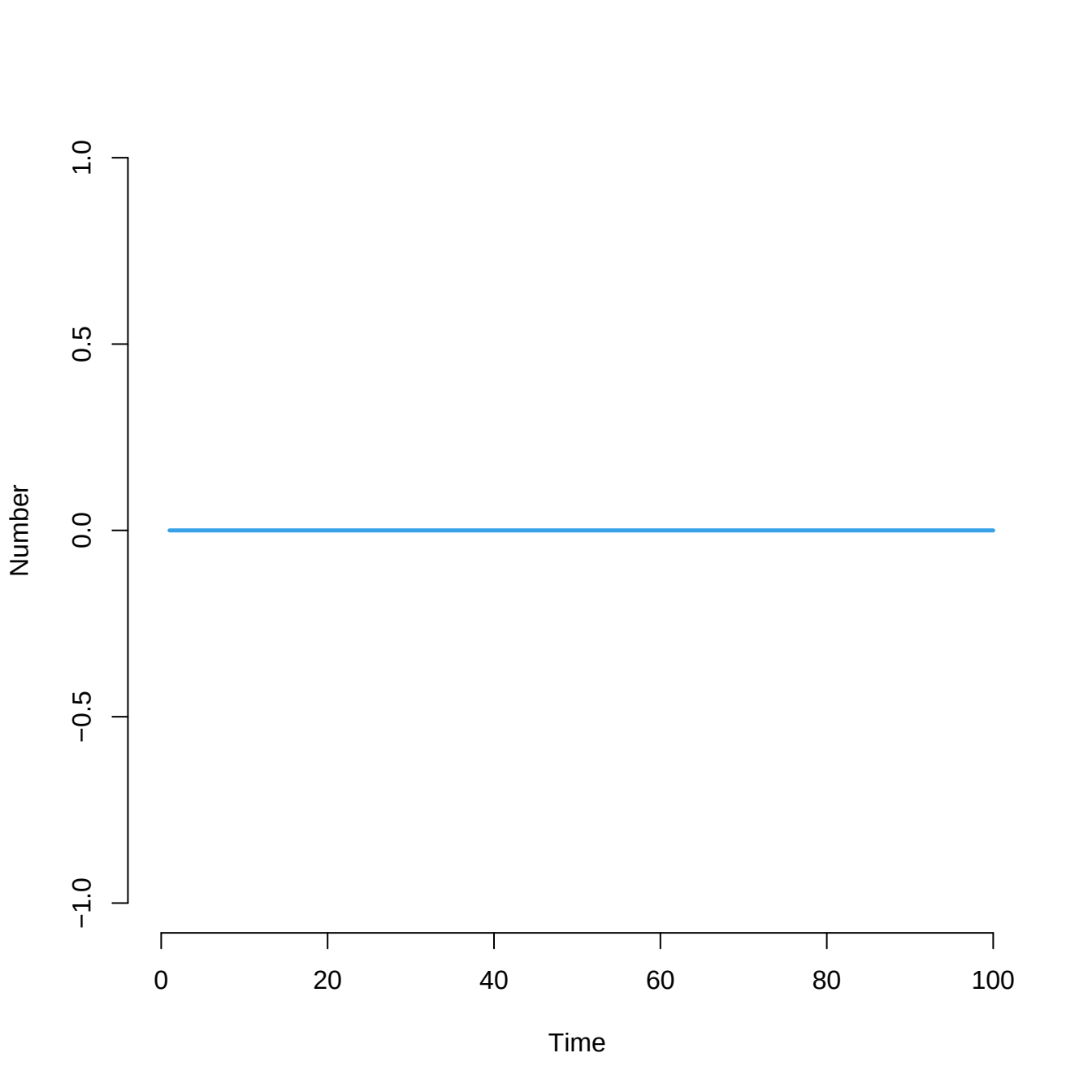
20
40
60
80
100
Time


Number
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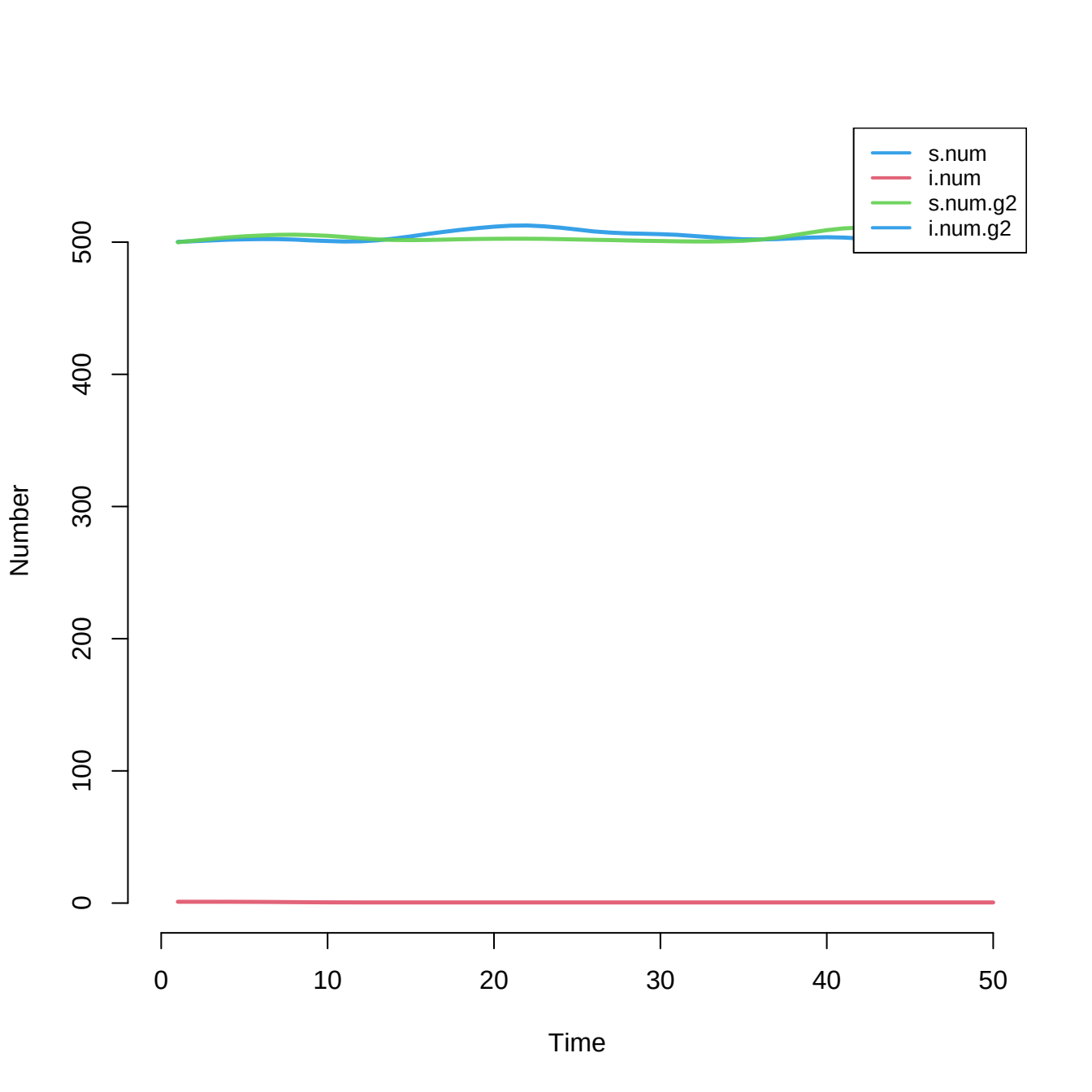
40
60
80
100
Time


s.num
i.num
s.num.g2
i.num.g2
Number
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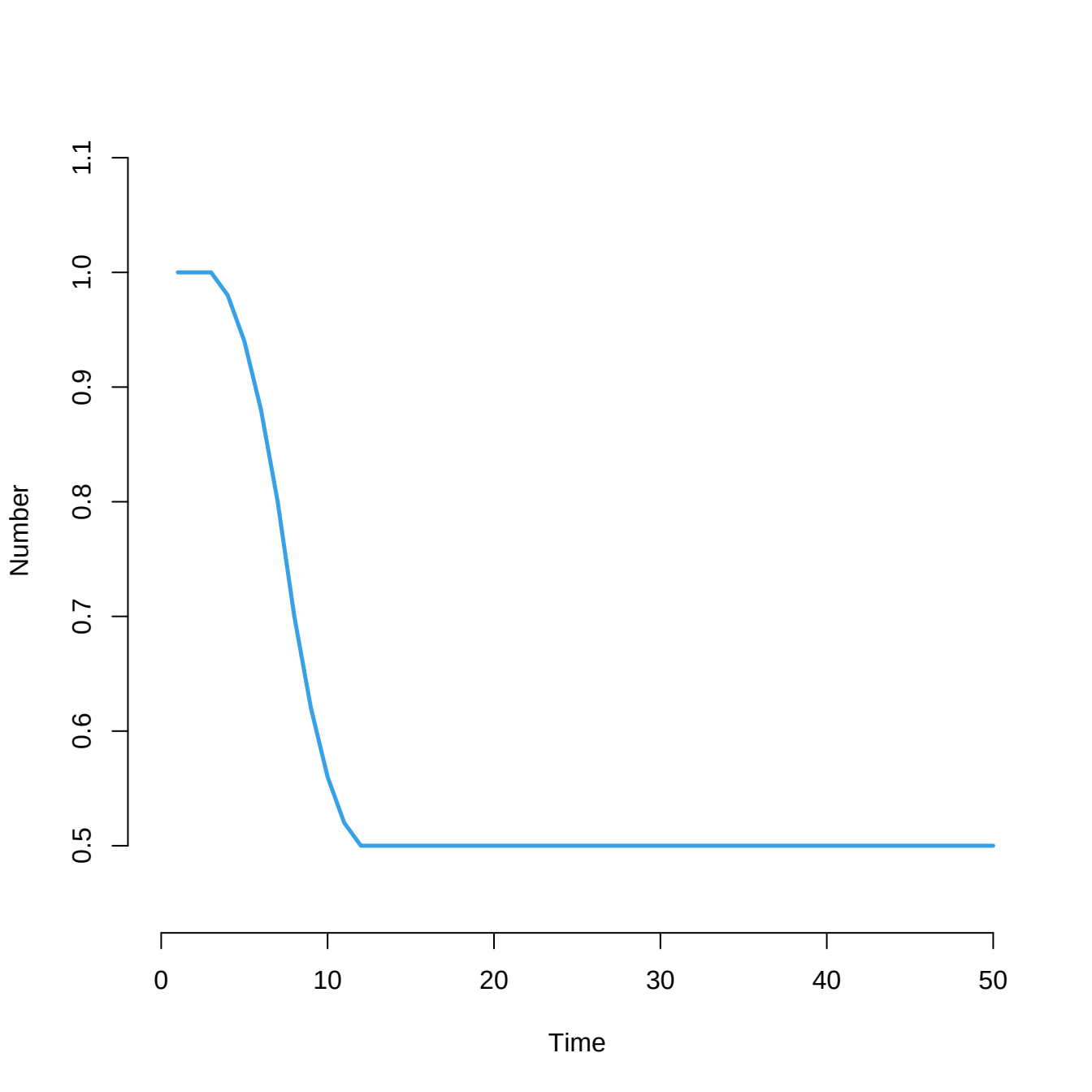
100
200
300
400
500
0
10
20
30
40
50
Time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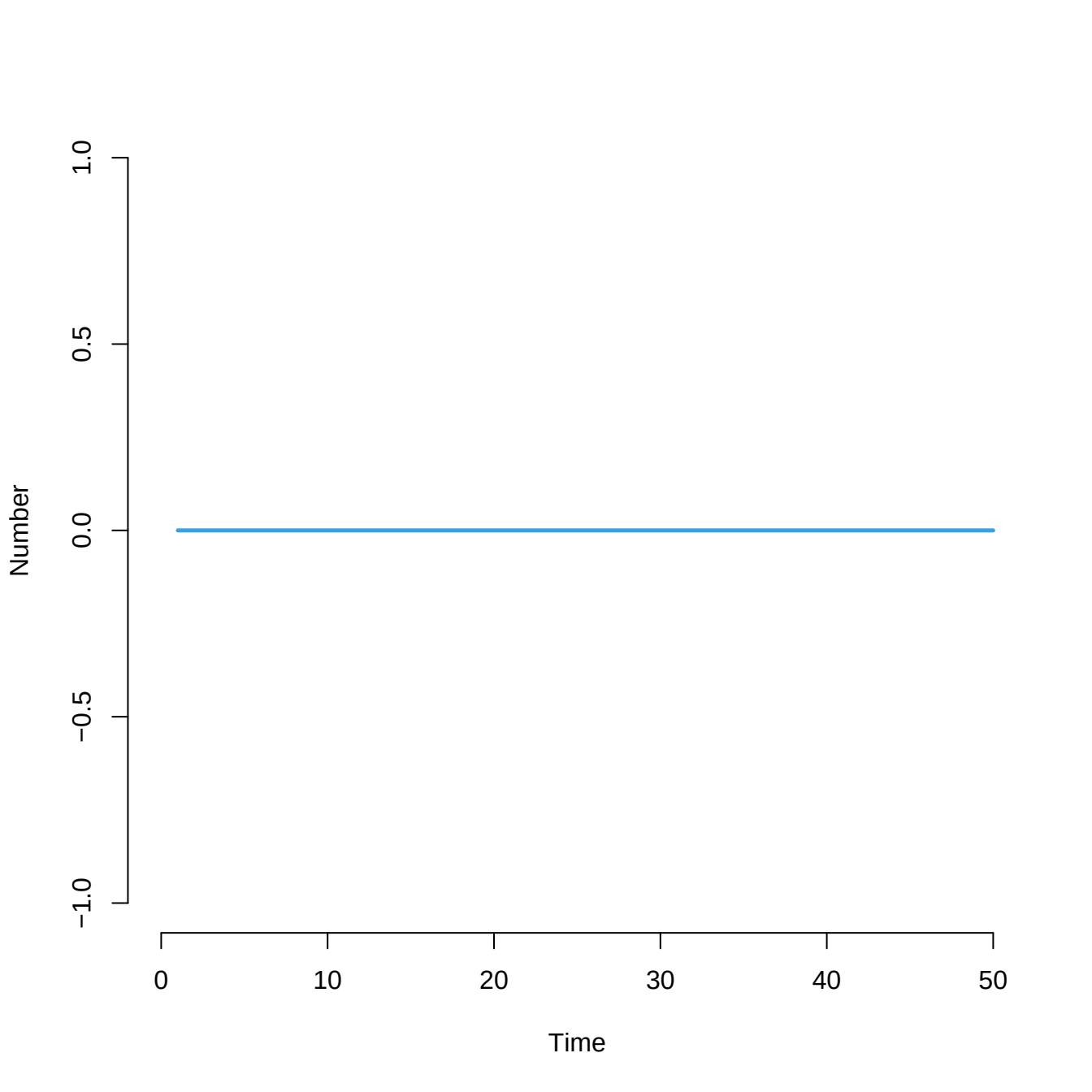
30
40
50
Time


Number
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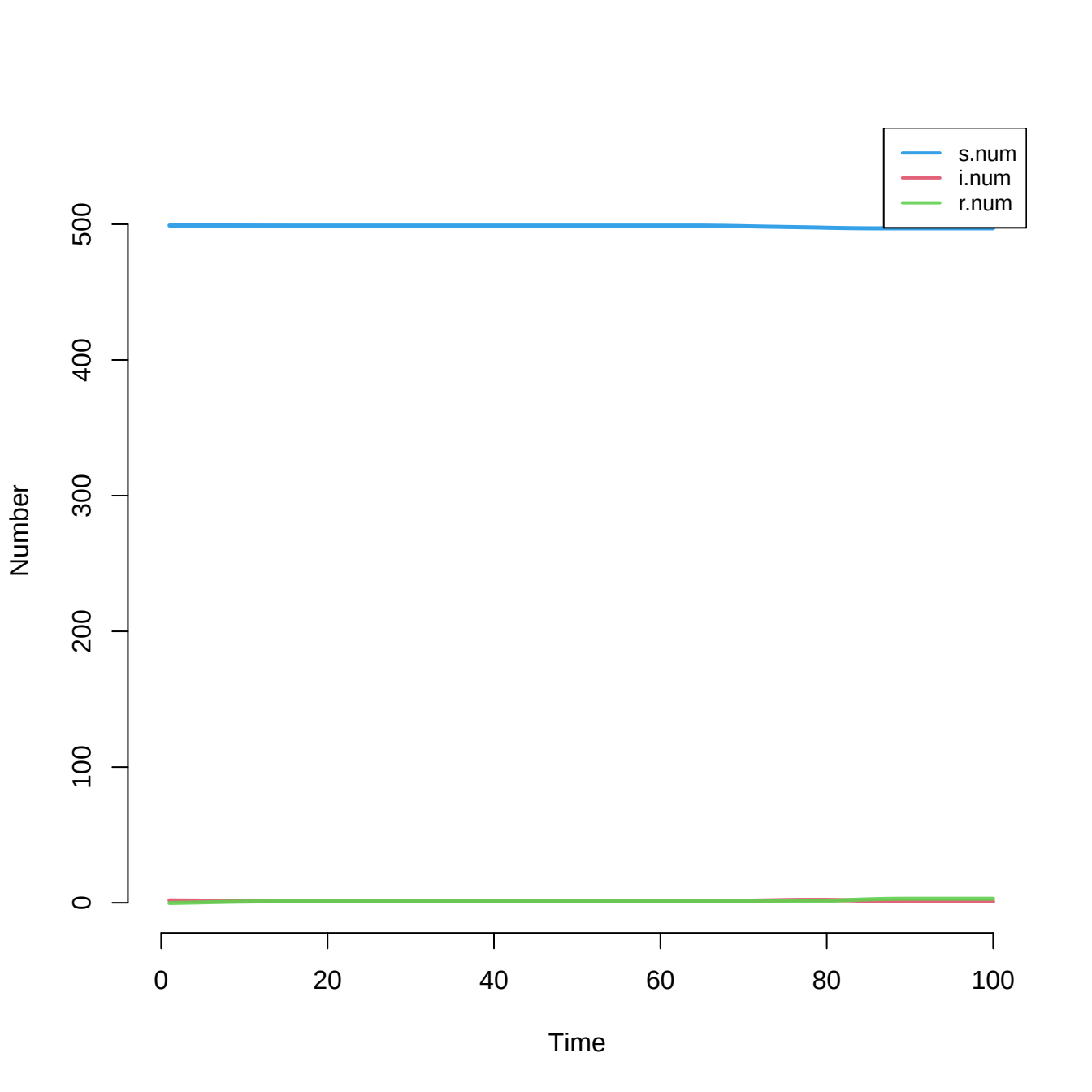
−1.0
0
10
20
30
40
50
Time


s.num
i.num
r.num
Number
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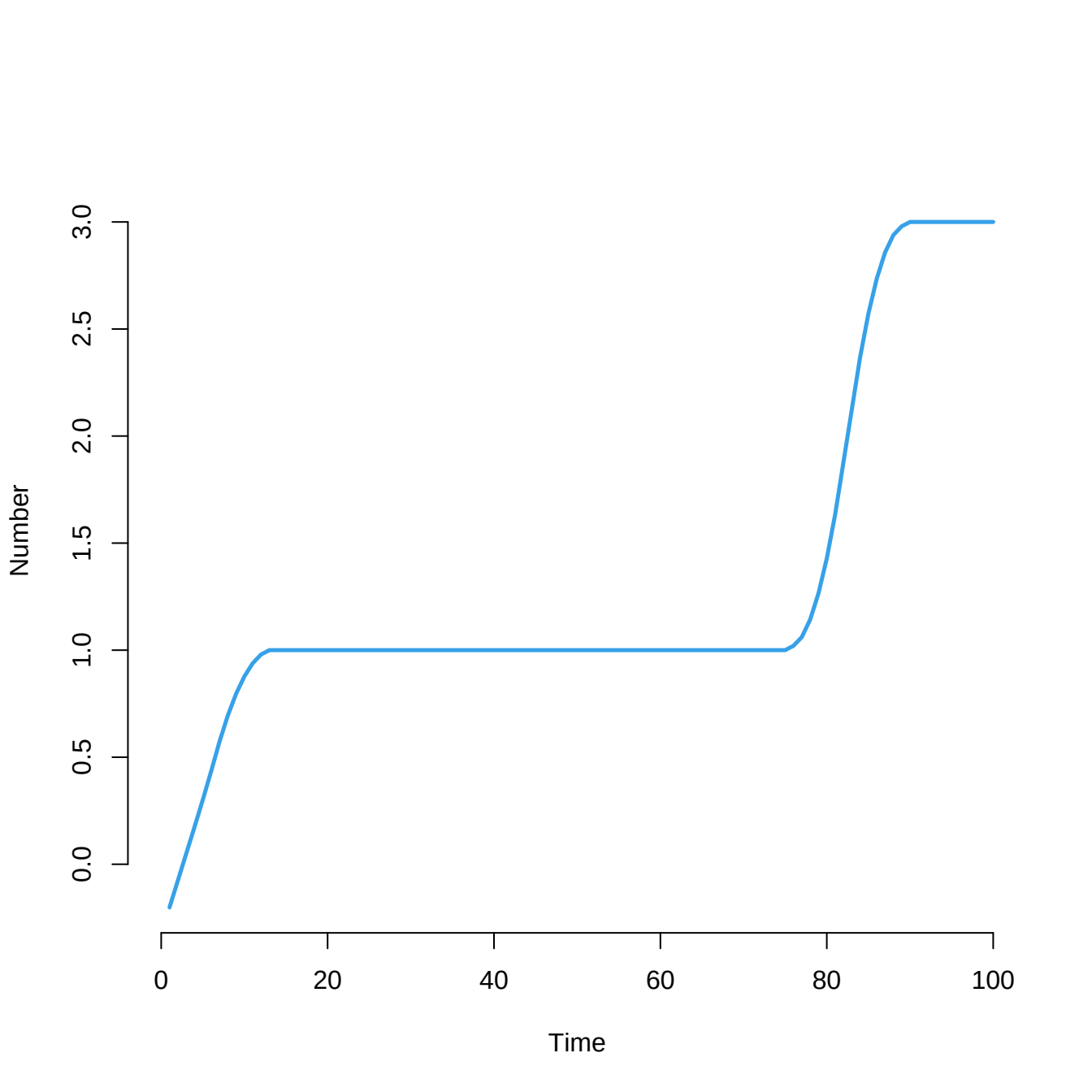
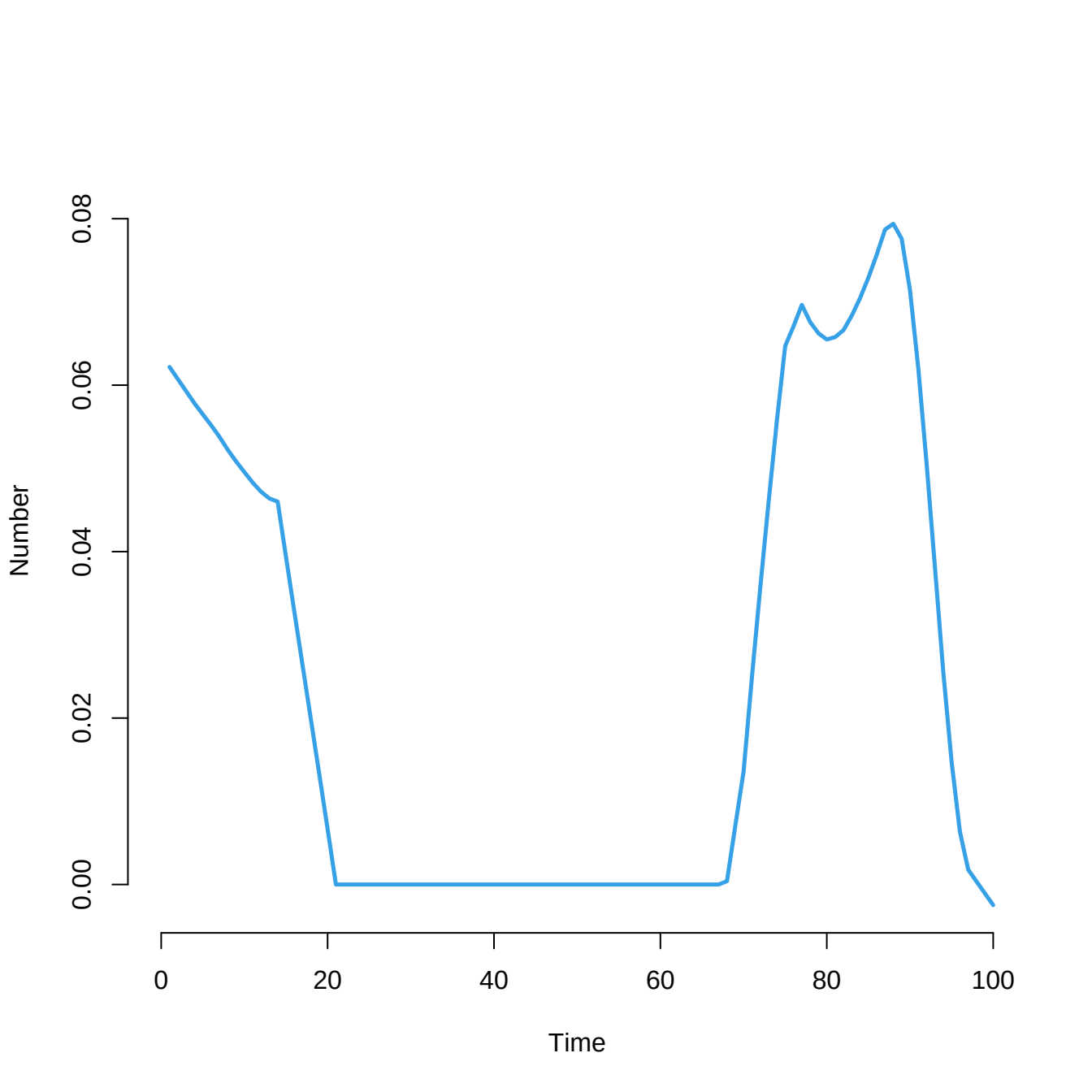
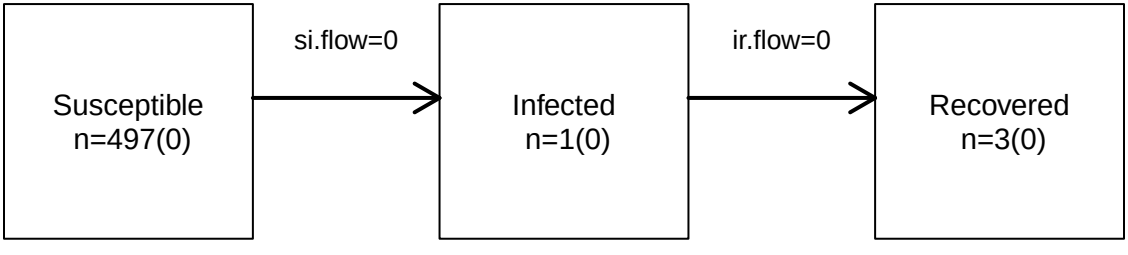
100
200
300
400
500
0
20
40
60
80
100
Time

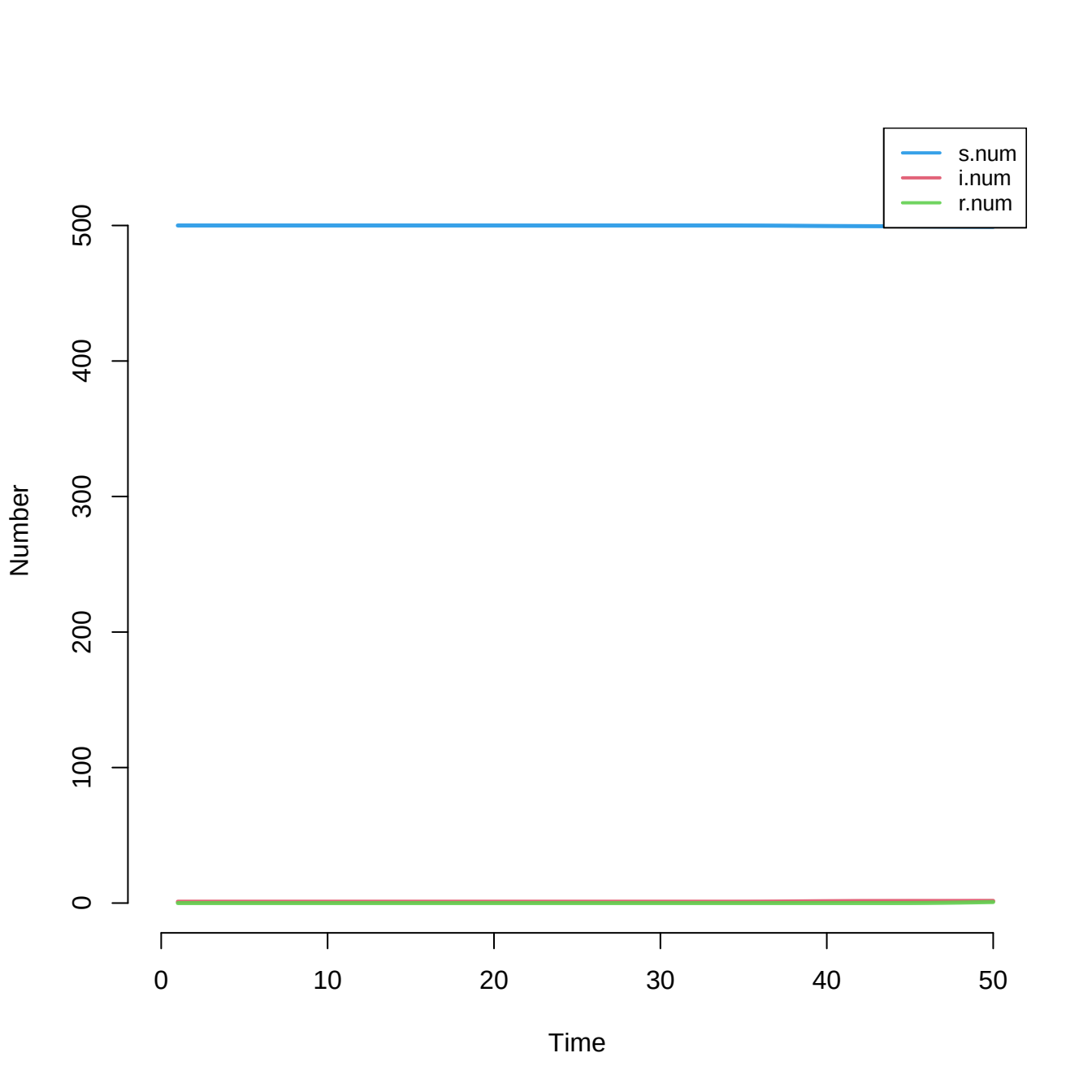

Number
0.0
0.5
1.0
1.5
2.0
2.5
3.0
0
20
40
60
80
100
Time

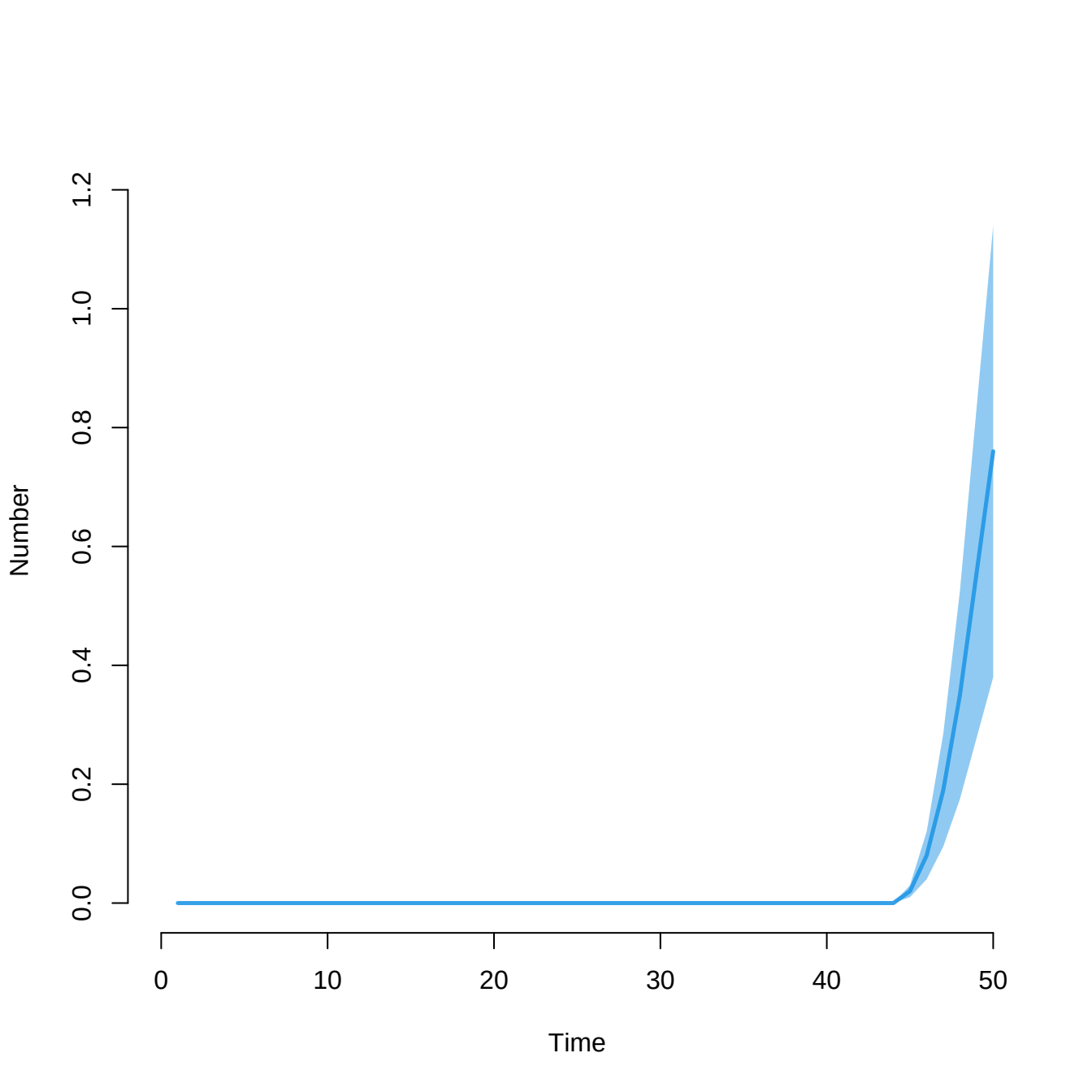

Number
0.00
0.02
0.04
0.06
0.08
0
20
40
60
80
100
Time

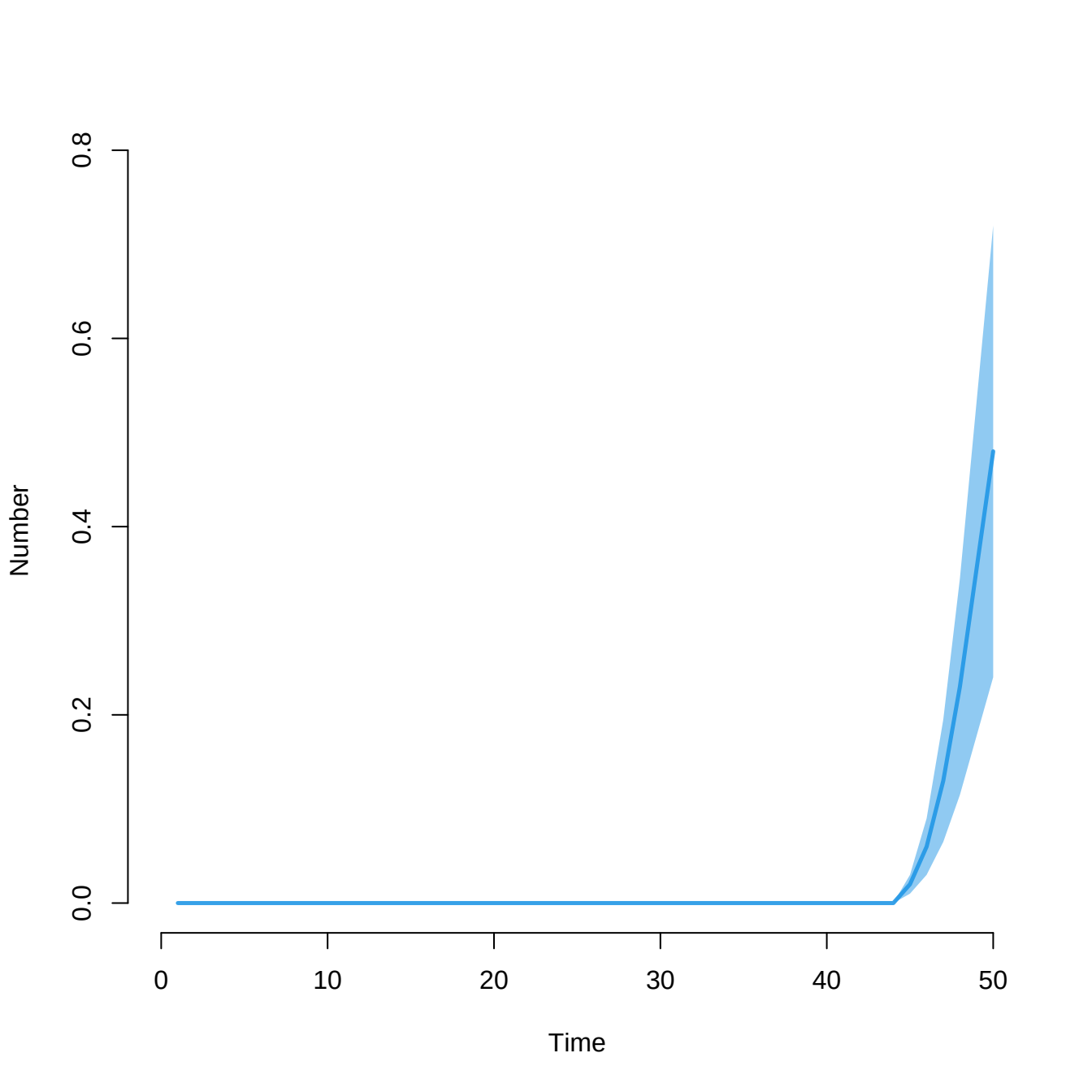
SIR Model Diagram

Simulation means(sd) | time=100



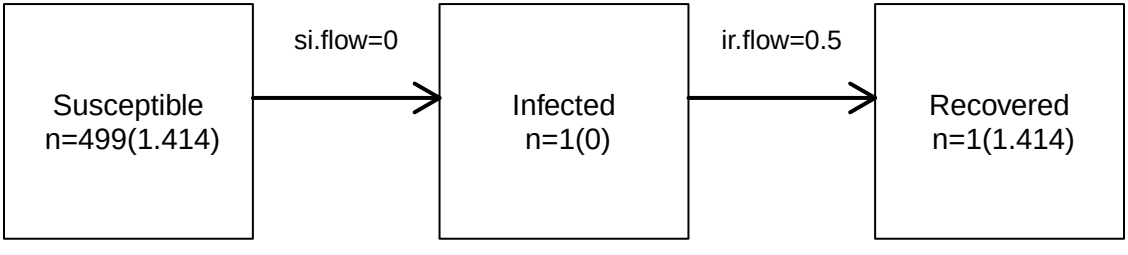

s.num
i.num
r.num
Number
0
100
200
300
400
500
0
10
20
30
40
50
Time

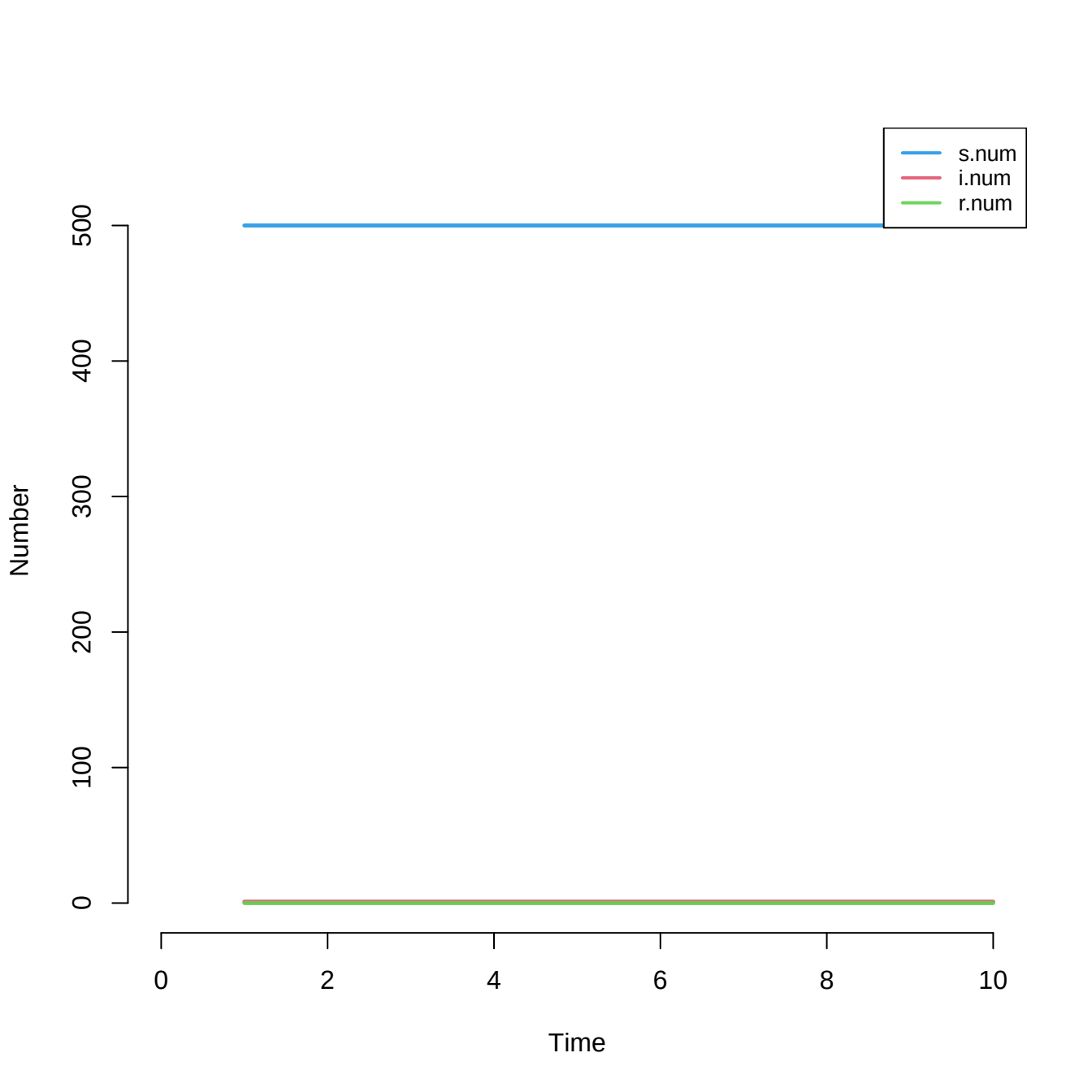

Number
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
10
20
30
40
50
Time


0.0
0.2
0.4
0.6
0.8
Number
0
10
20
30
40
50
Time

SIR Model Diagram

Simulation means(sd) | time=50

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r.num
Number
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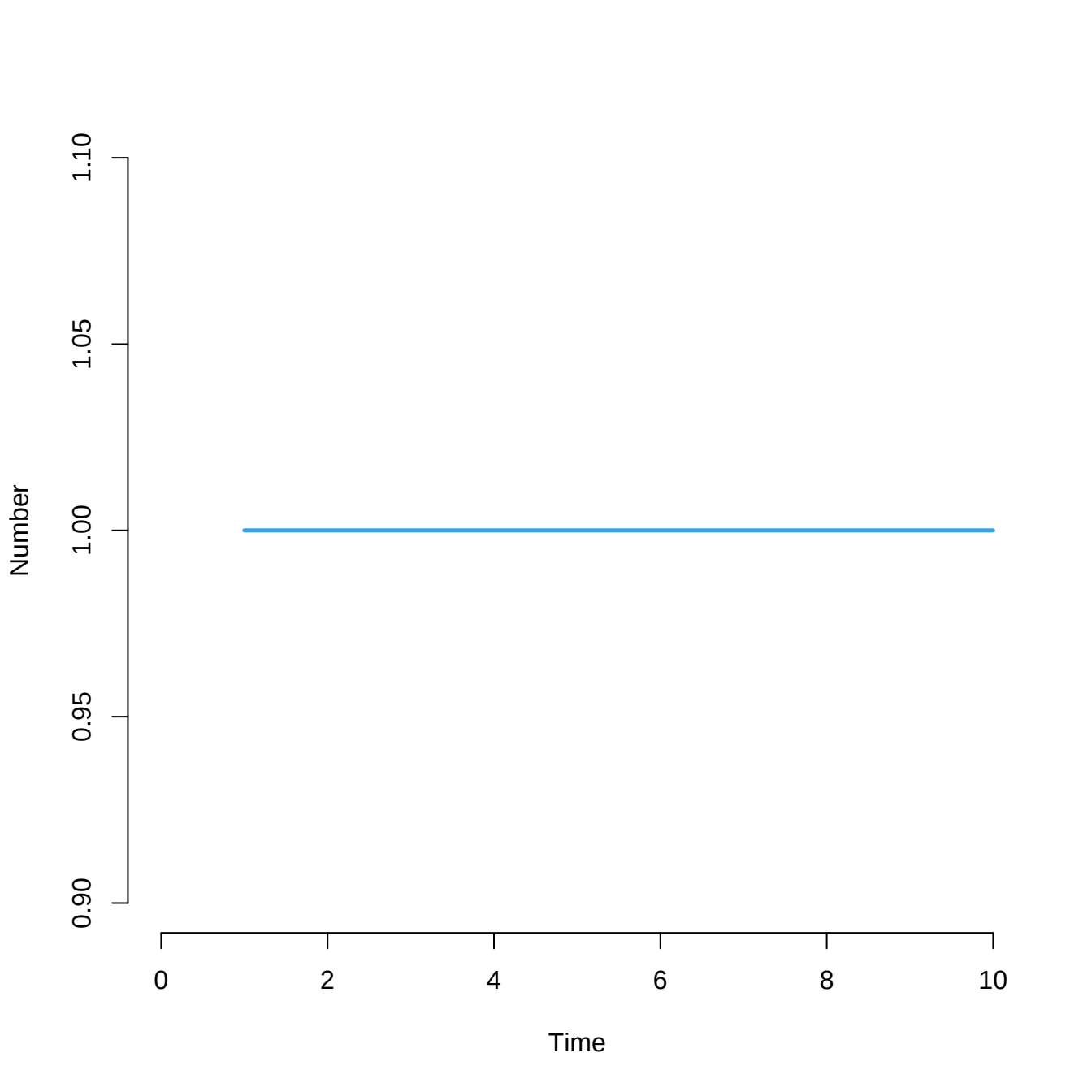
300
400
500
0
2
4
6
8
10
Time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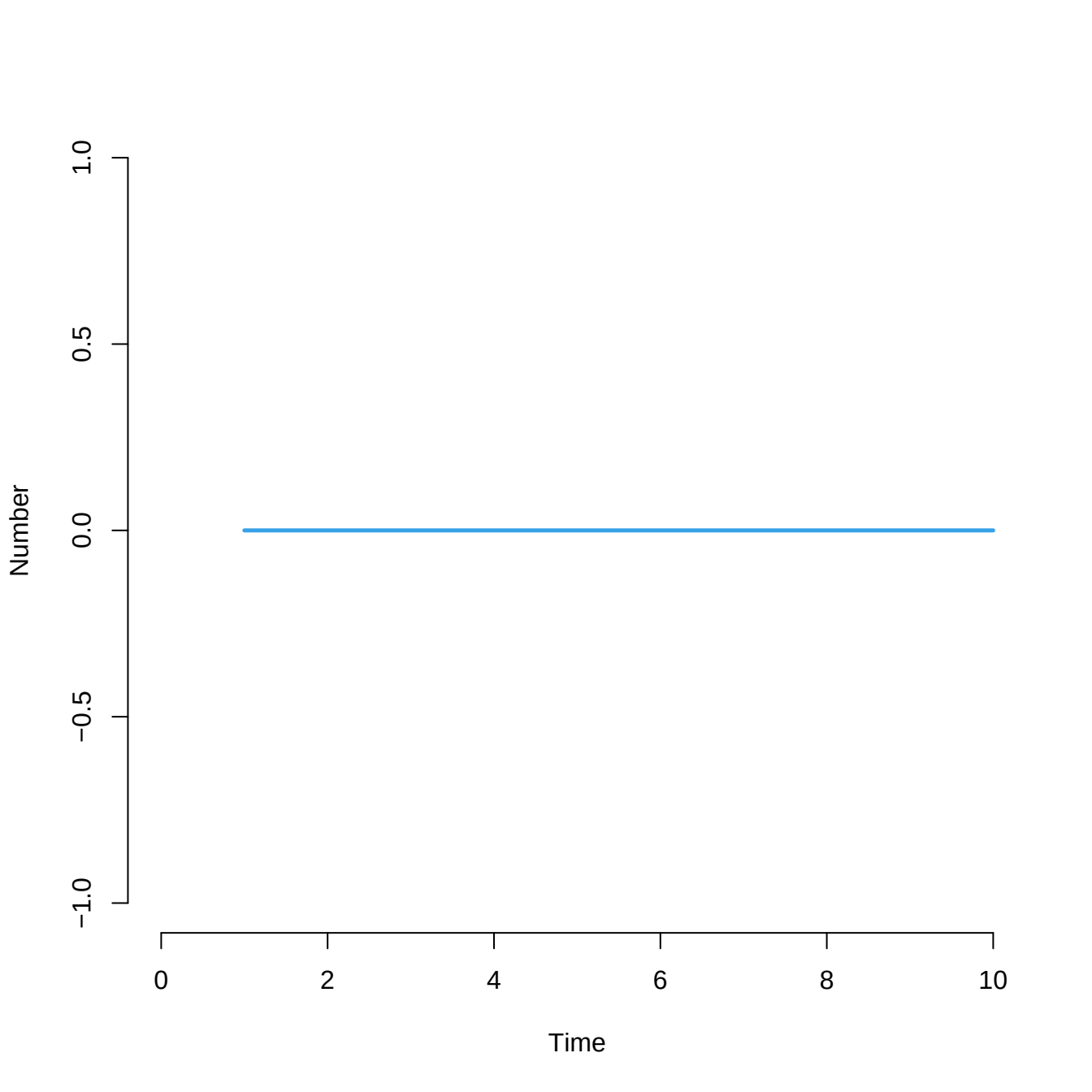
6
8
10
Time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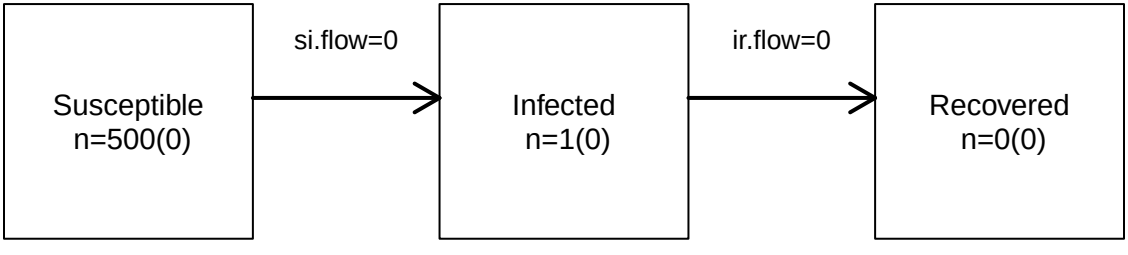
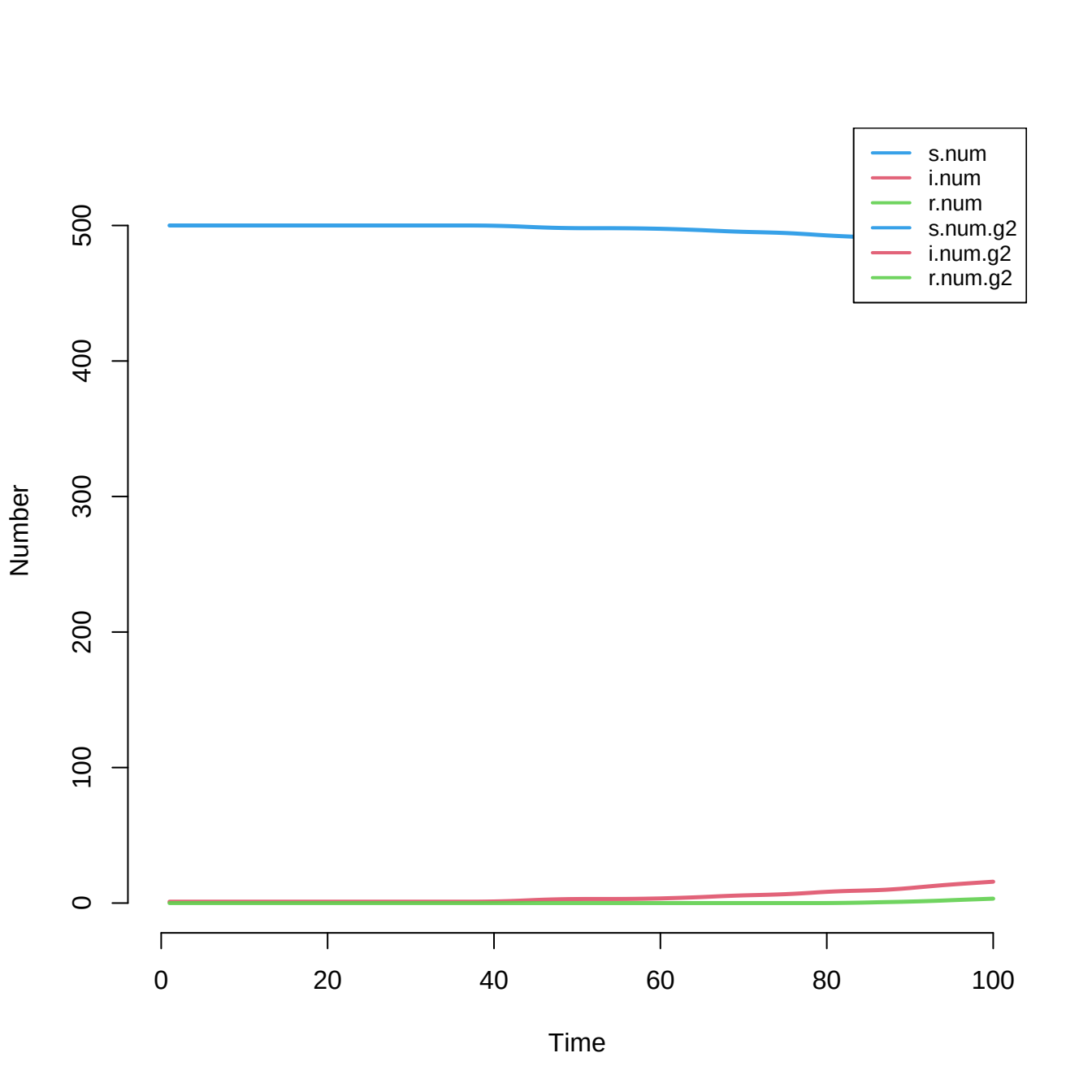
0
2
4
6
8
10
Time

SIR Model Diagram

Simulation means(sd) | time=10

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i.num
r.num
s.num.g2
i.num.g2
r.num.g2
Number
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300
400
500
0
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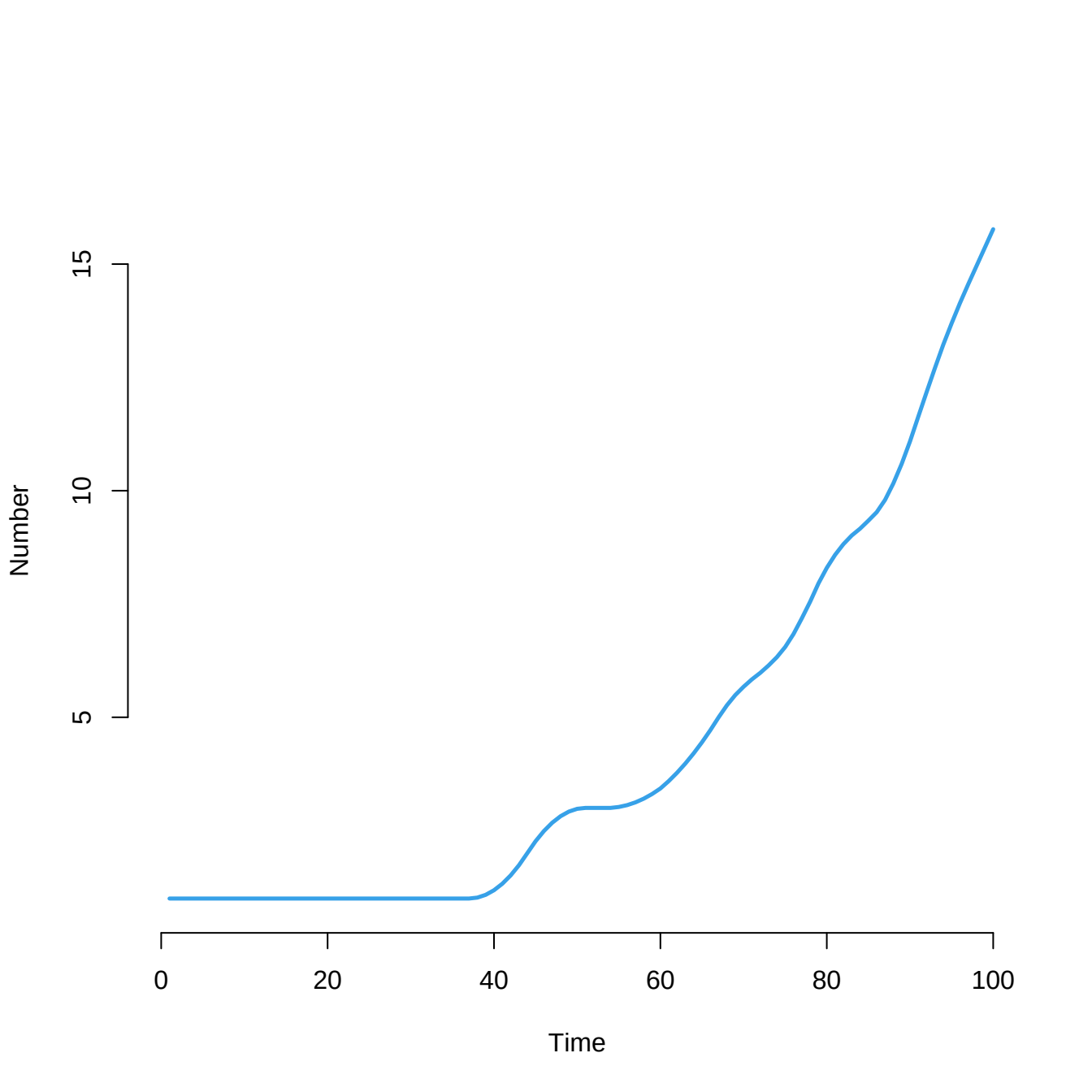
40
60
80
100
Time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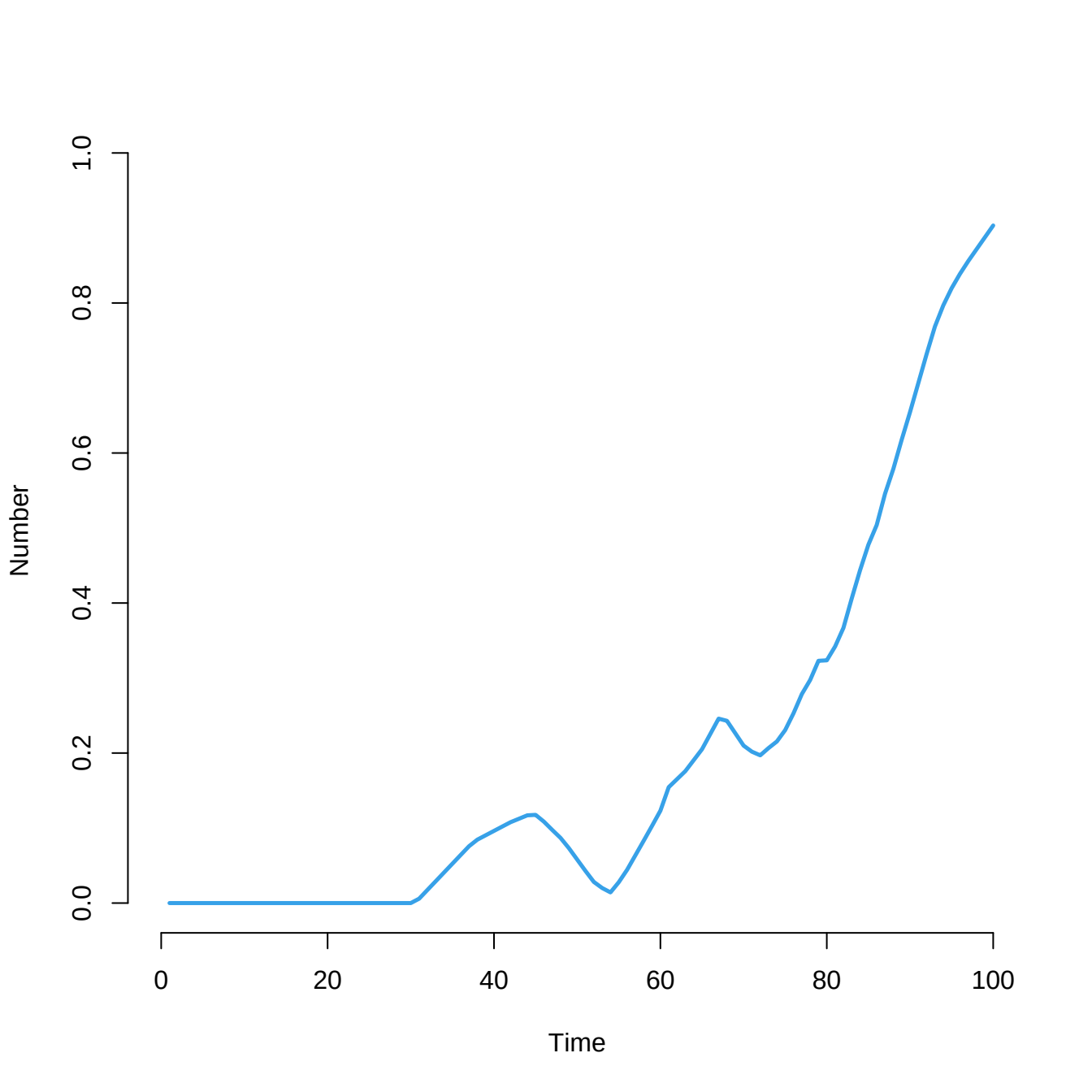
80
100
Time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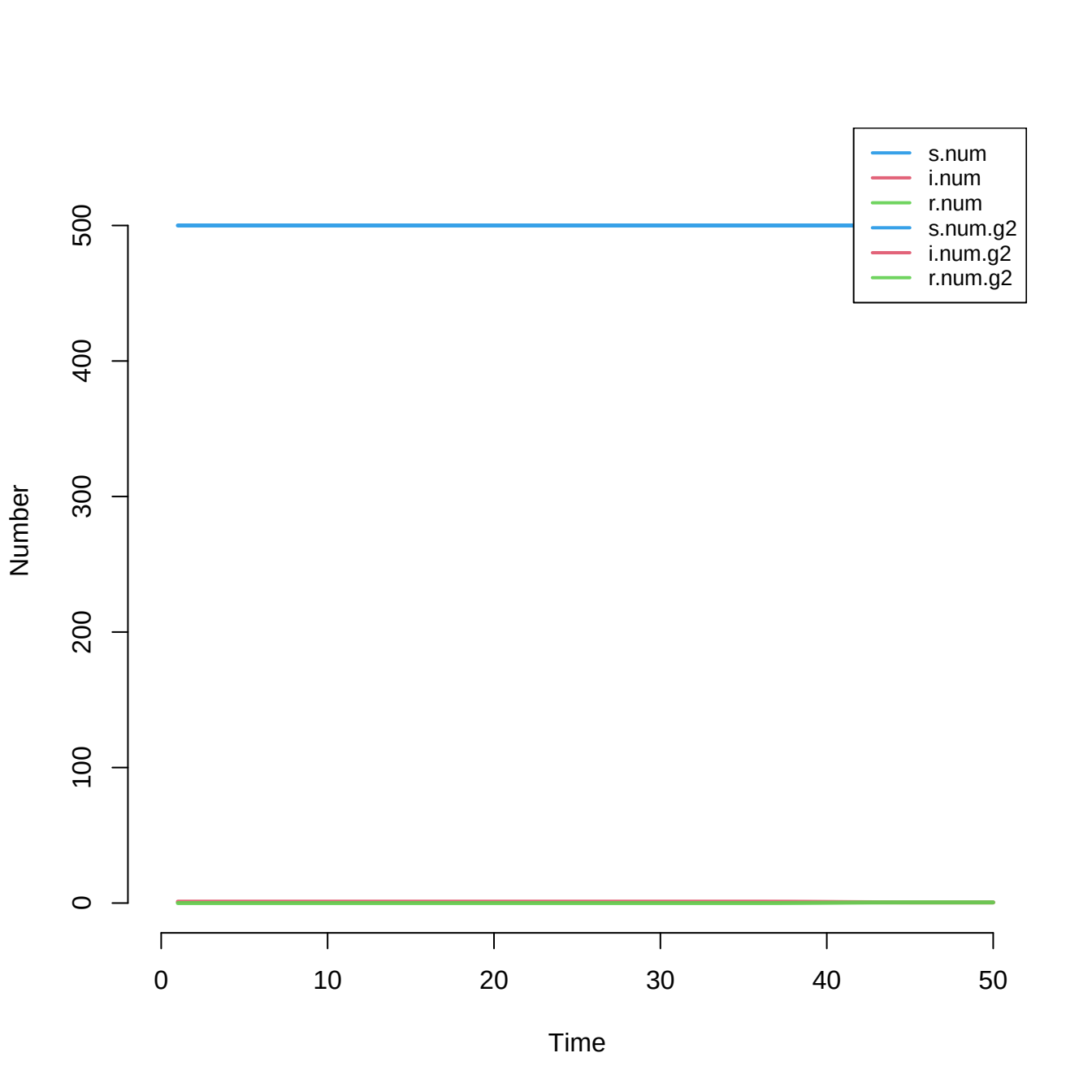
60
80
100
Time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i.num
r.num
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r.num.g2
Number
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30
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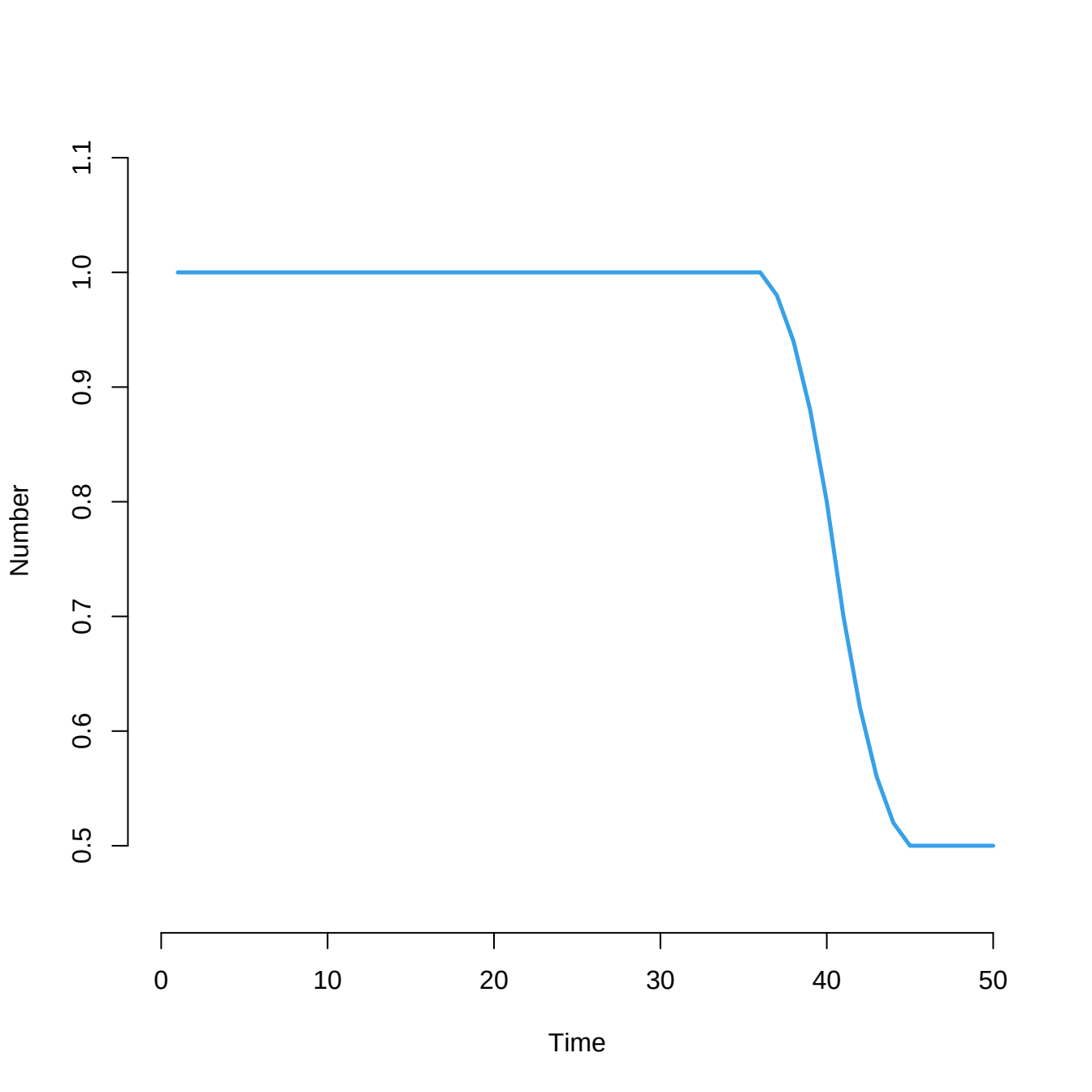
50
Time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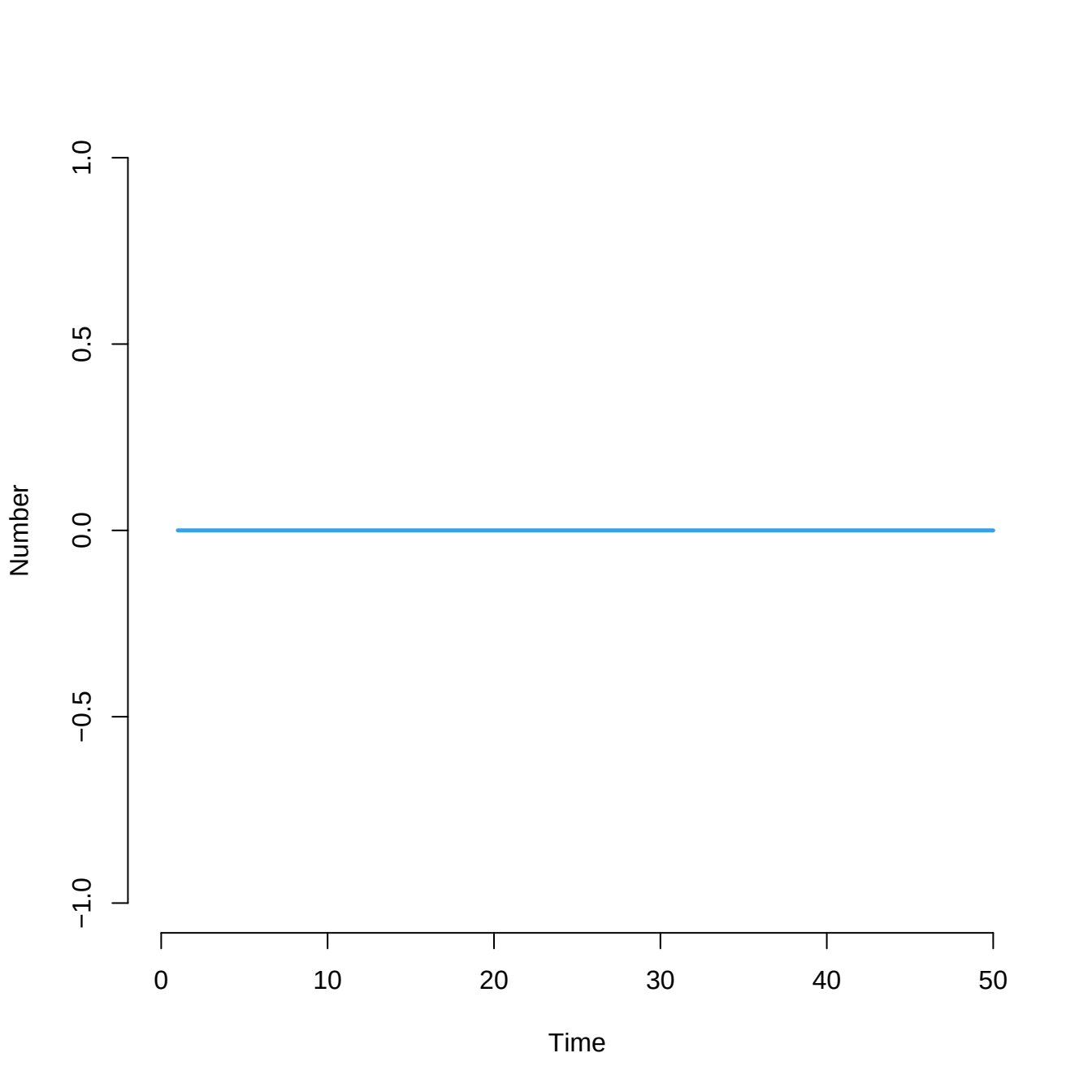
Time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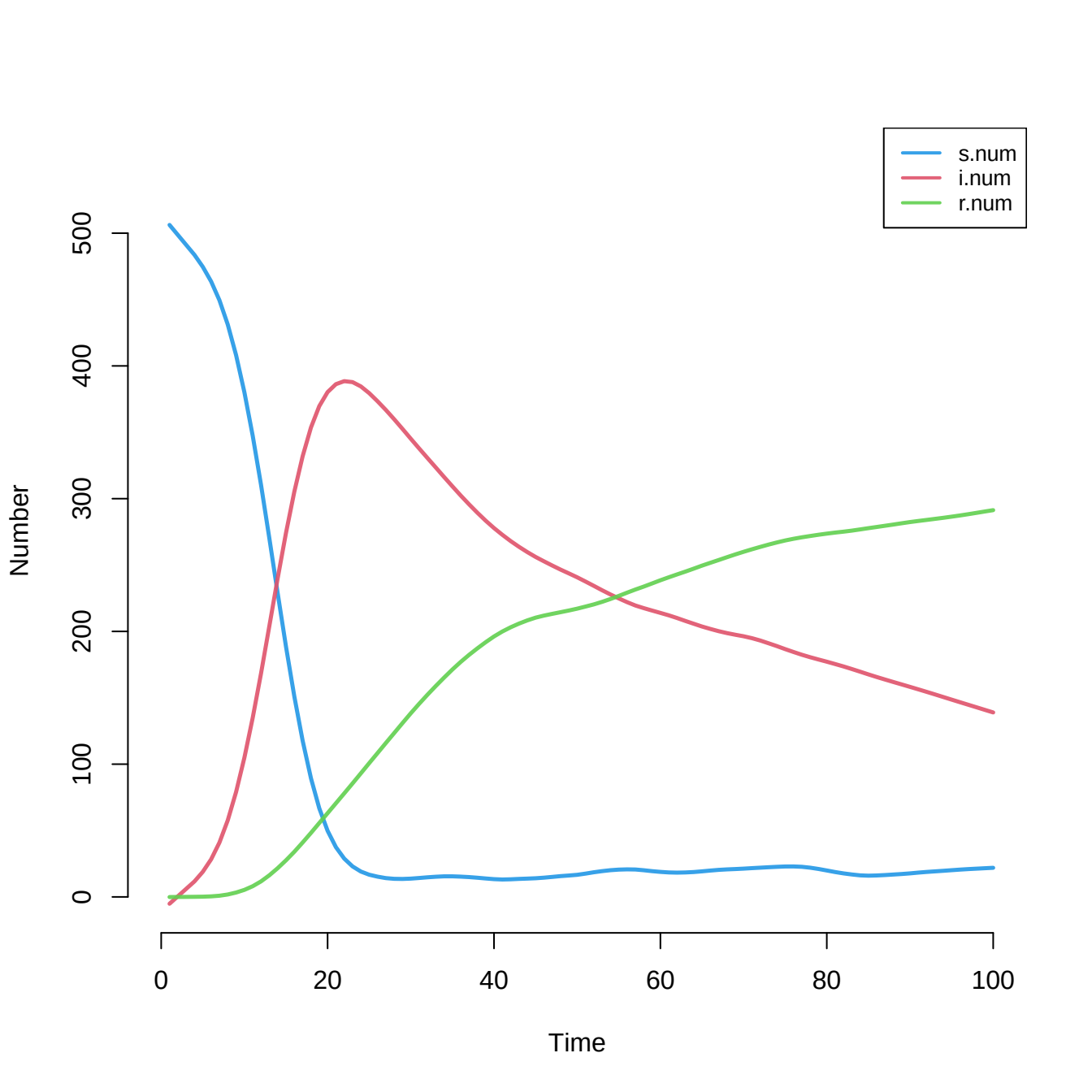
Time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r.num
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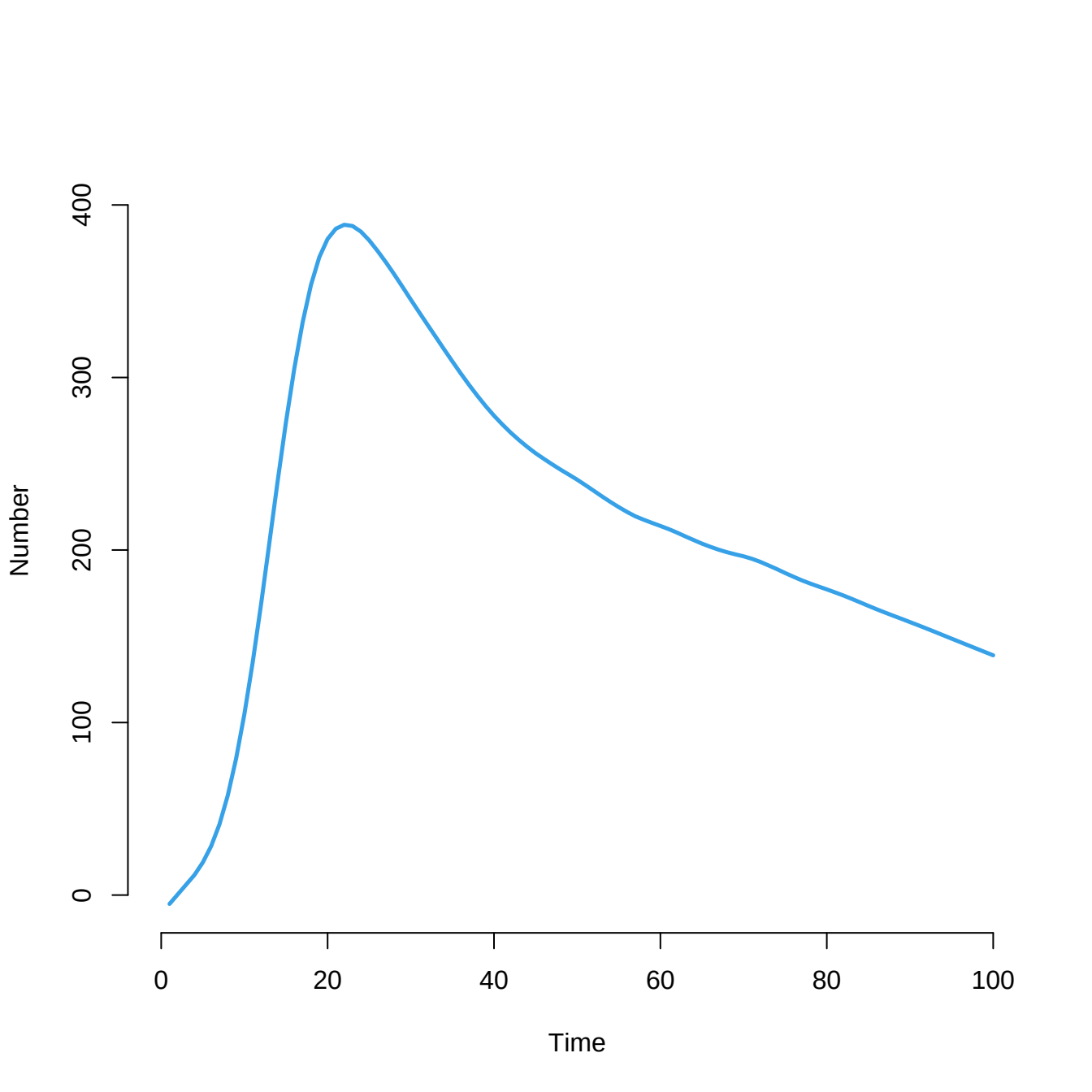
100
Time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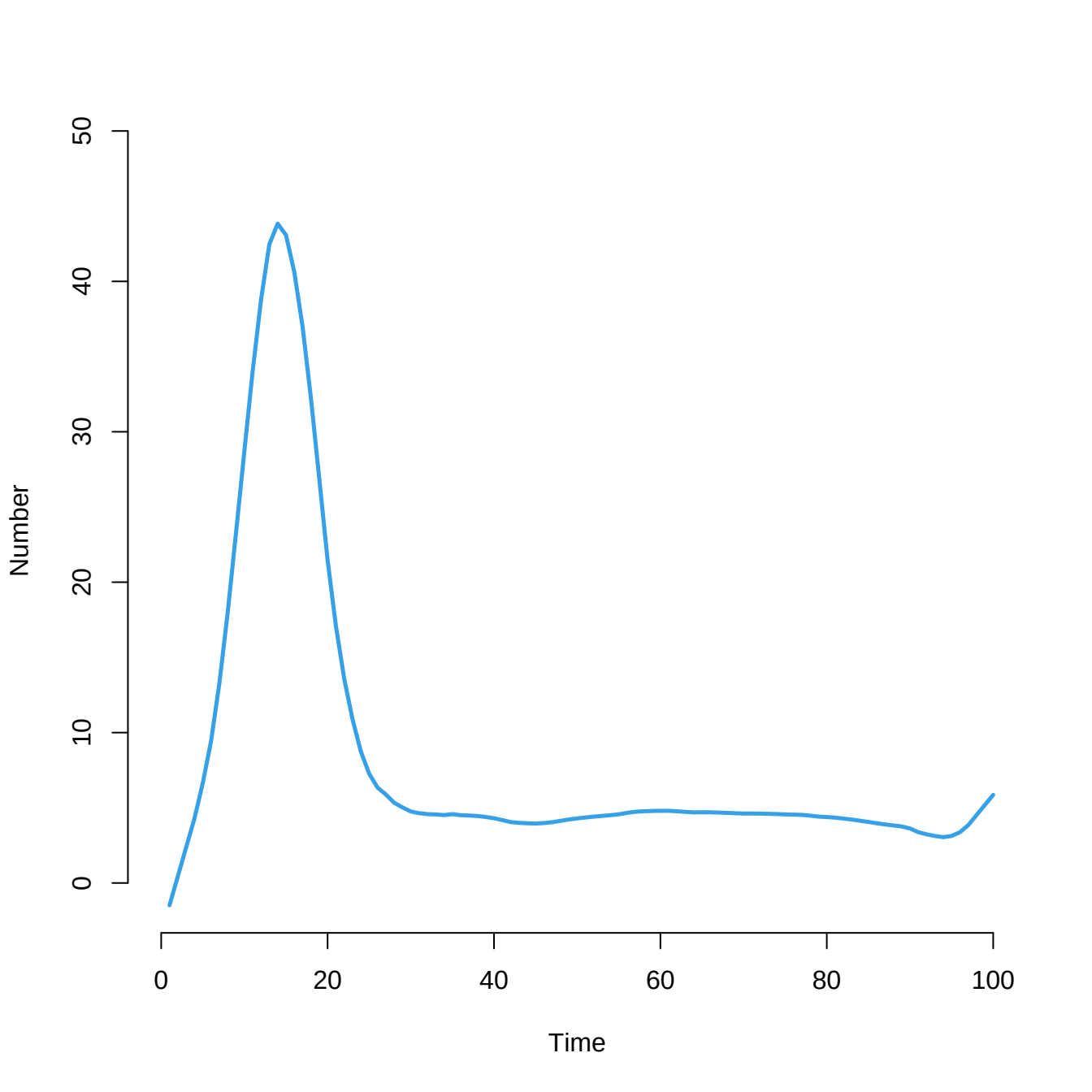
Time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60
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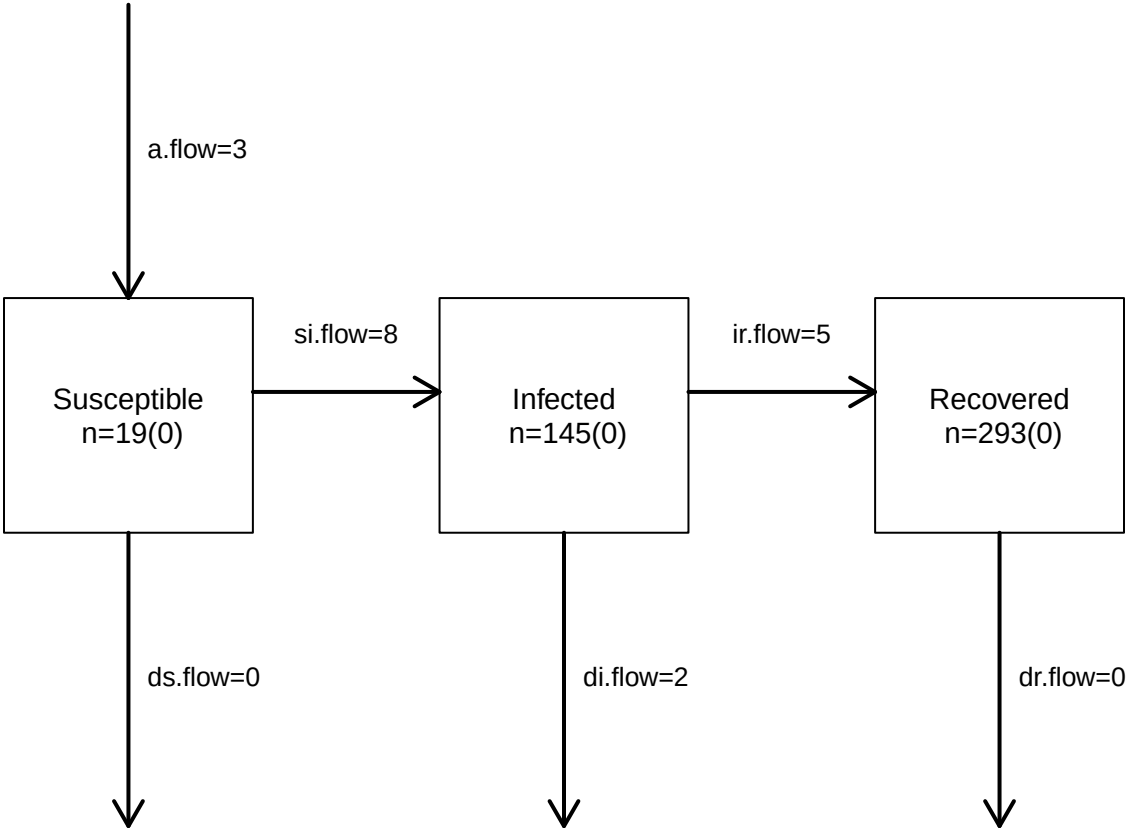
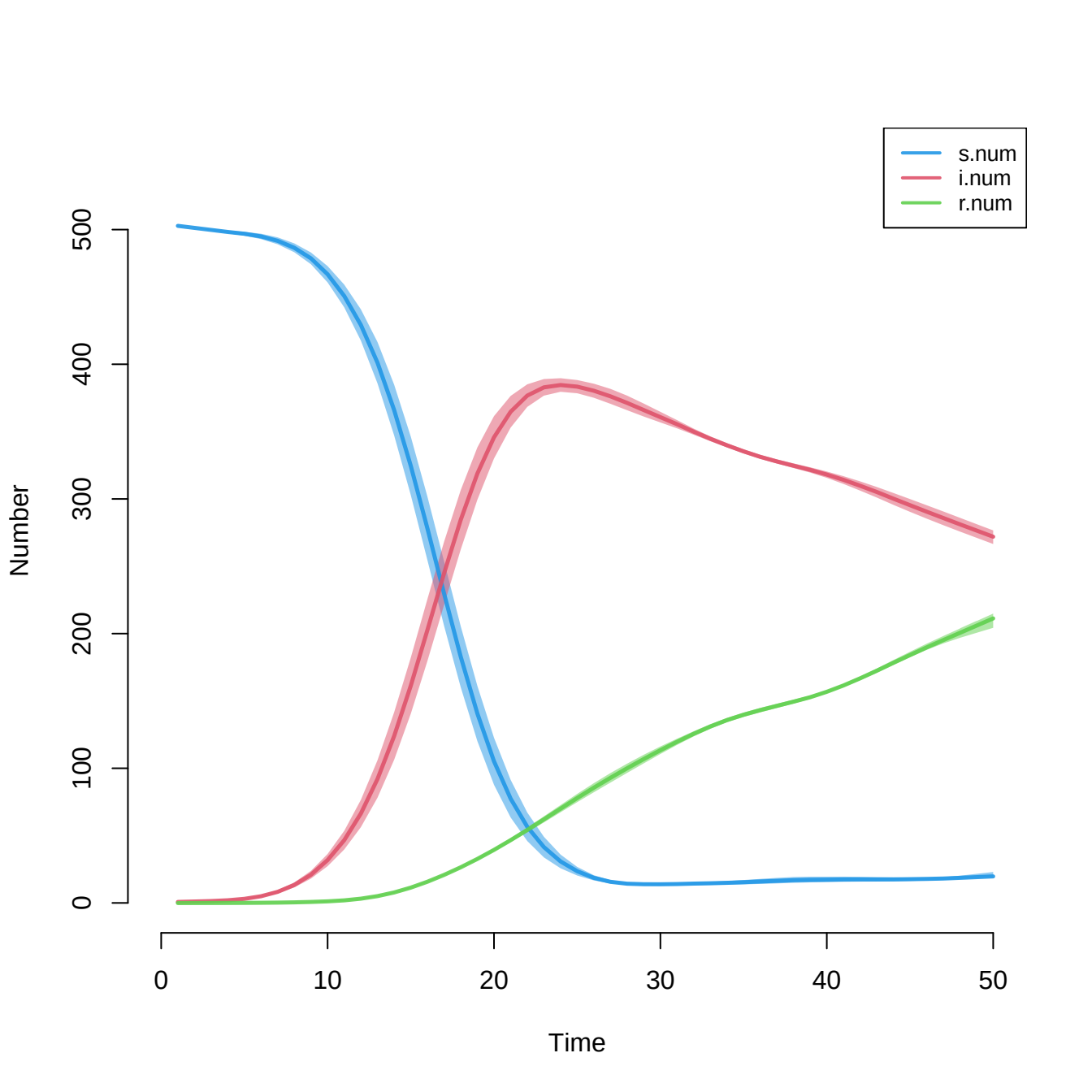
100
Time

SIR Model Diagram

Simulation means(sd) | time=100

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r.num
Number
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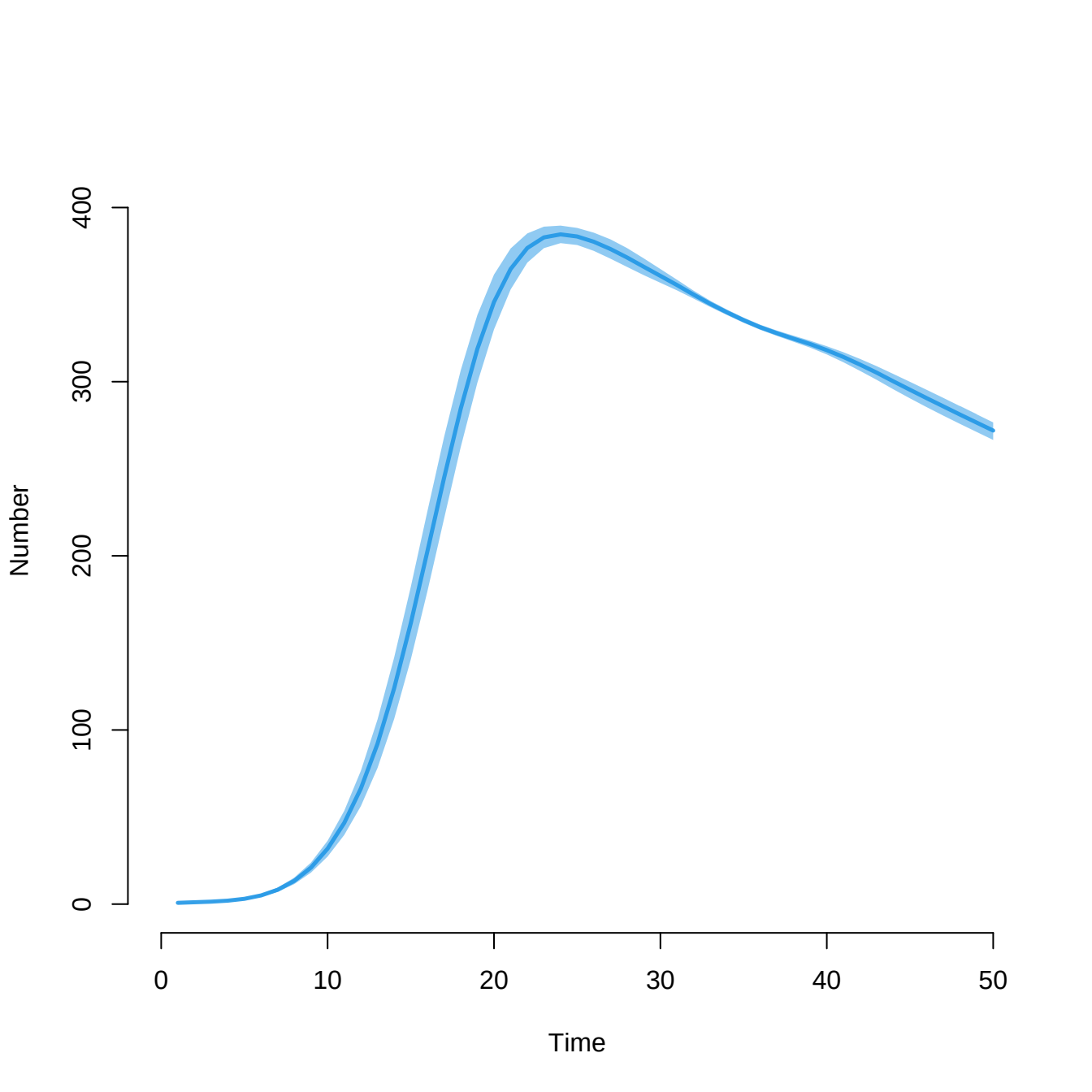
Time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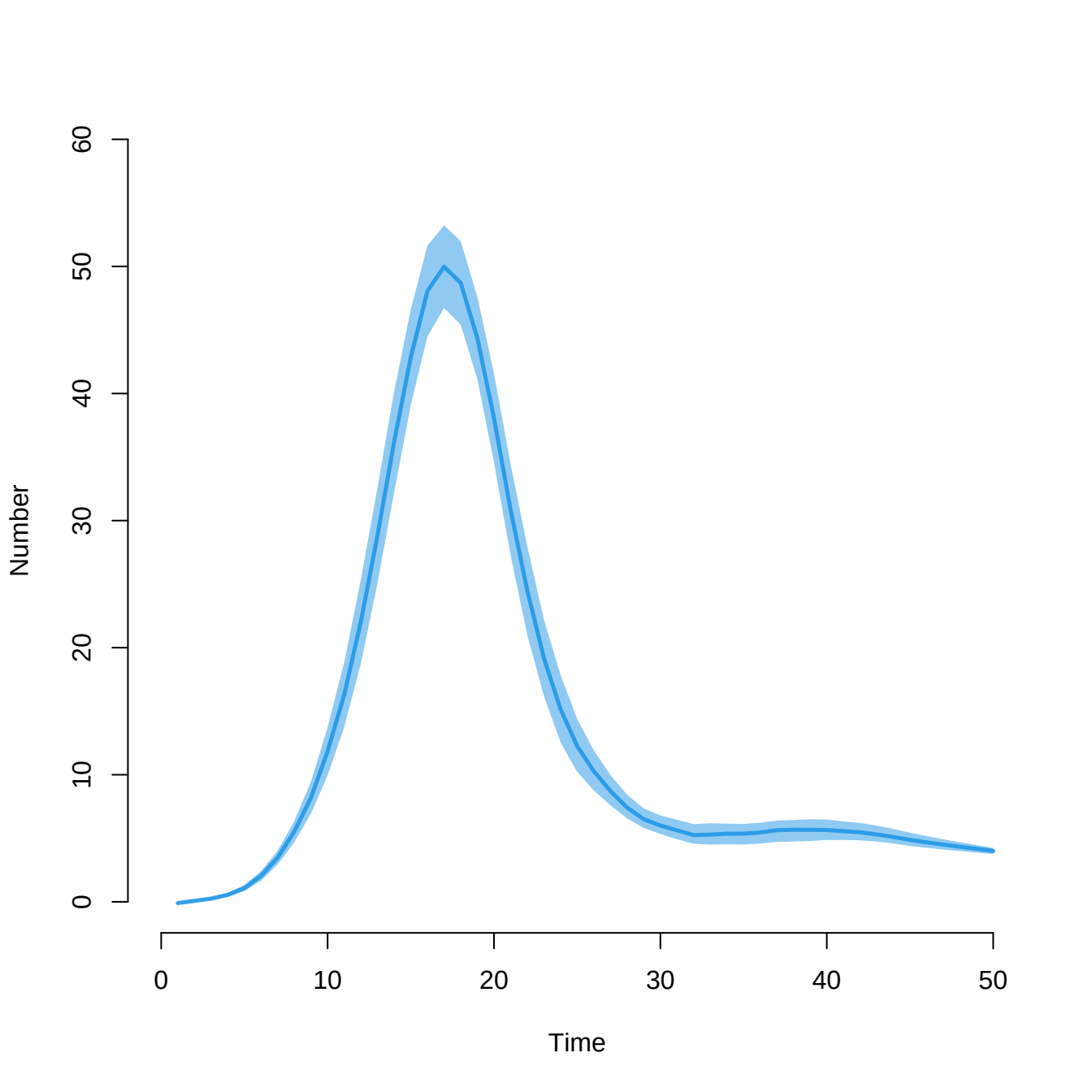
Time


Number
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Time
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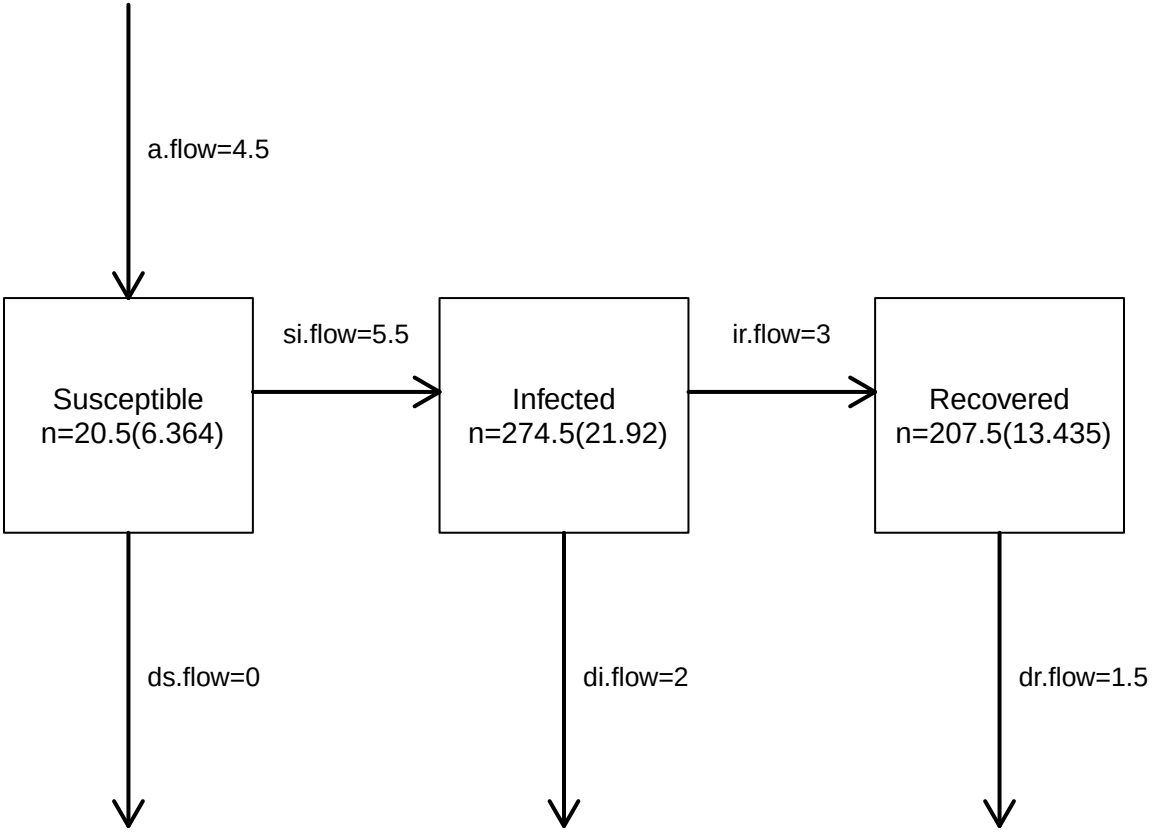
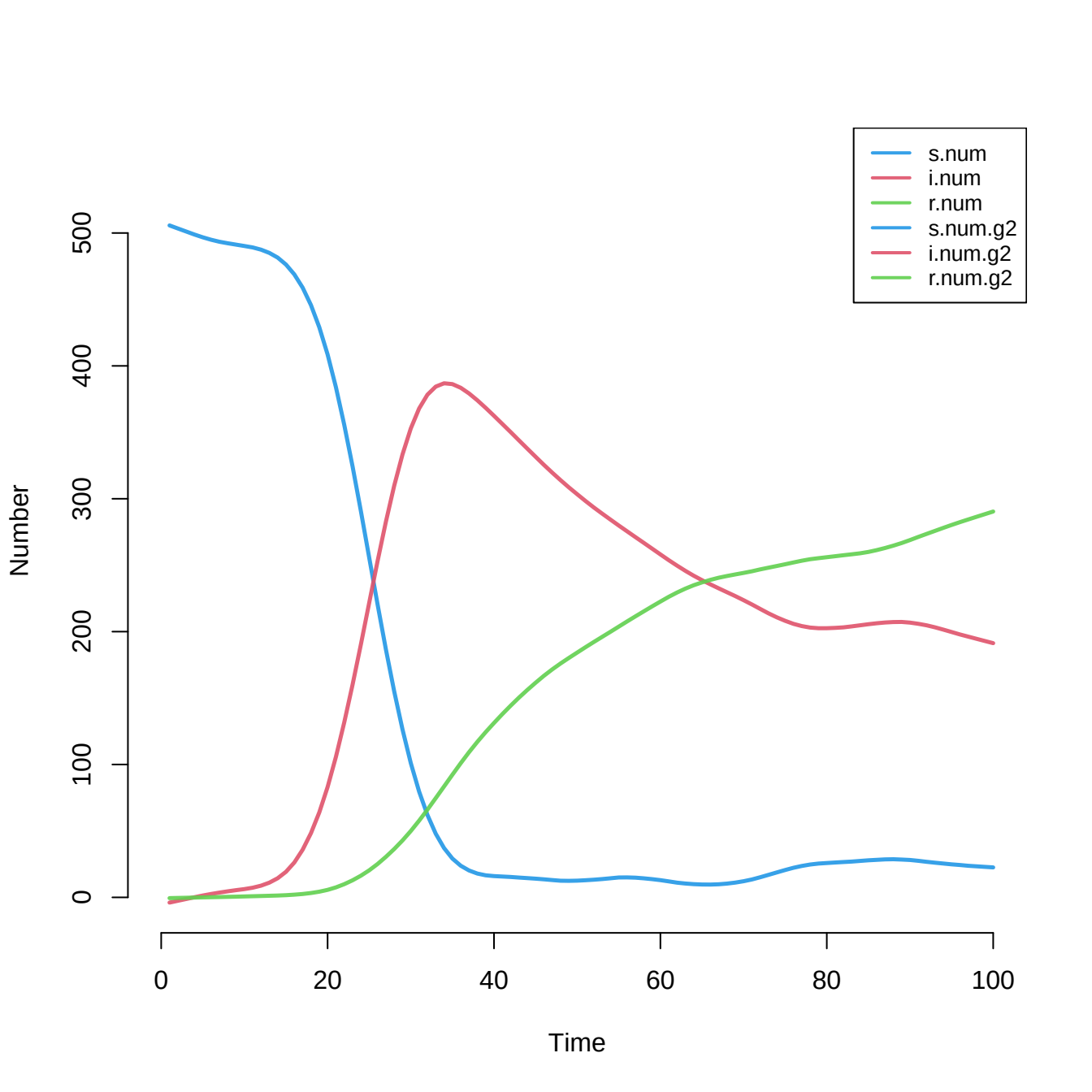
40
50

SIR Model Diagram

Simulation means(sd) | time=50

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r.num
s.num.g2
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r.num.g2
Number
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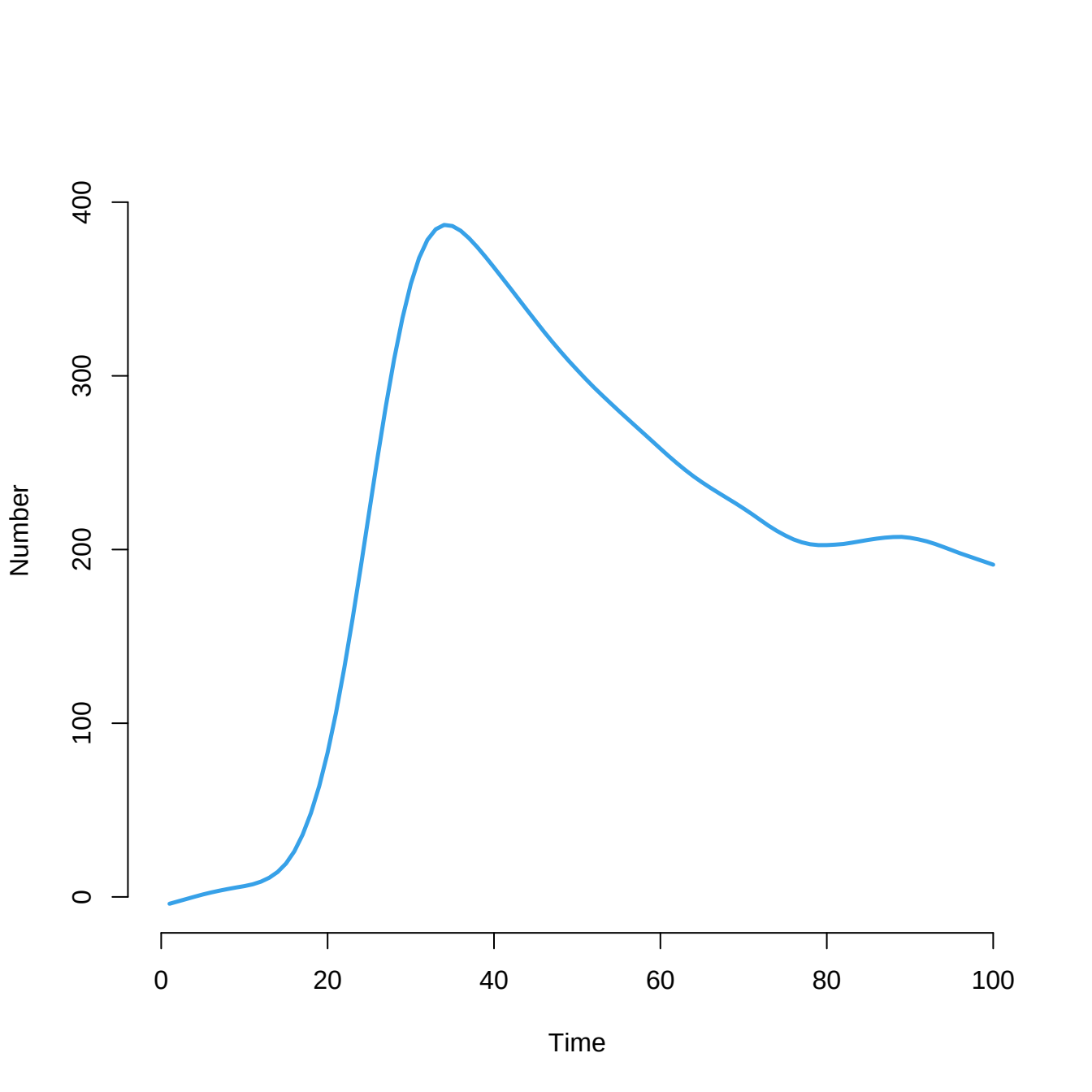
100
Time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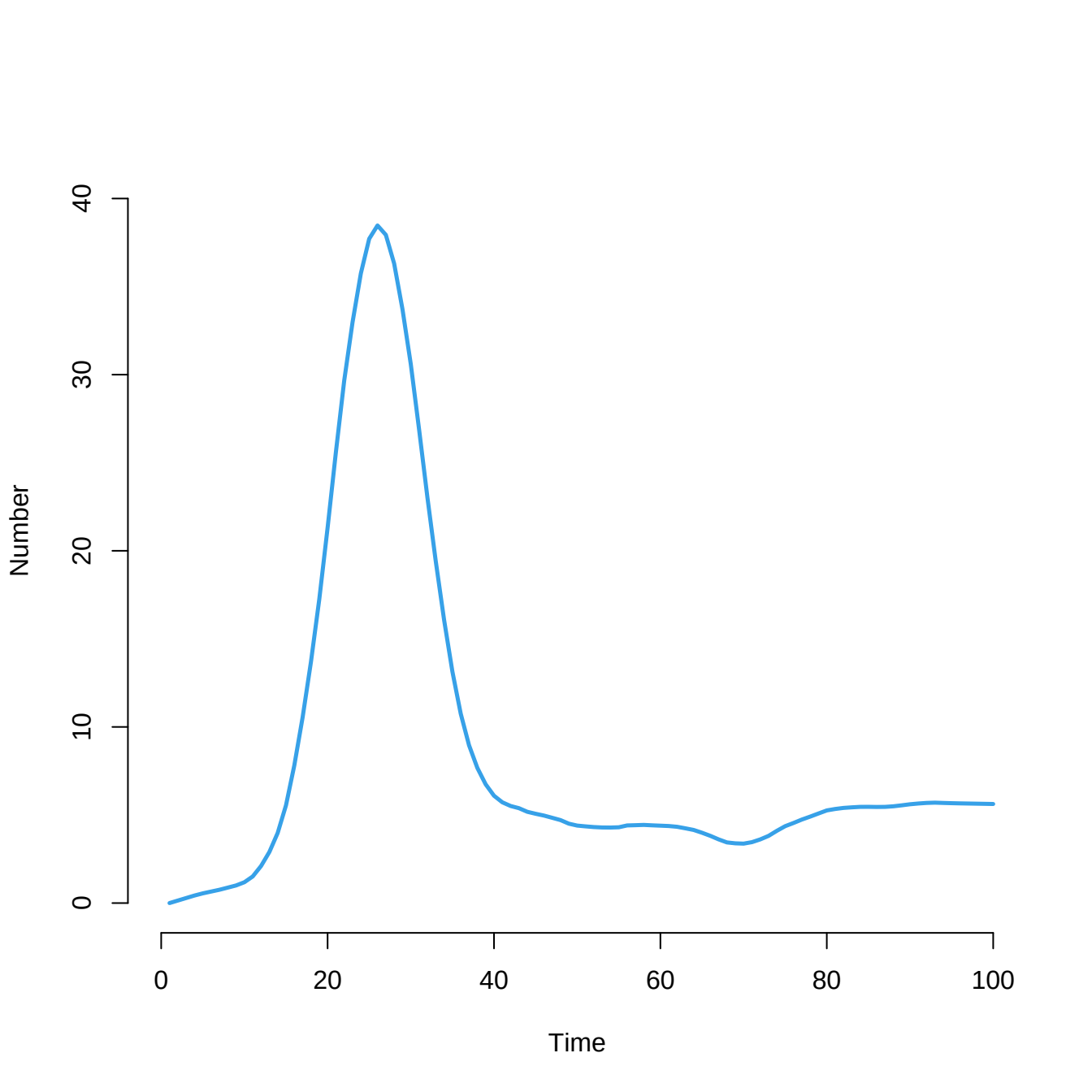
Time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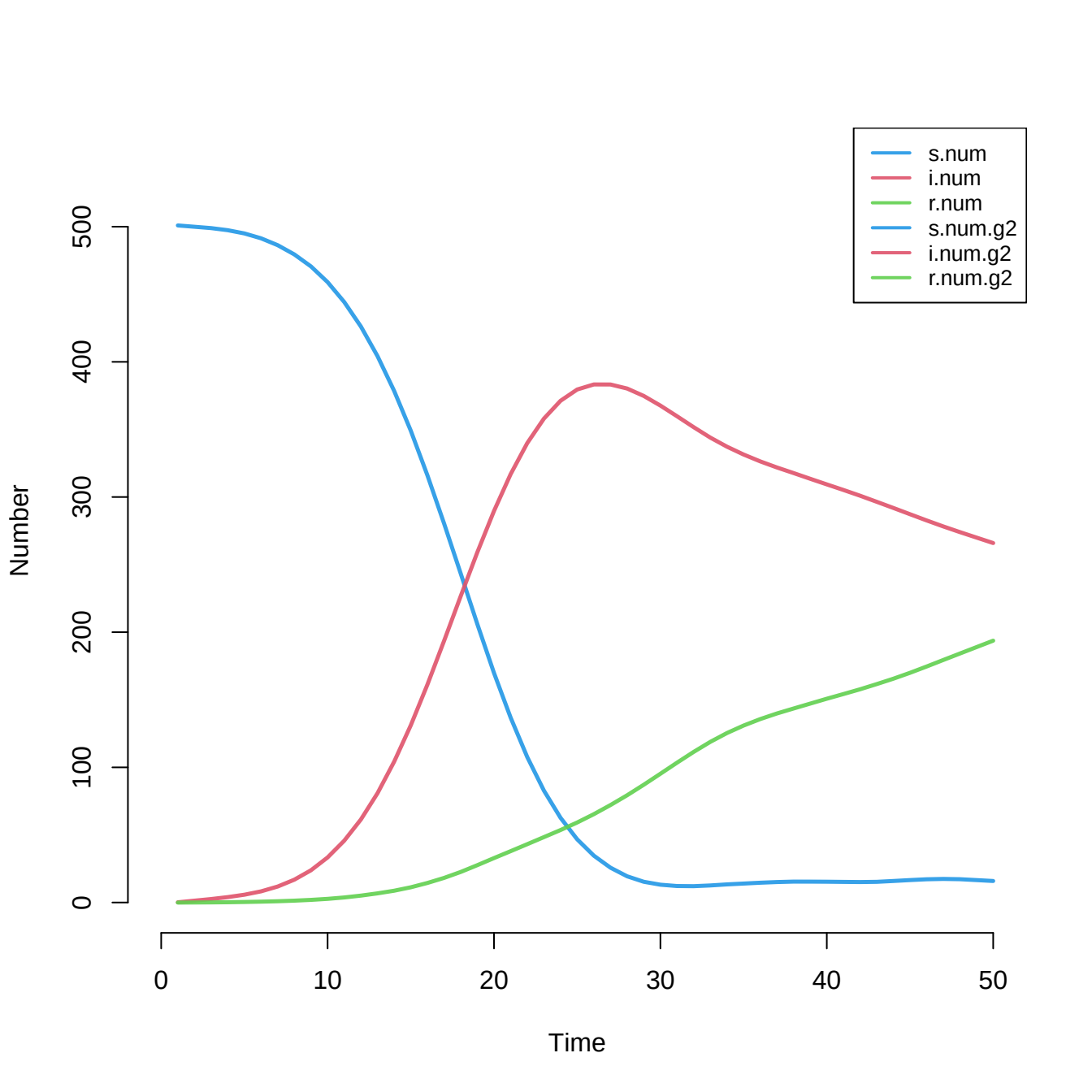
100
Time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i.num
r.num
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30
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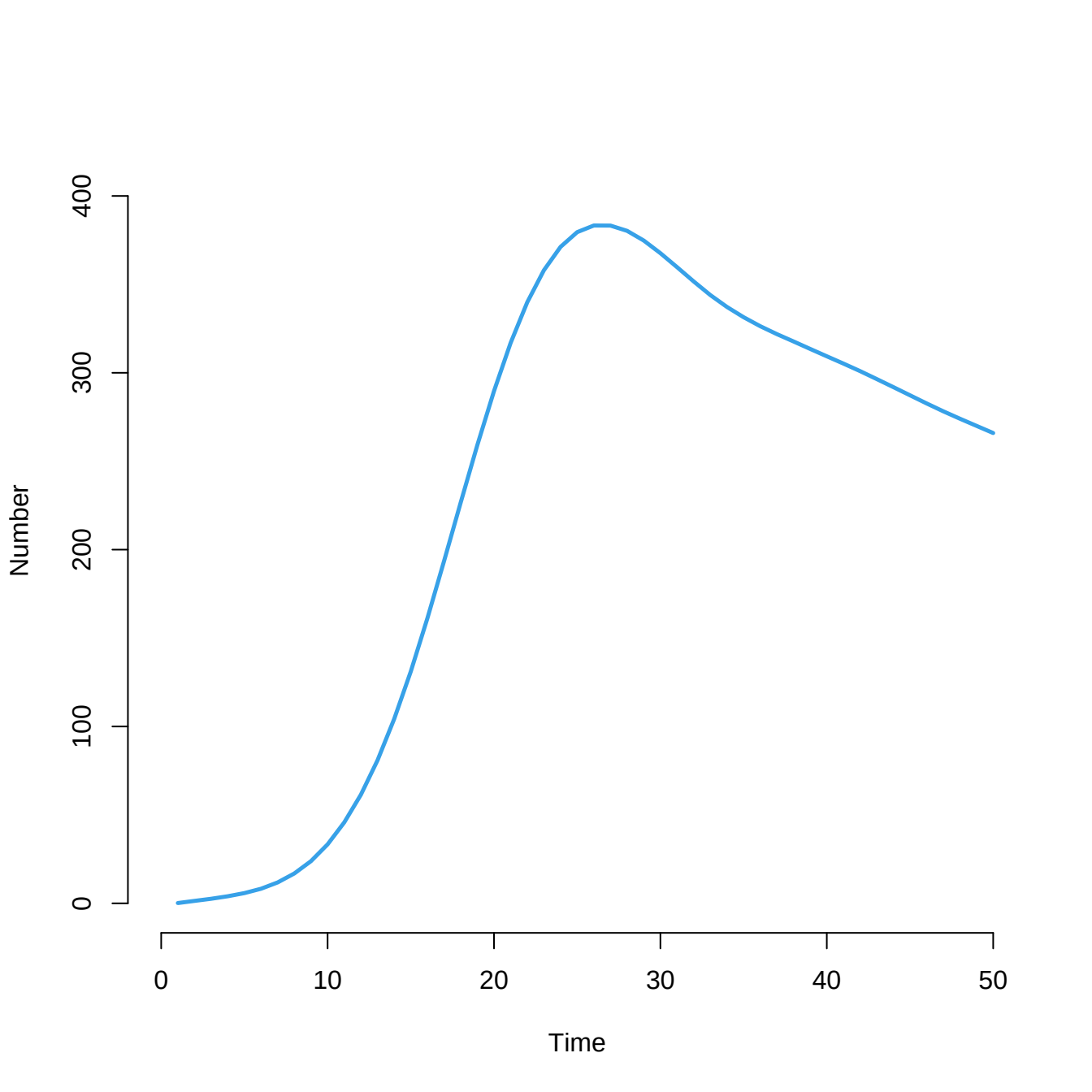
Time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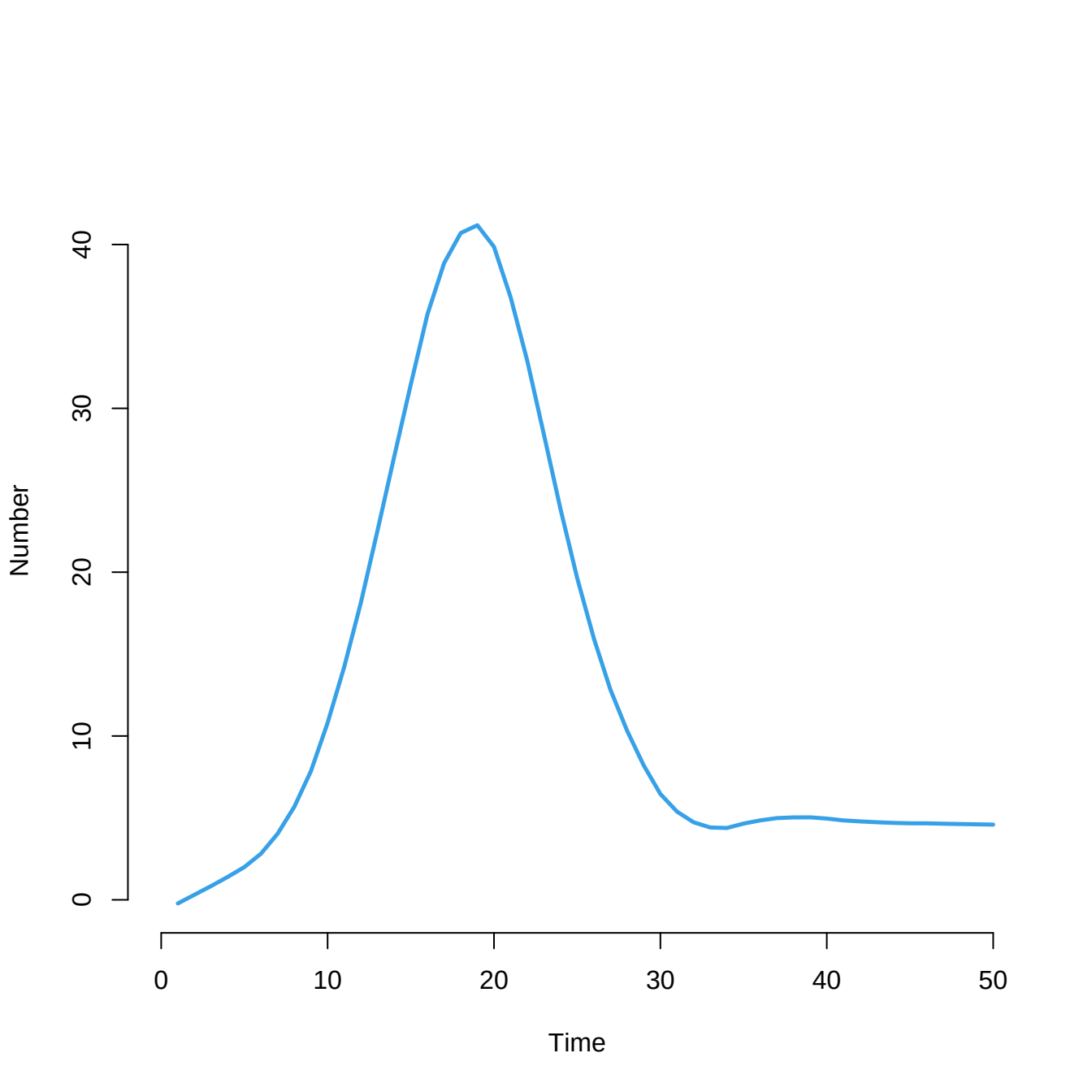
Time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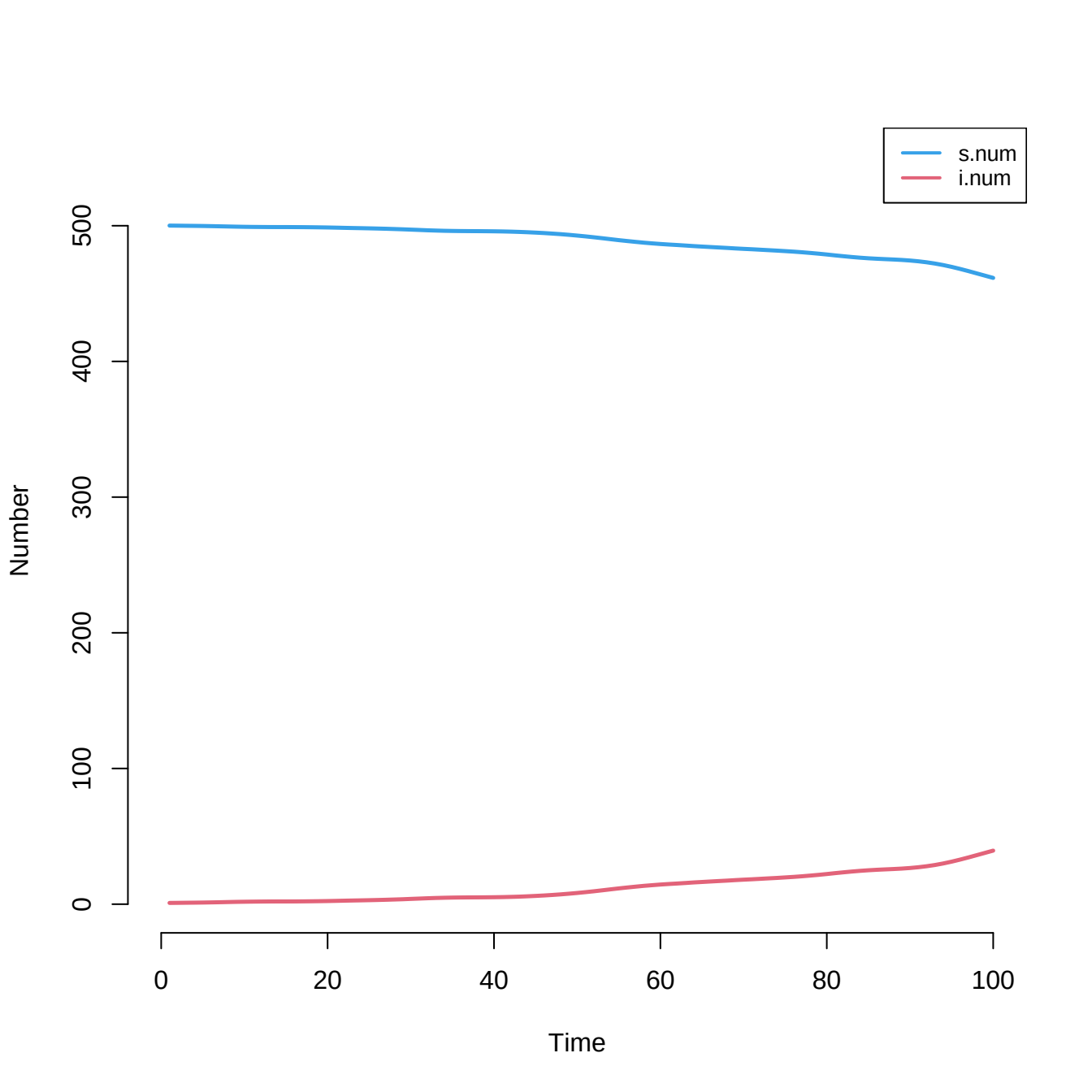
Time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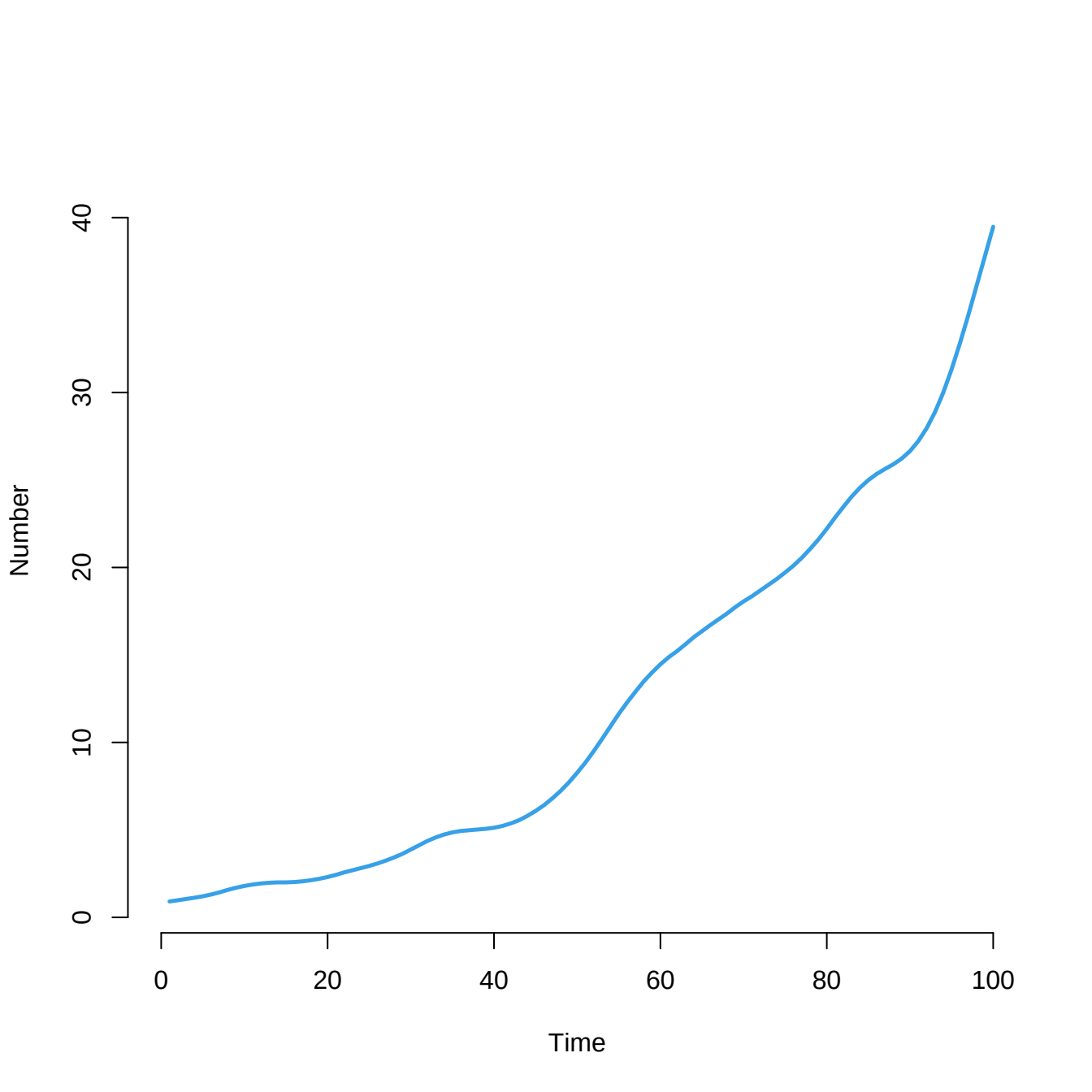
Time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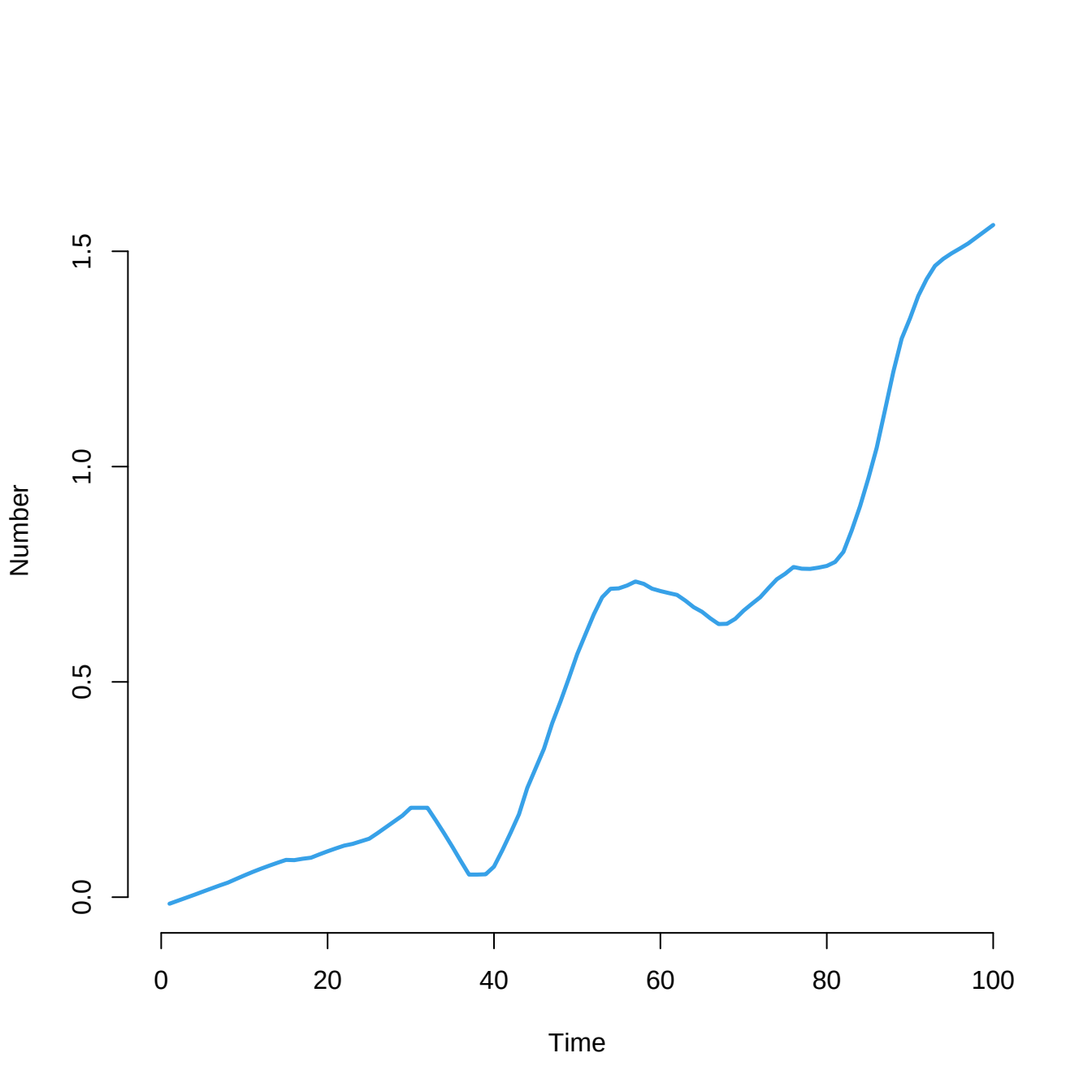
Time


Number
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20
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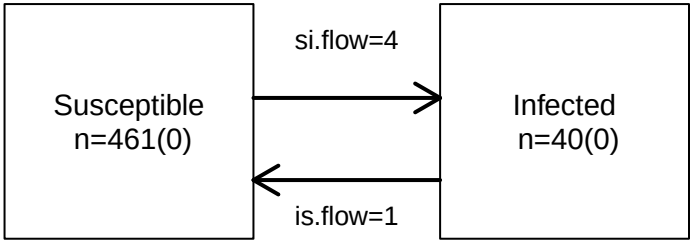
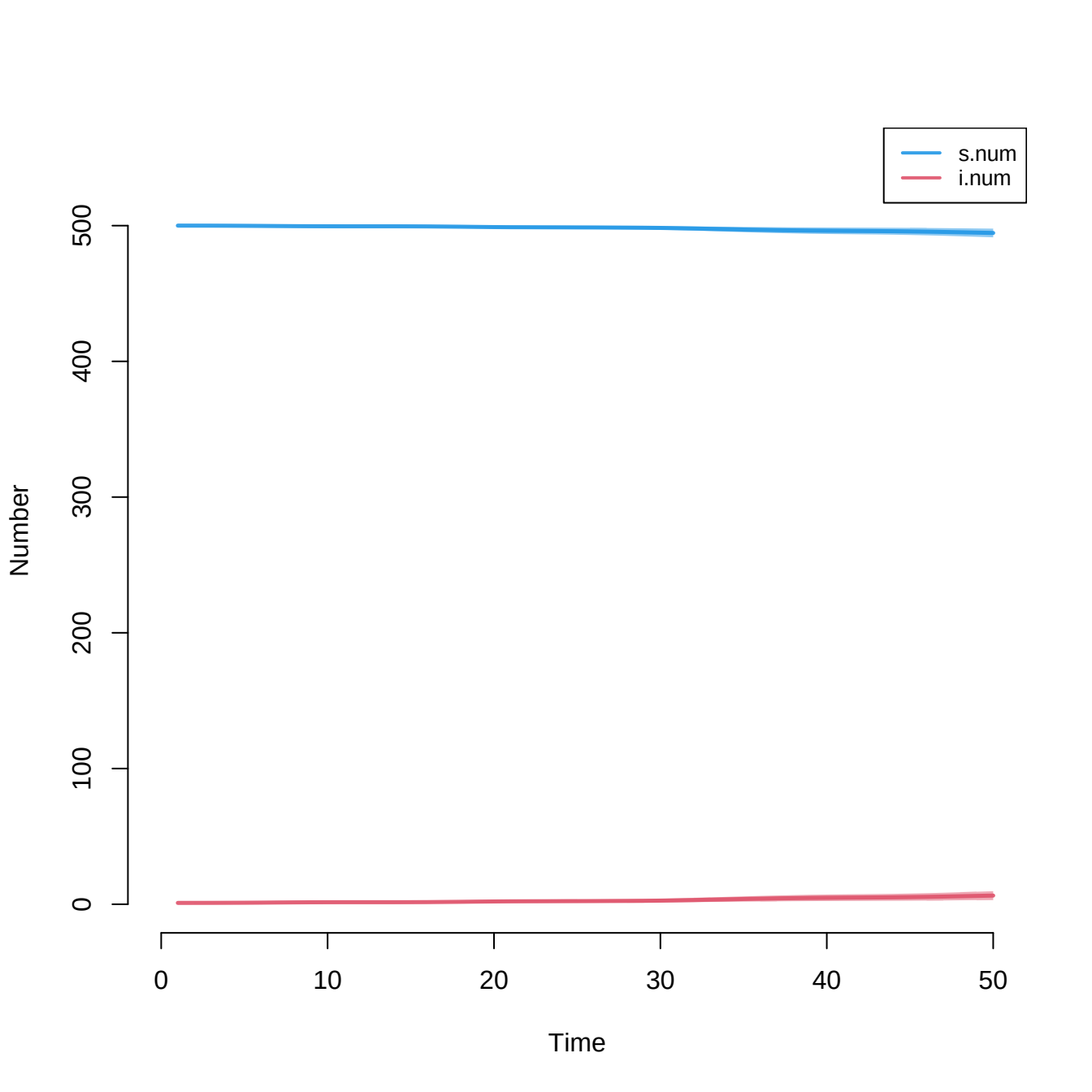
60
80
100
Time

SIS Model Diagram

Simulation means(sd) | time=100

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i.num
Number
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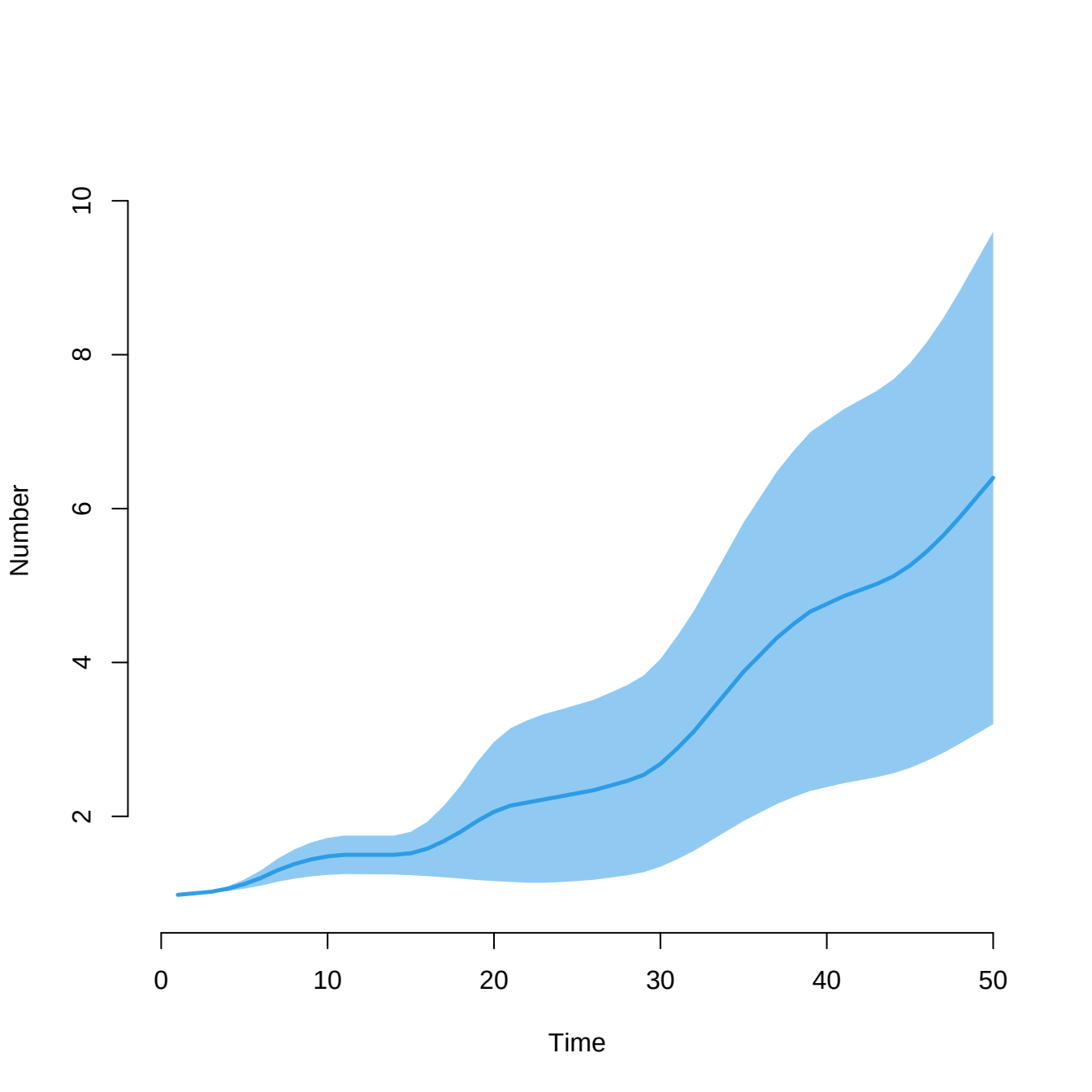
30
40
50
Time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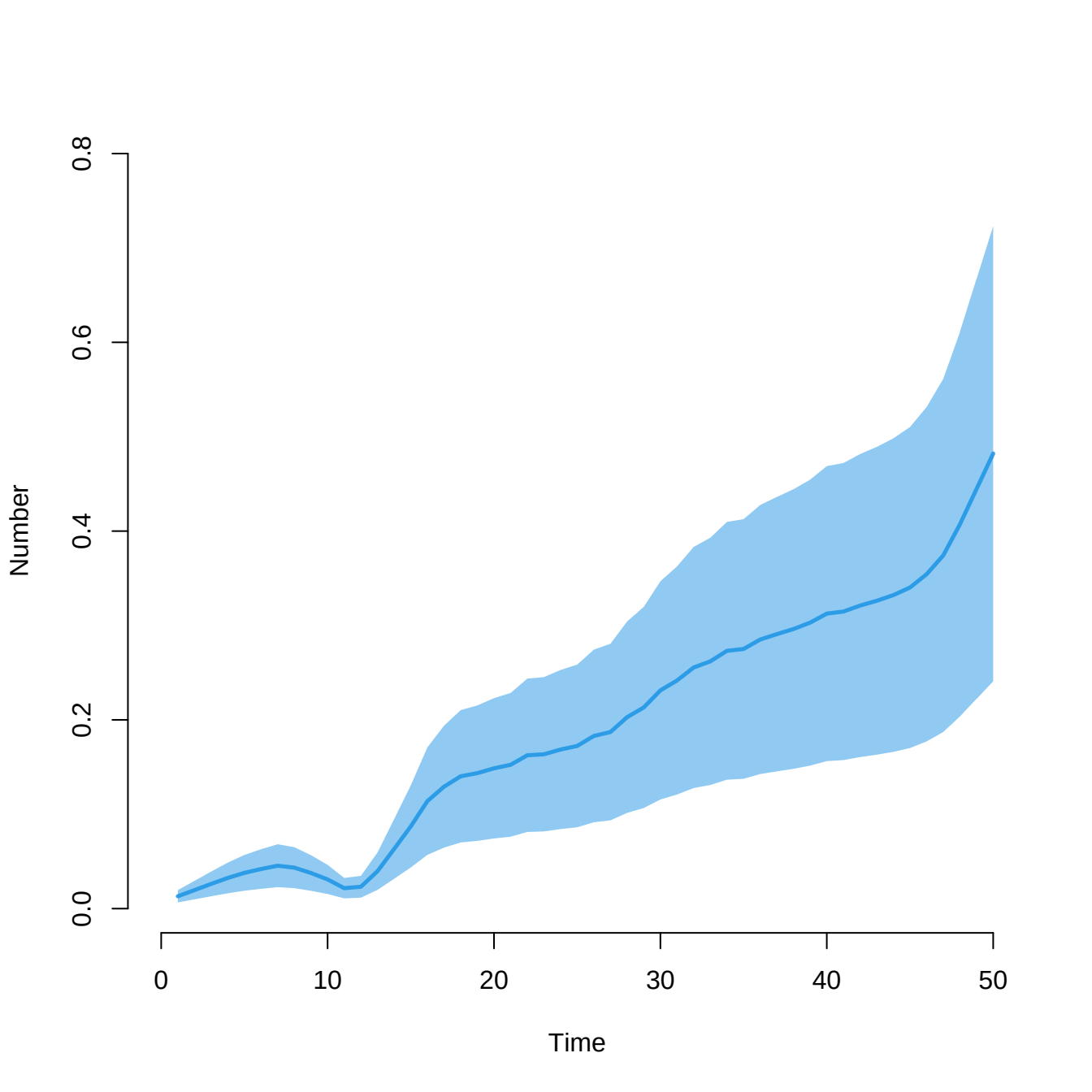
Time


Number
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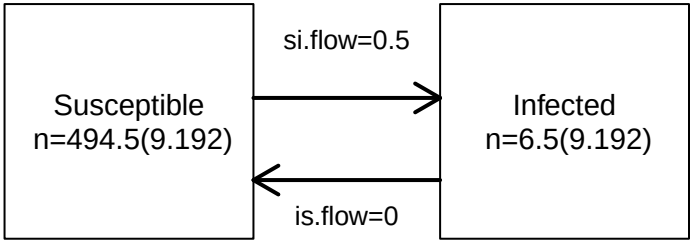
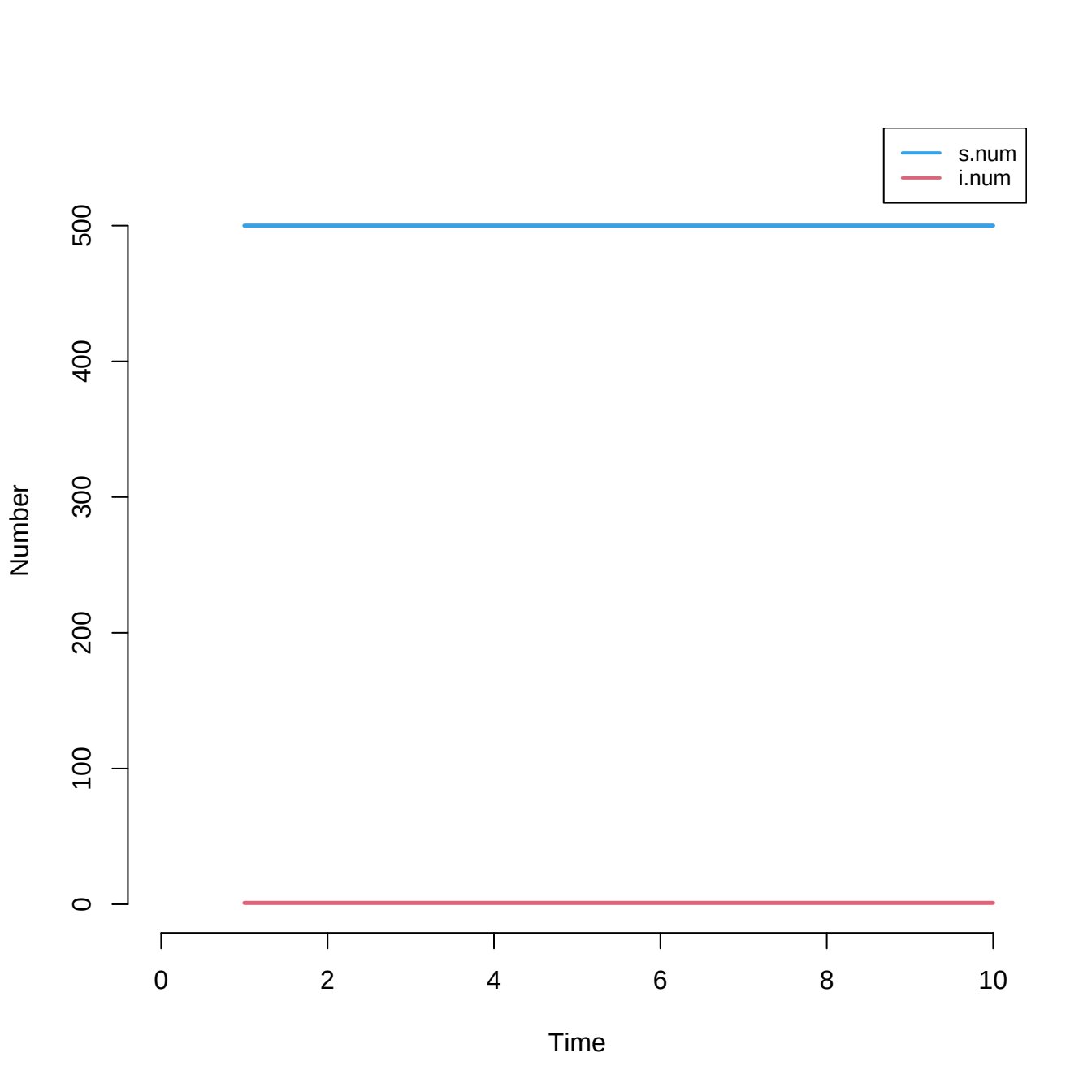
0
10
20
30
40
50
Time

SIS Model Diagram

Simulation means(sd) | time=50

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6
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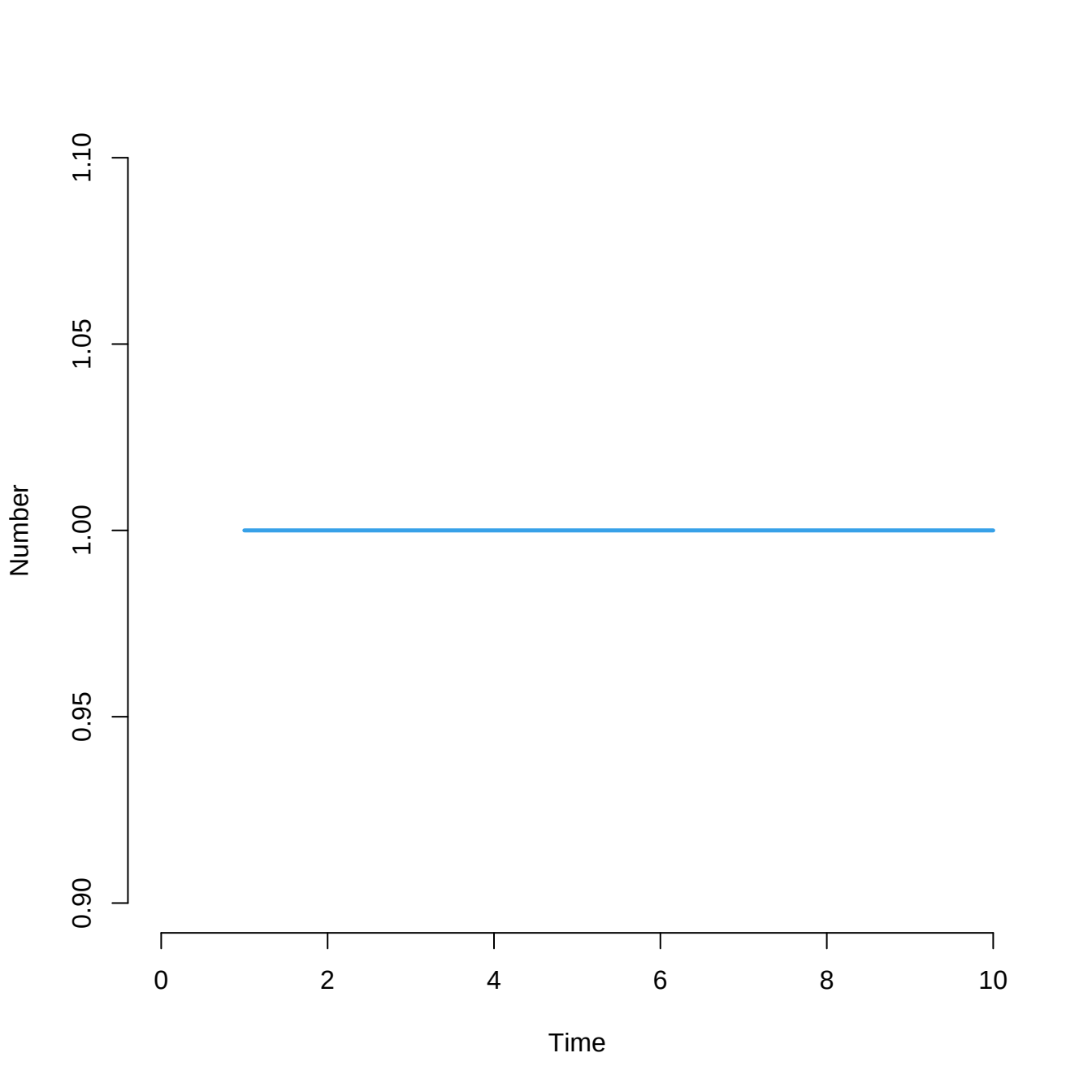
10
Time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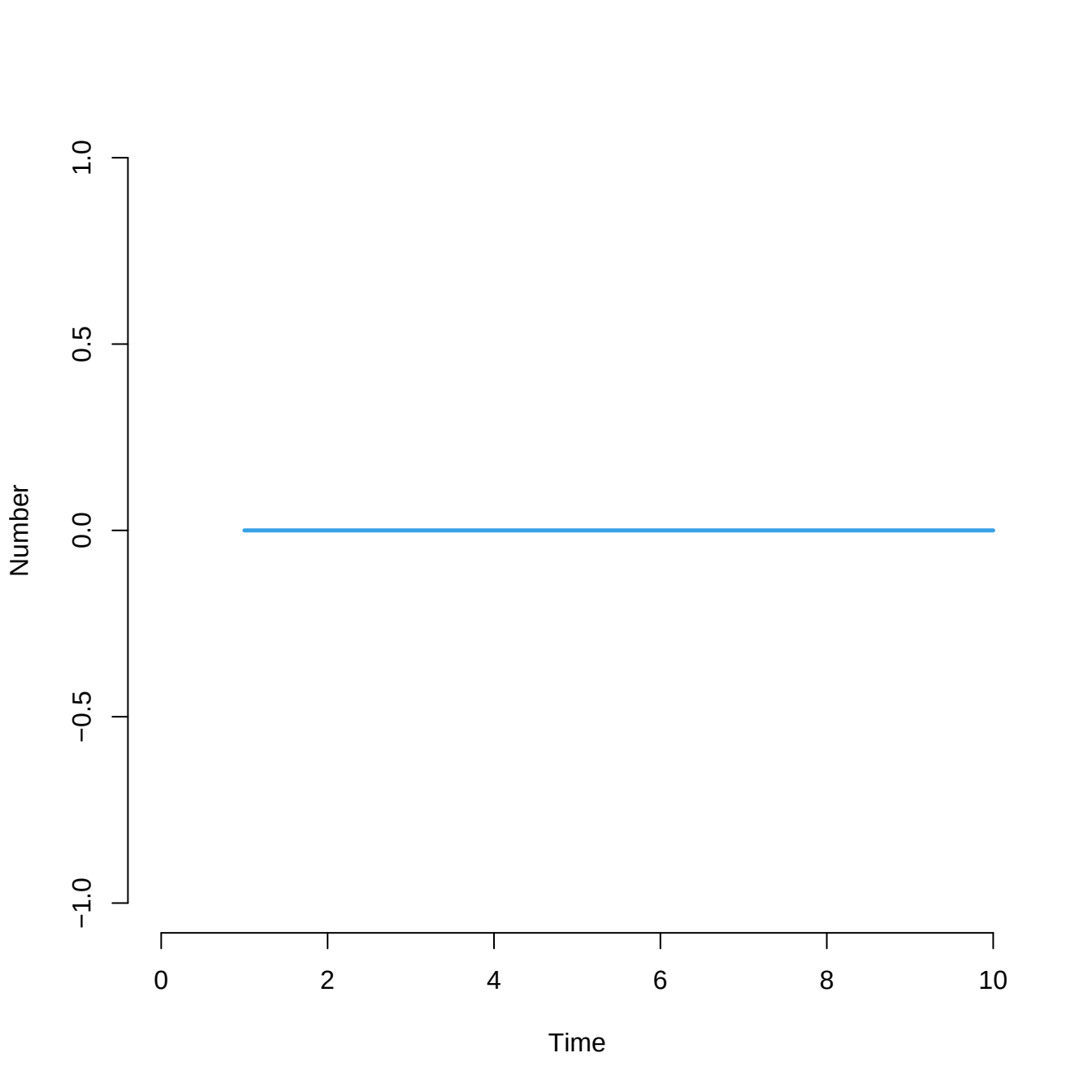
Time


Number
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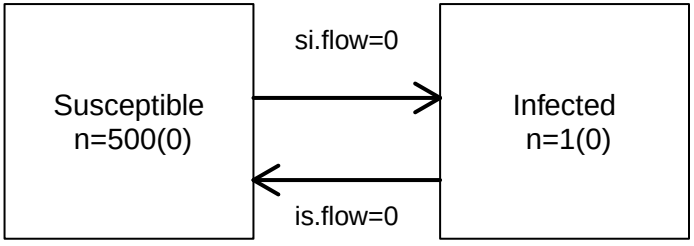
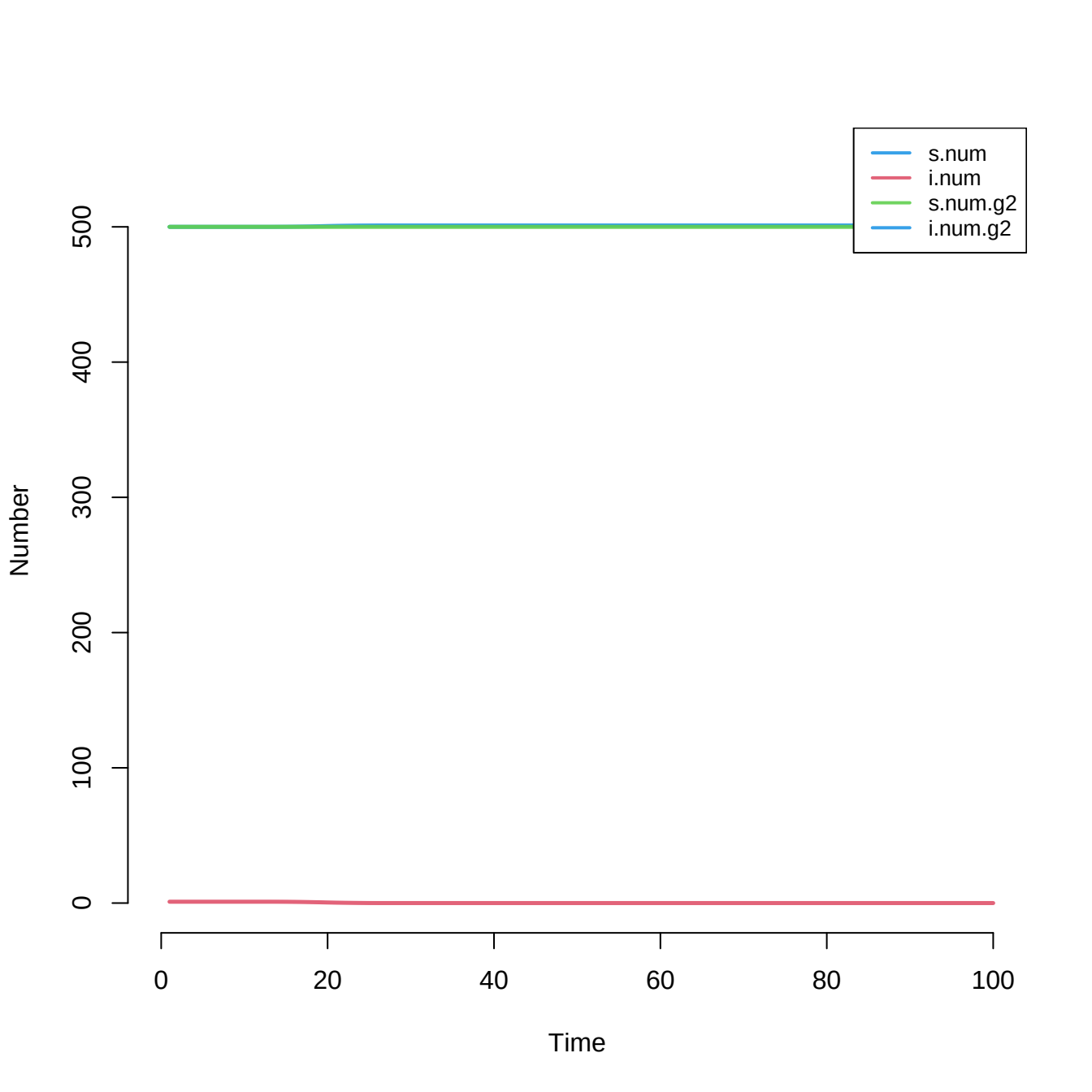
0
2
4
6
8
10
Time

SIS Model Diagram

Simulation means(sd) | time=10




s.num
i.num
s.num.g2
i.num.g2
Number
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200
300
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60
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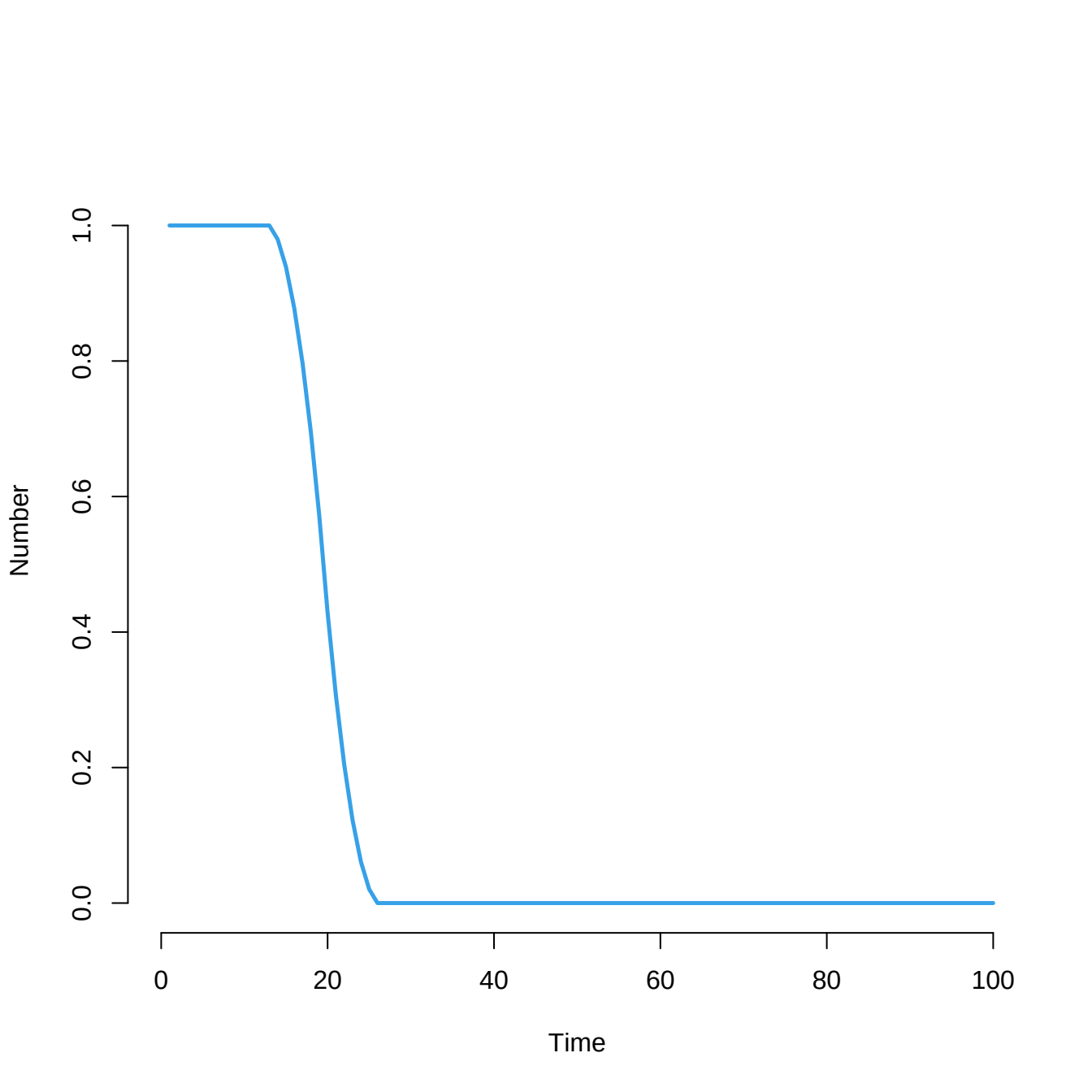
100
Time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60
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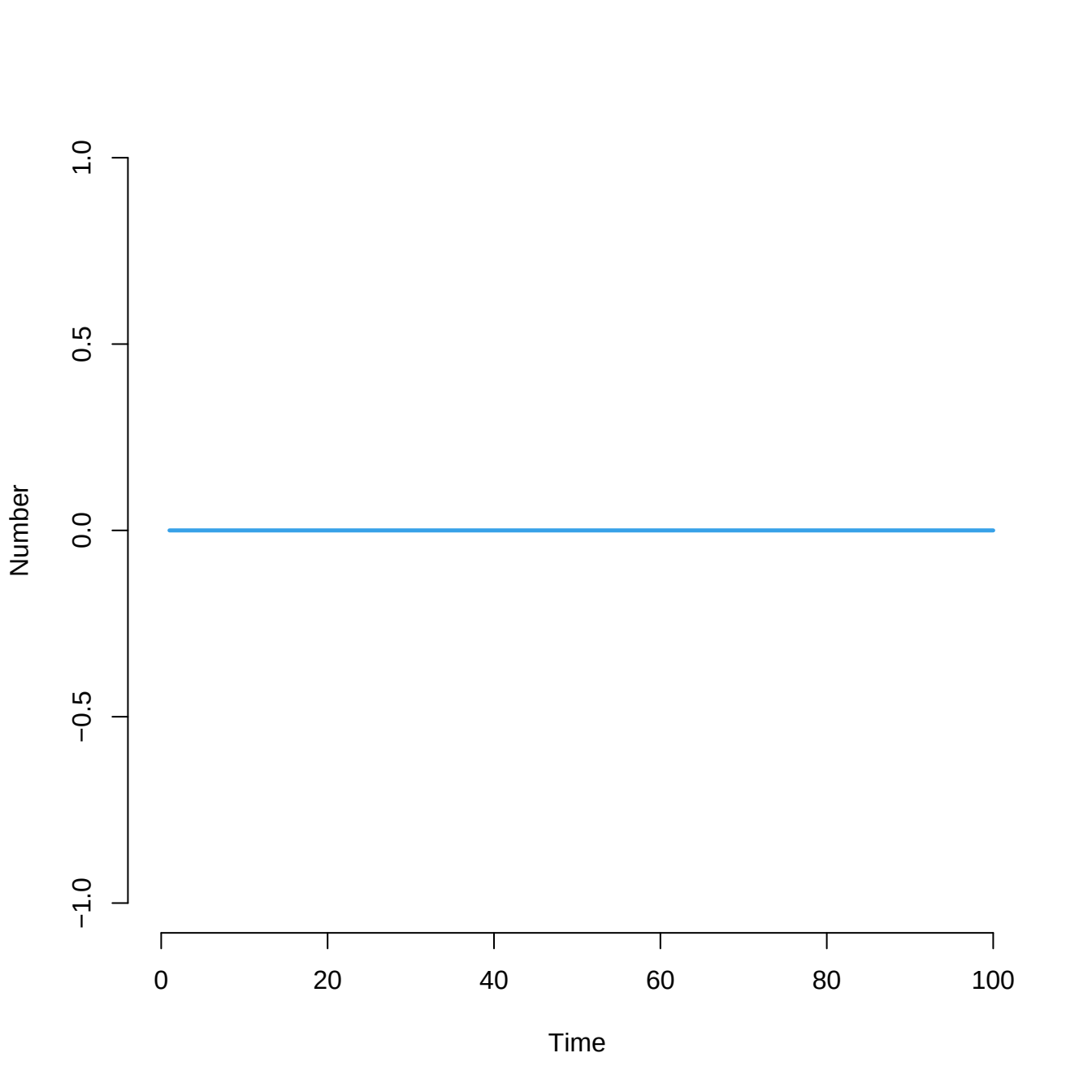
100
Time


Number
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40
60
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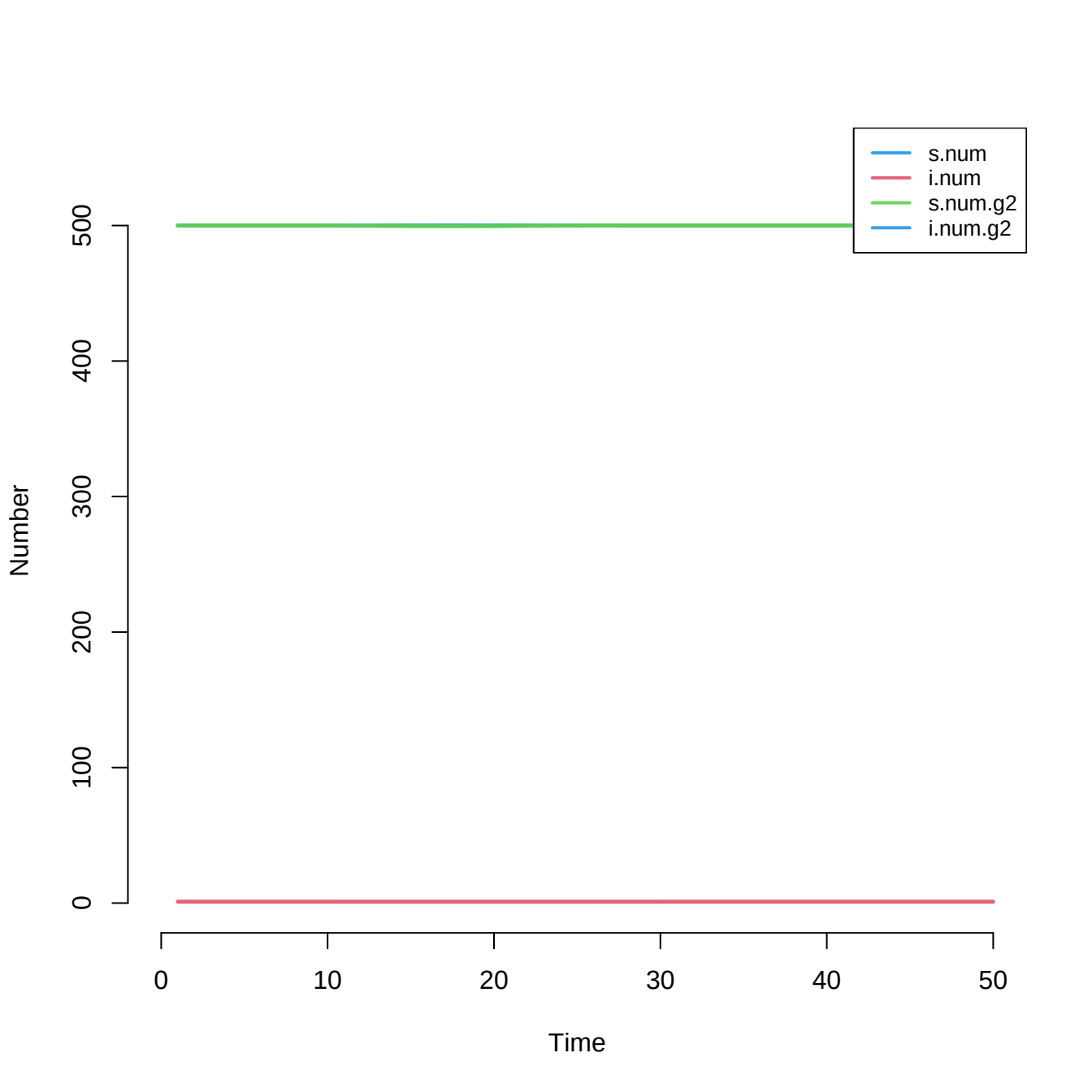
100
Time


s.num
i.num
s.num.g2
i.num.g2
Number
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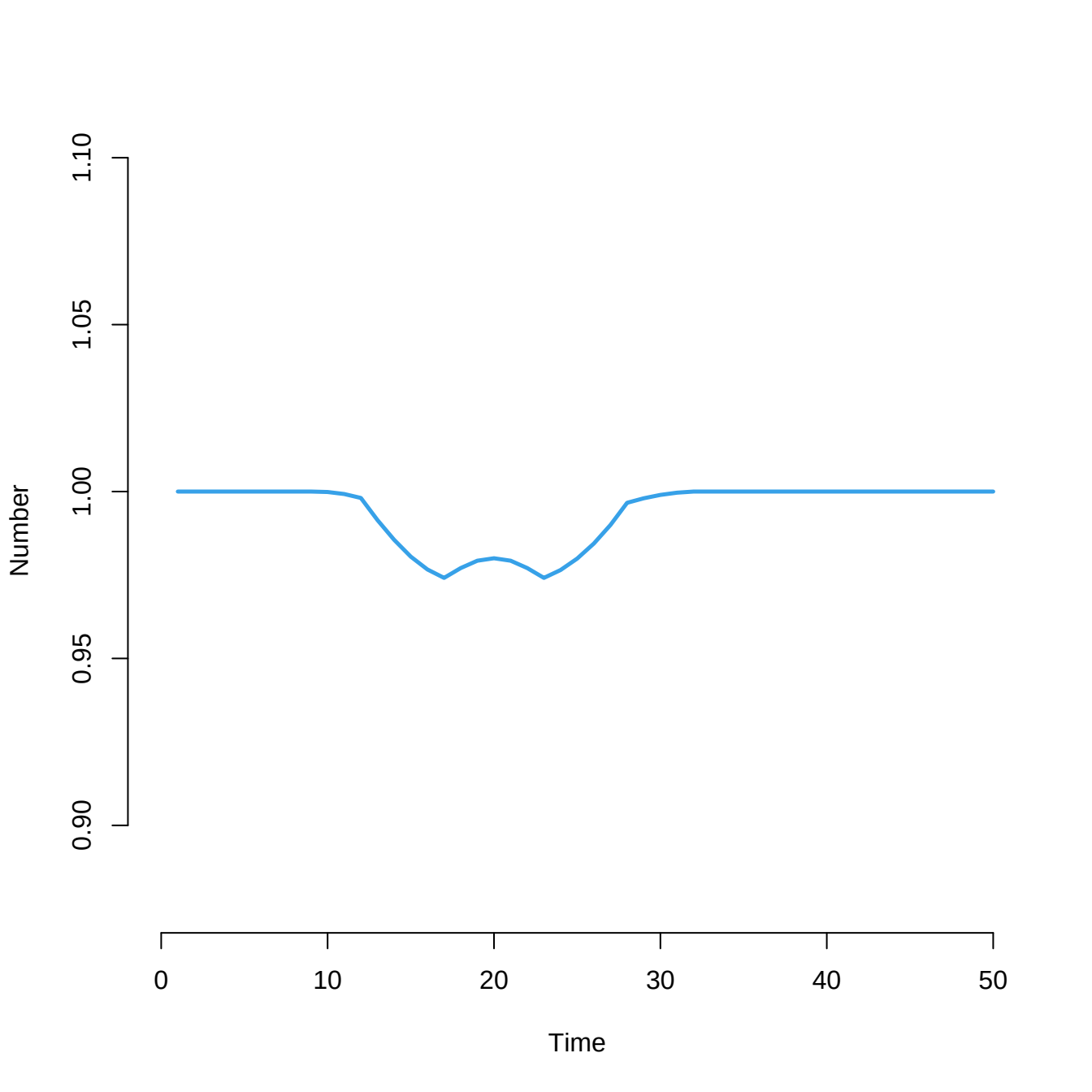
10
20
30
40
50
Time


Number
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30
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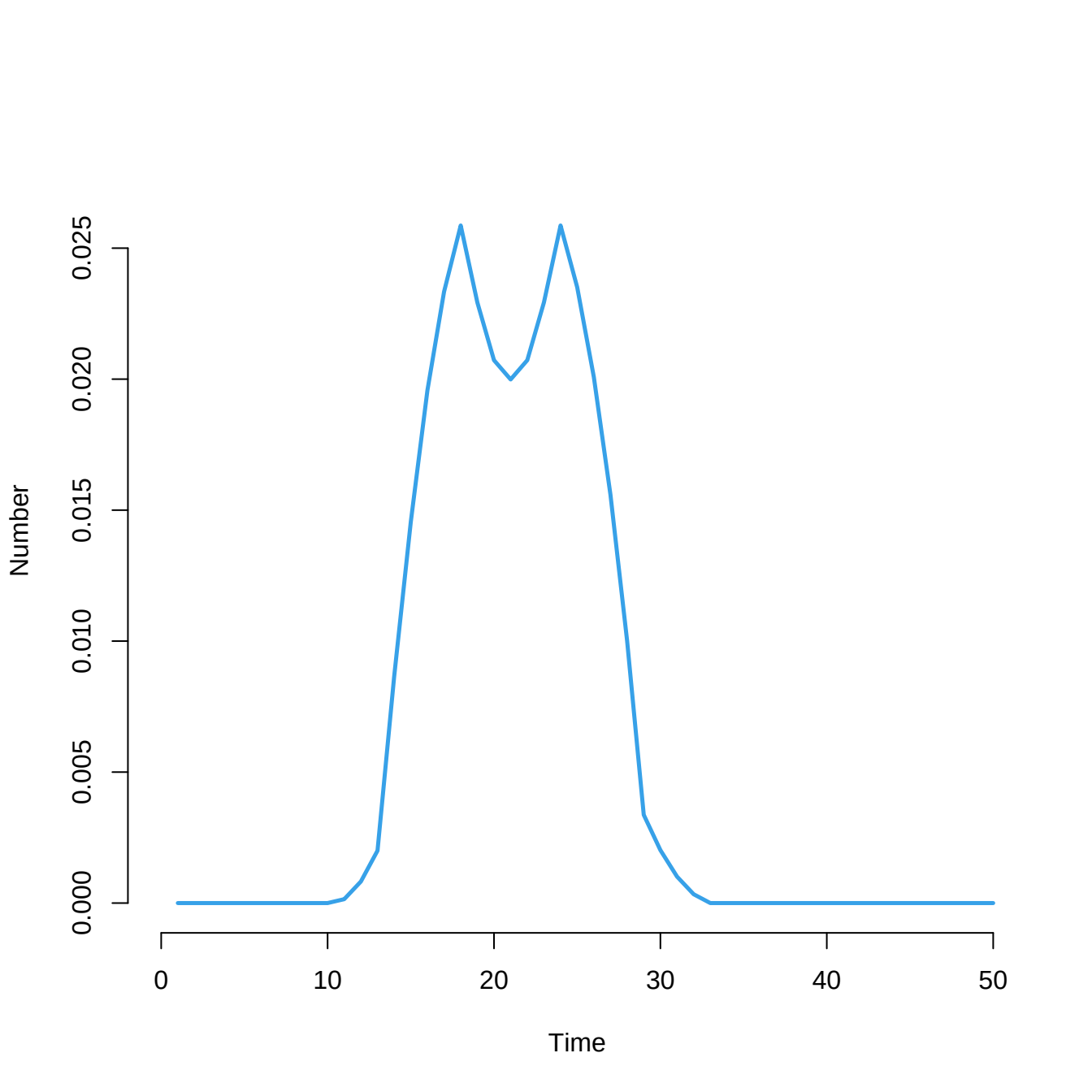
Time


Number
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0.020
0.025
0
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30
40
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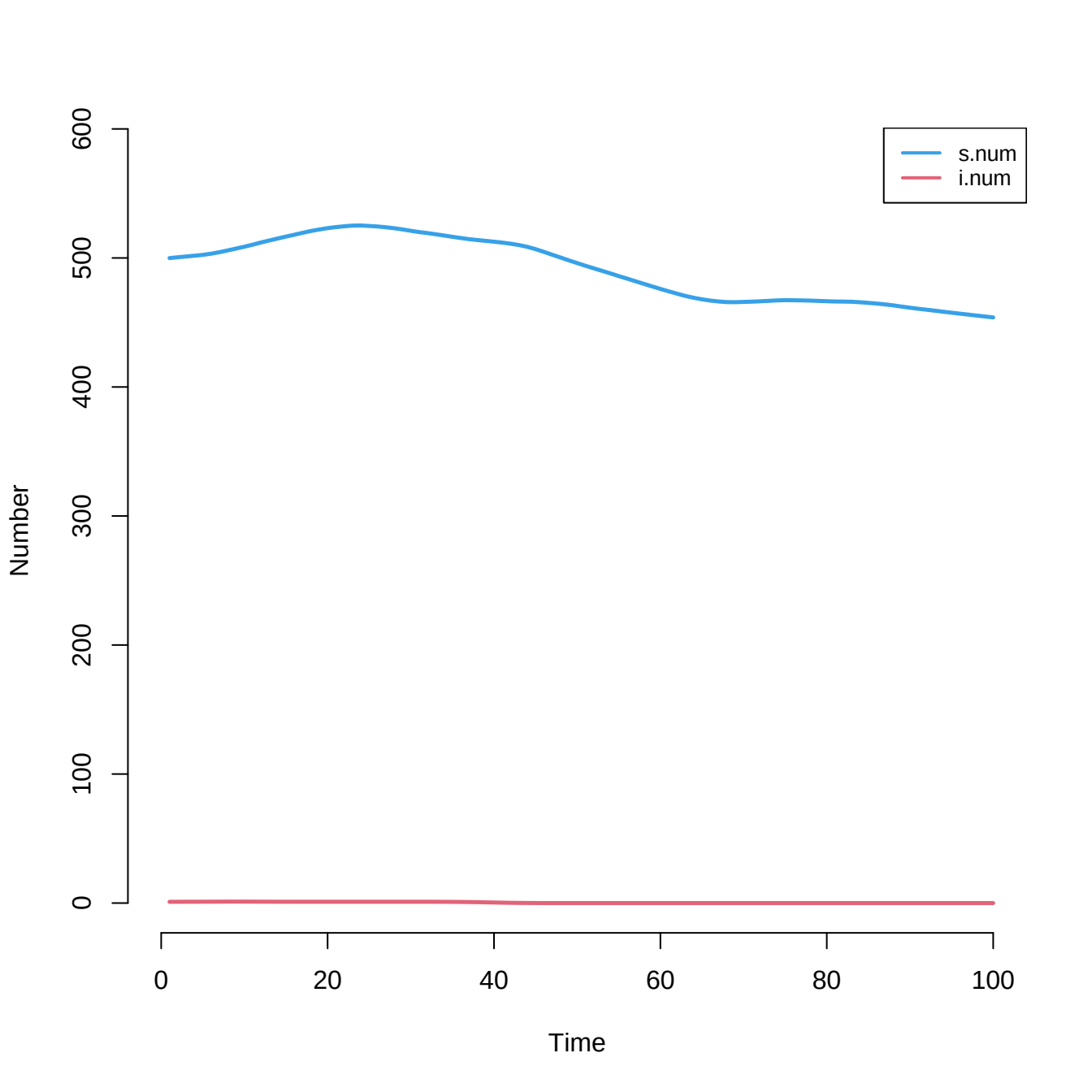
Time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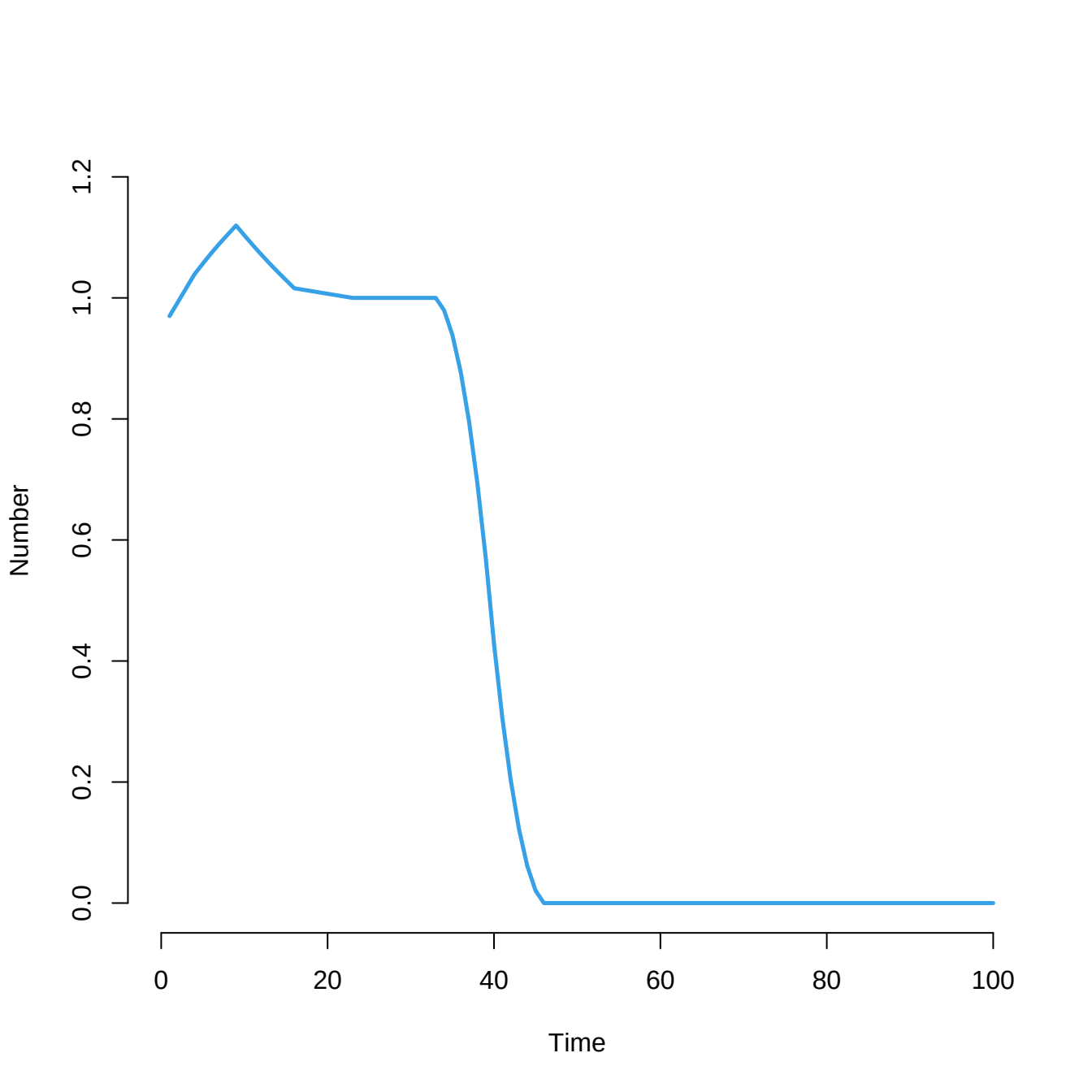
Time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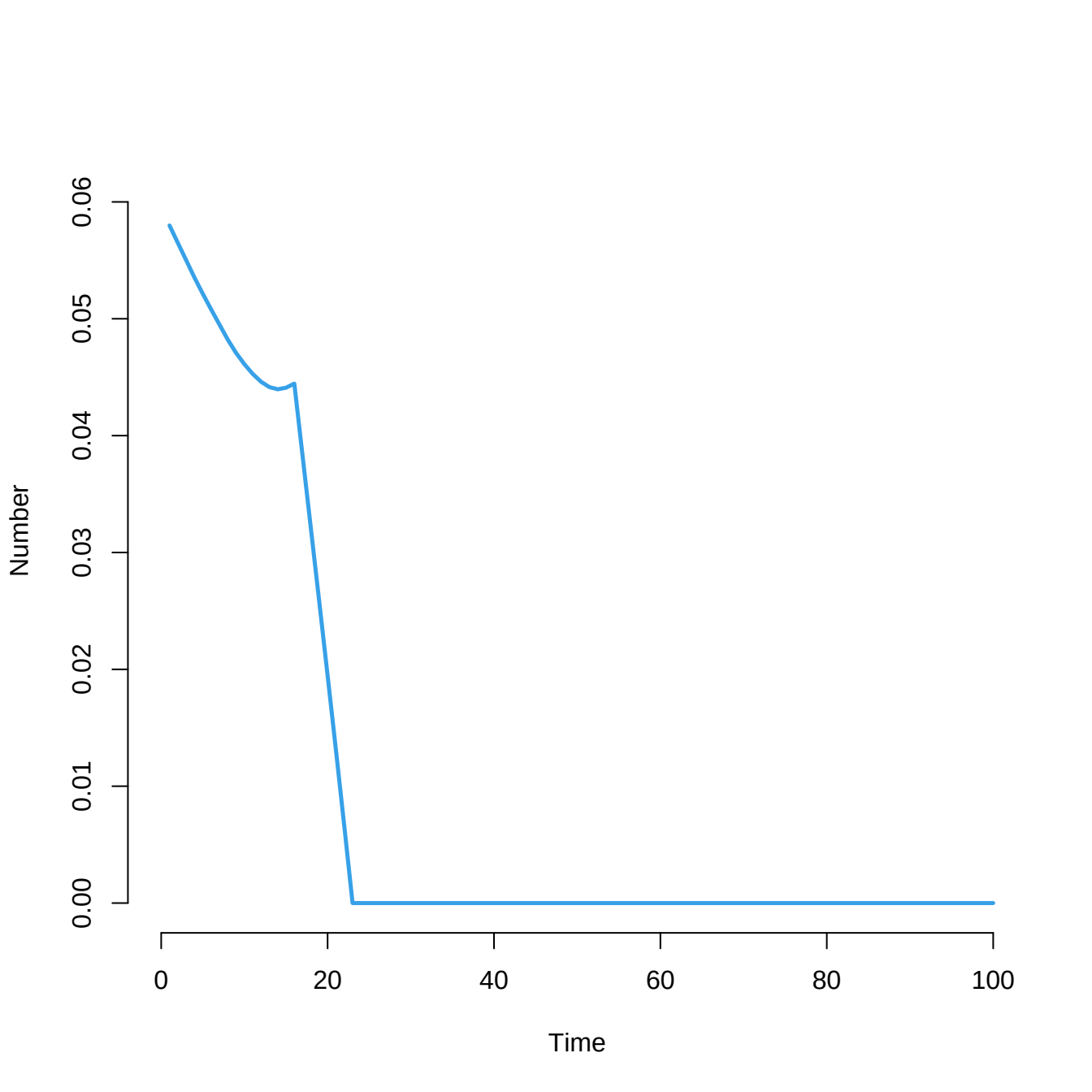
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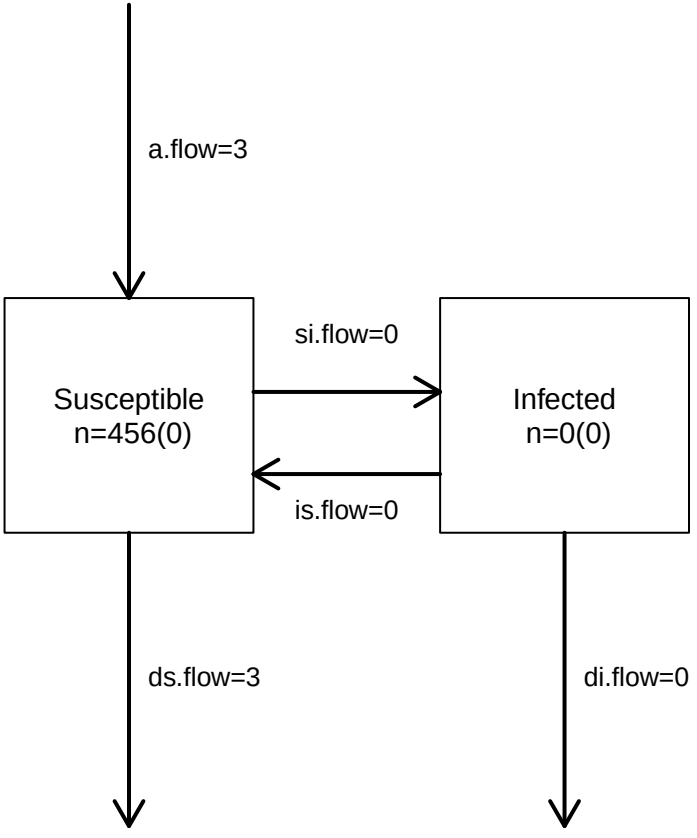
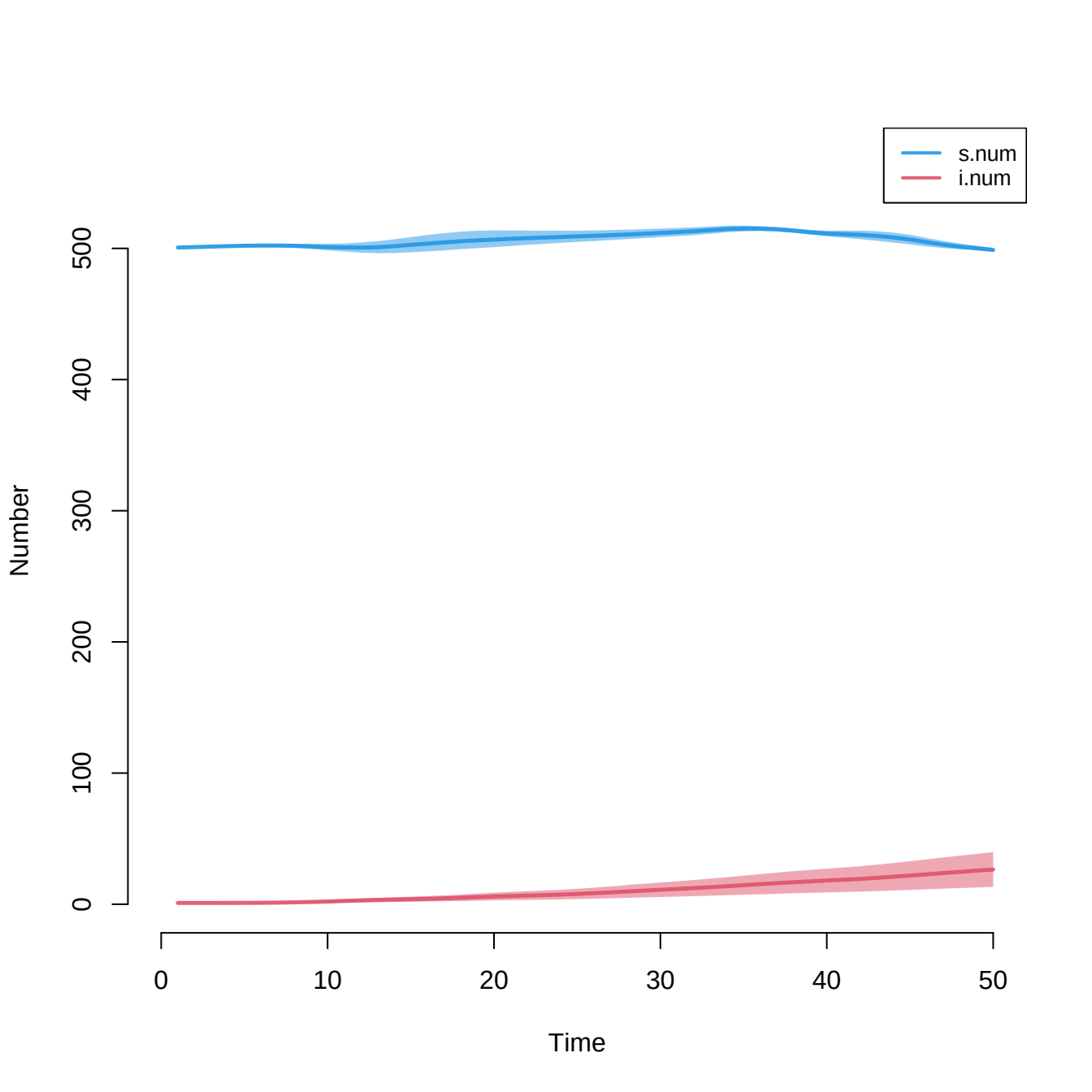
Time

SIS Model Diagram

Simulation means(sd) | time=100

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40
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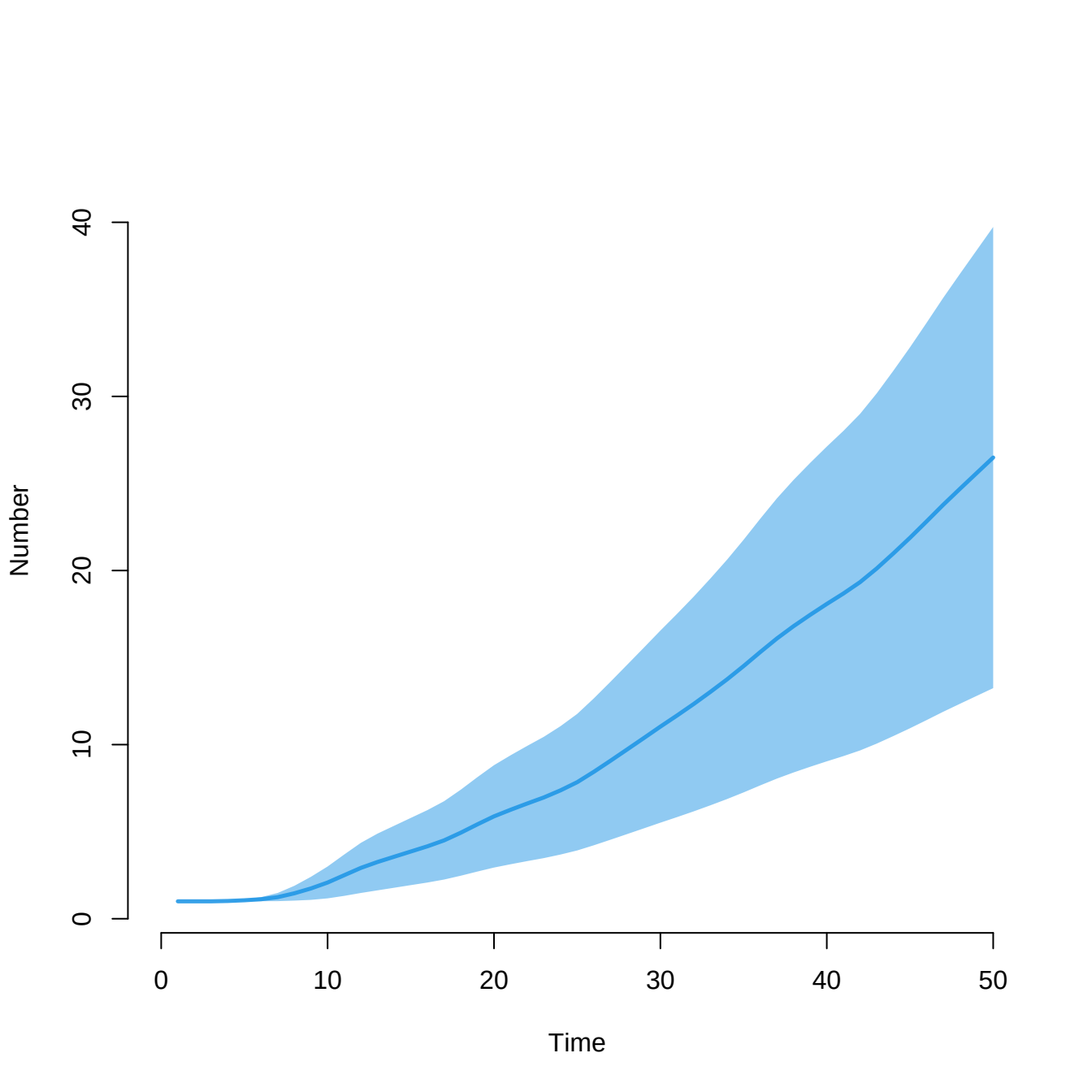
Time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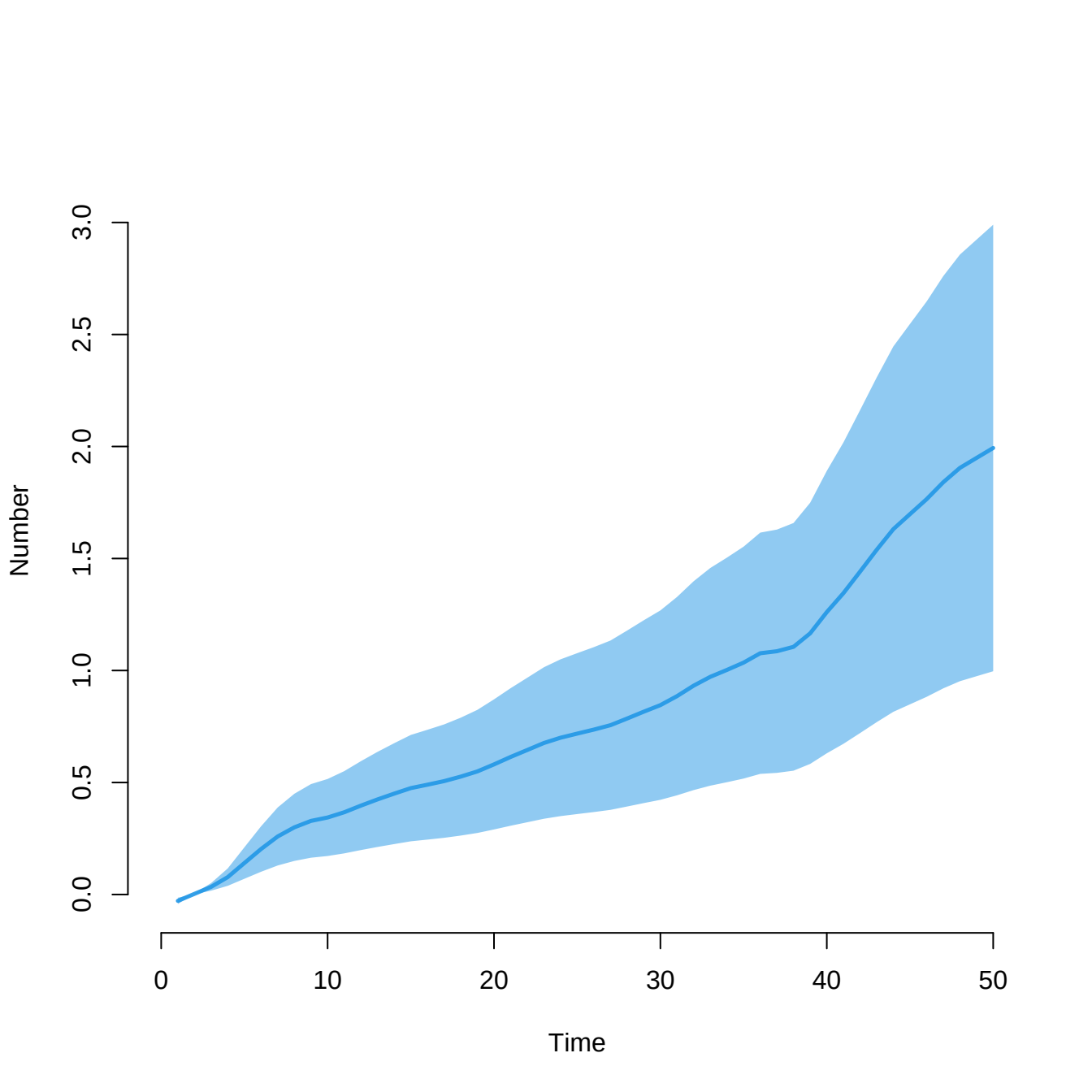
Time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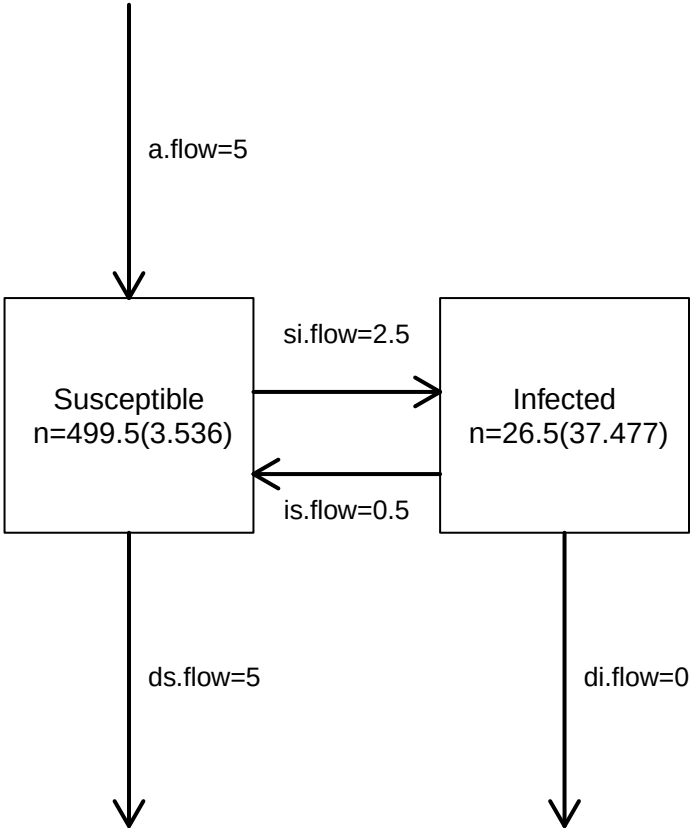
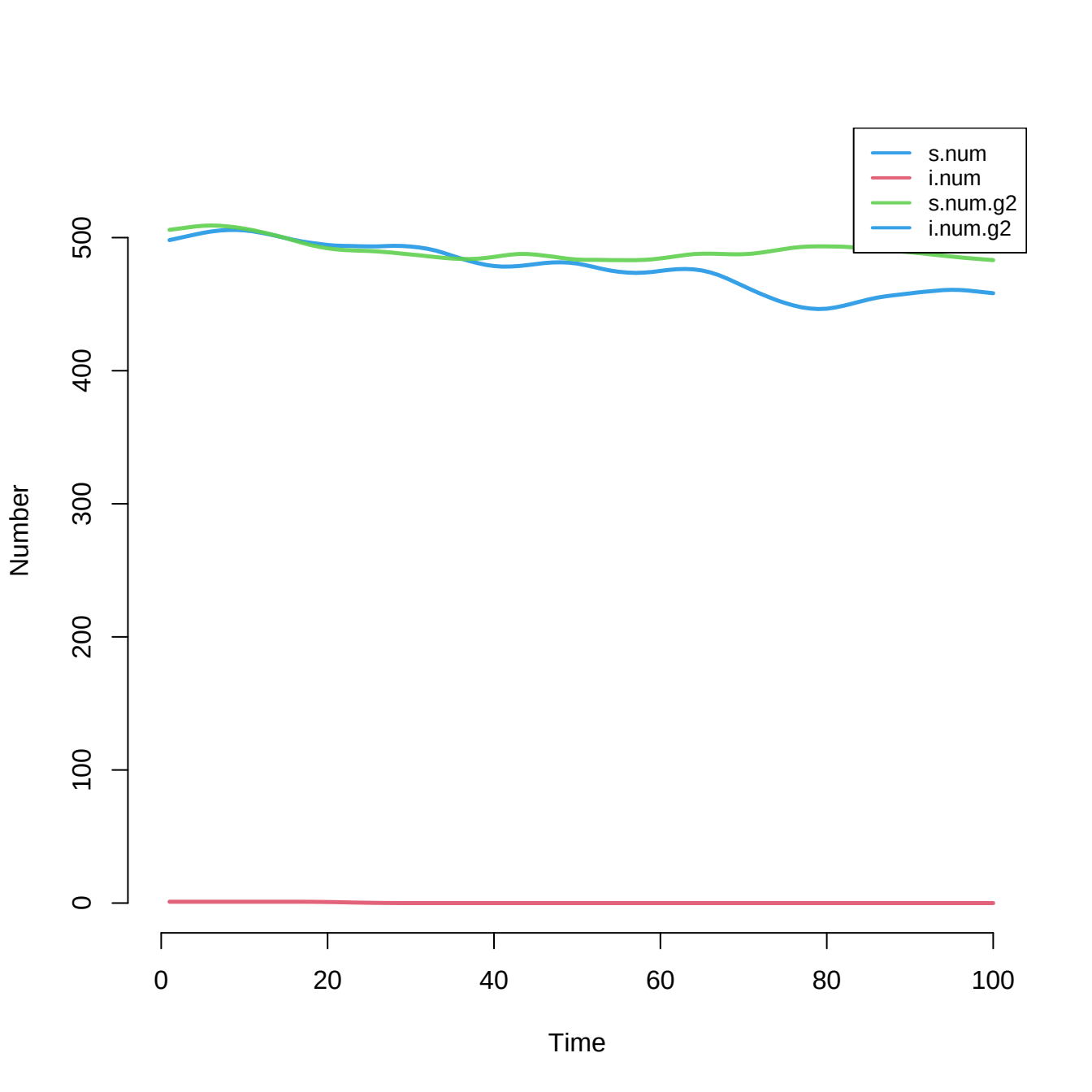
Time

SIS Model Diagram

Simulation means(sd) | time=50

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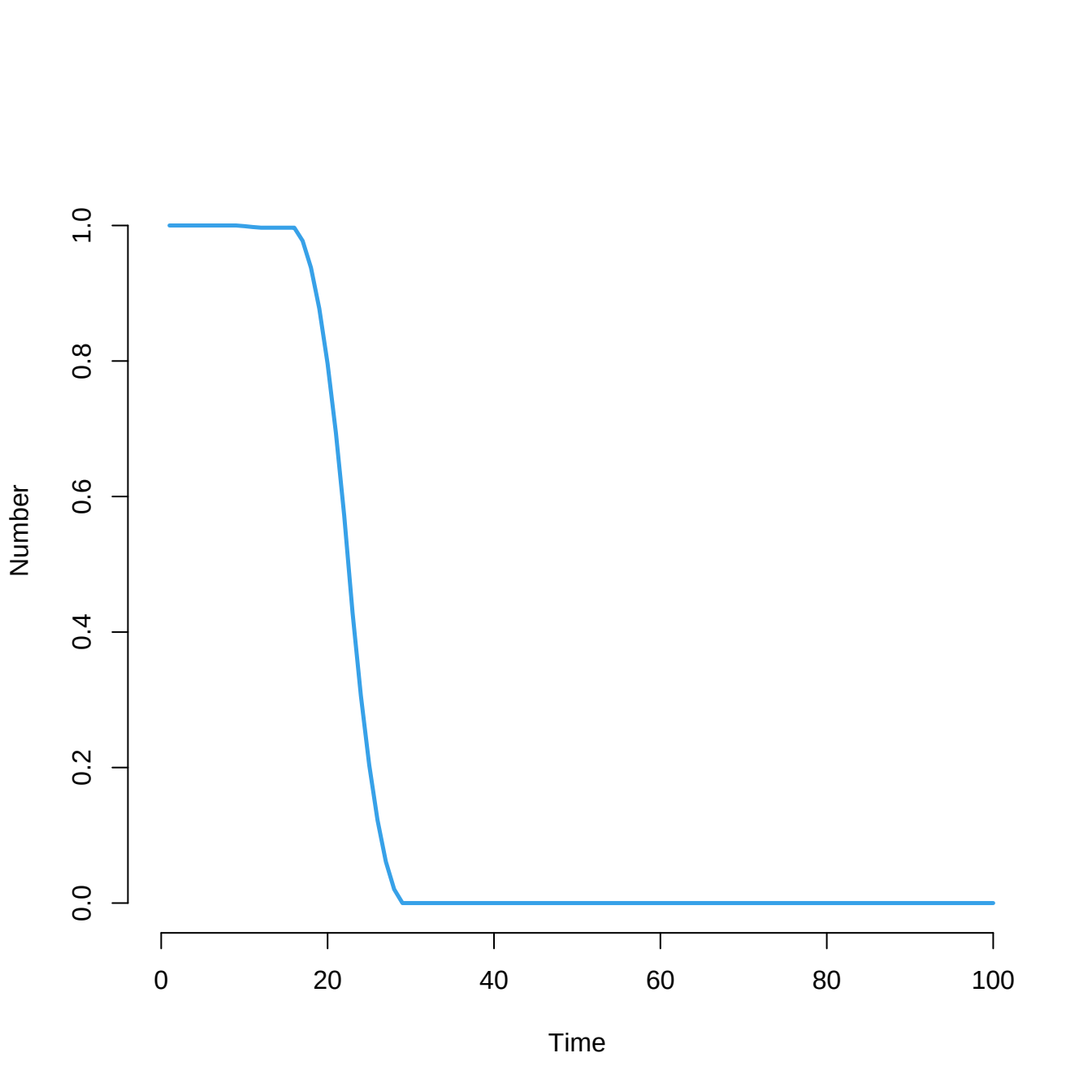
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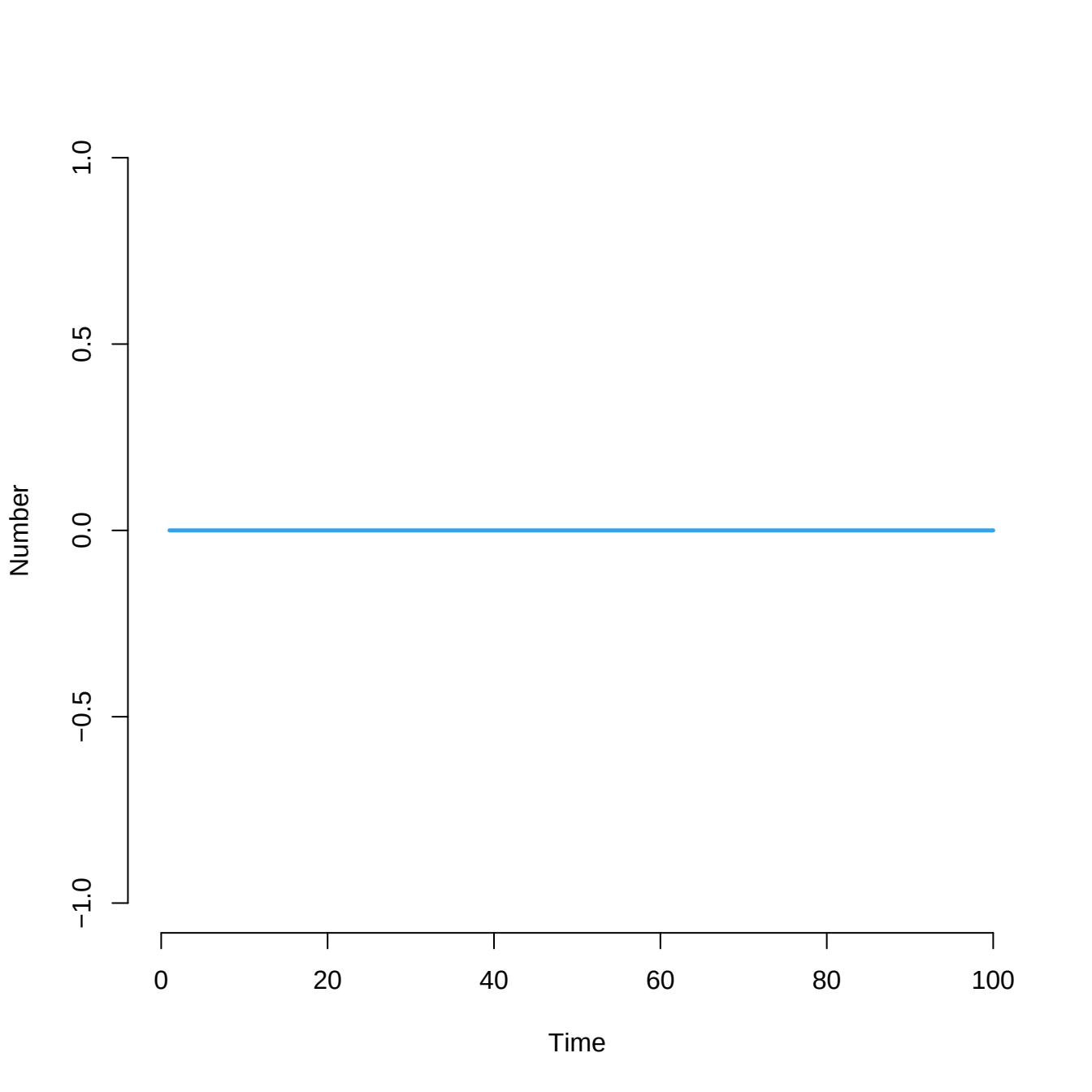
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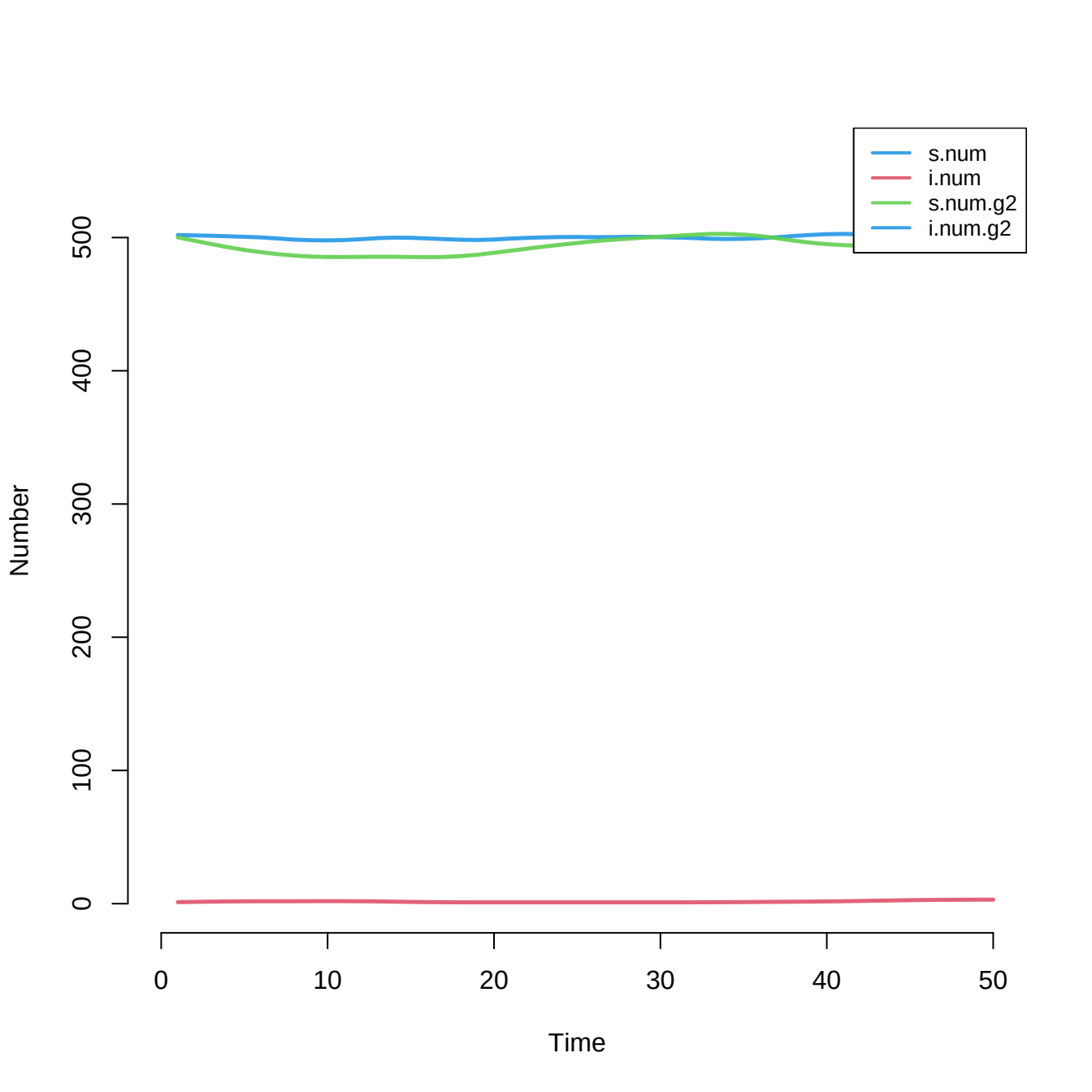
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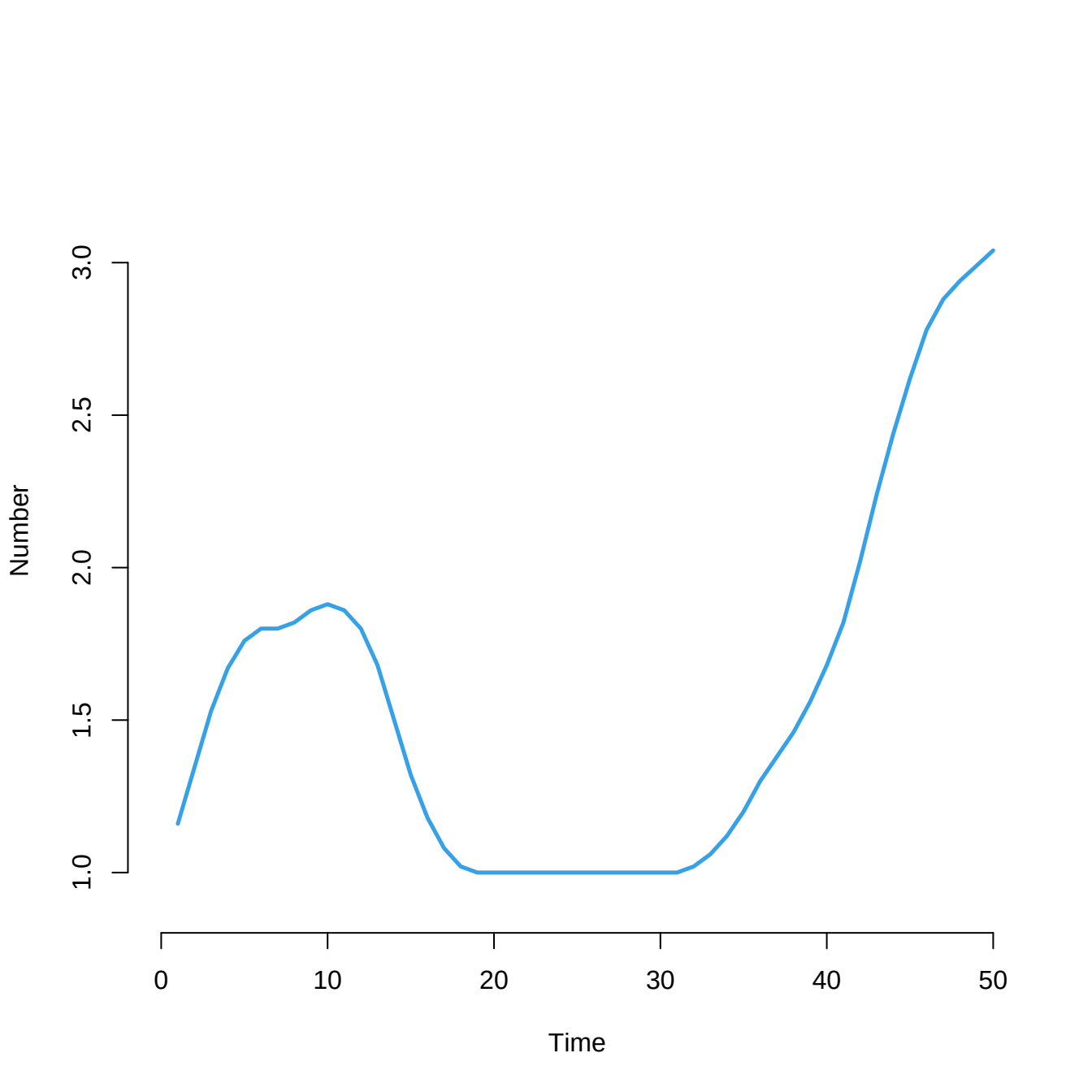
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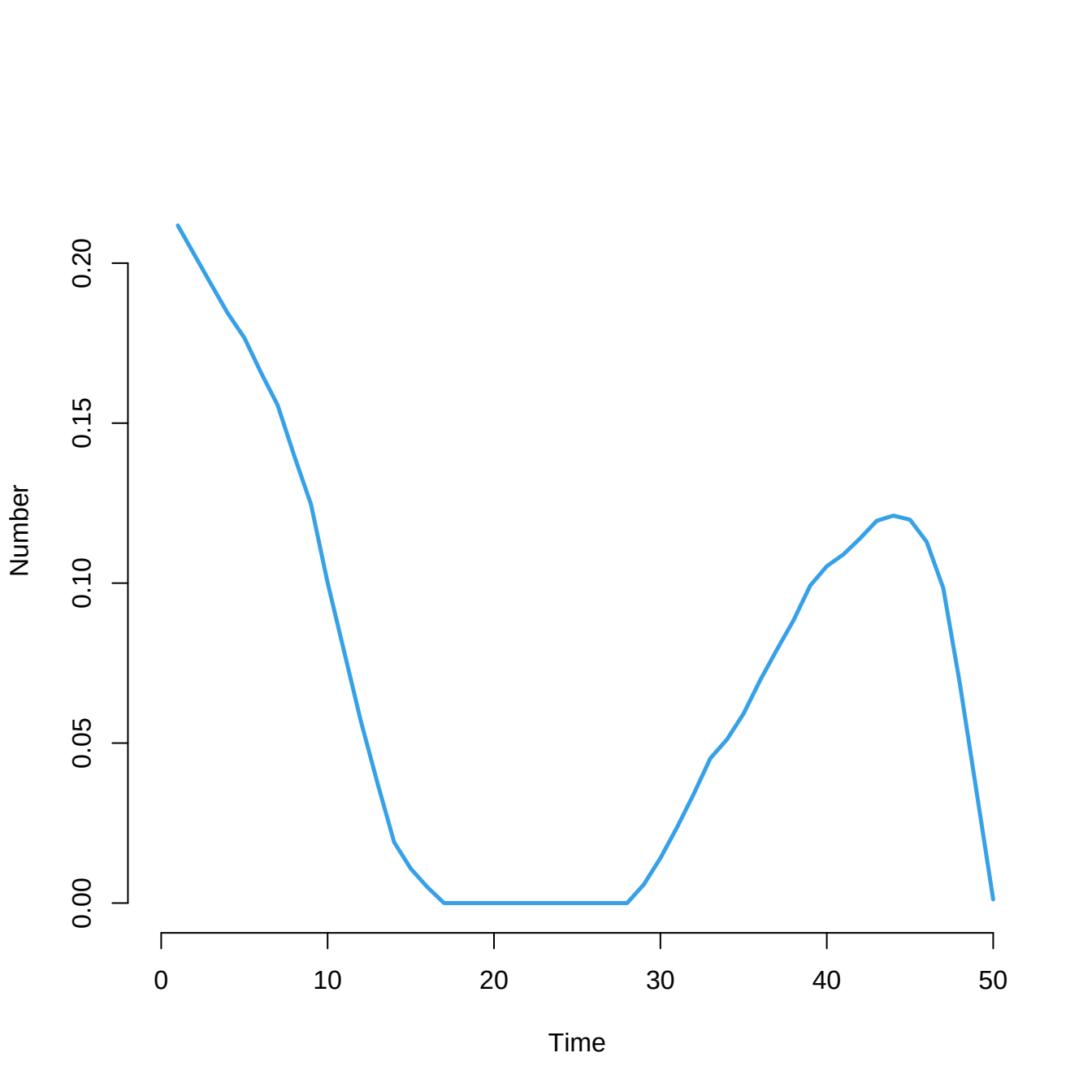
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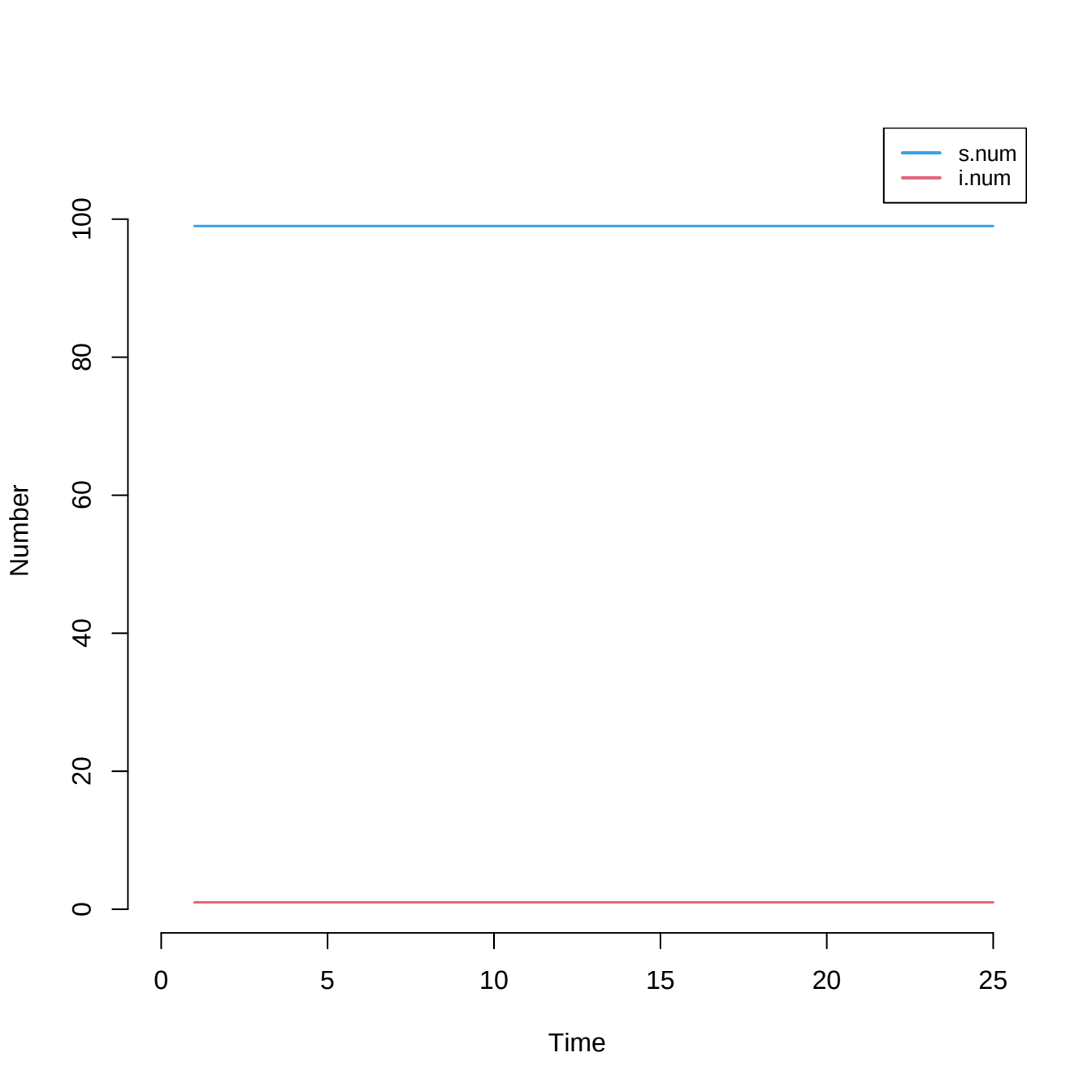
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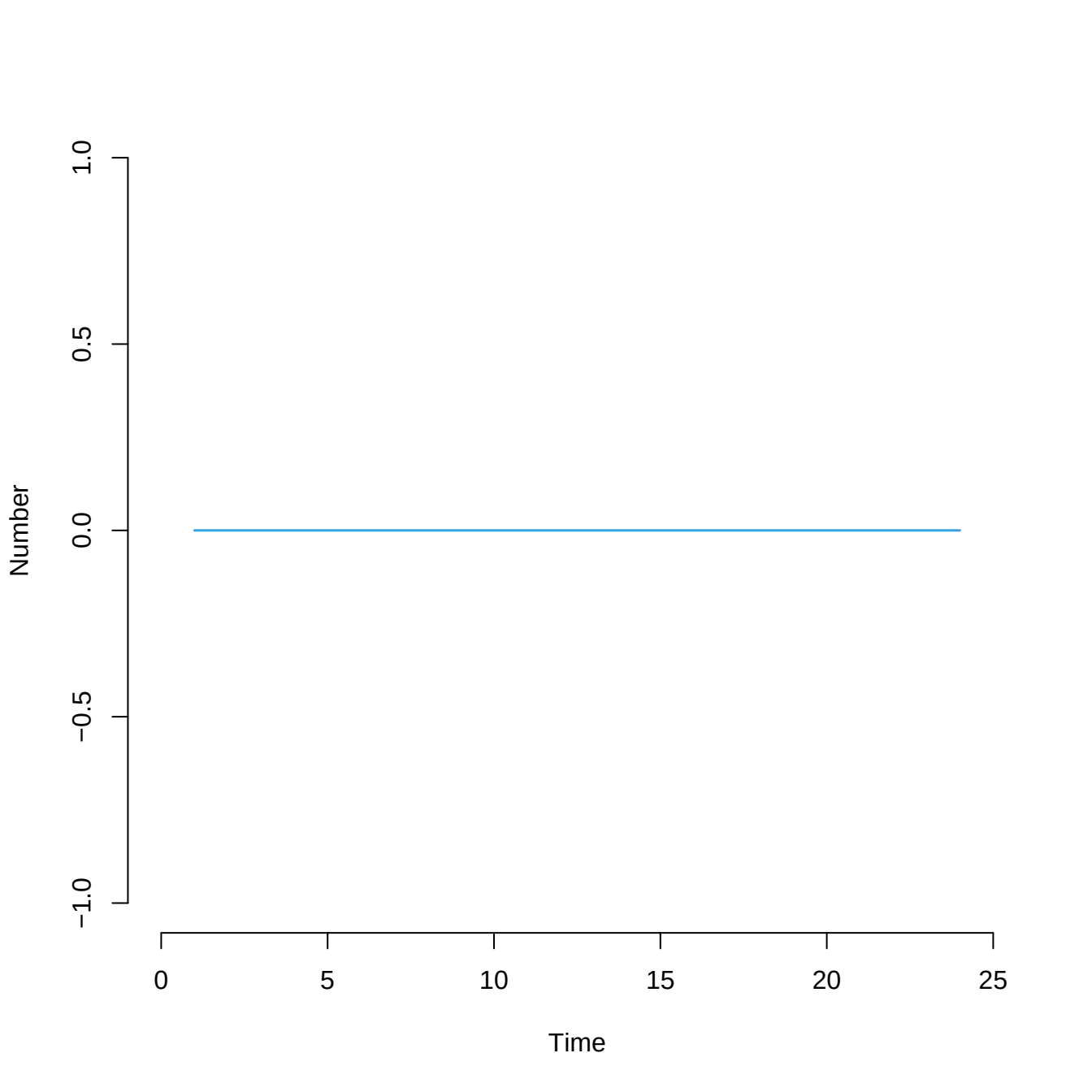
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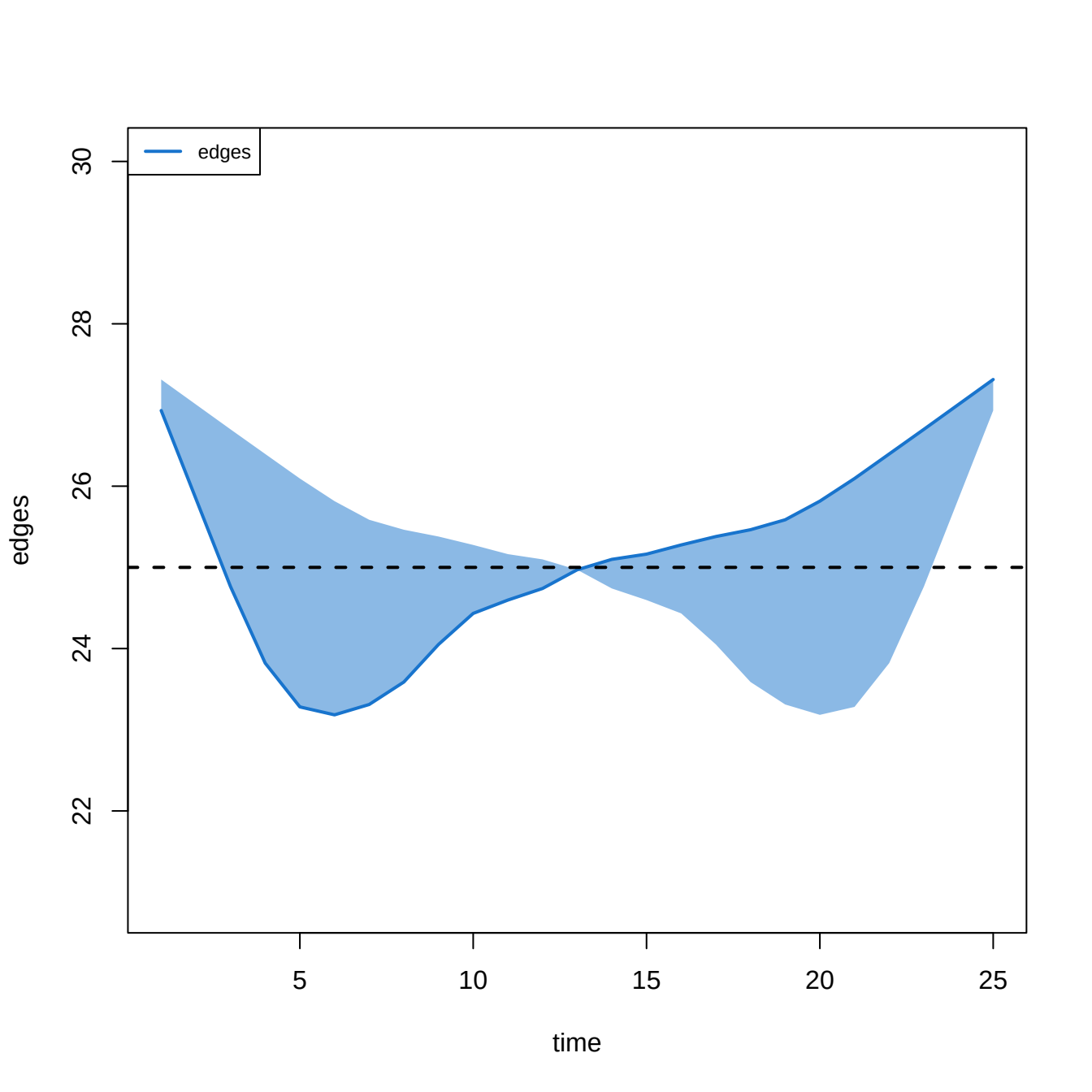
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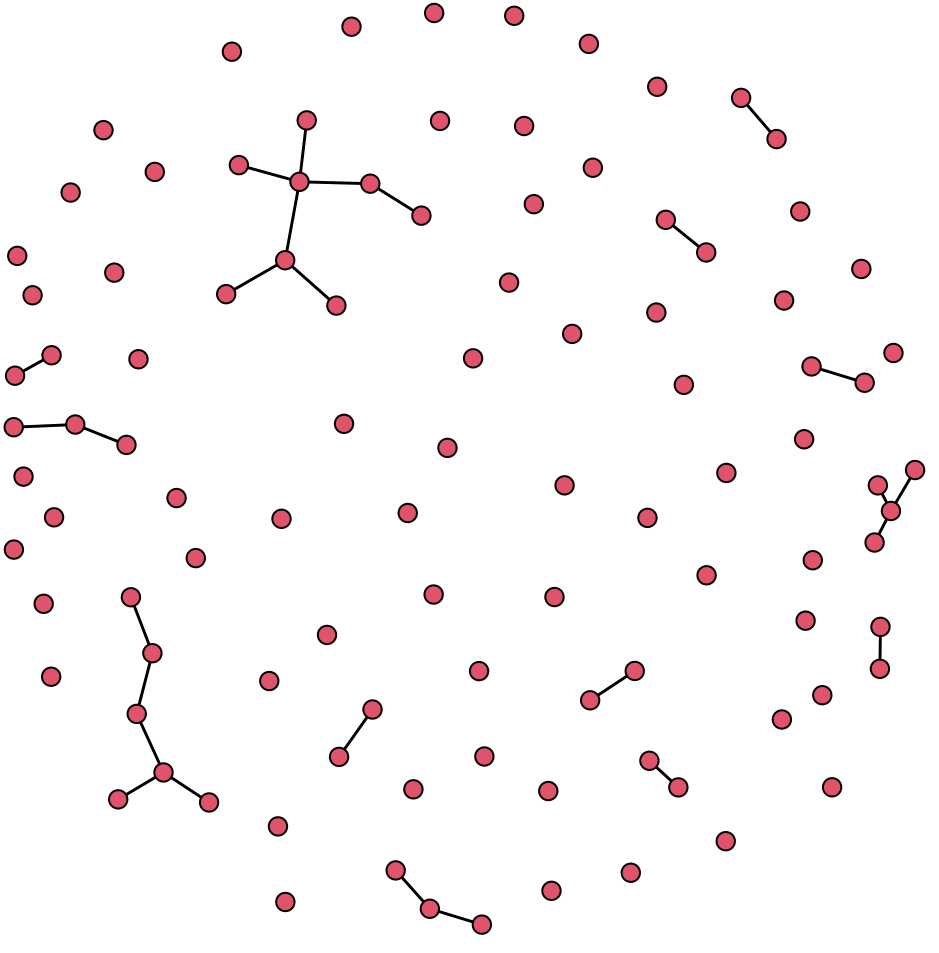

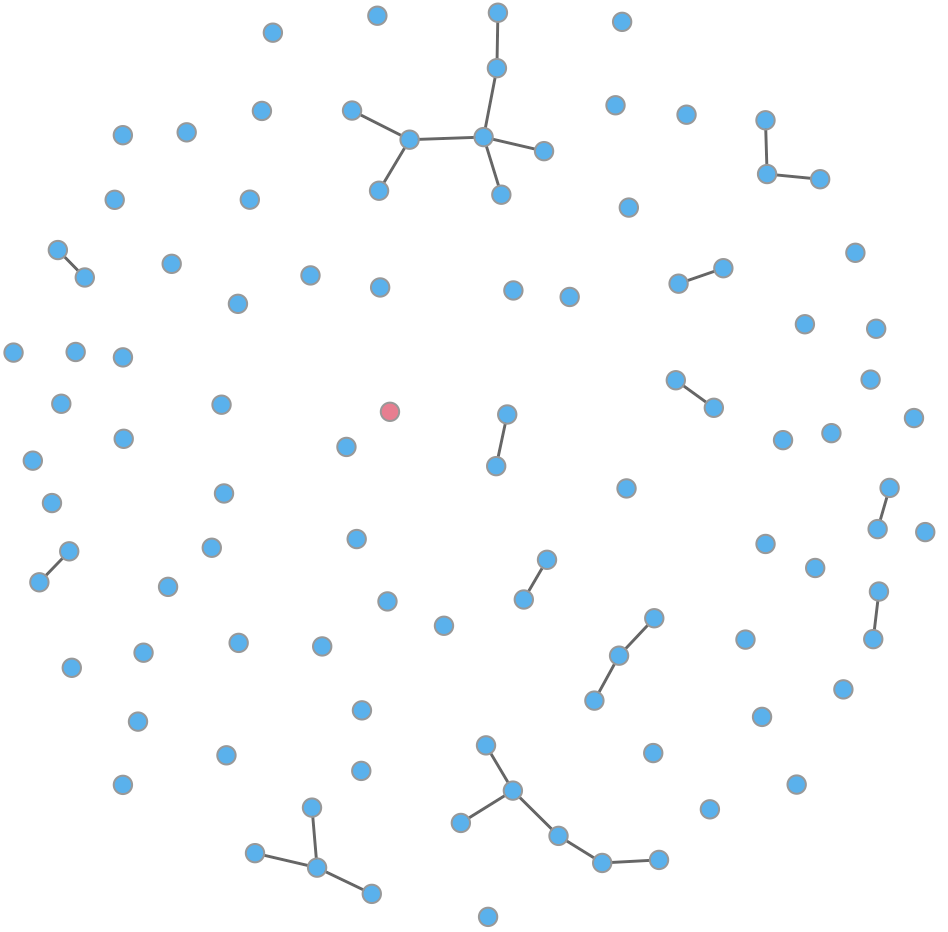

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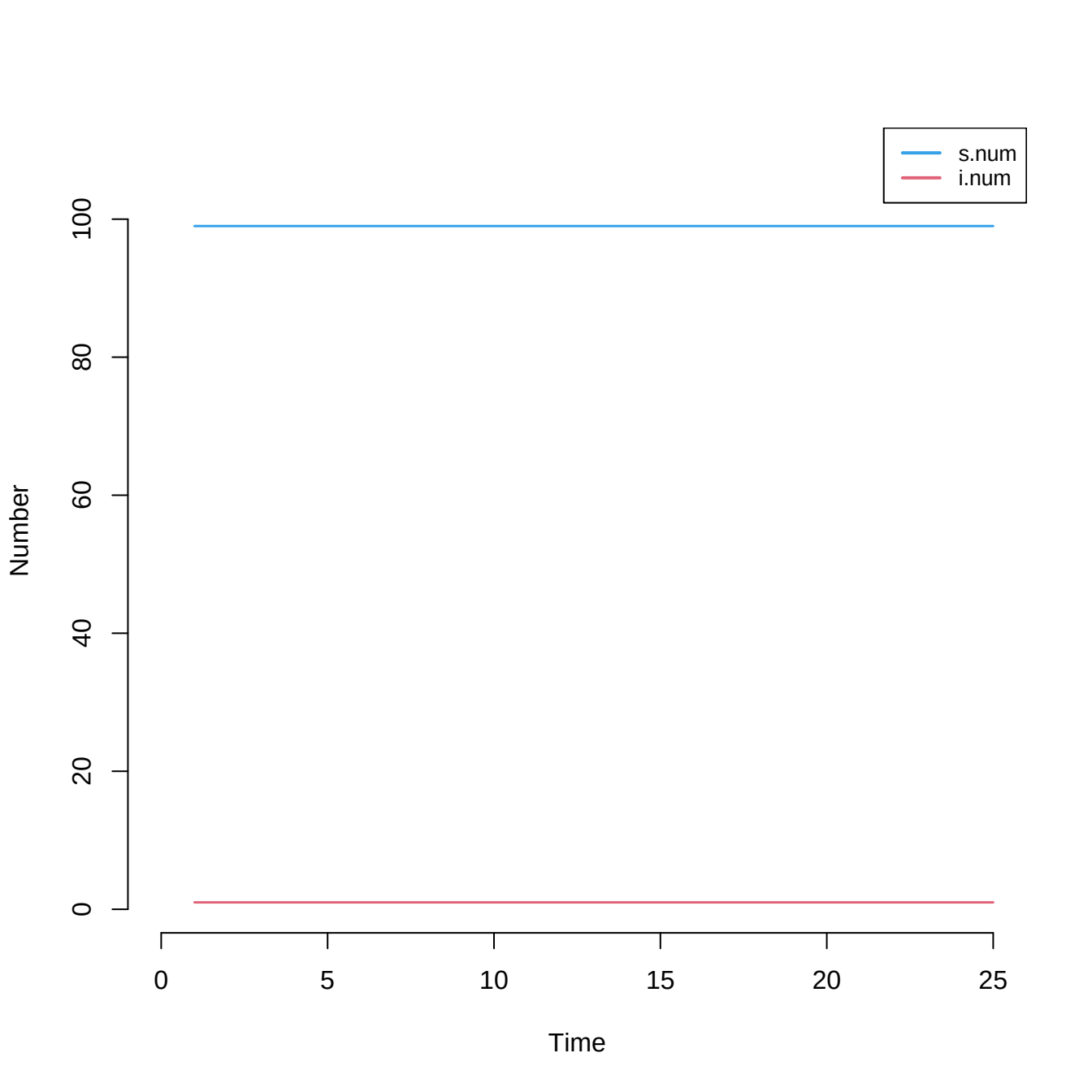
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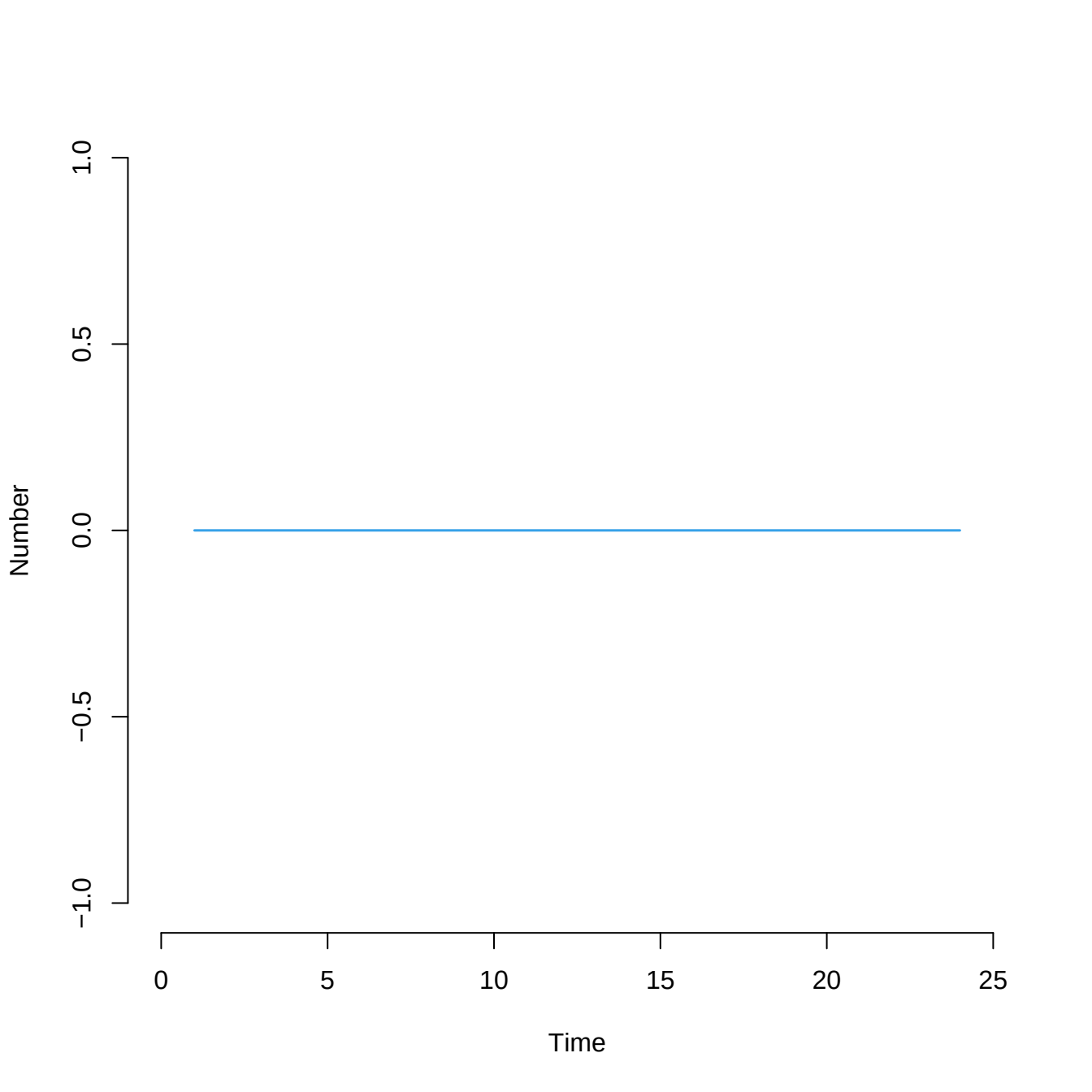
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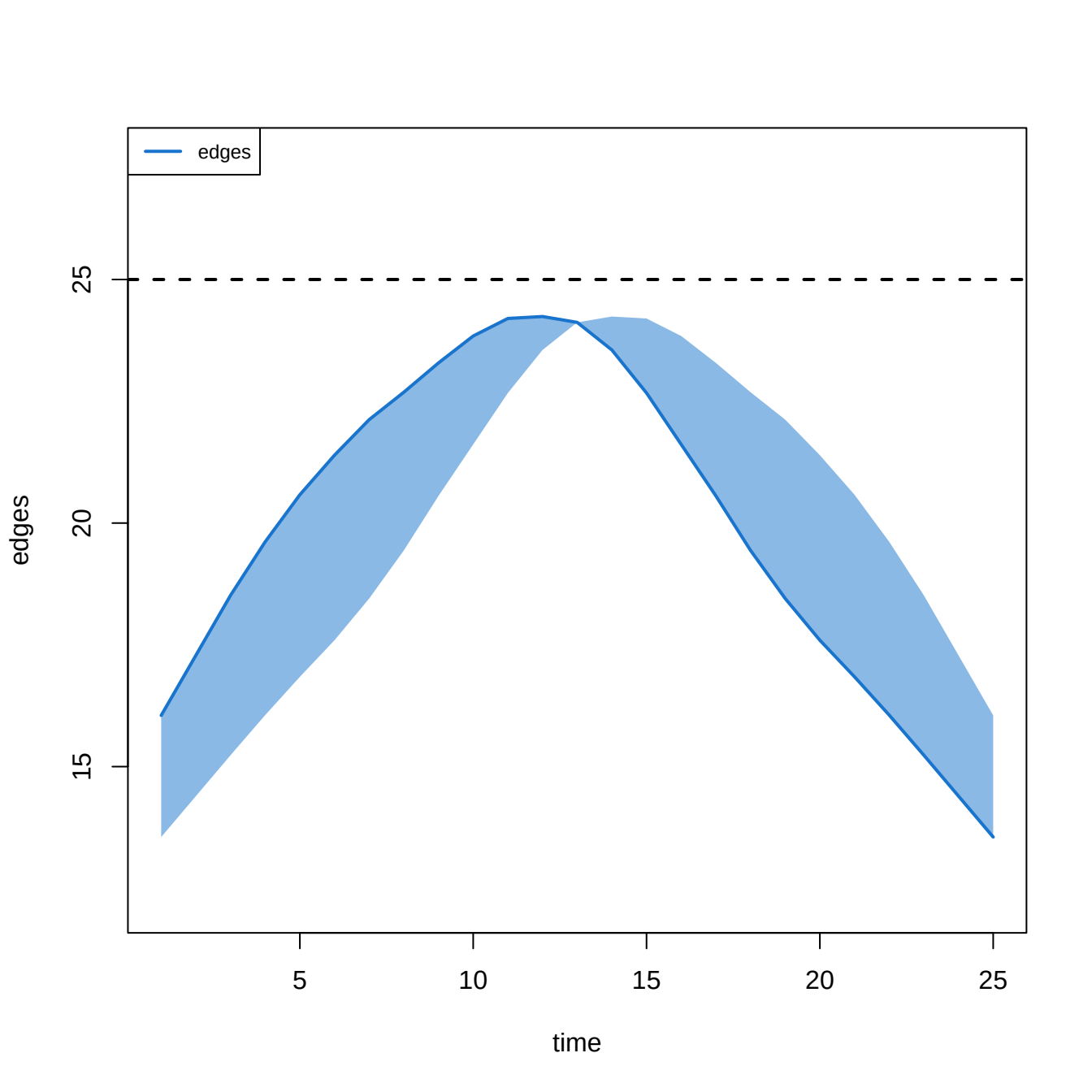
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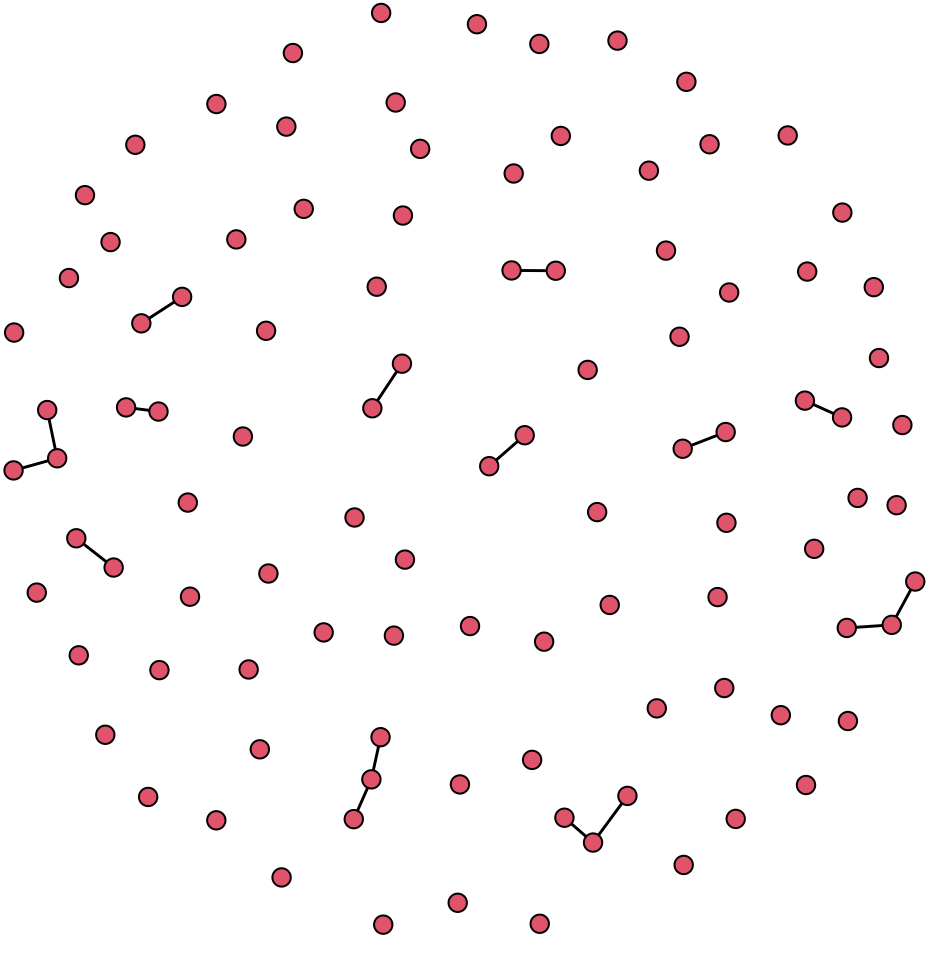

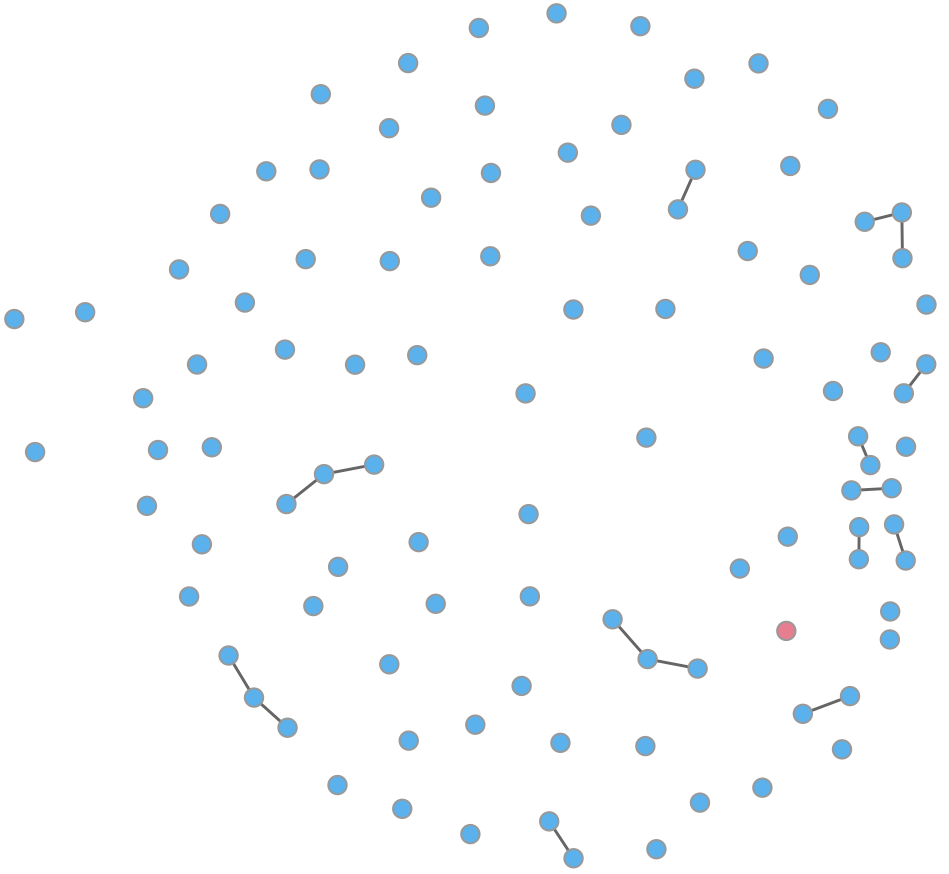
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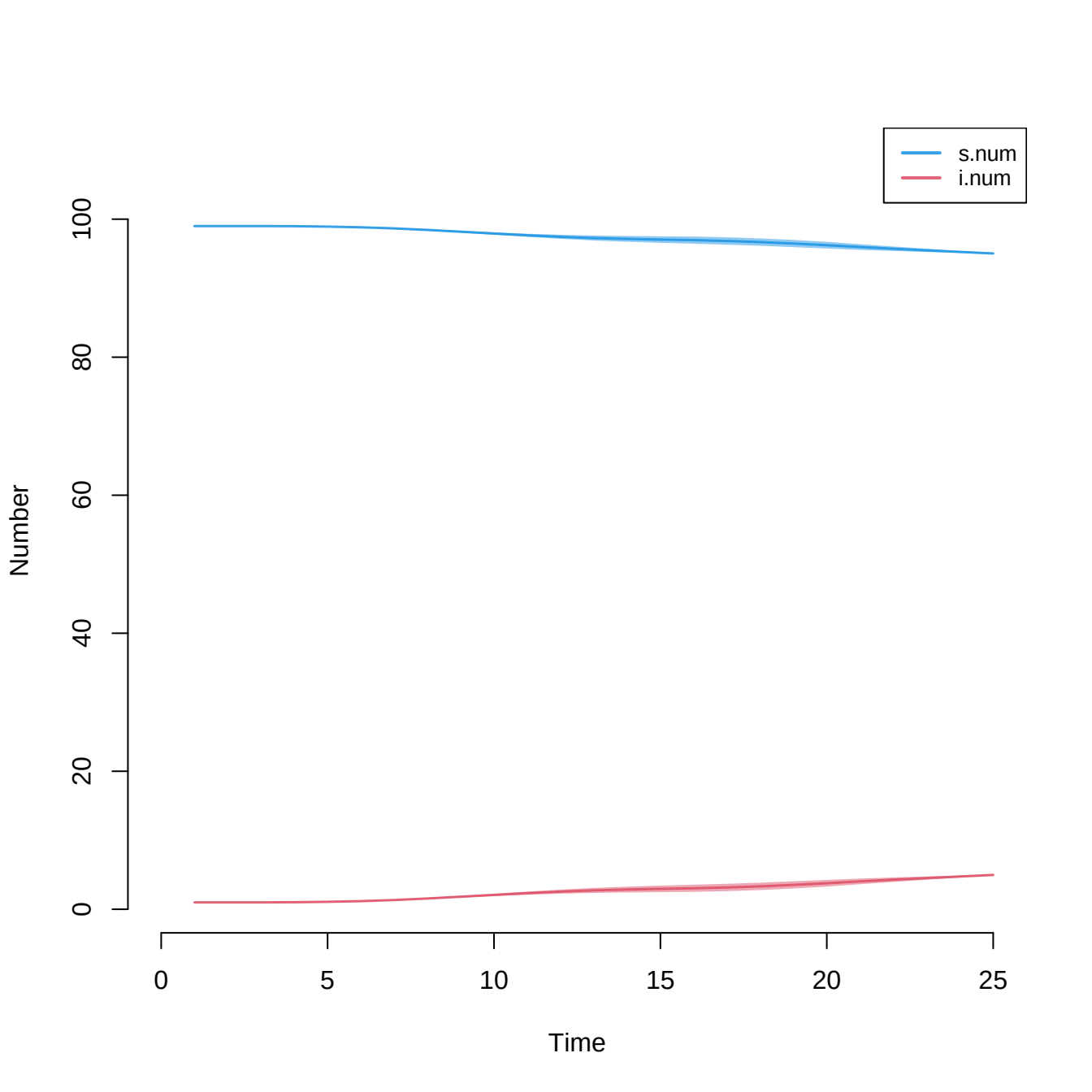
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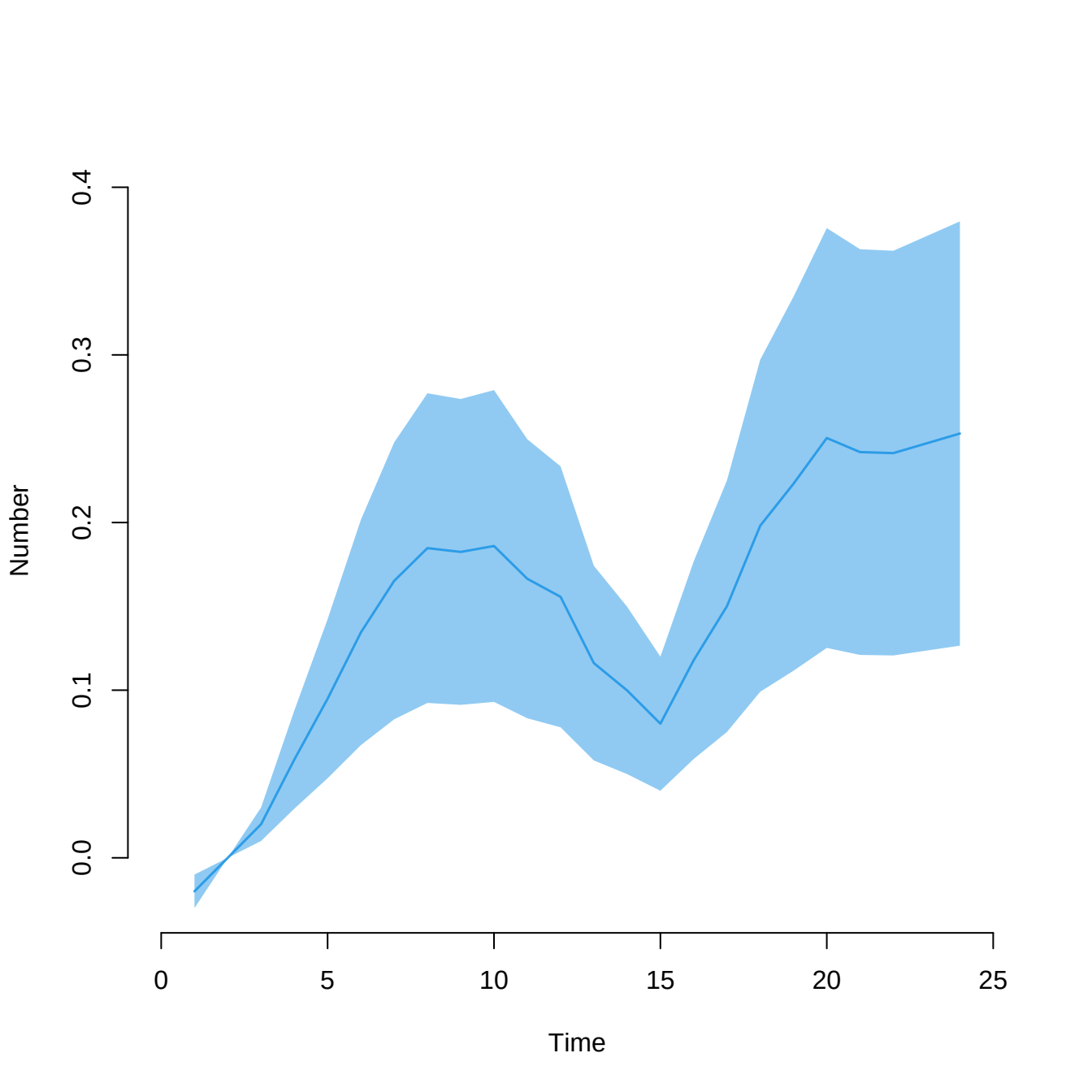
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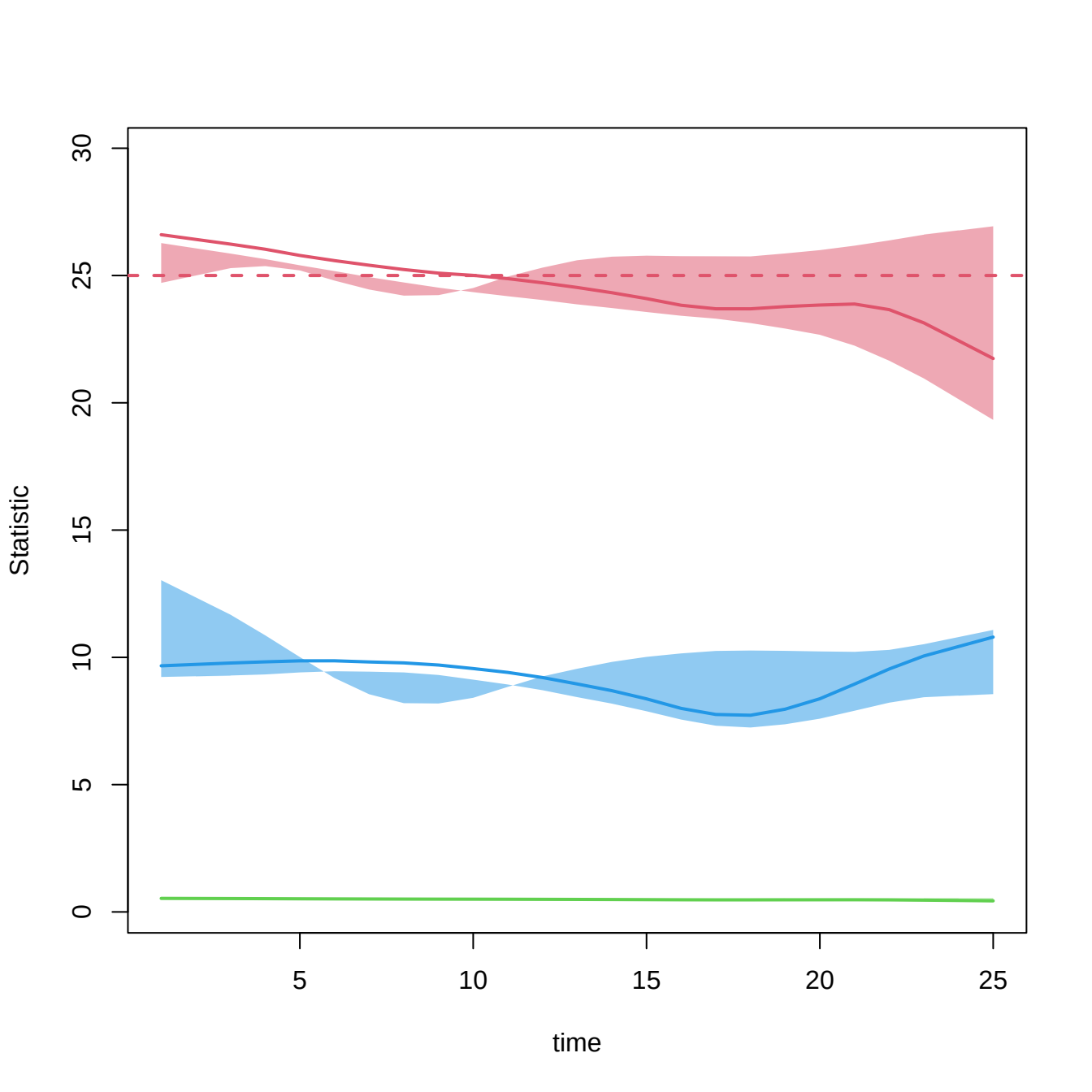
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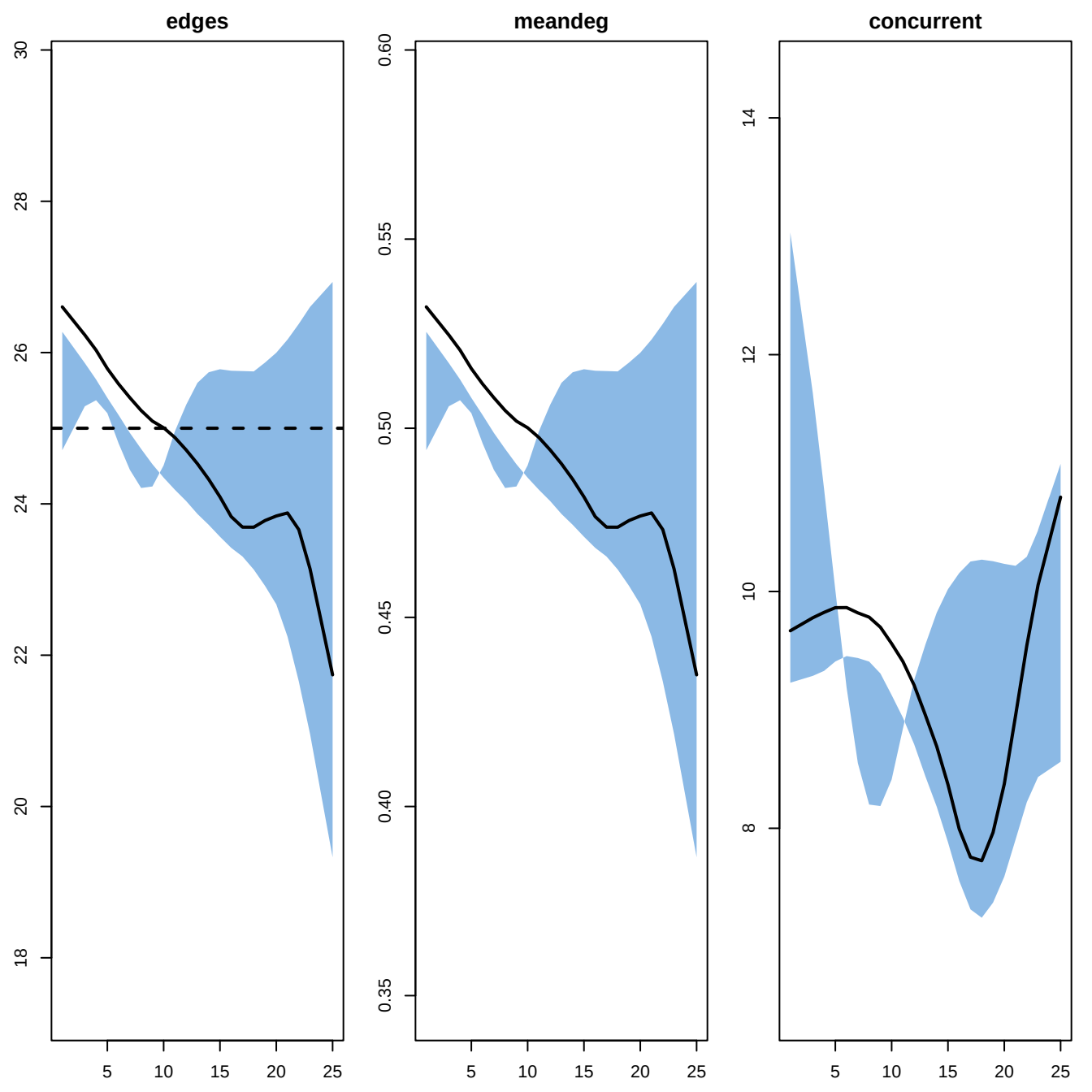
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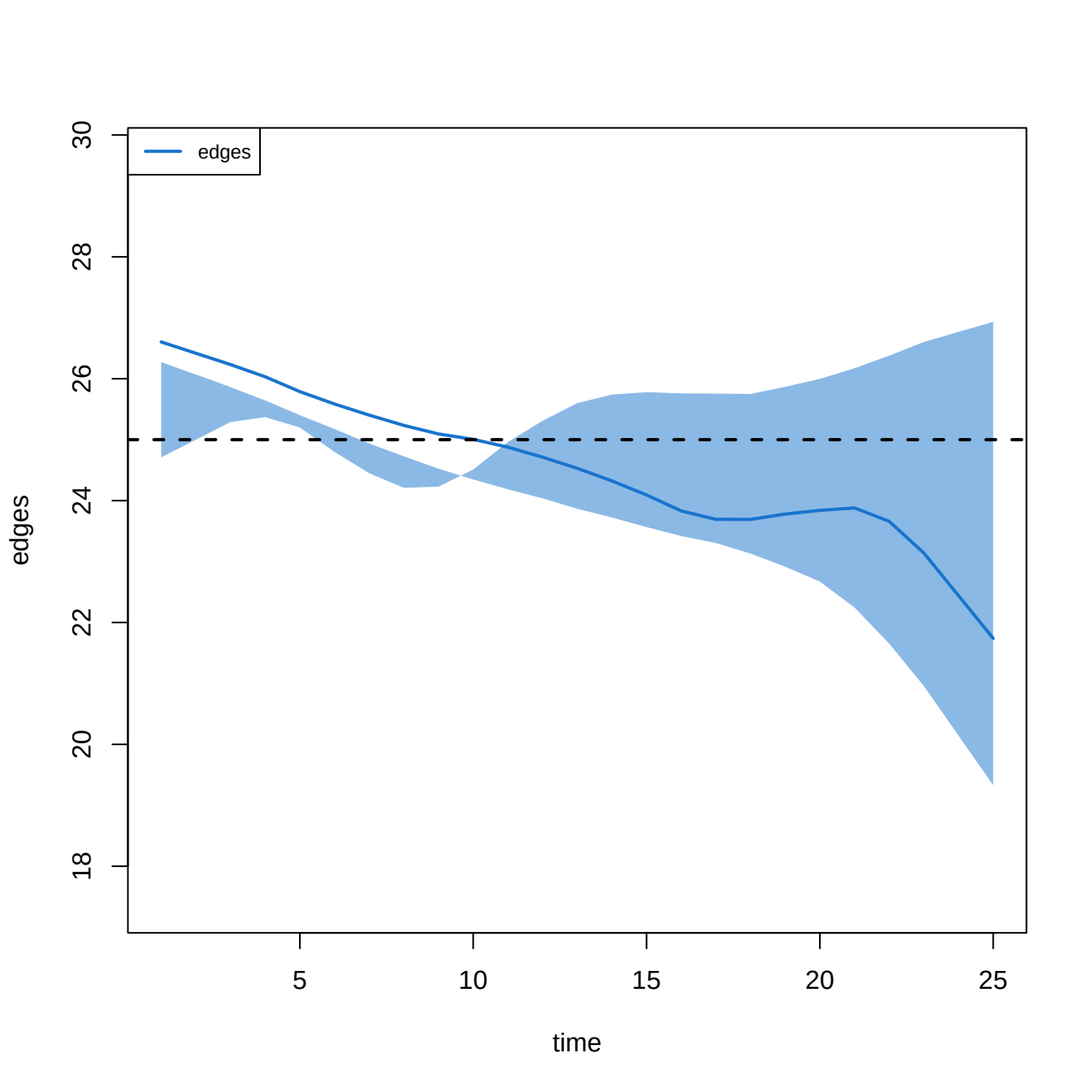
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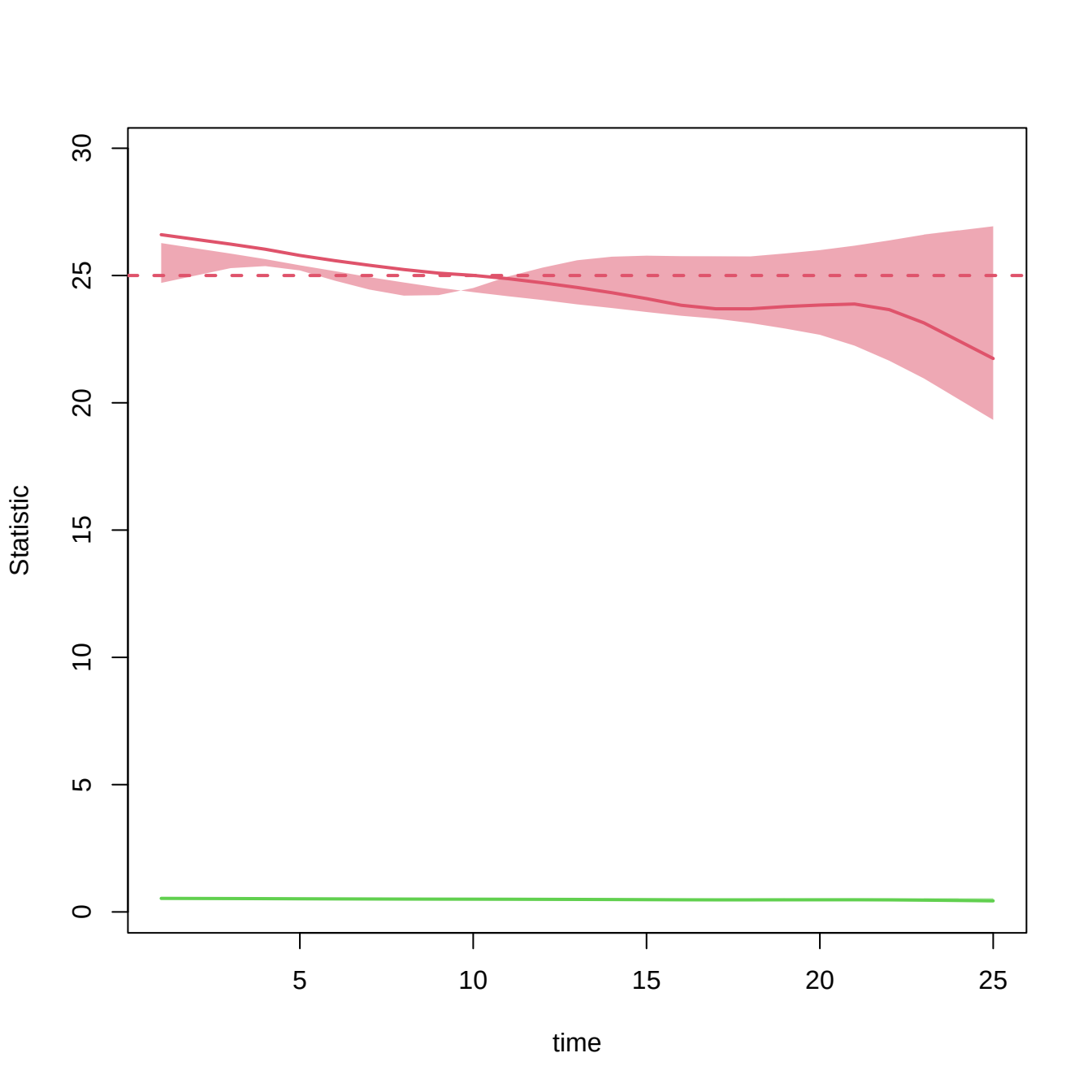
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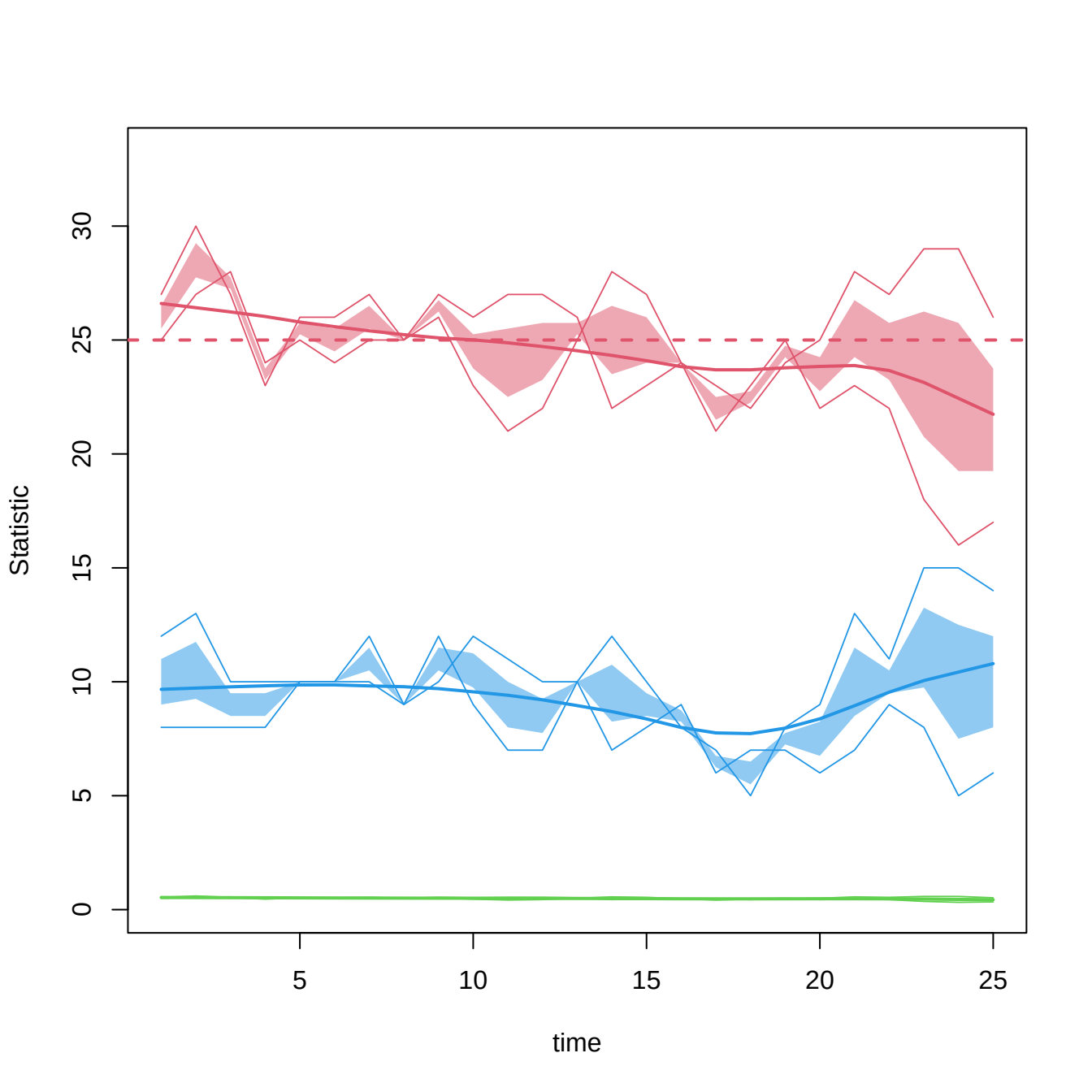
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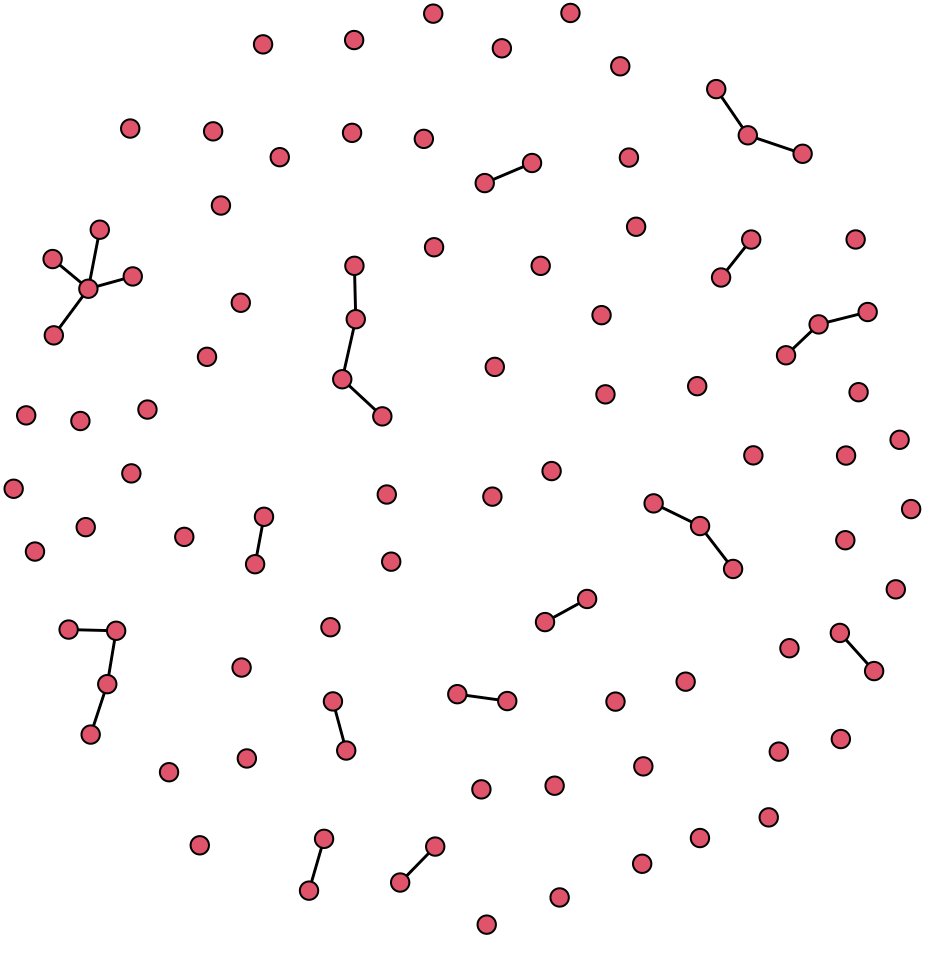

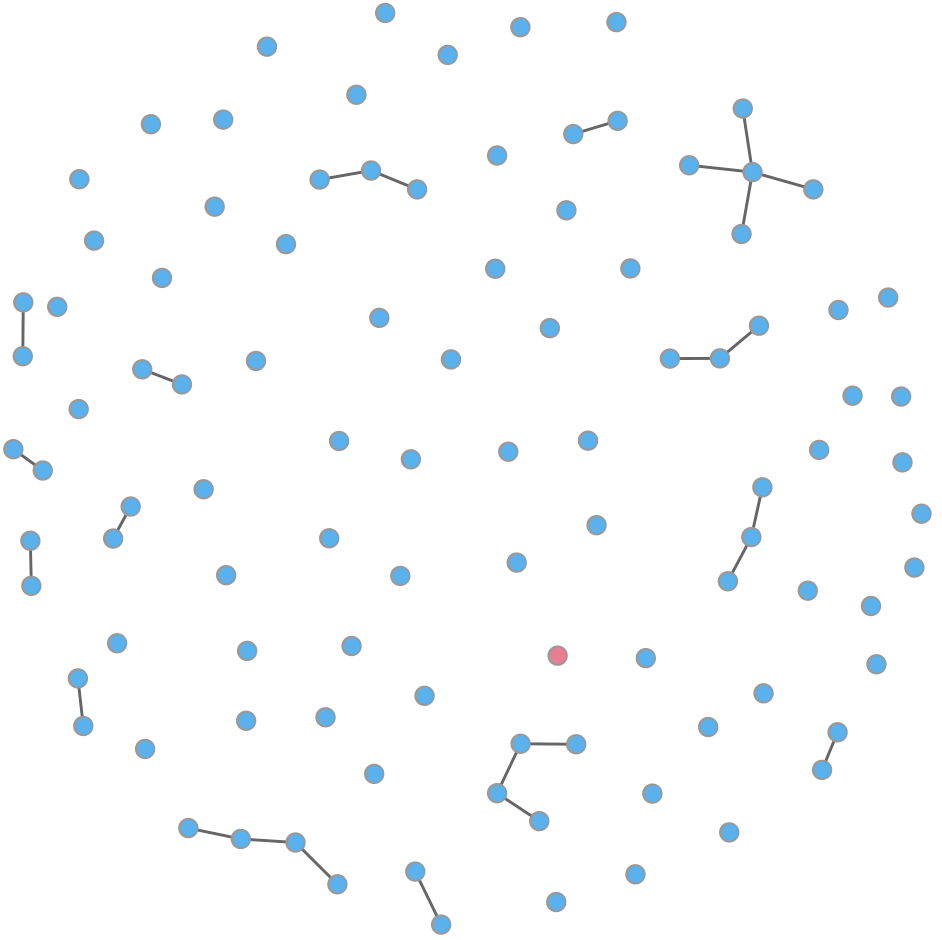
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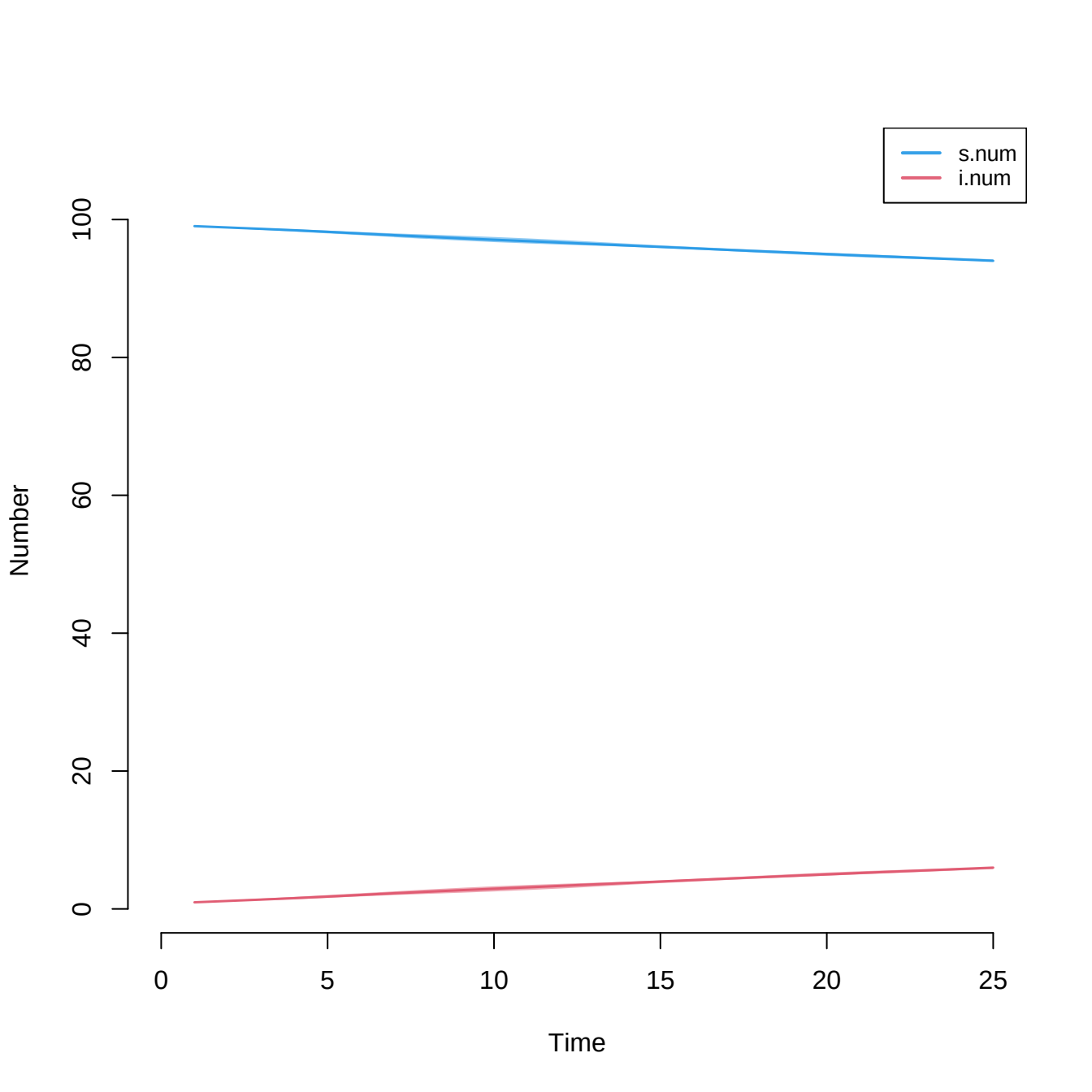
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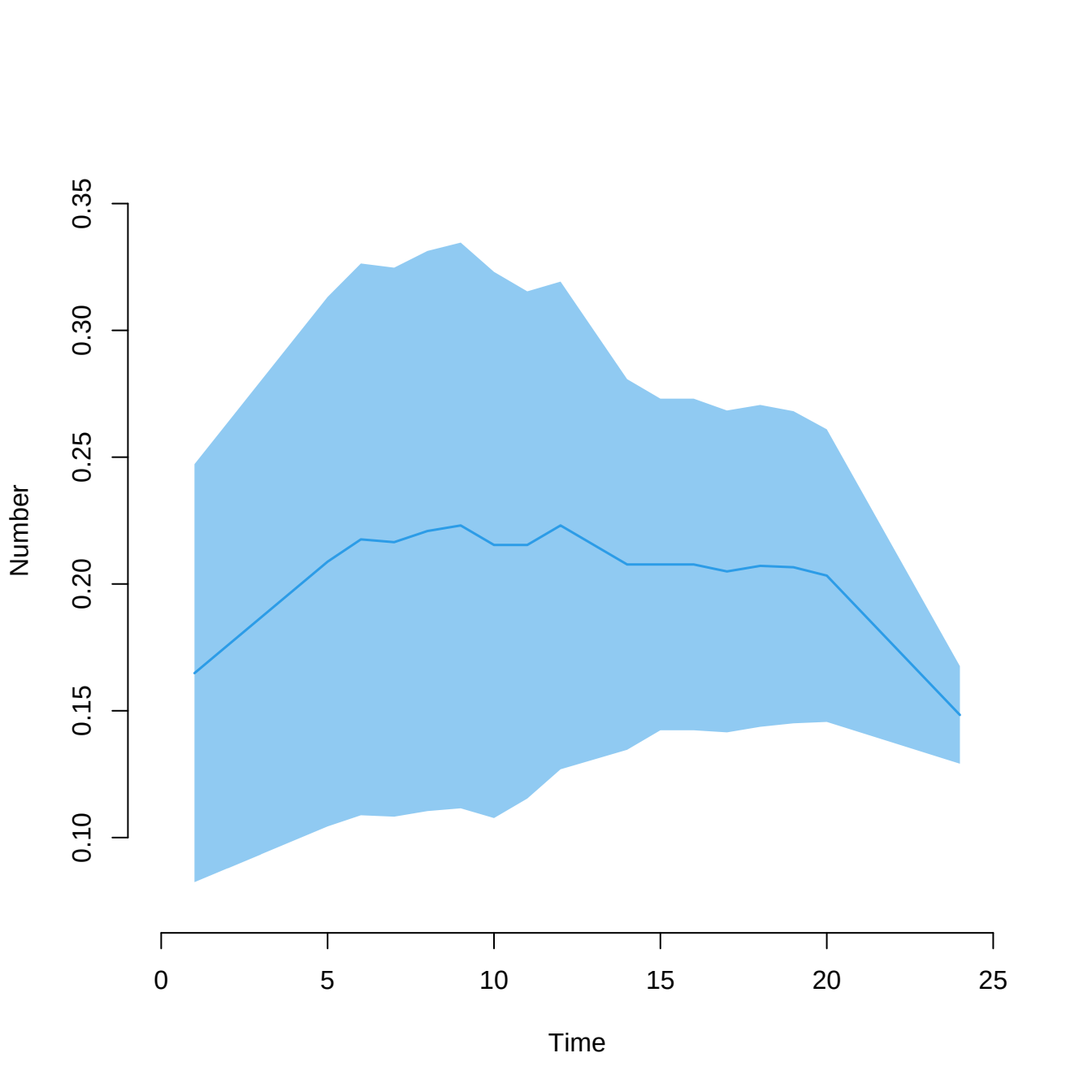
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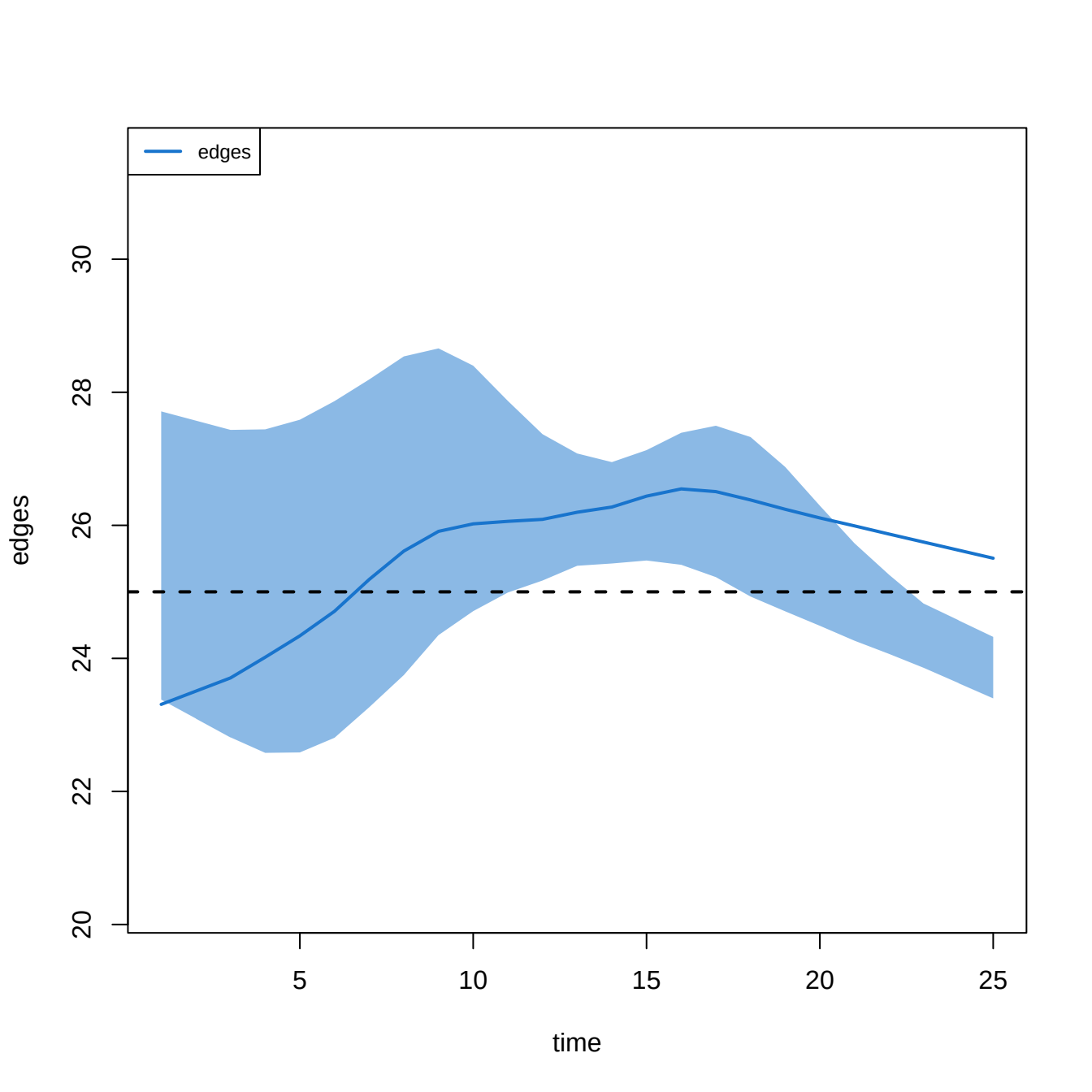
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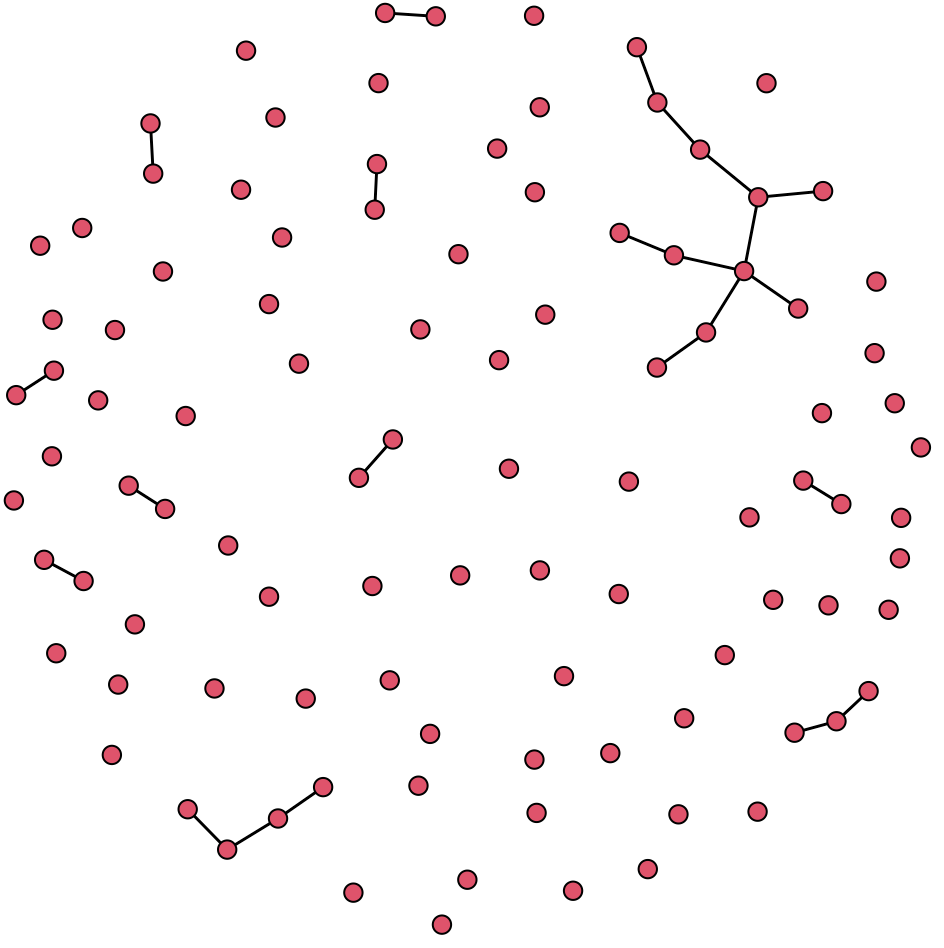

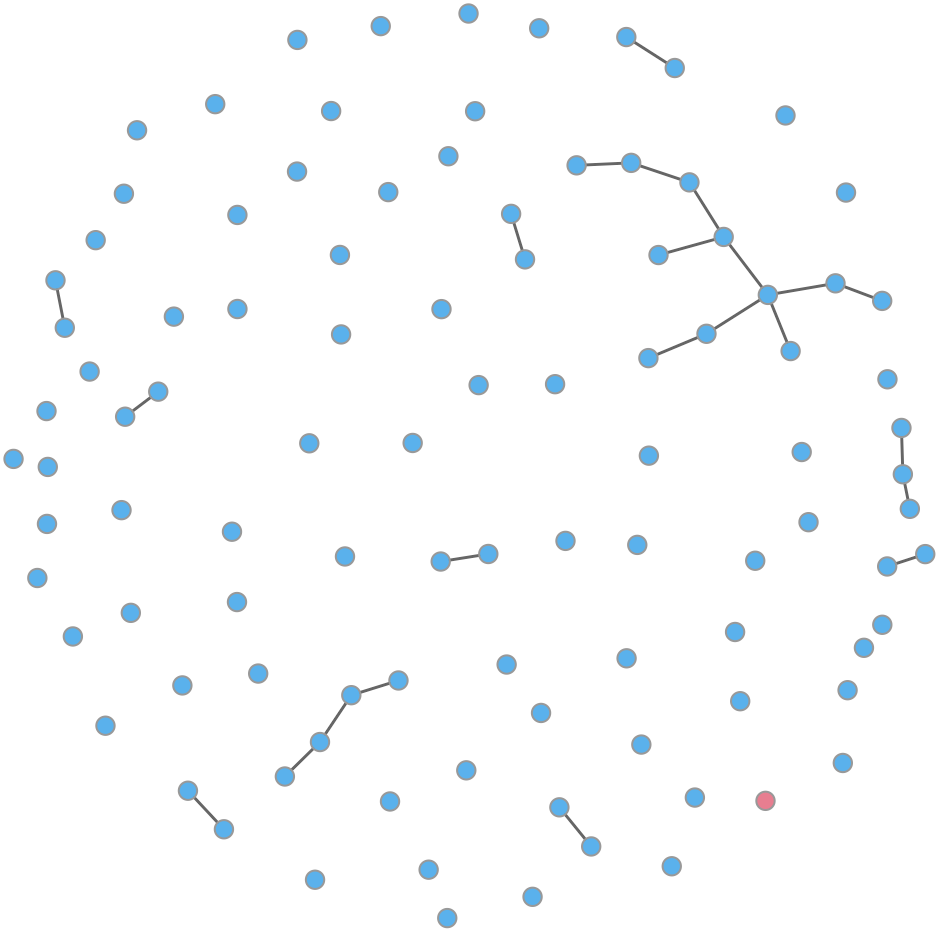

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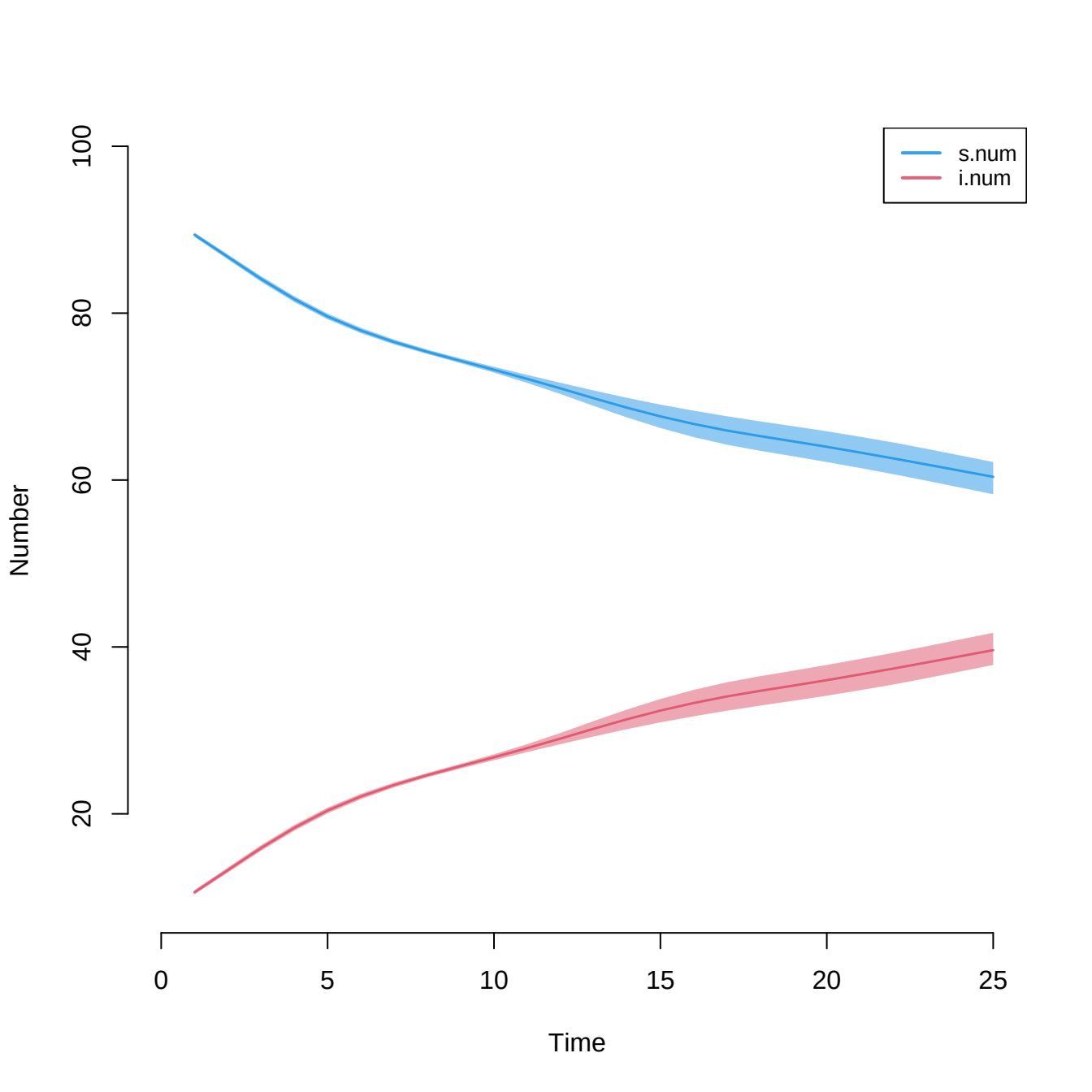
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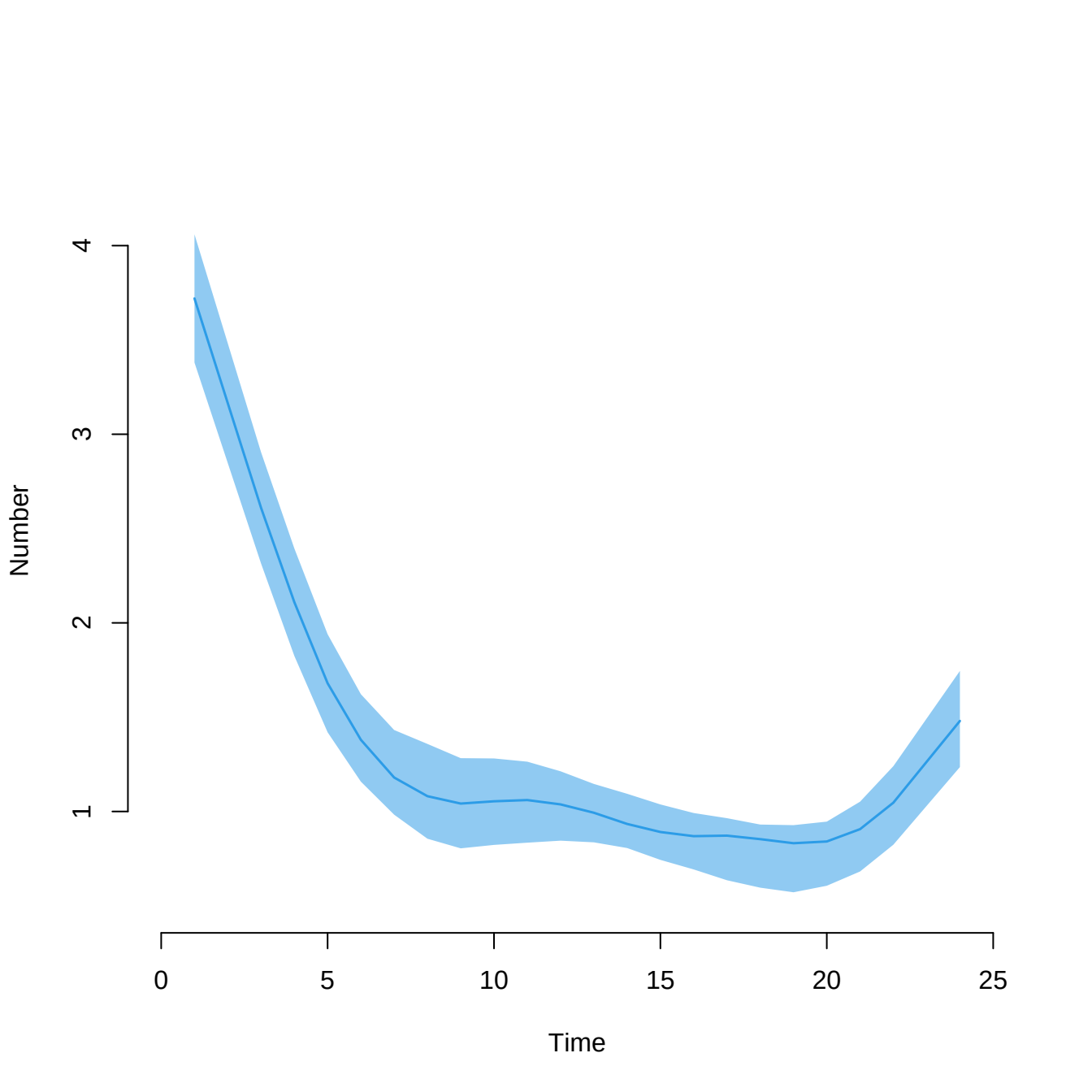
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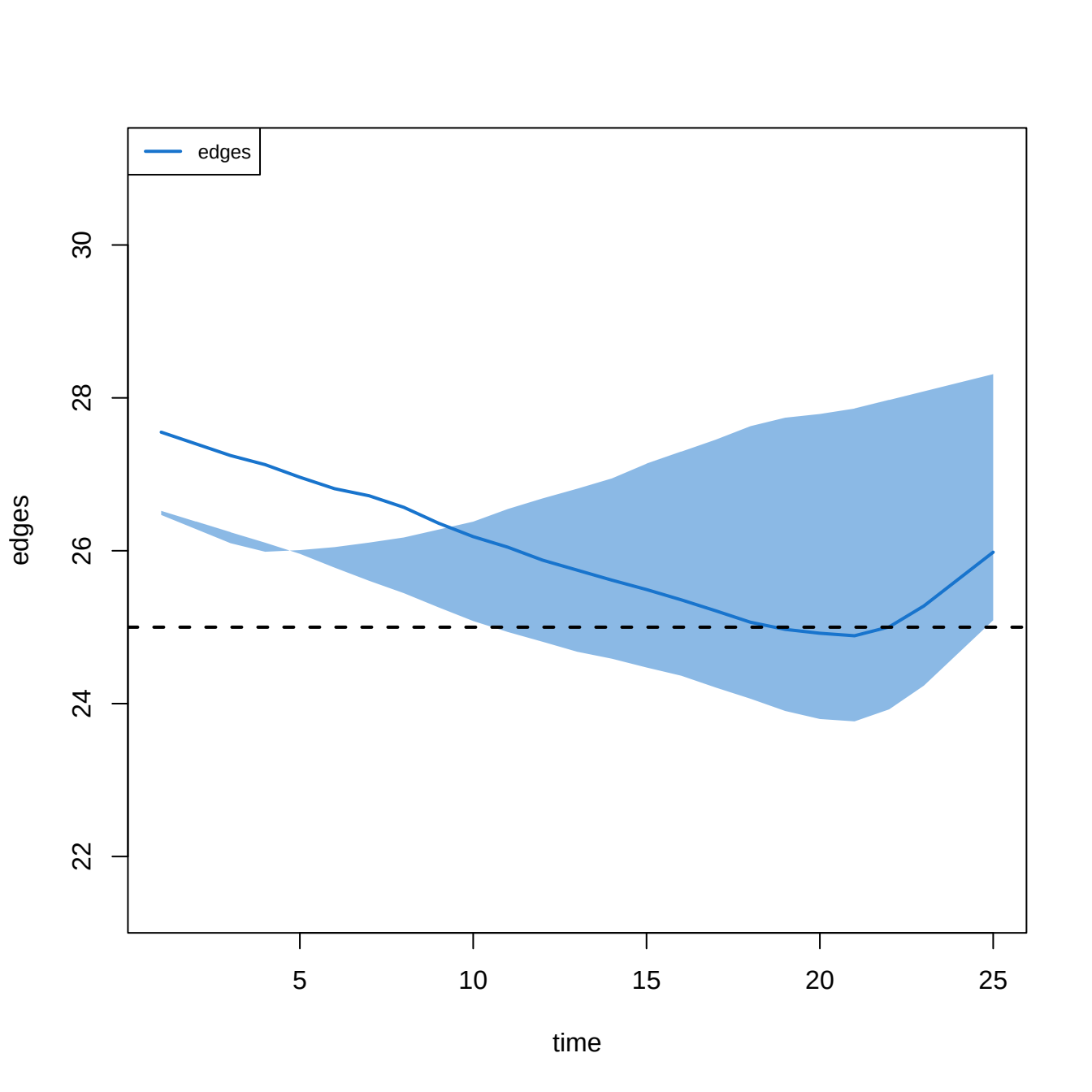
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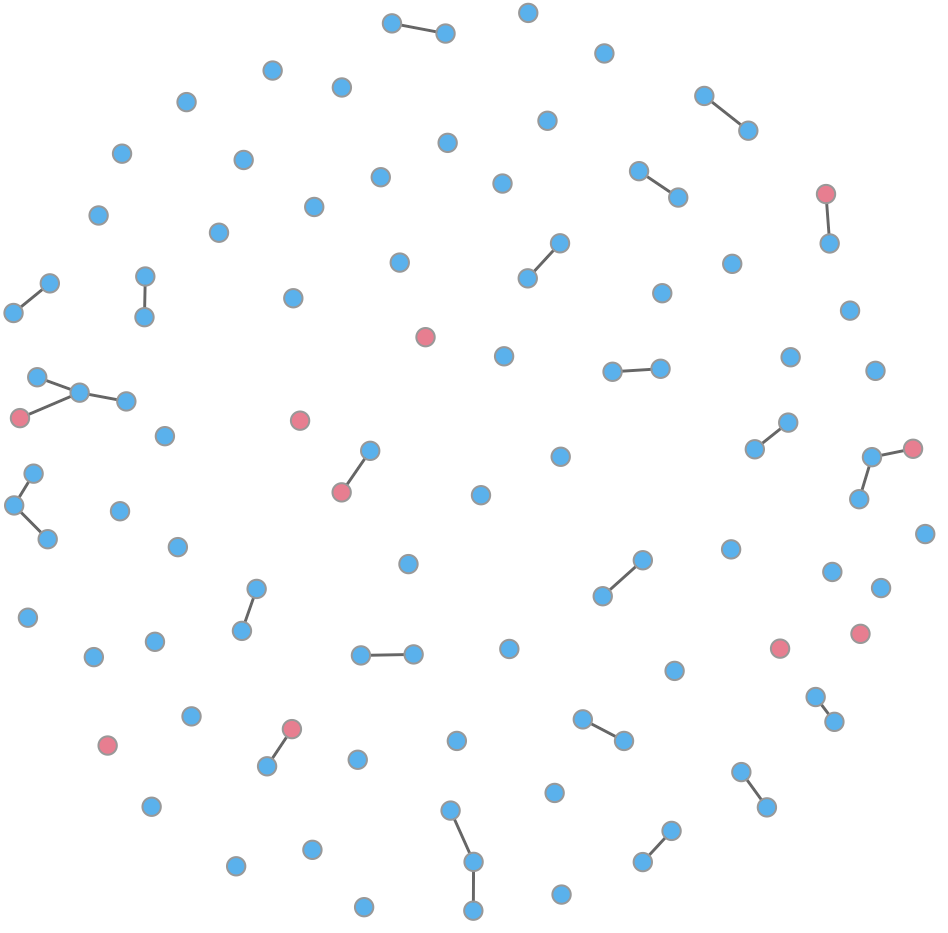

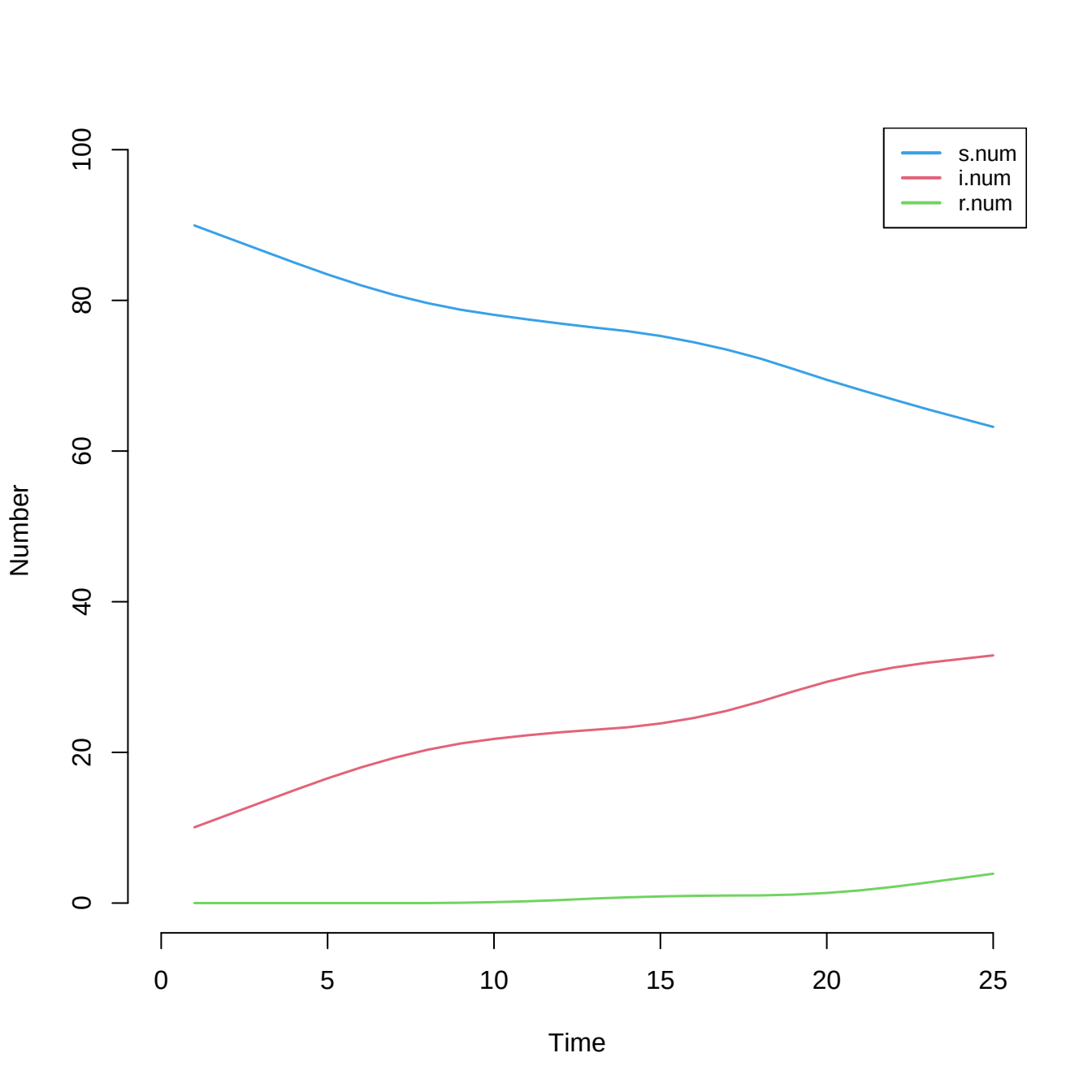
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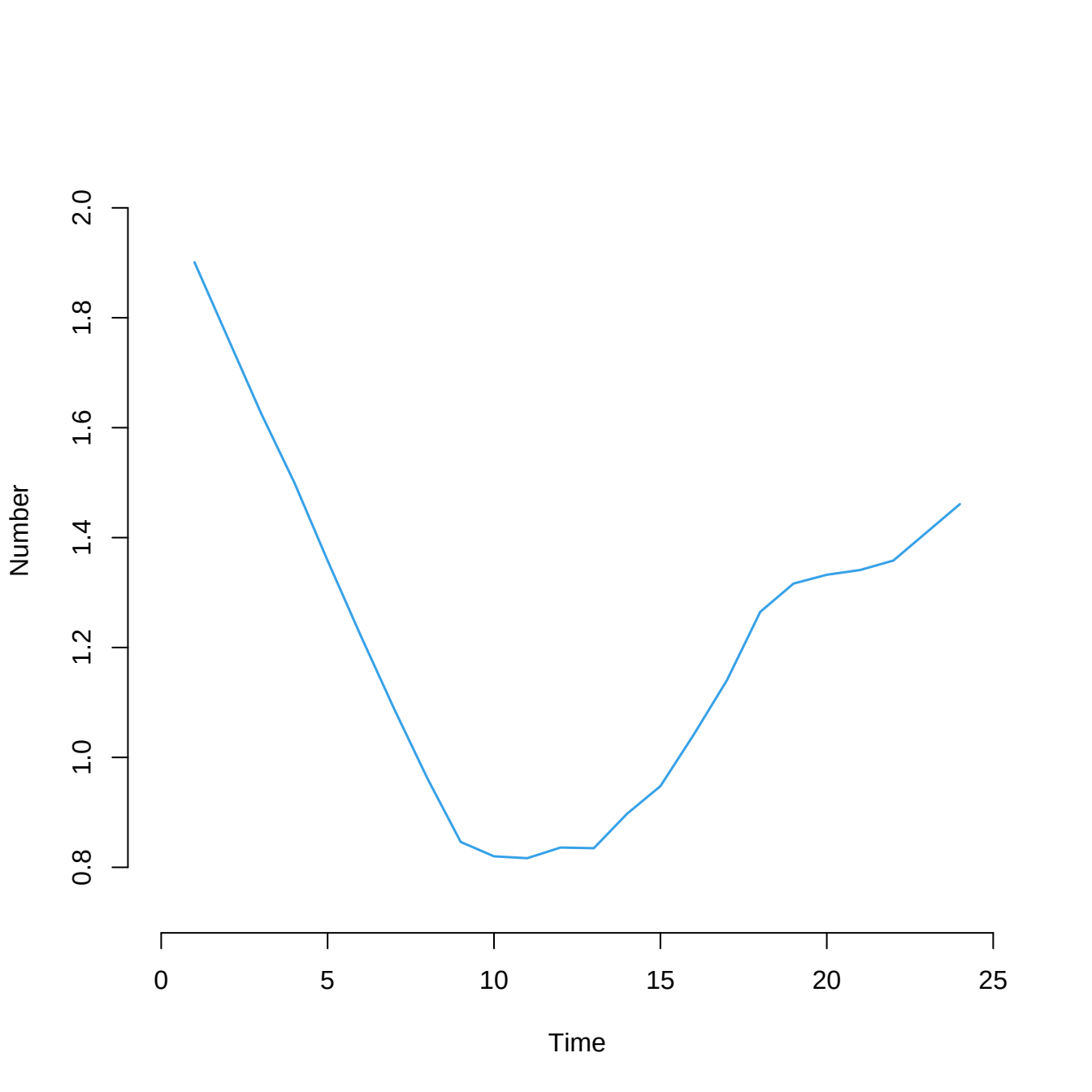
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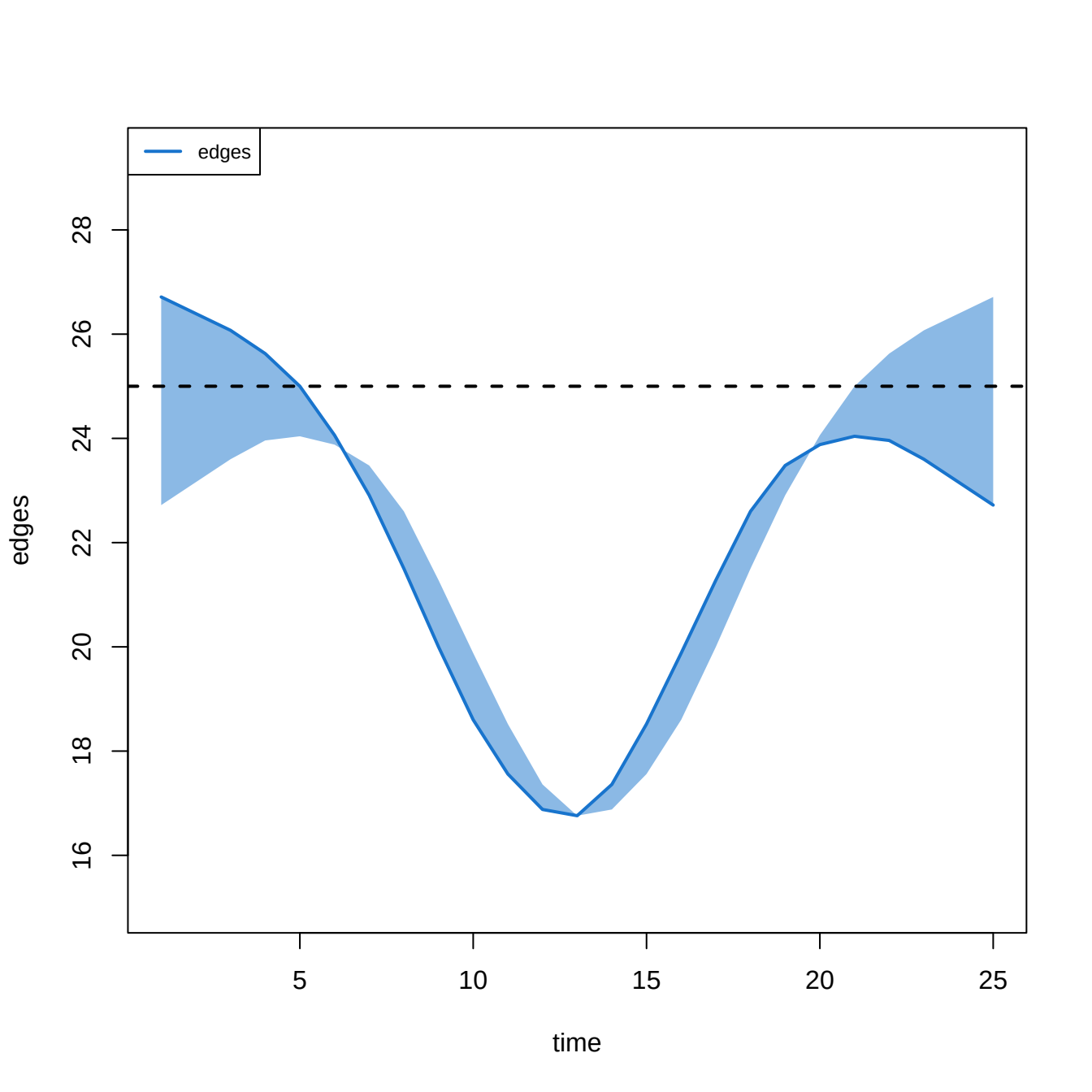
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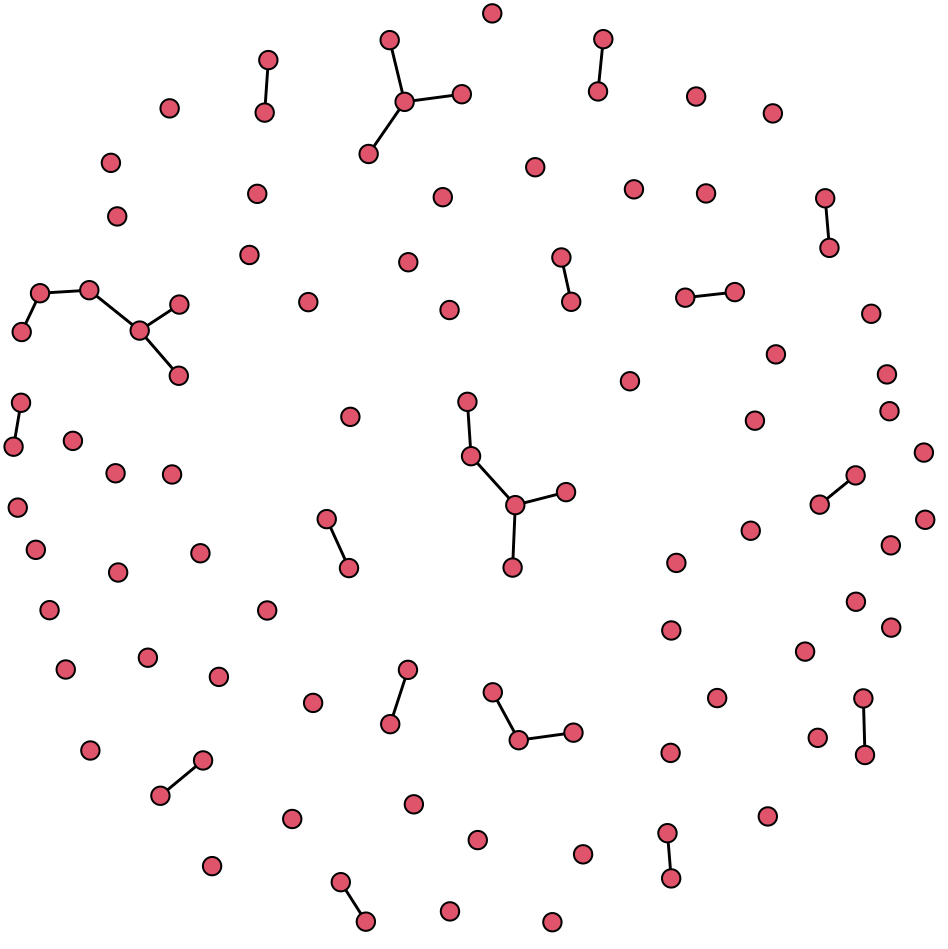

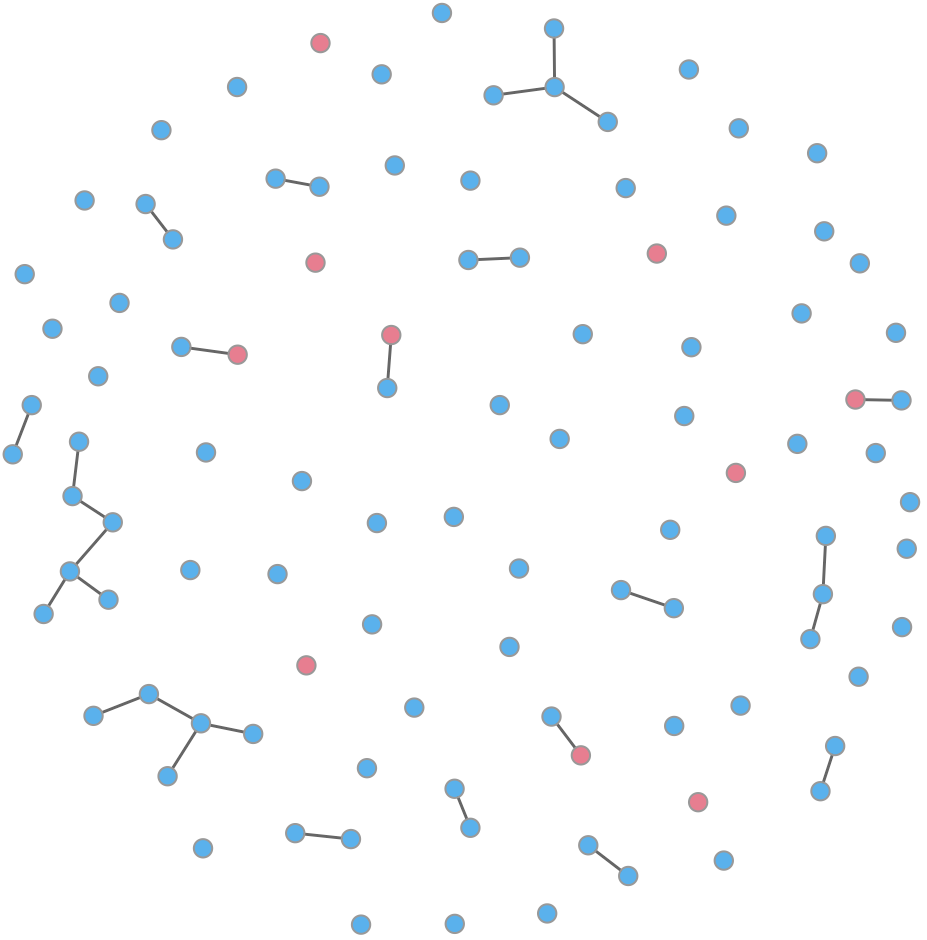

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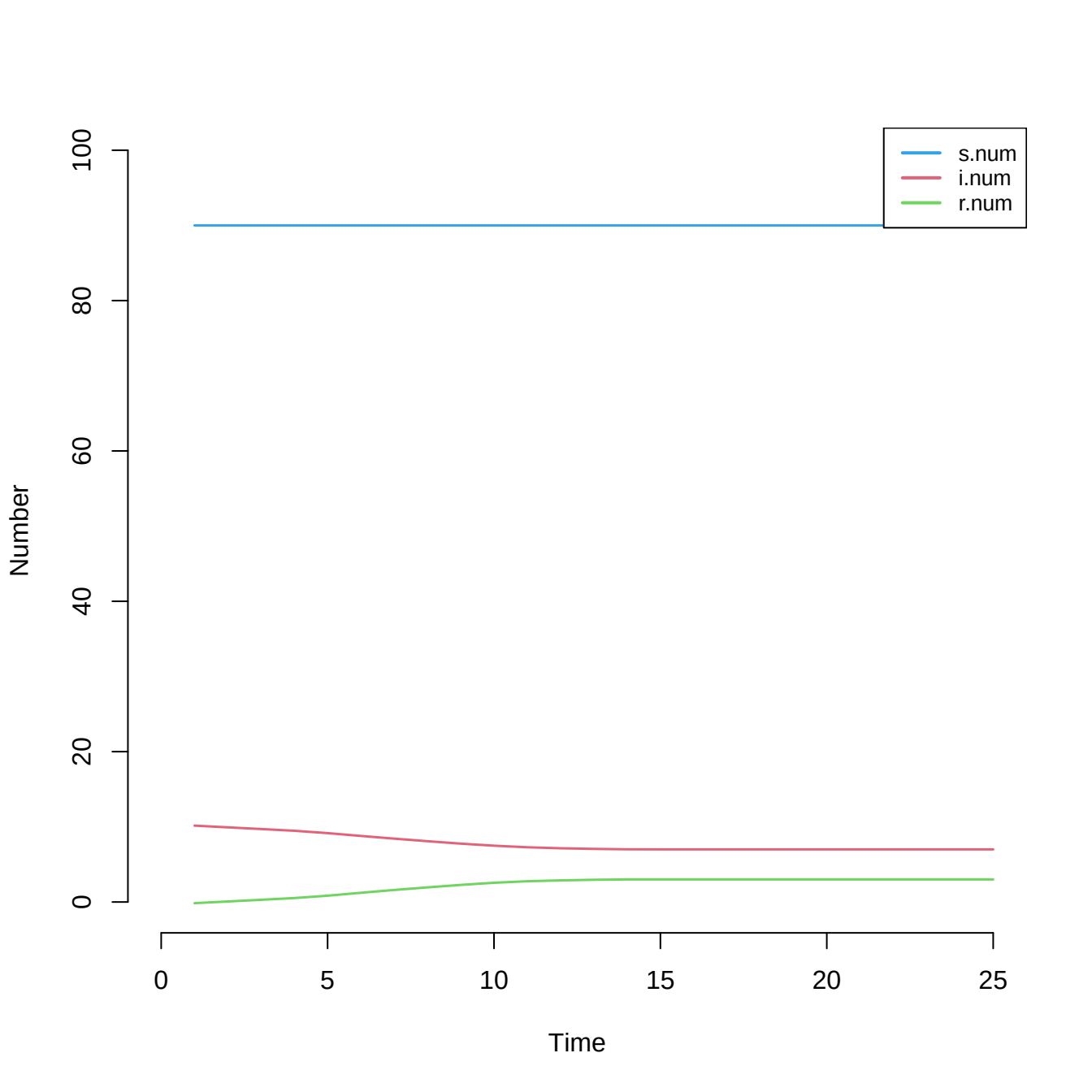
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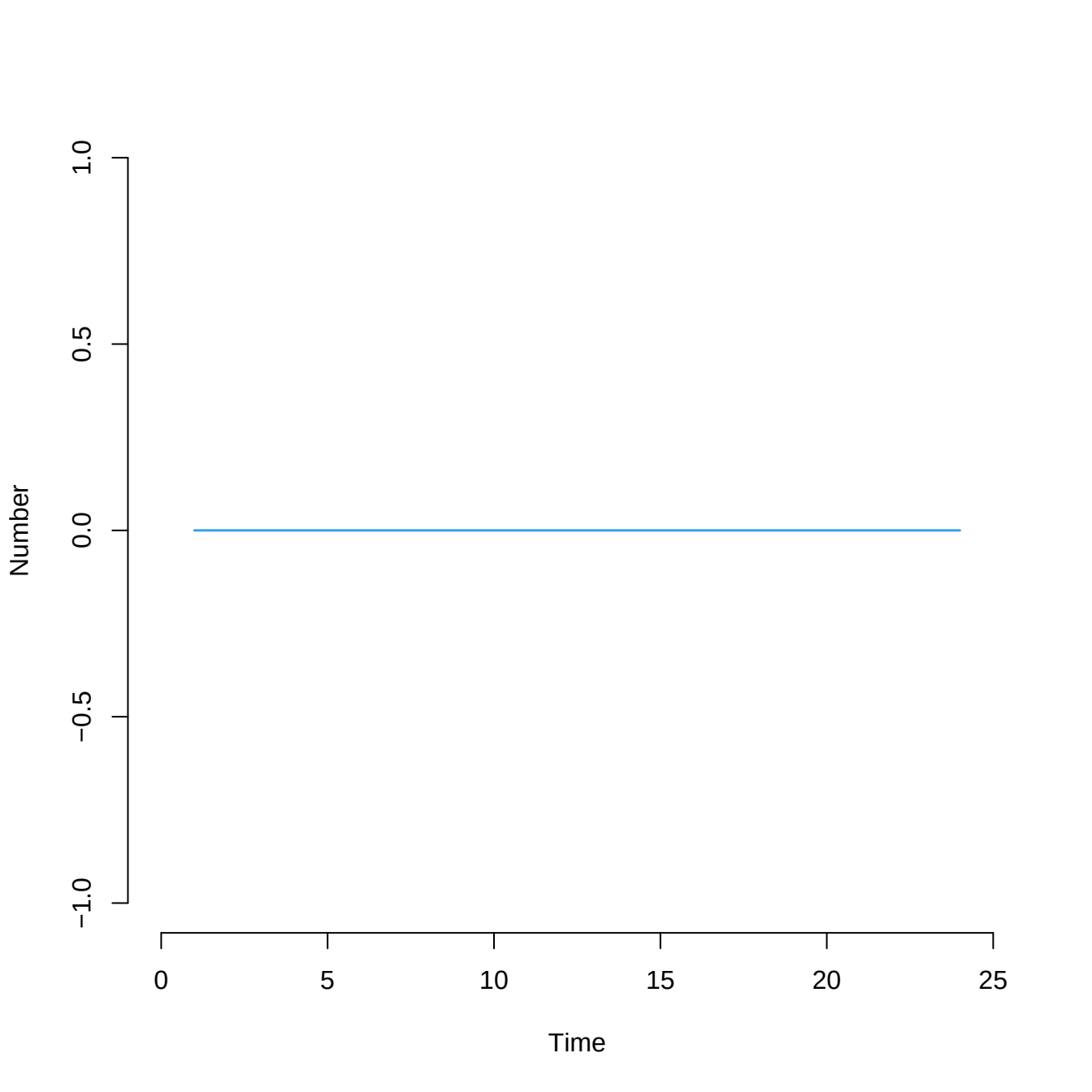
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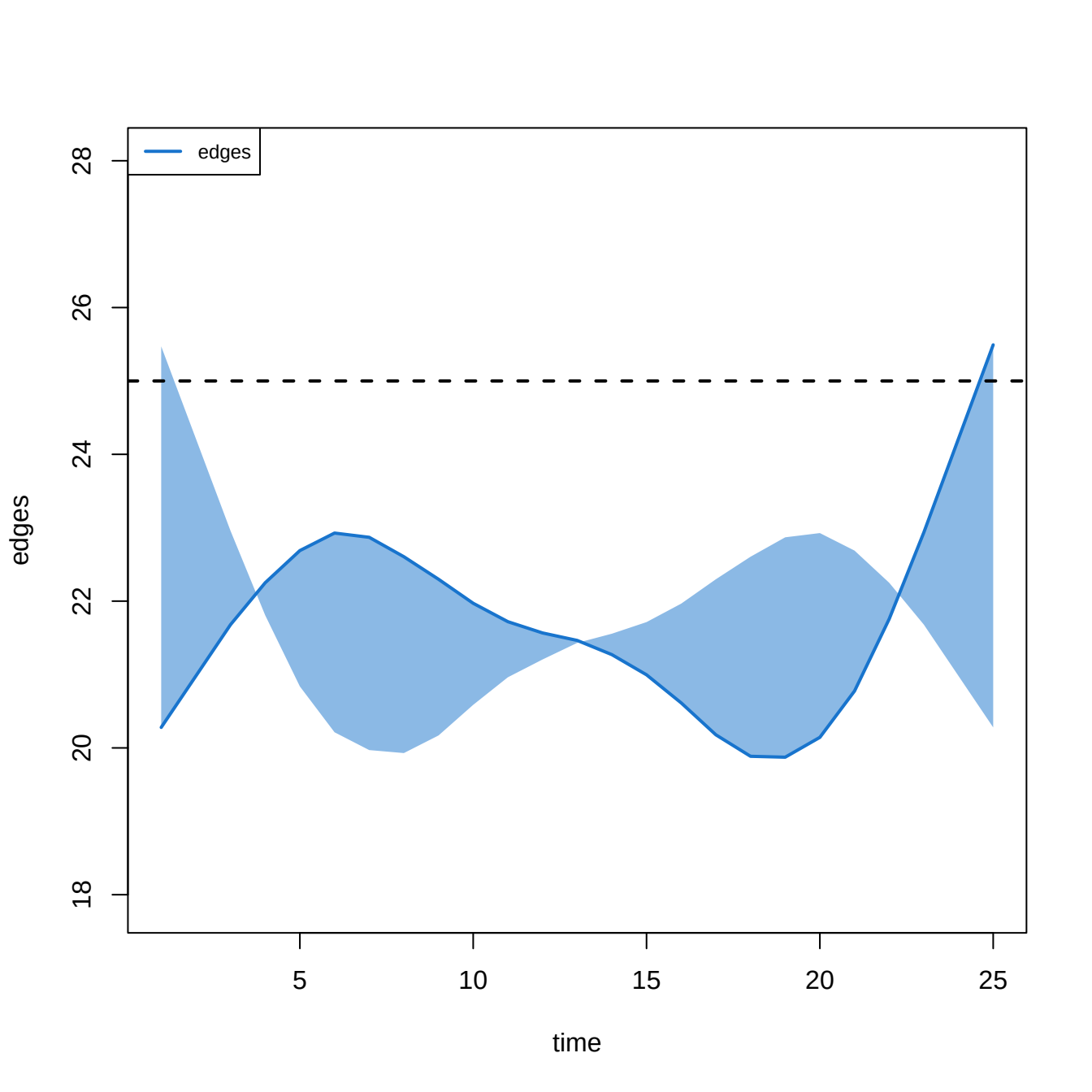
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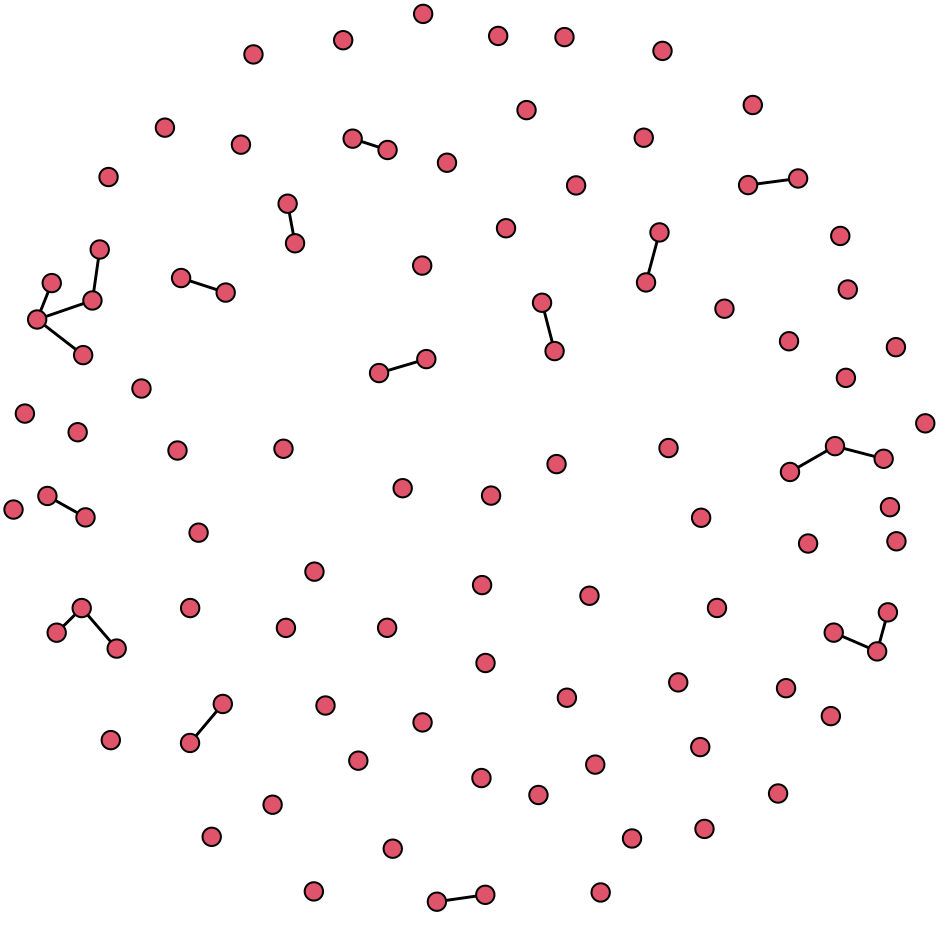

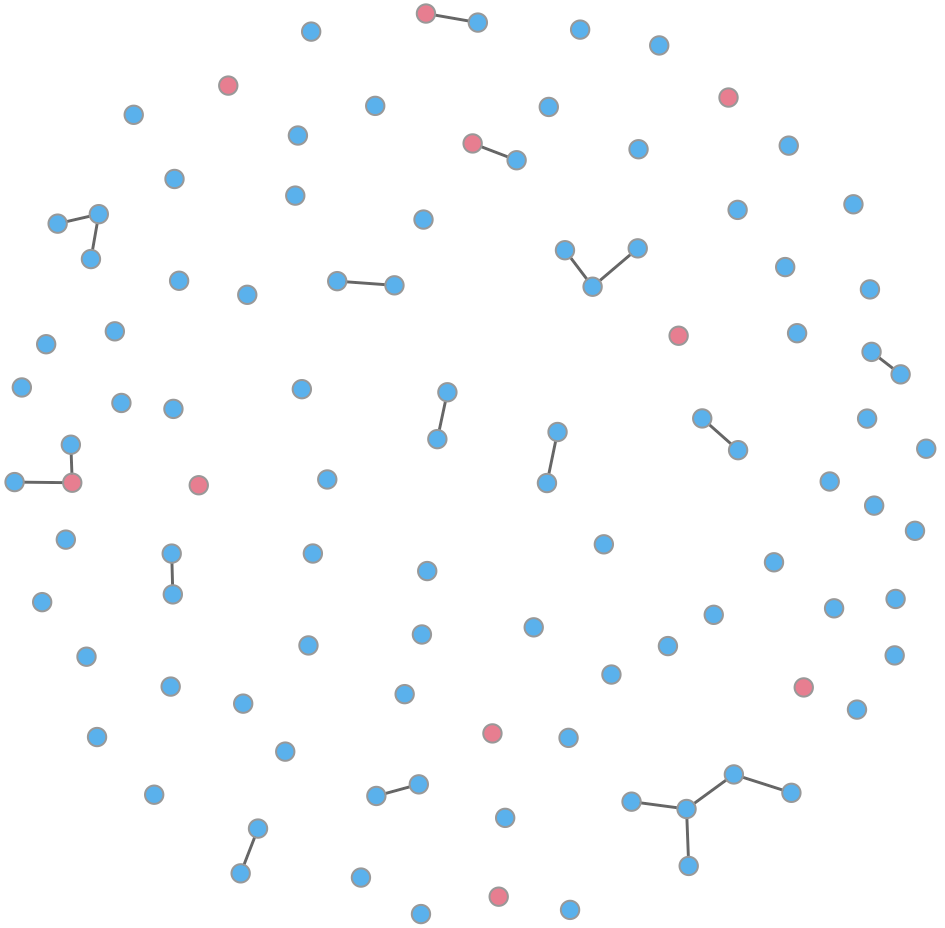

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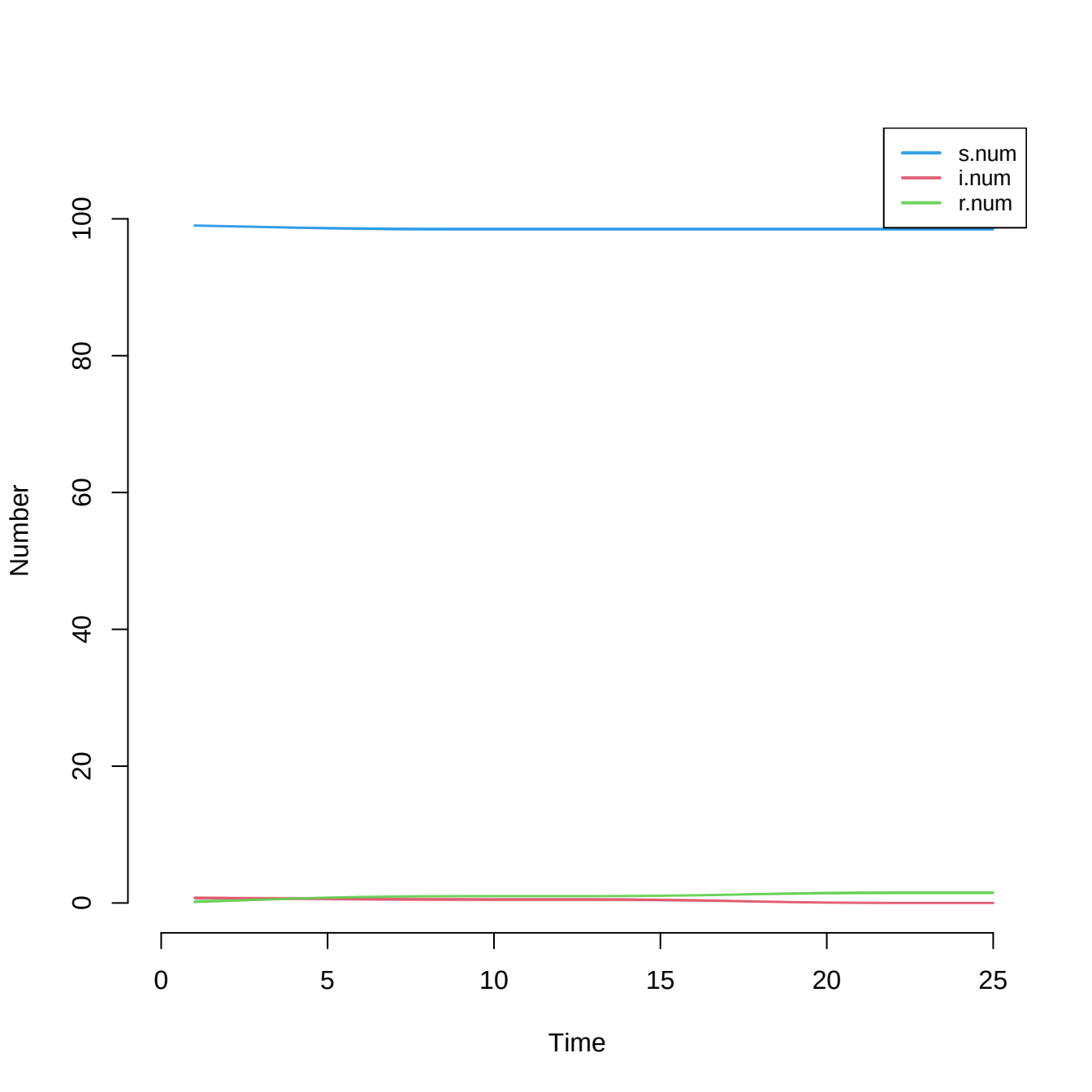
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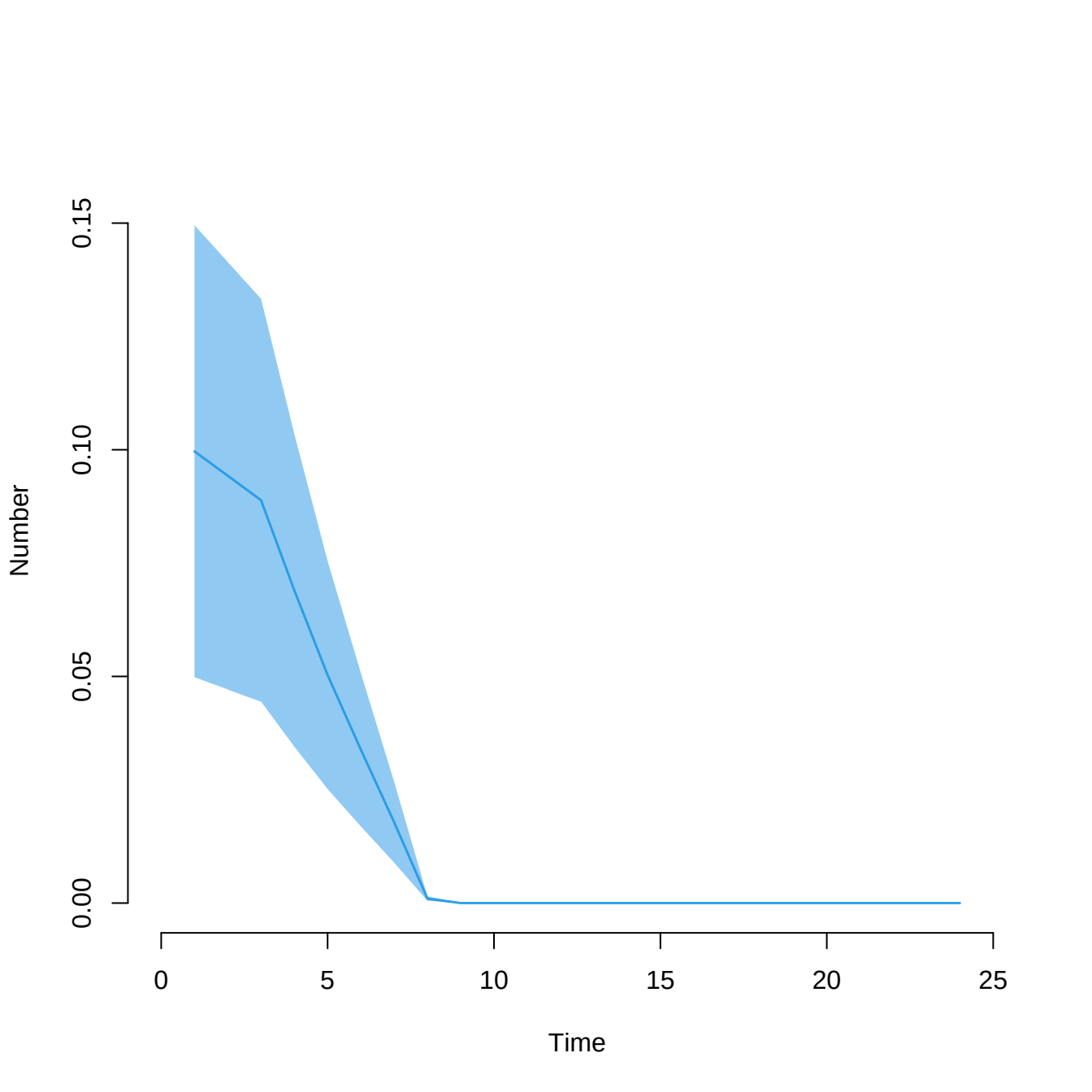
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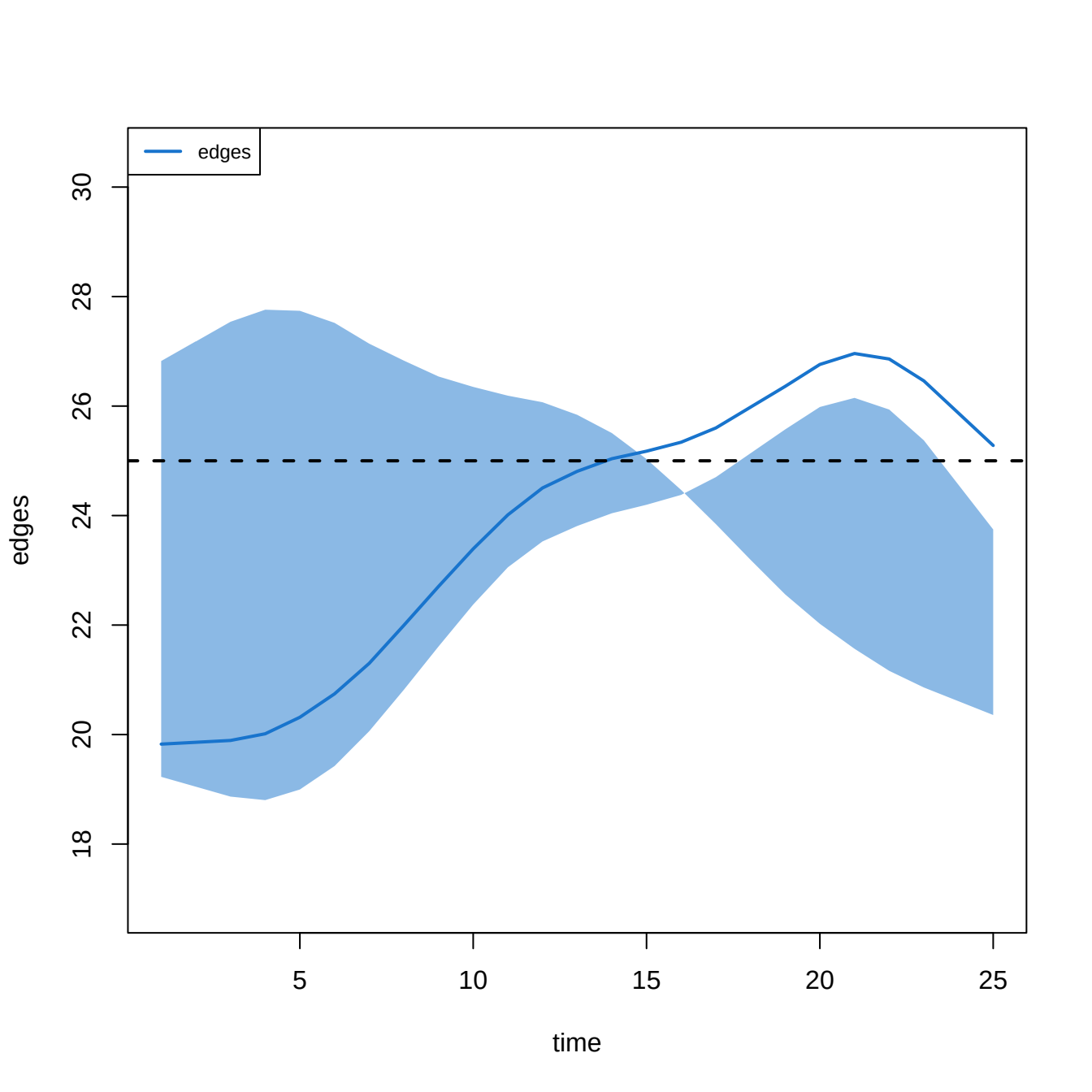
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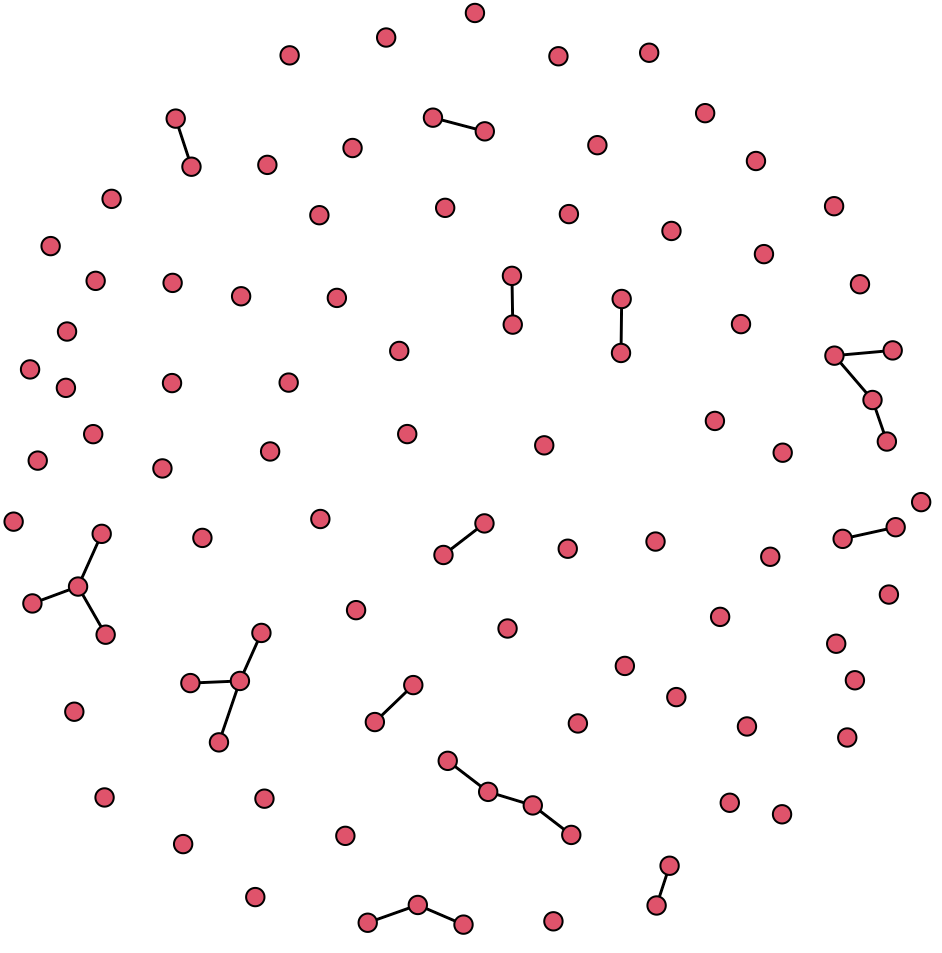

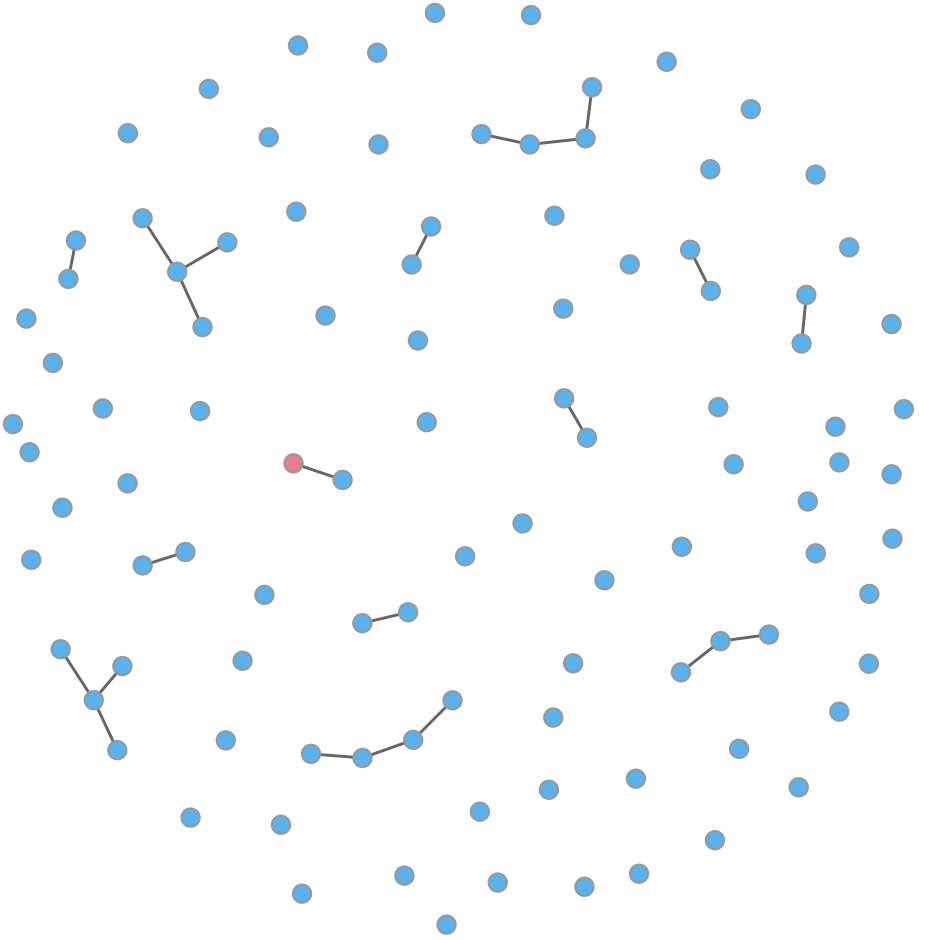

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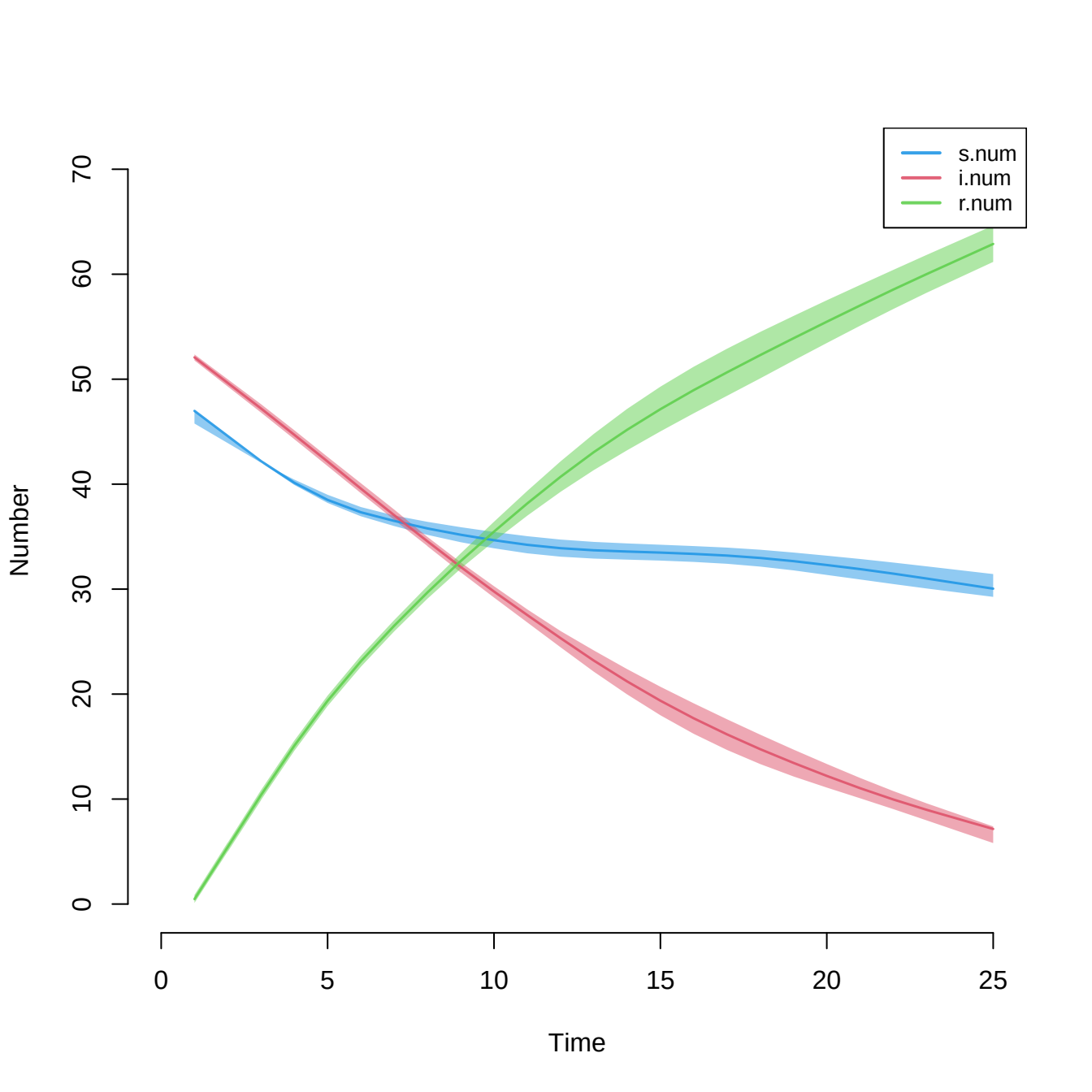
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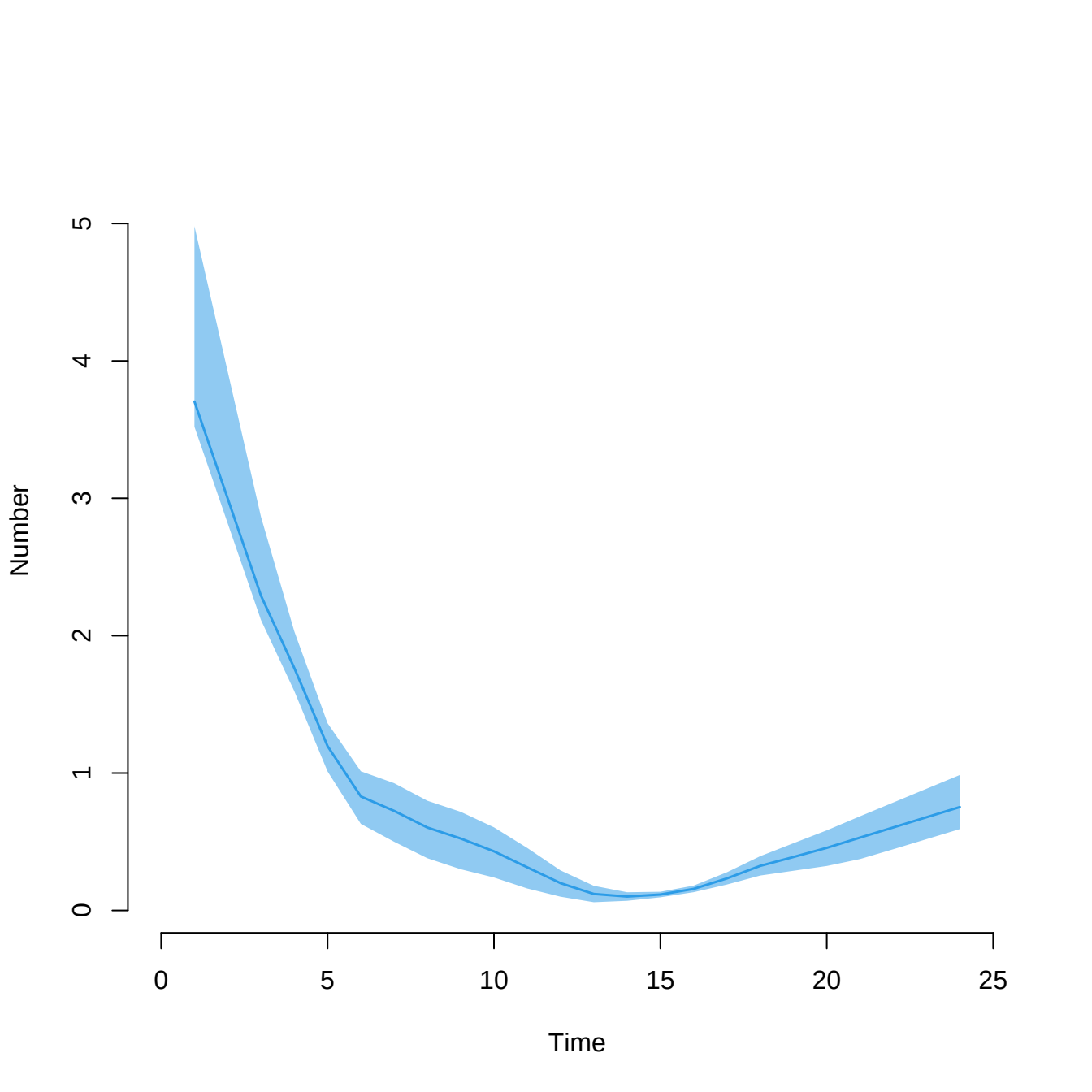
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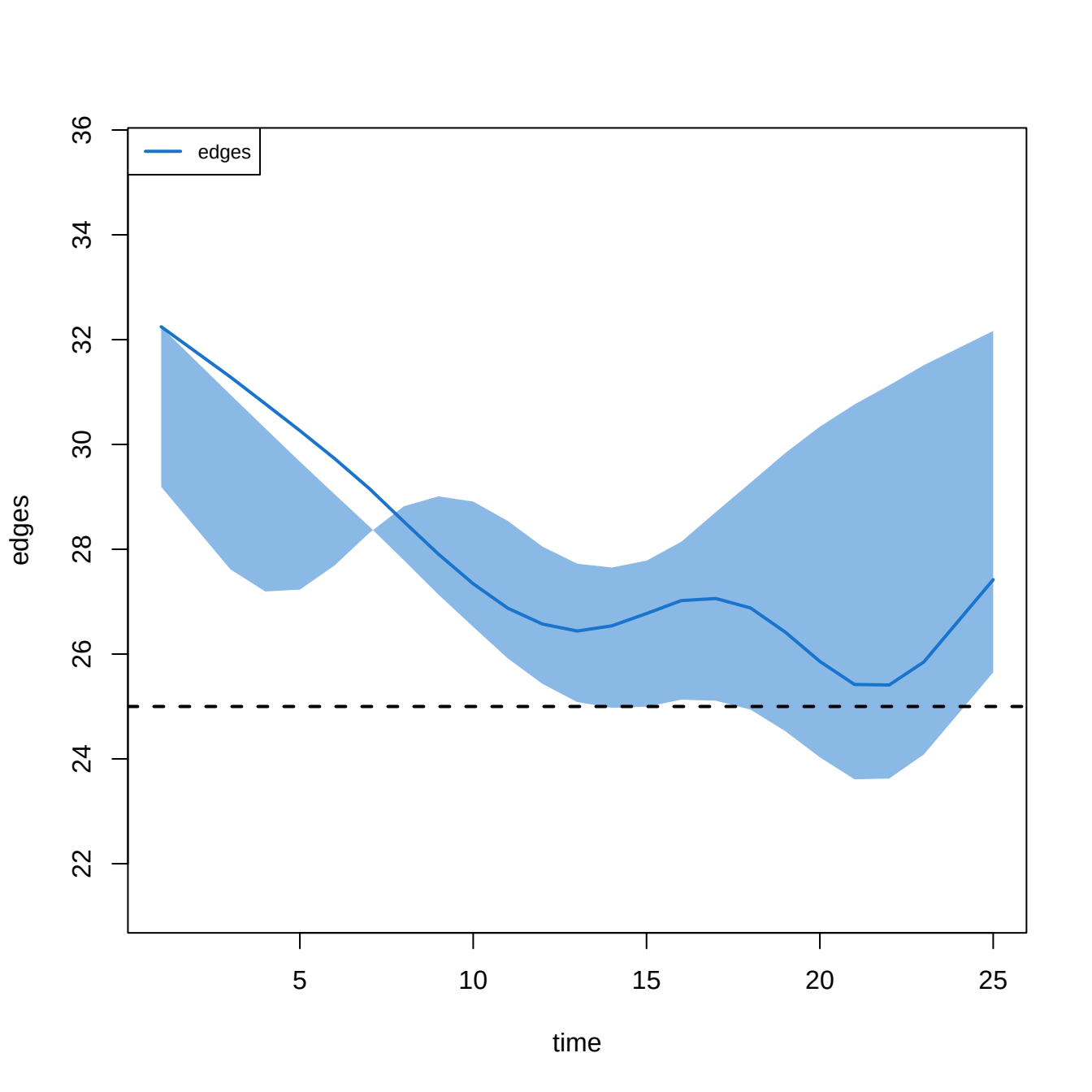
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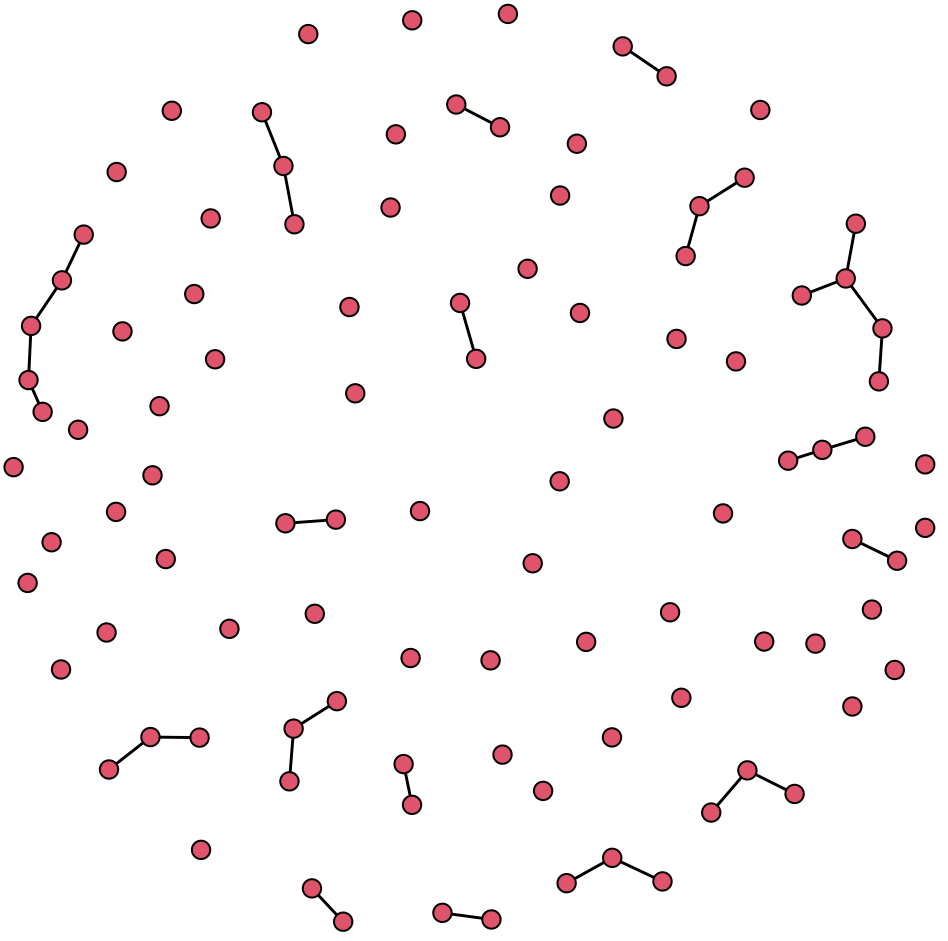

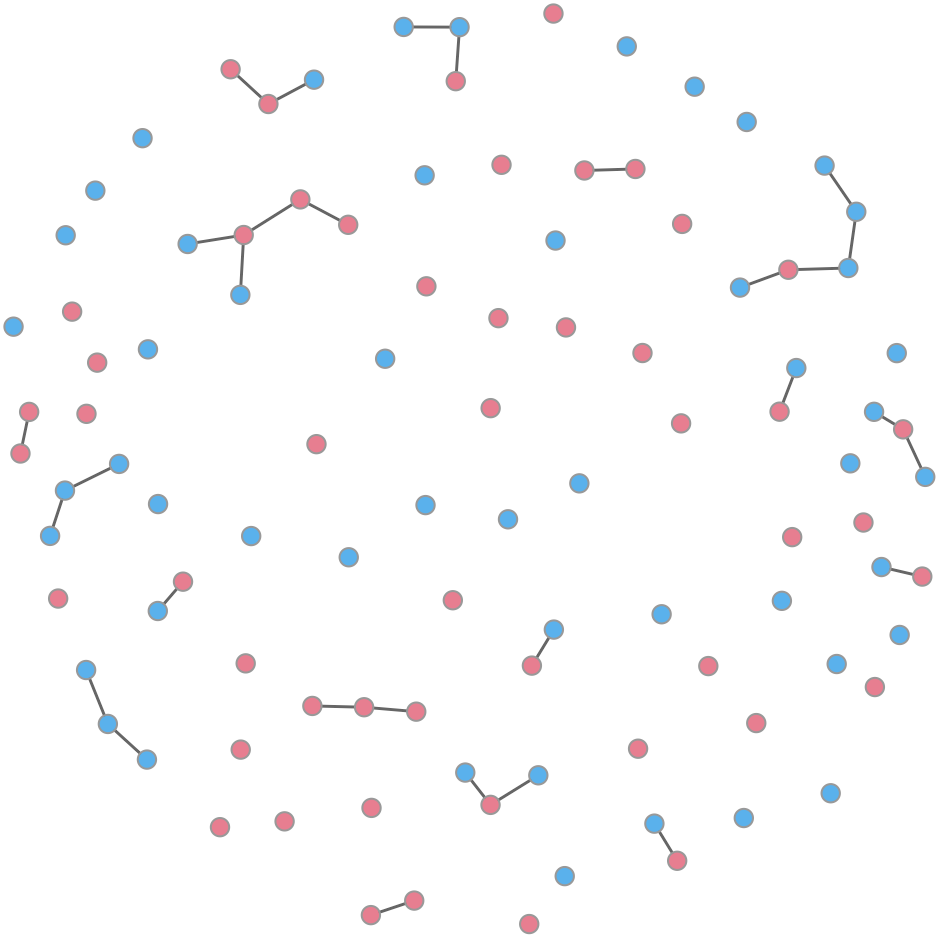

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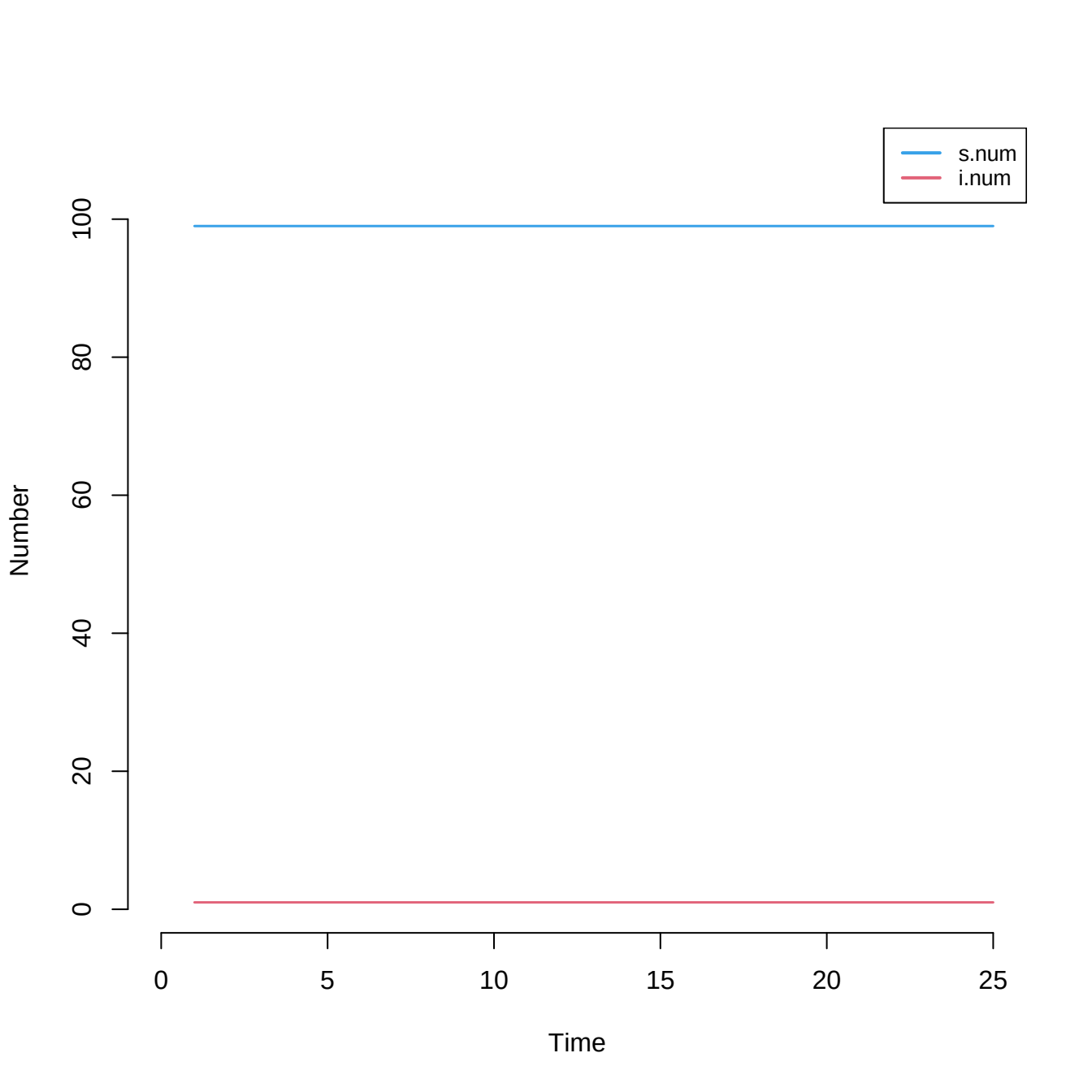
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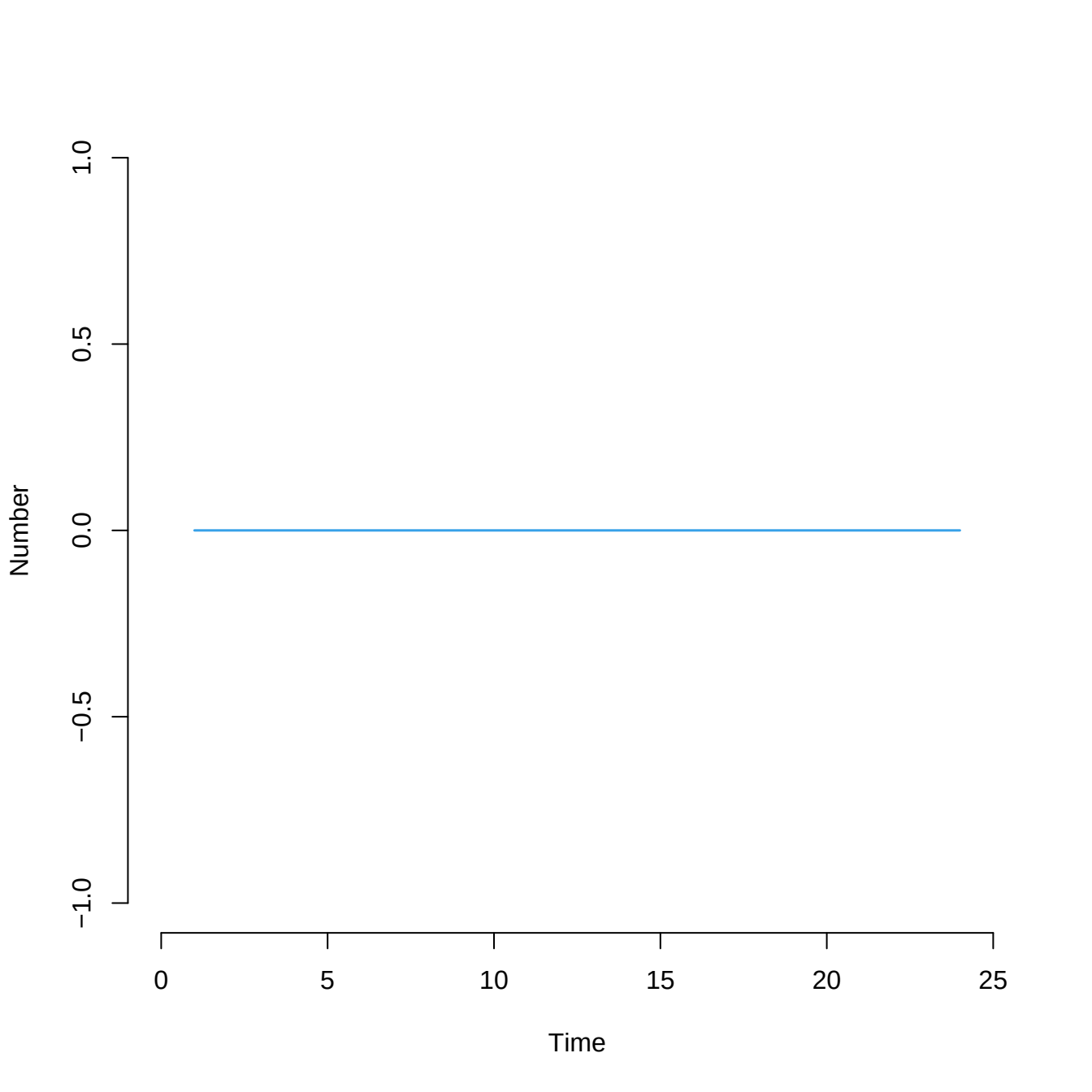
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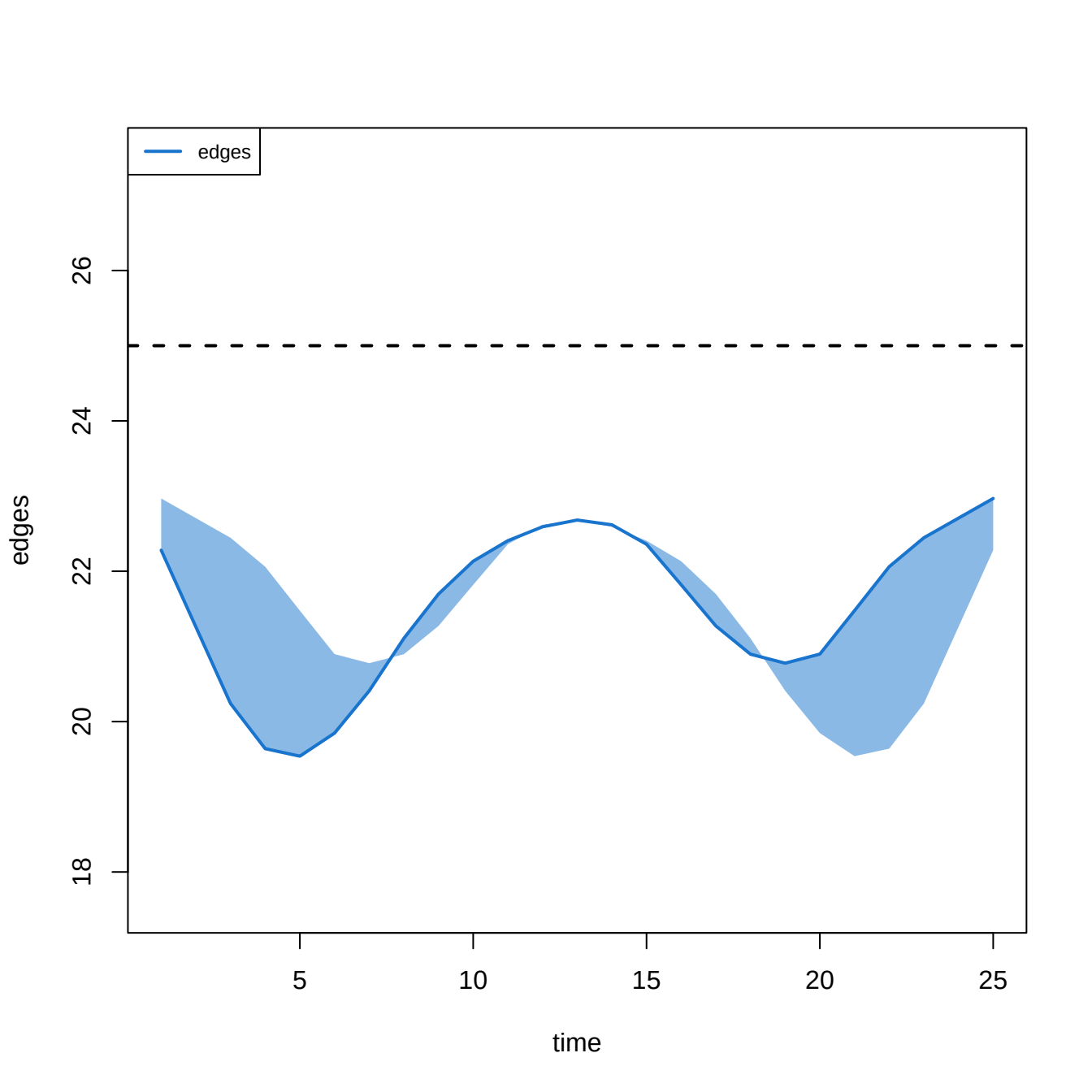
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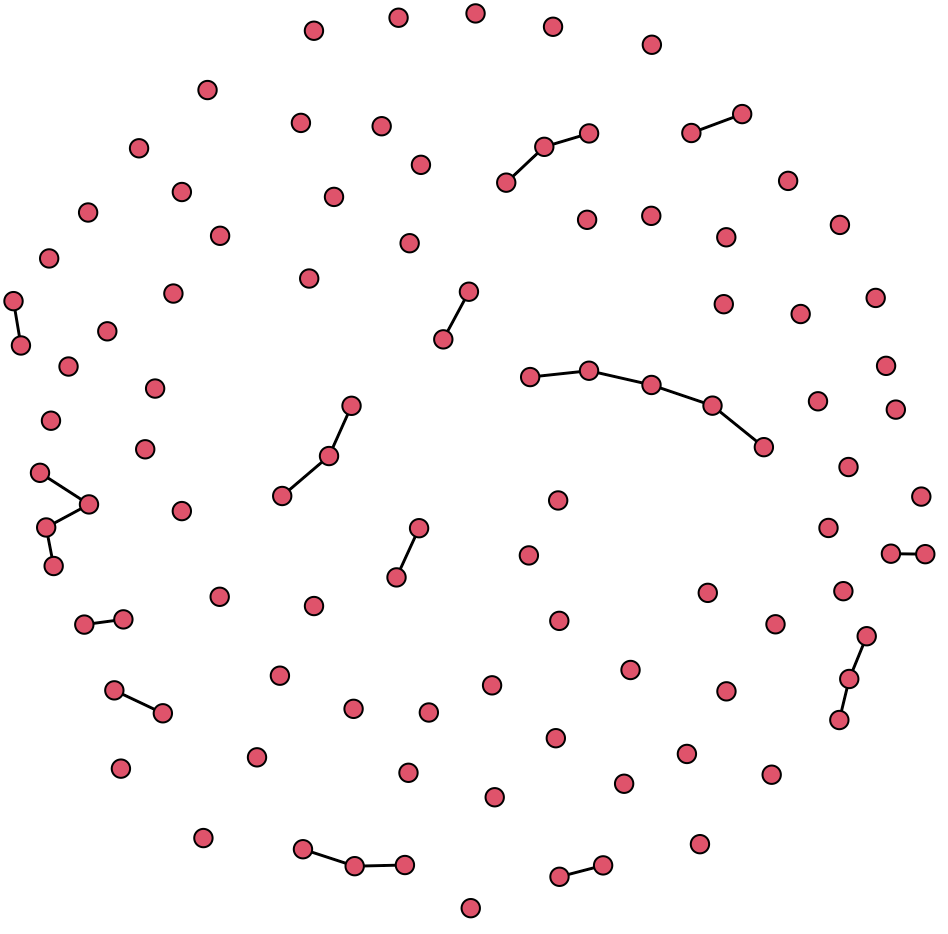

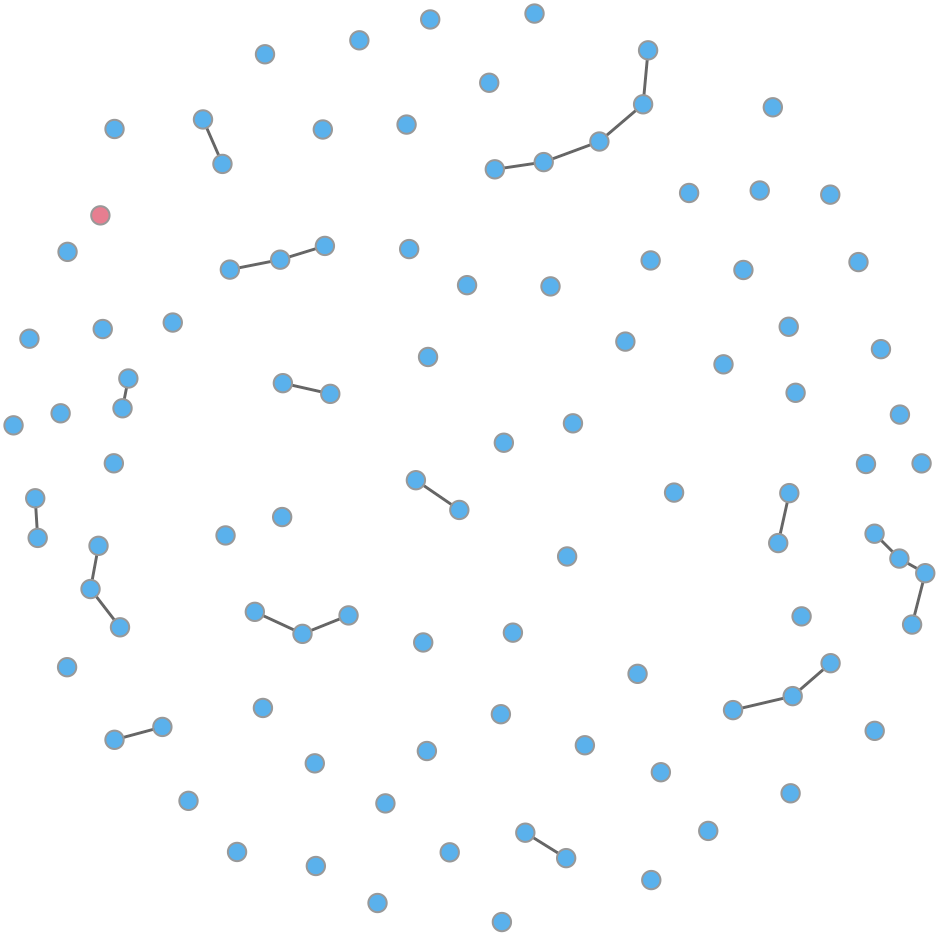

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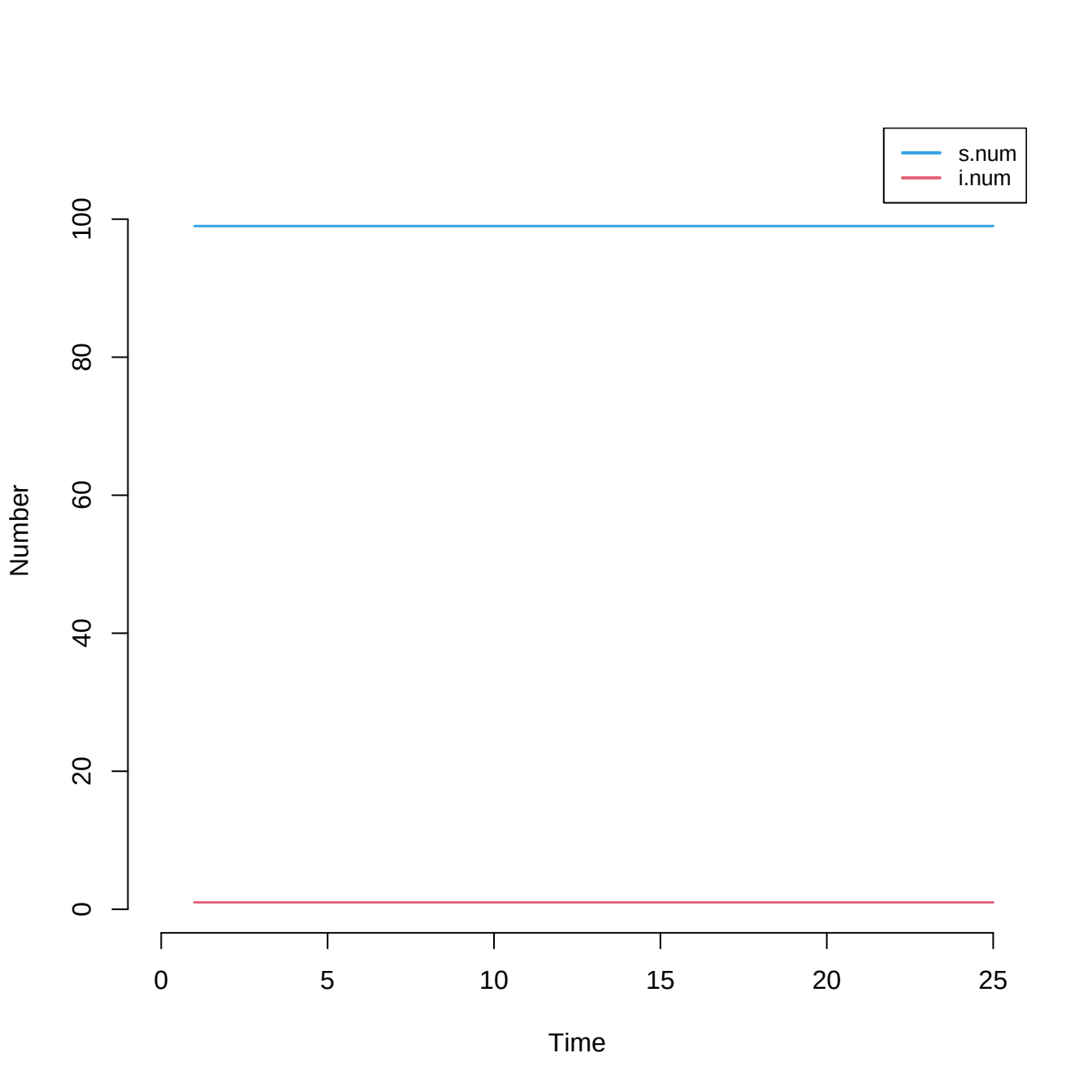
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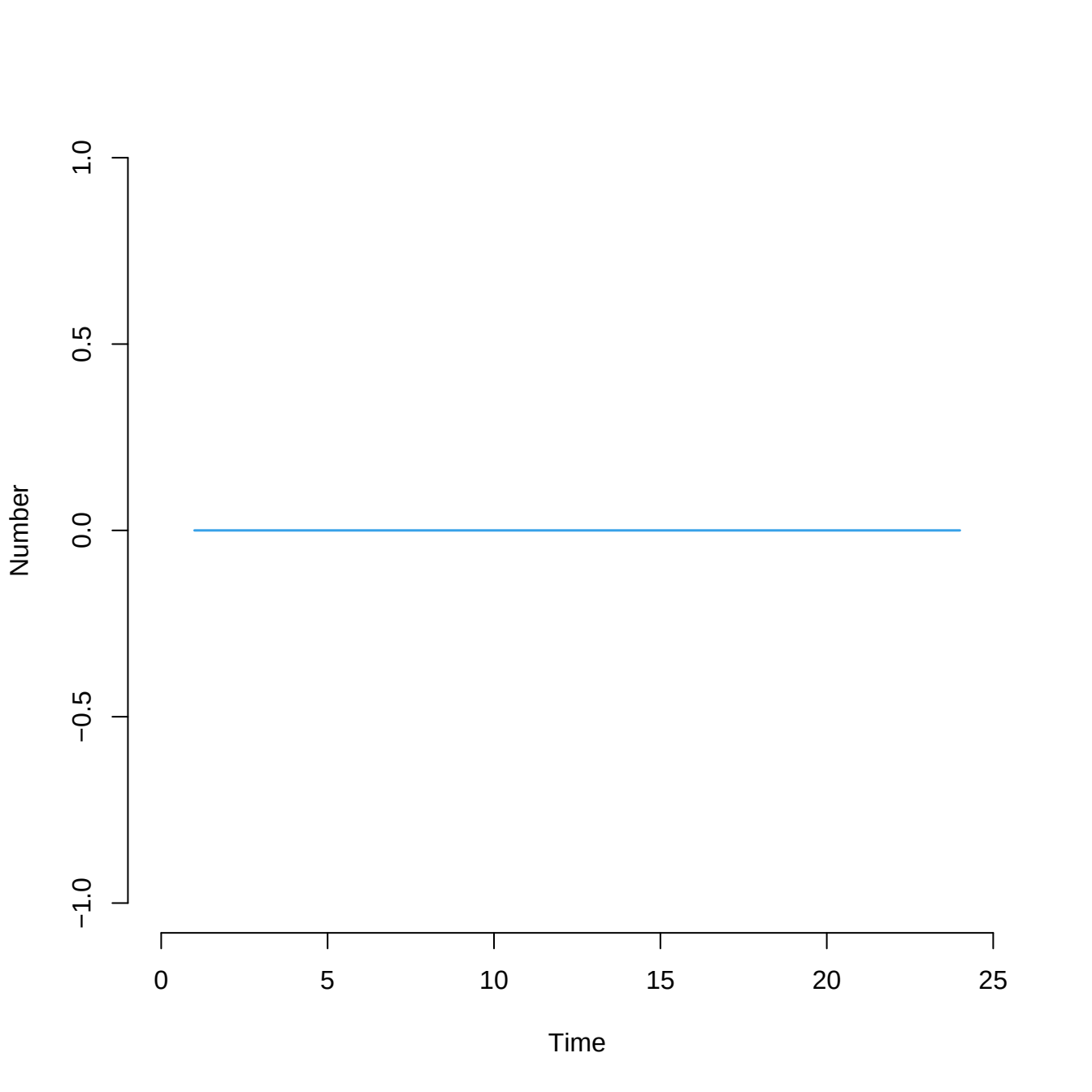
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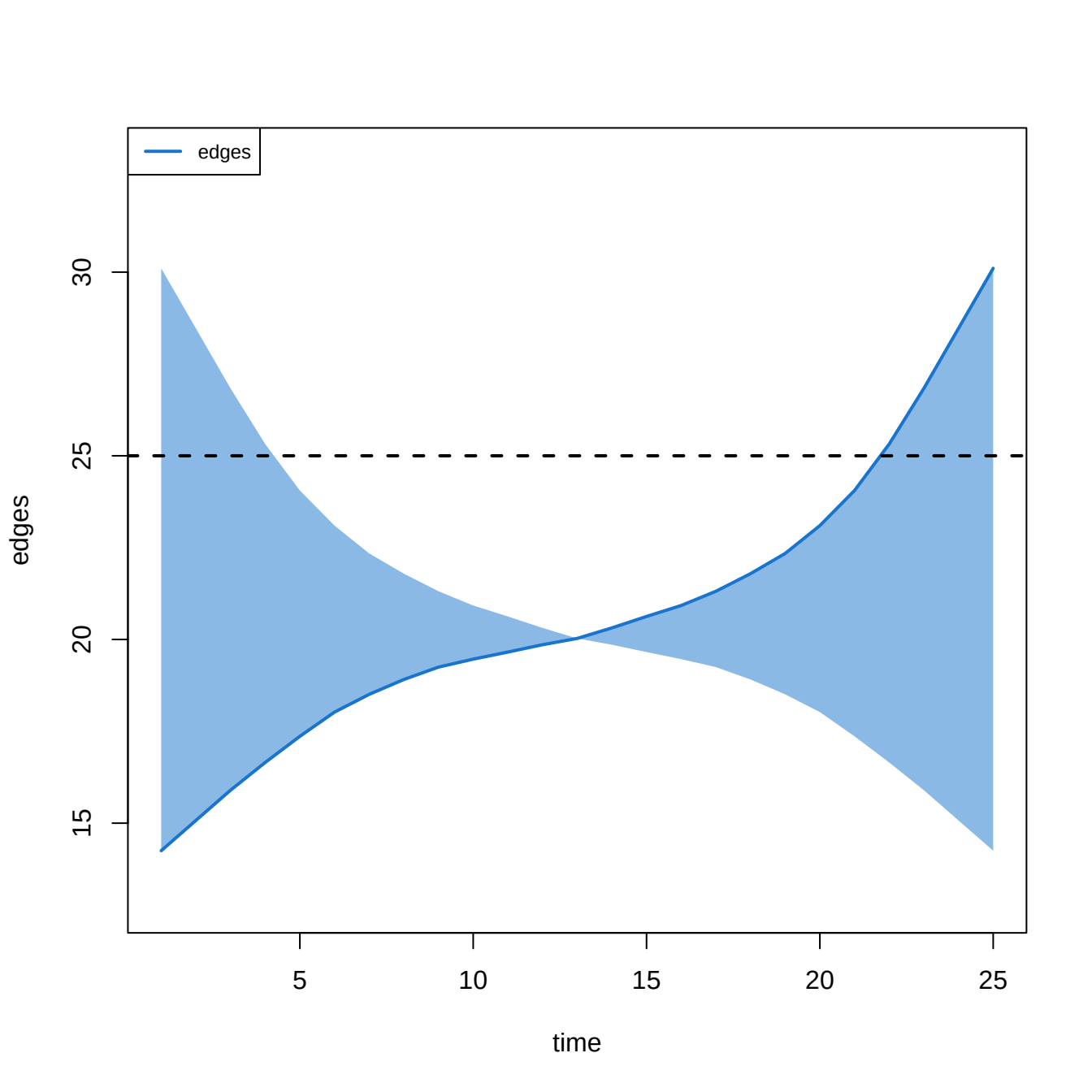
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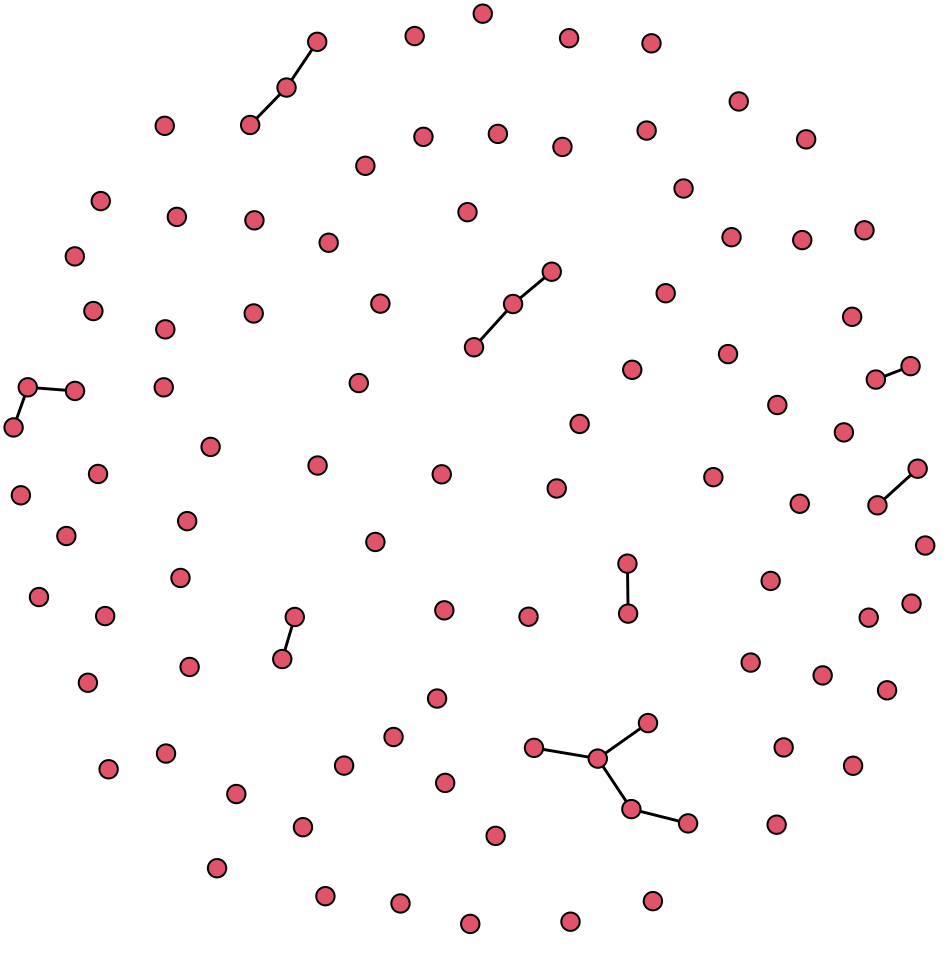

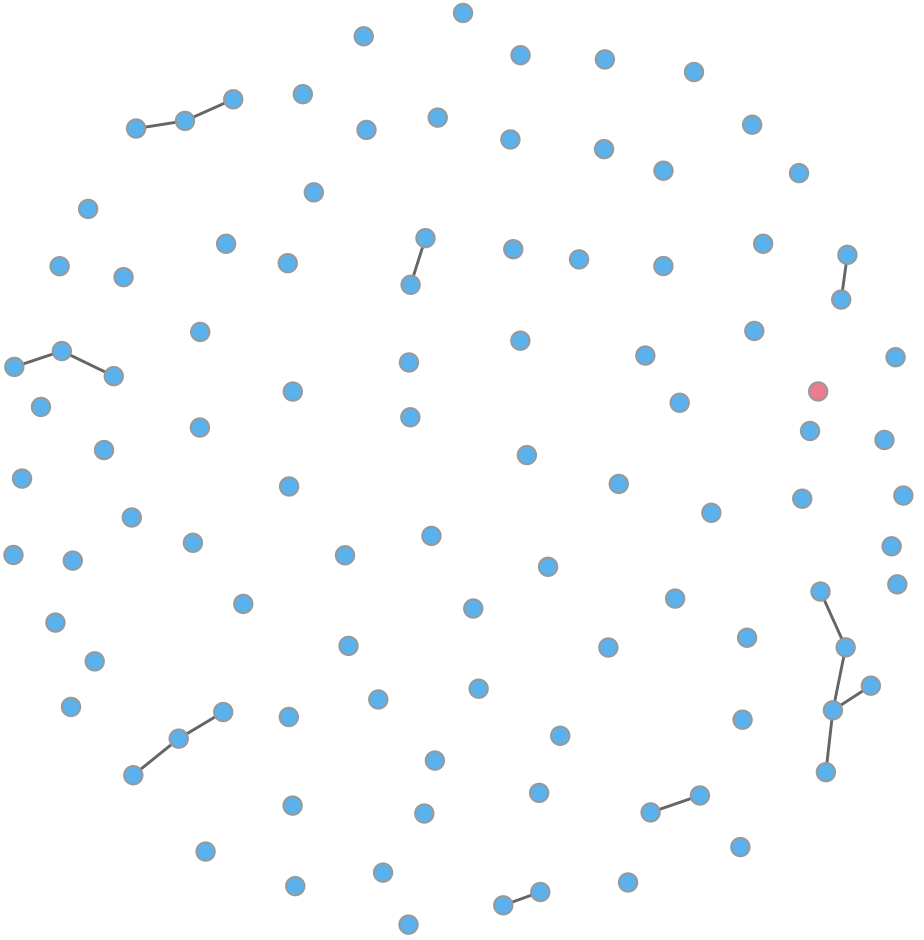
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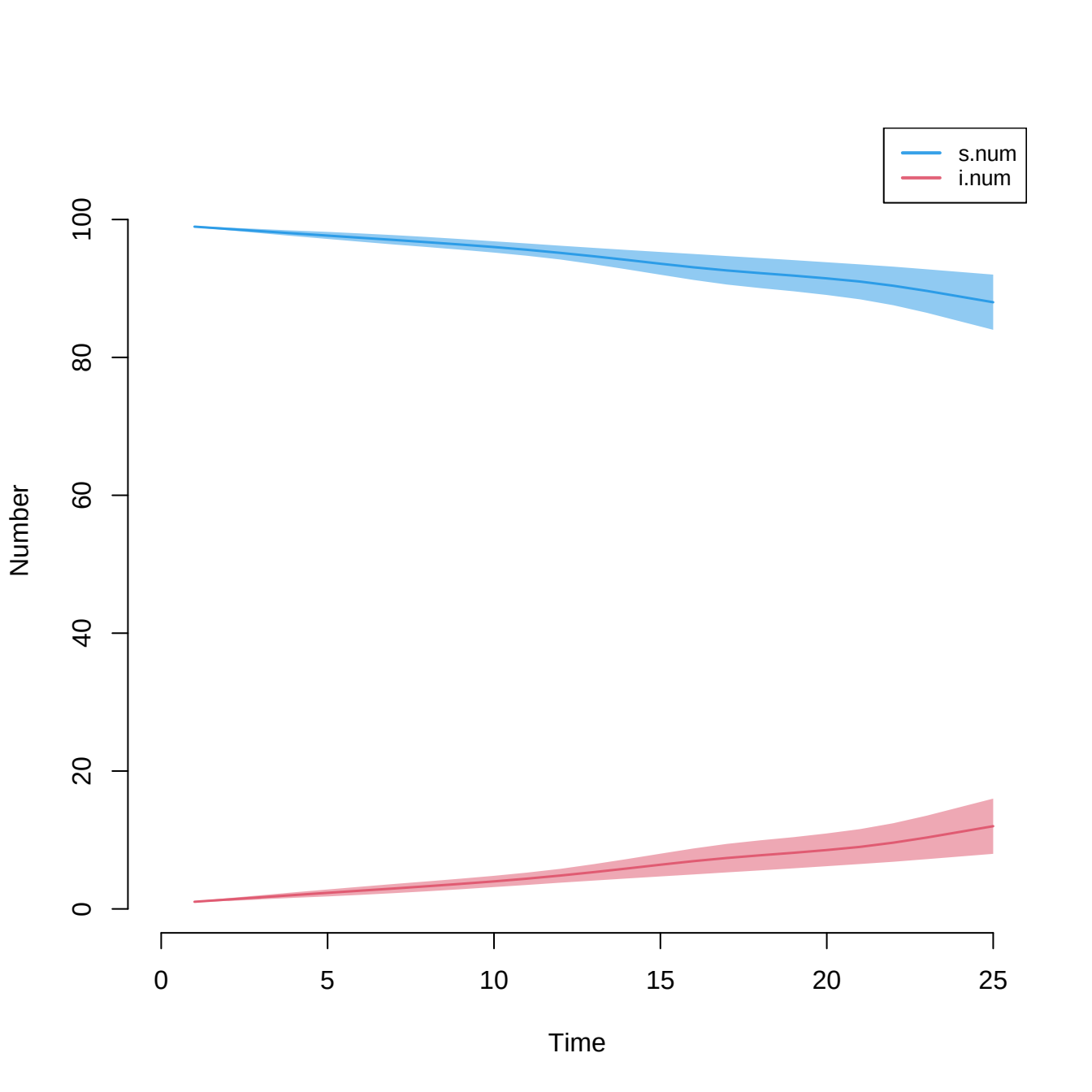
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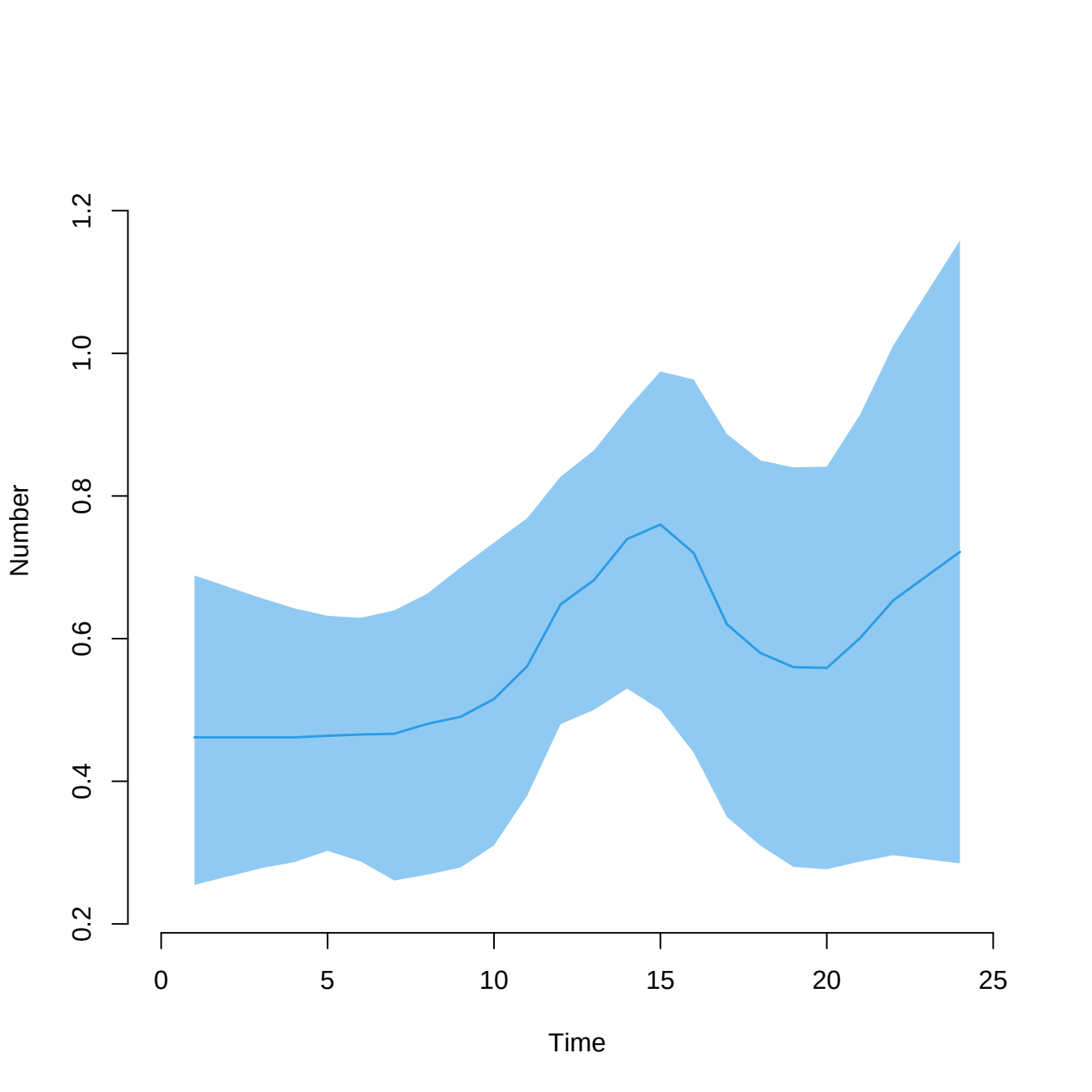
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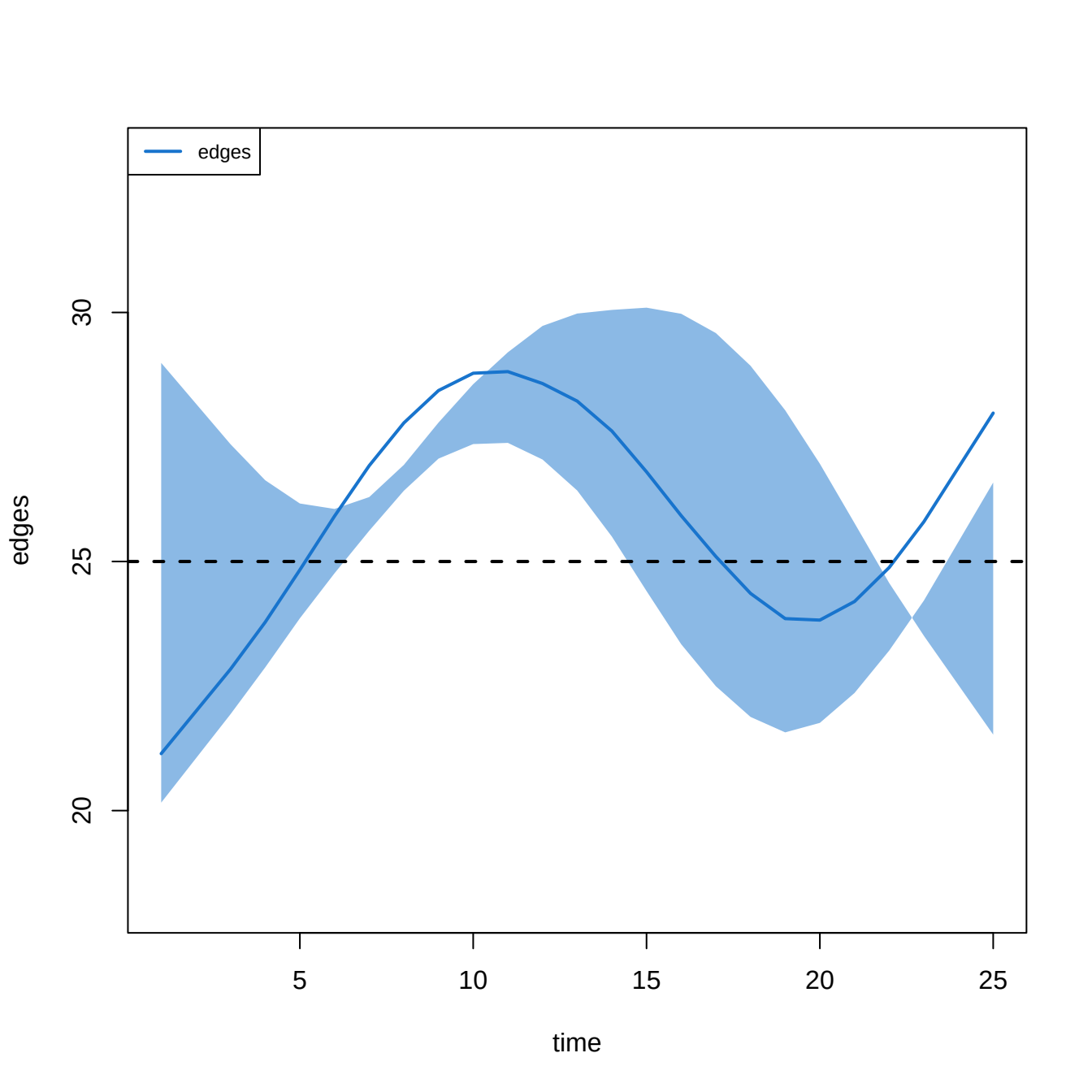
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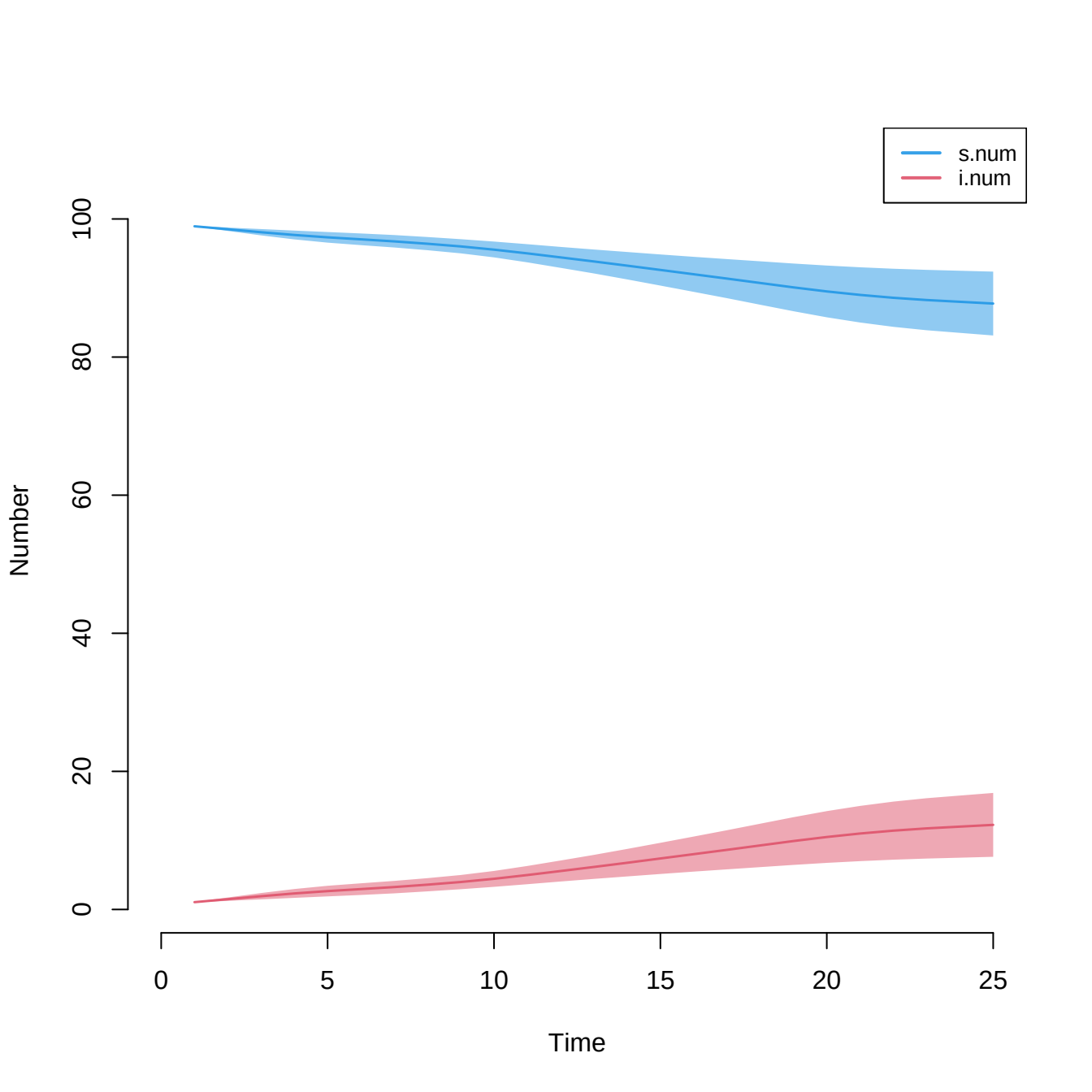
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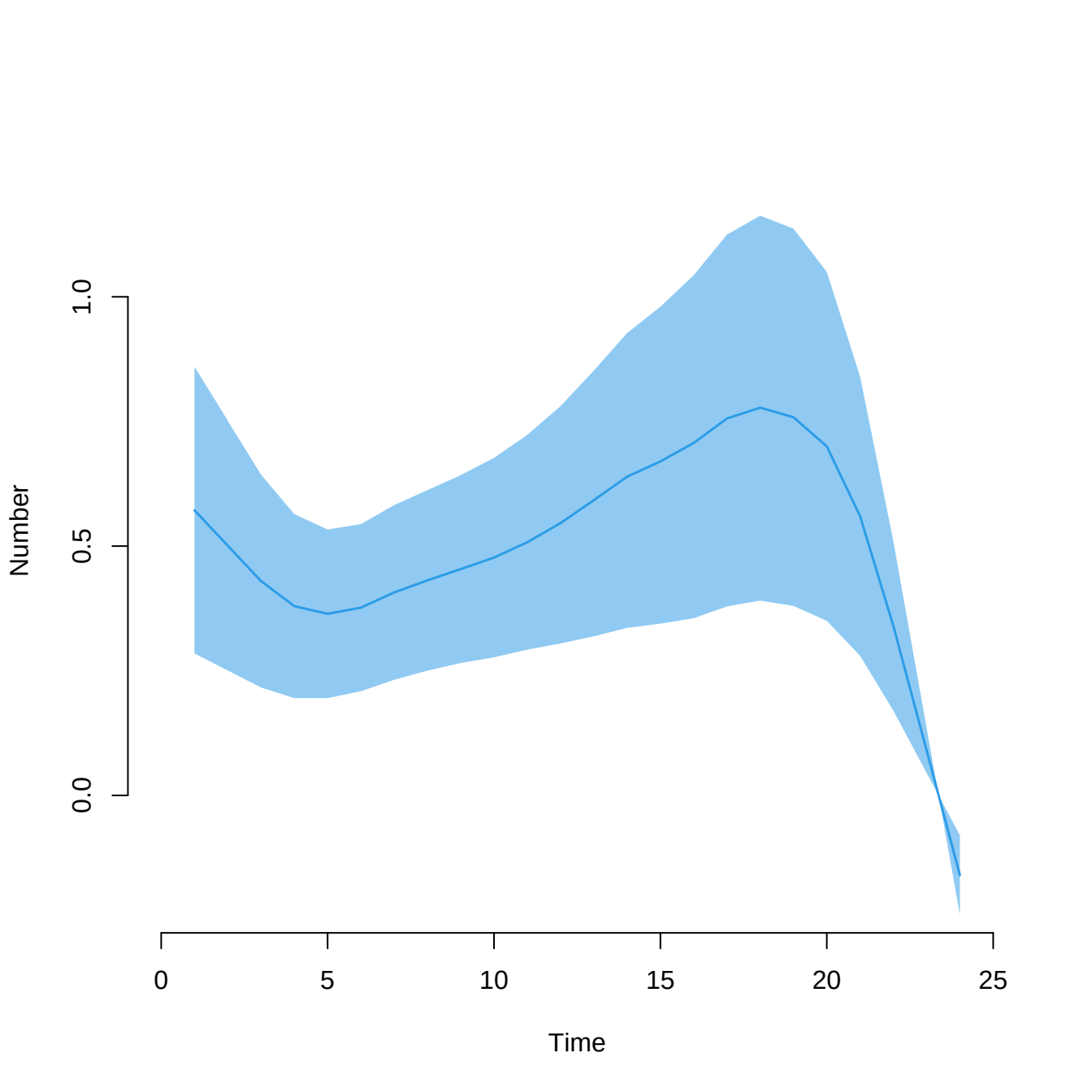
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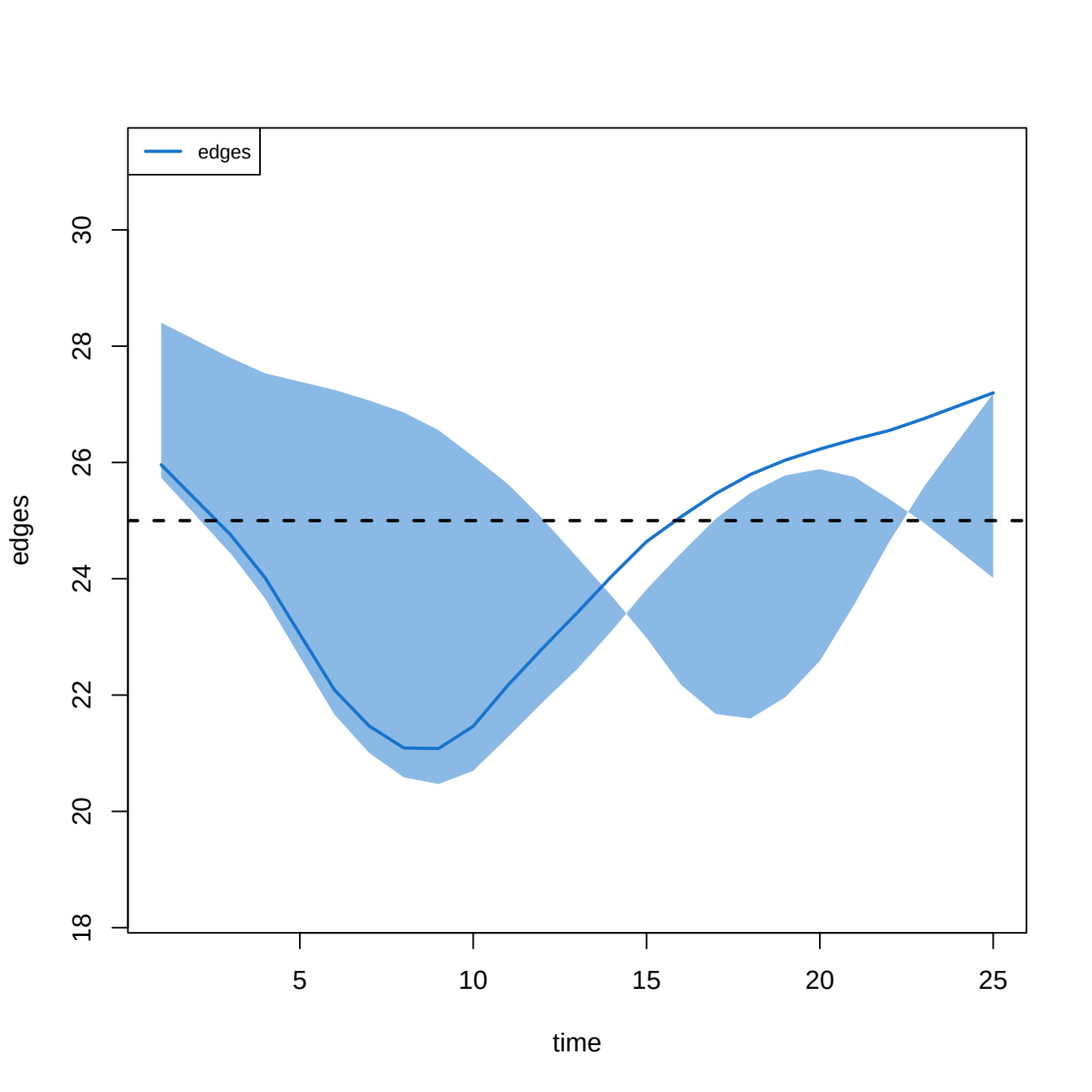
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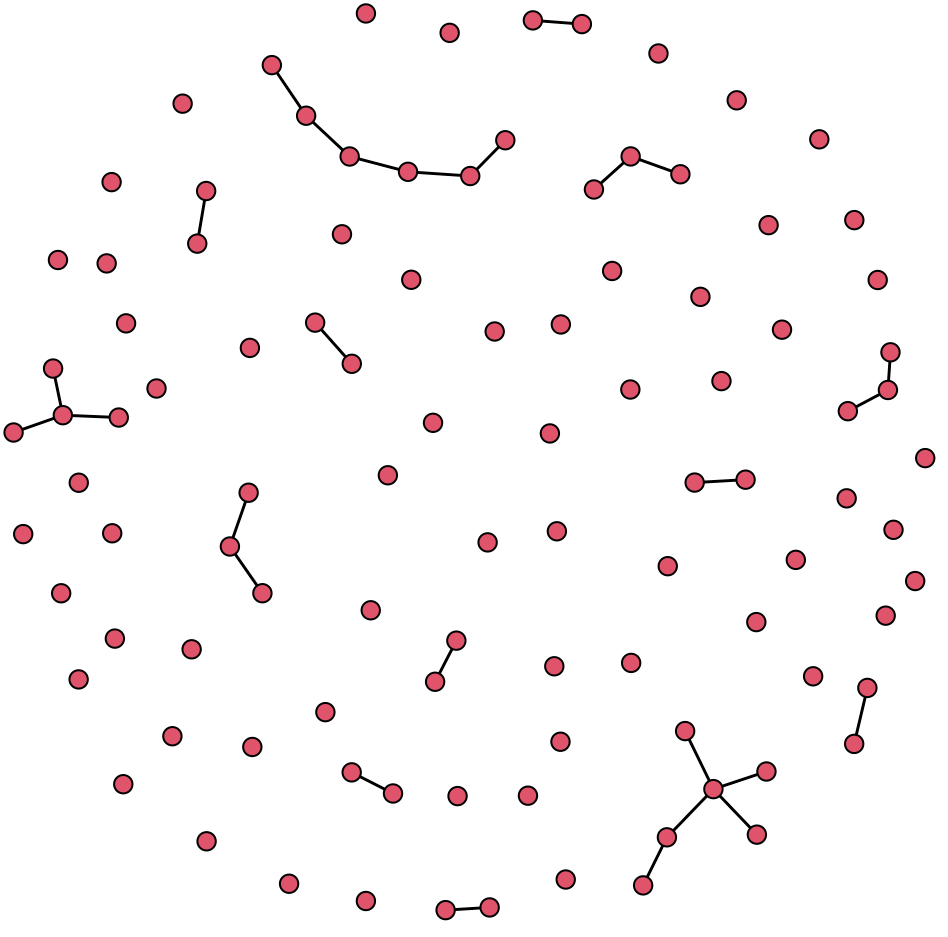

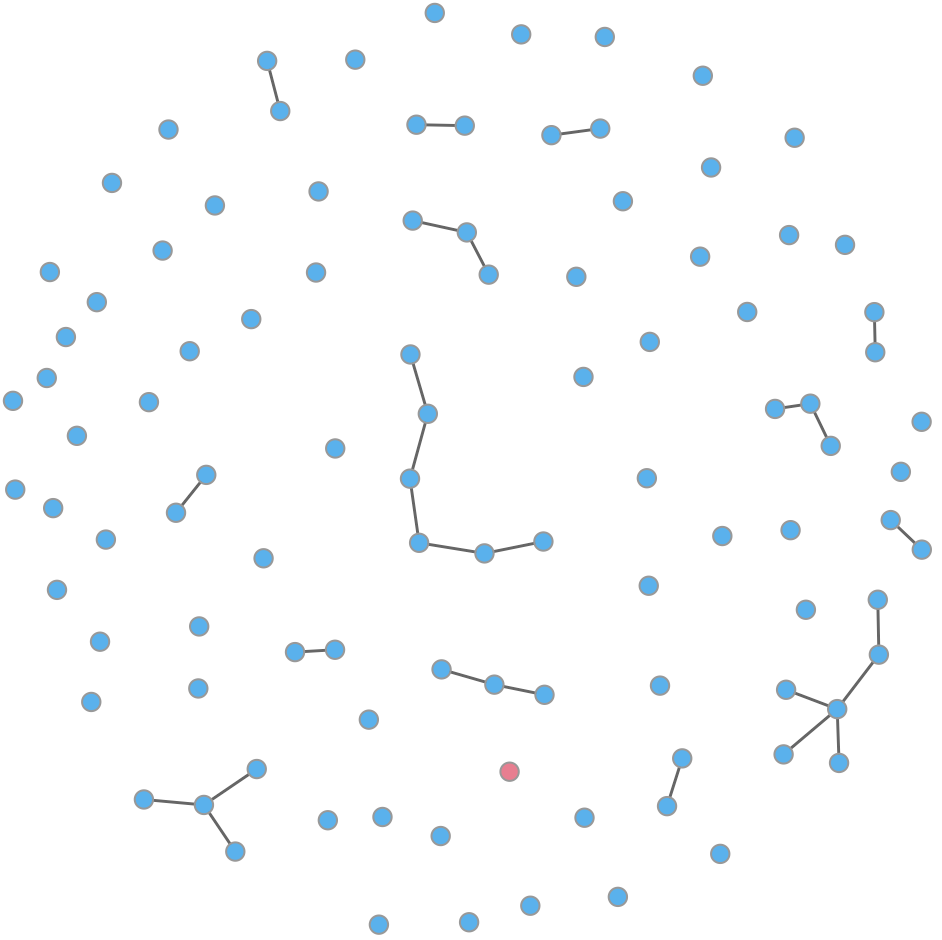
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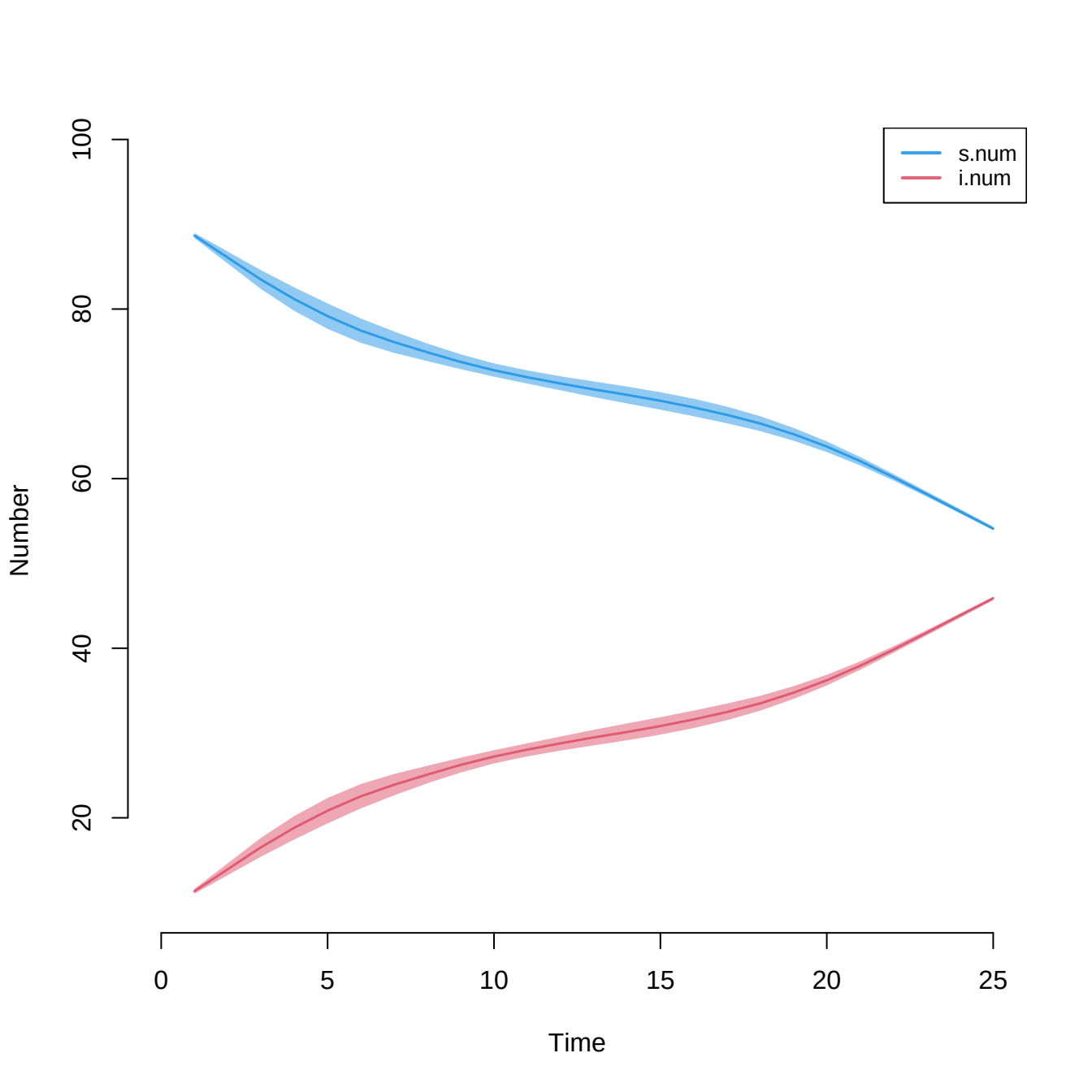
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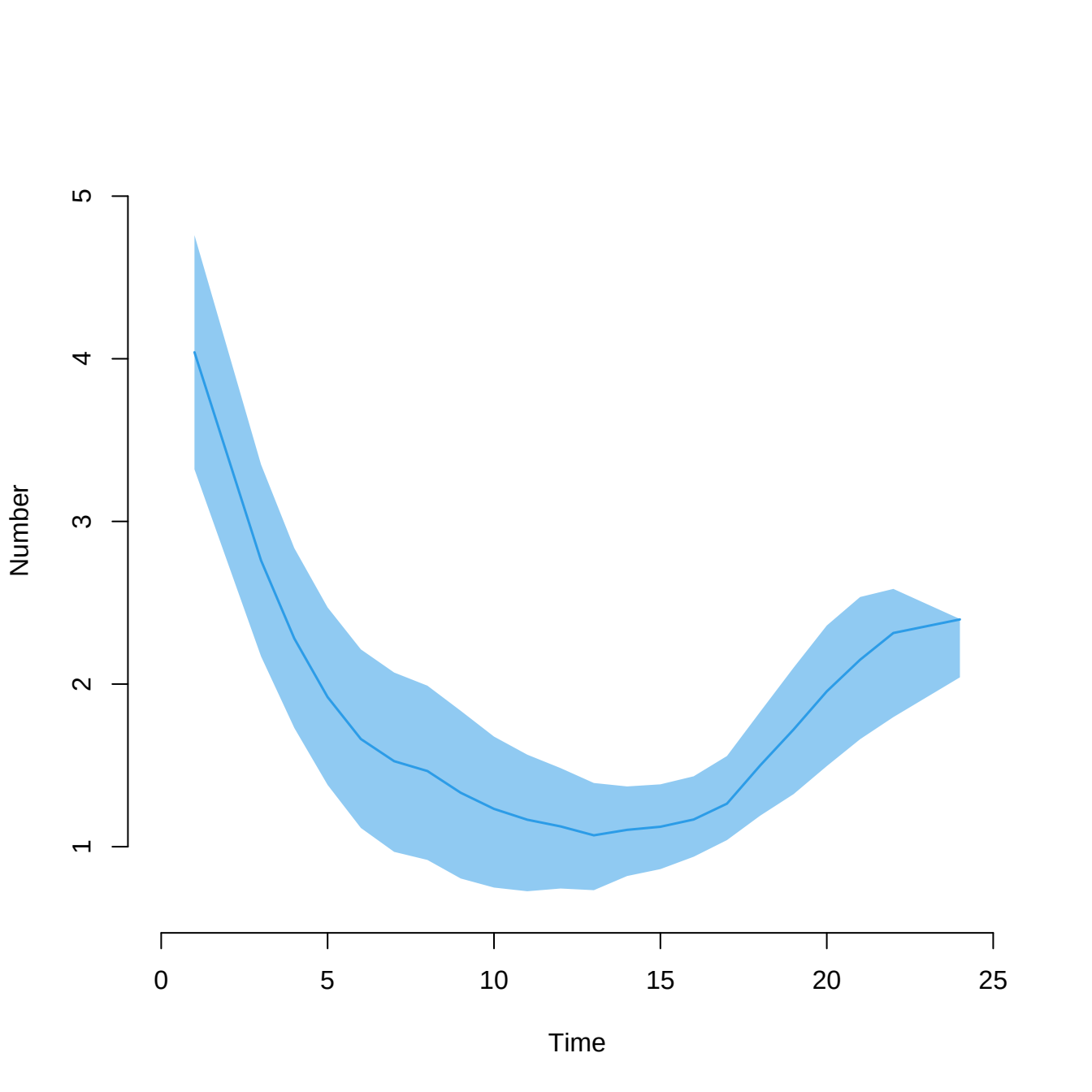
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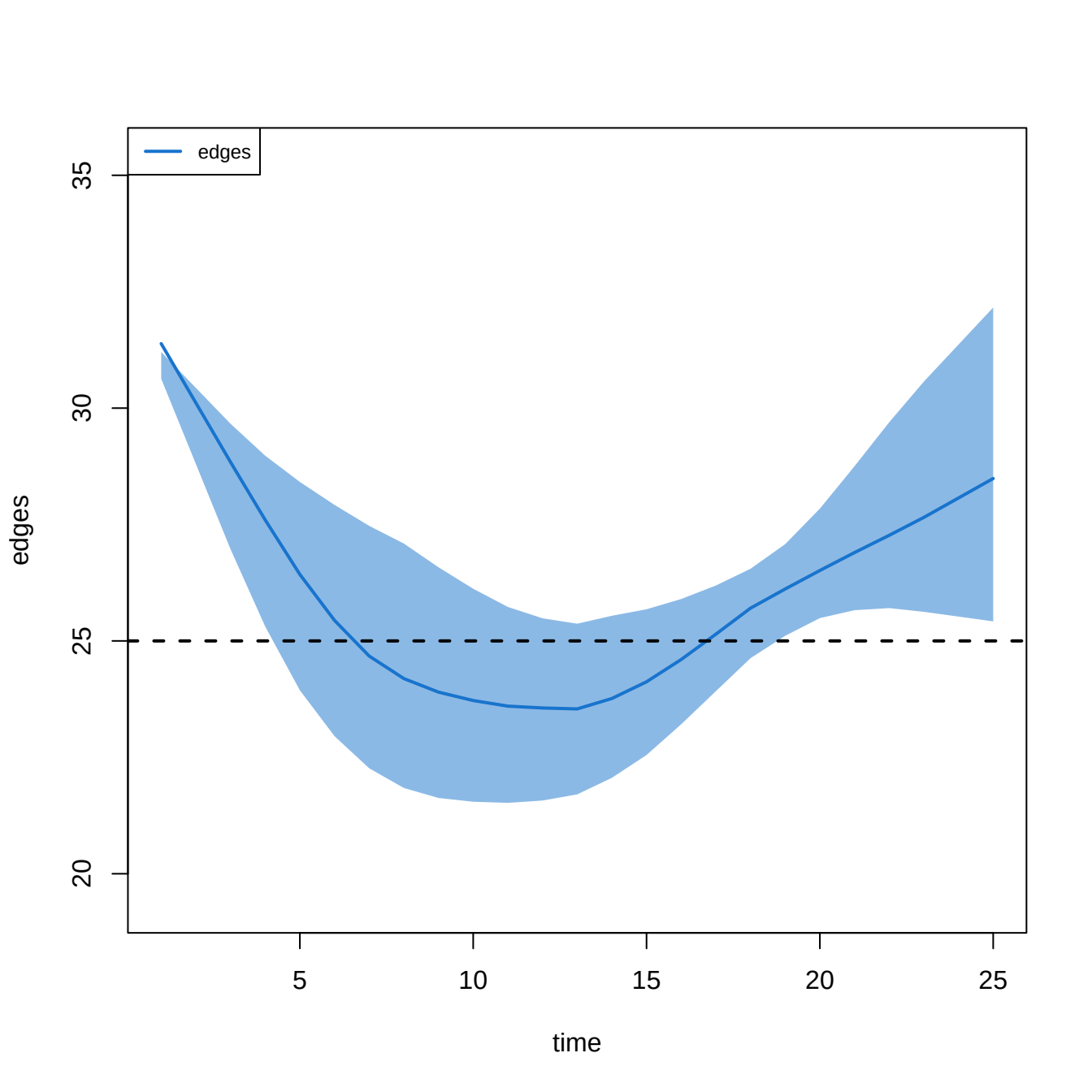
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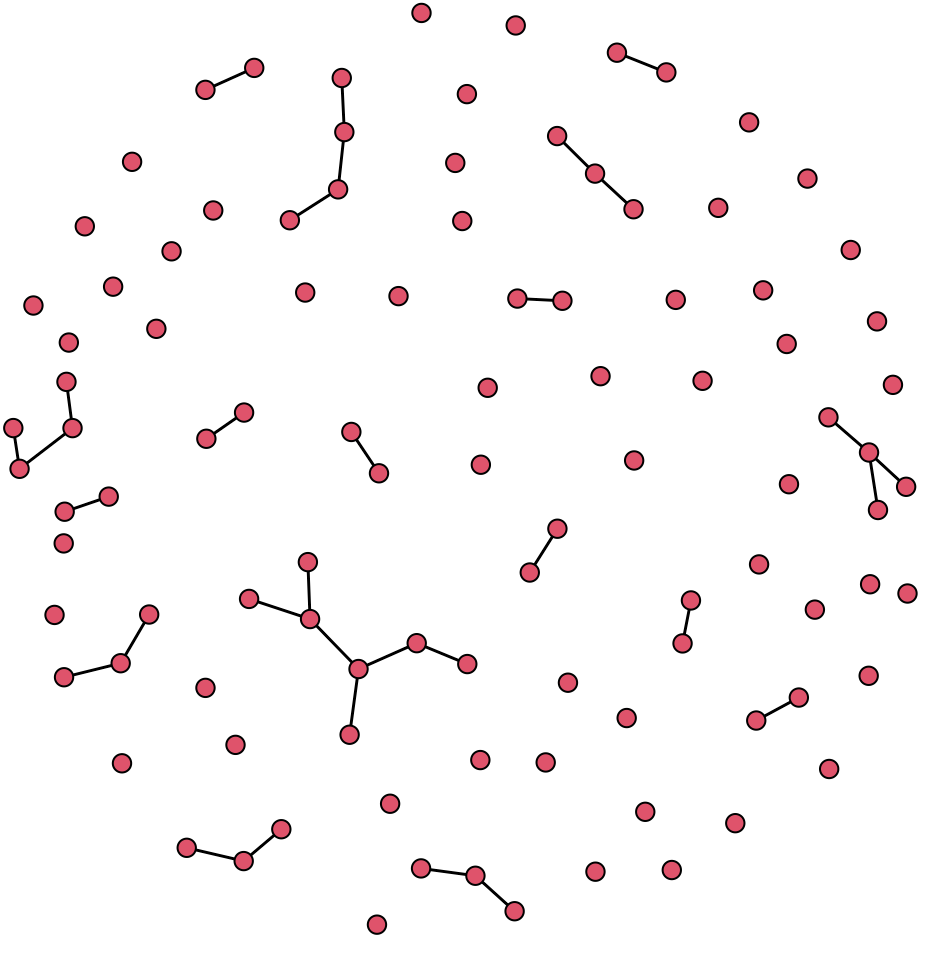

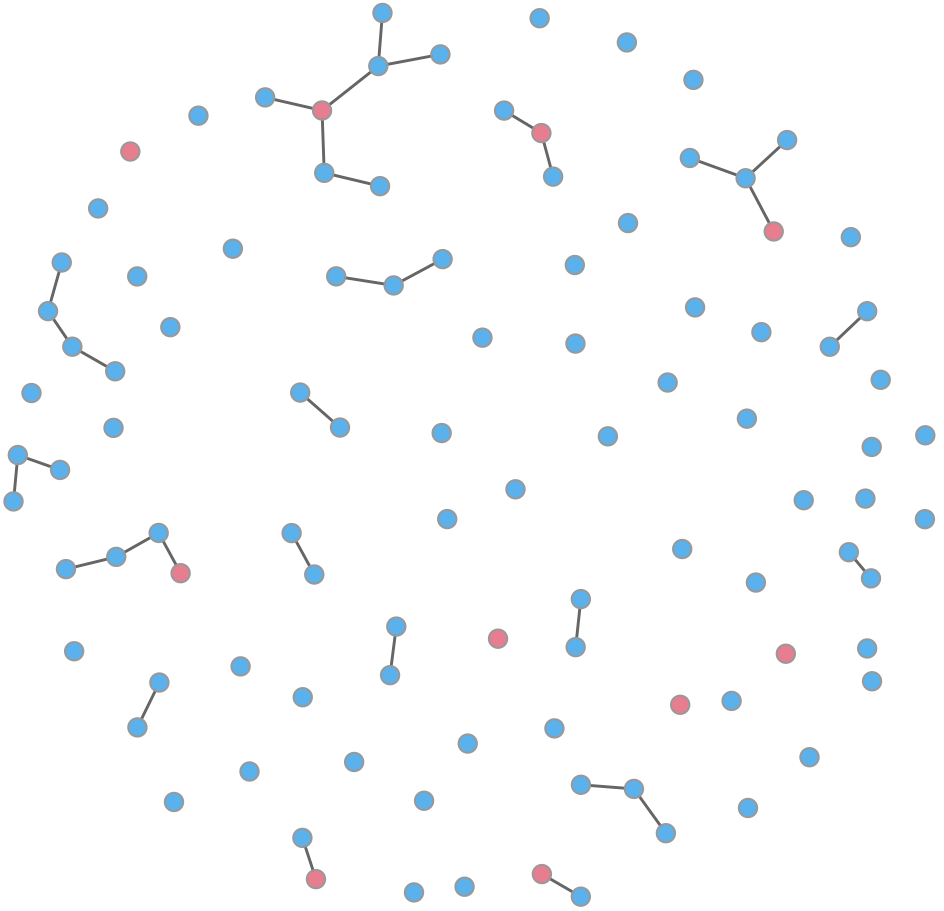

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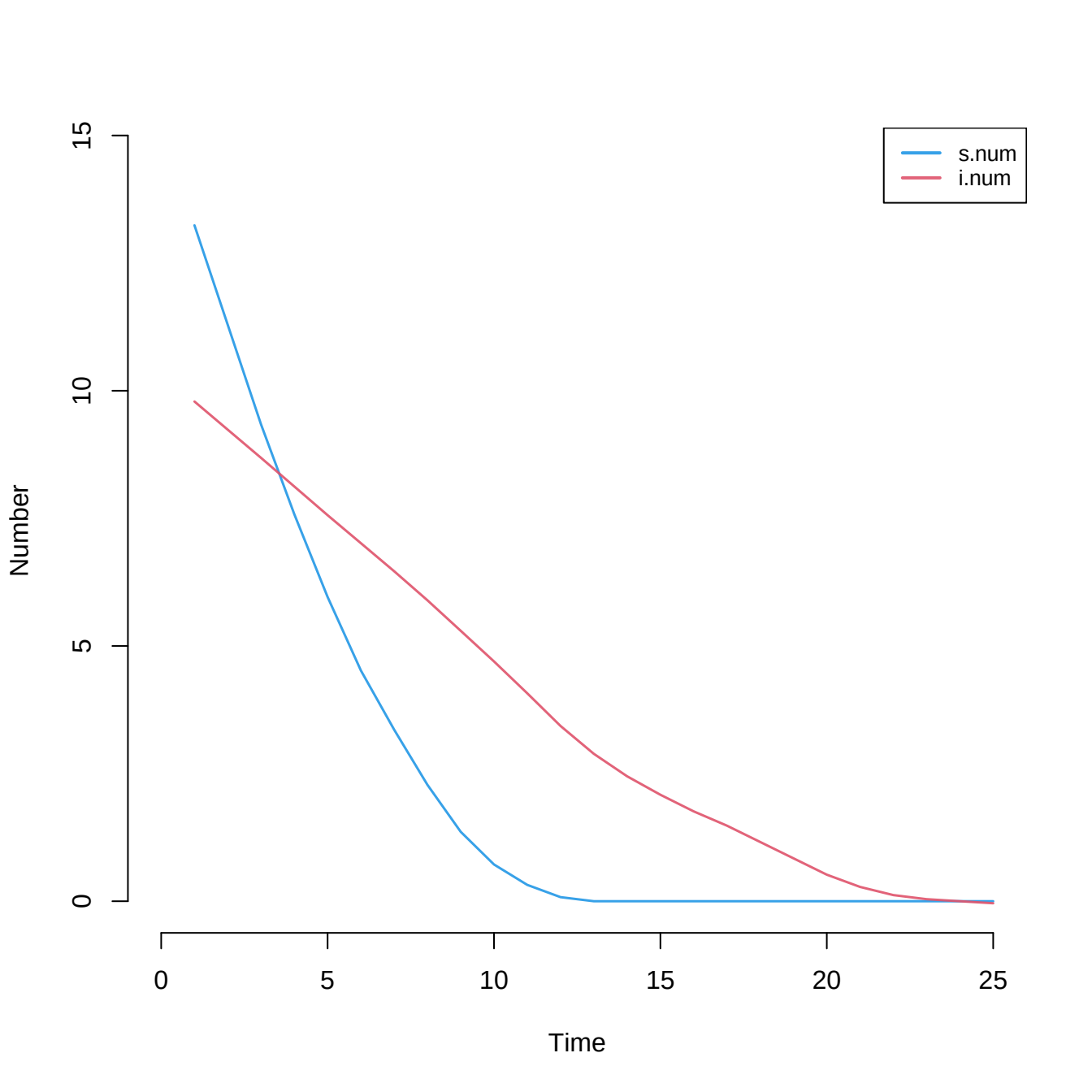
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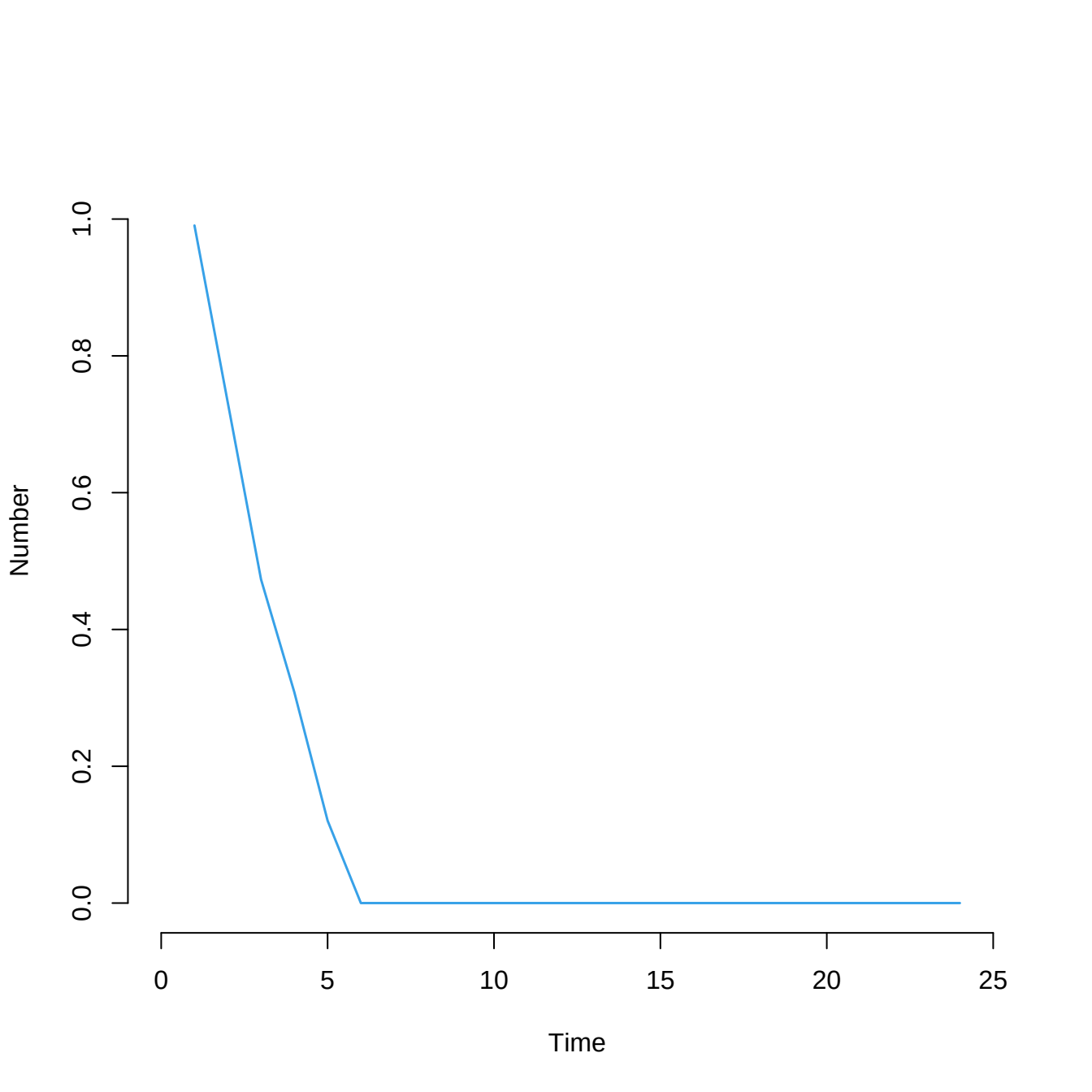
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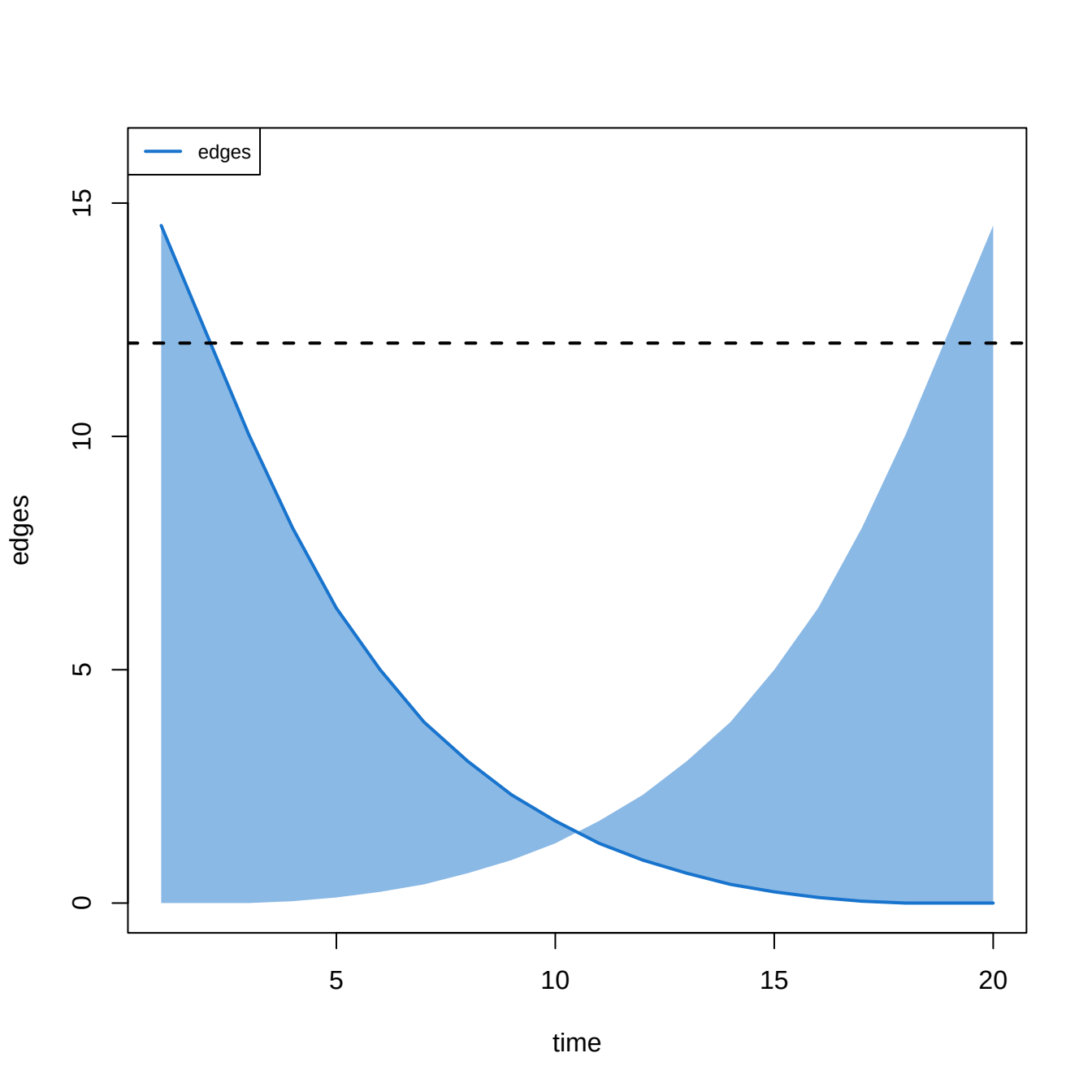
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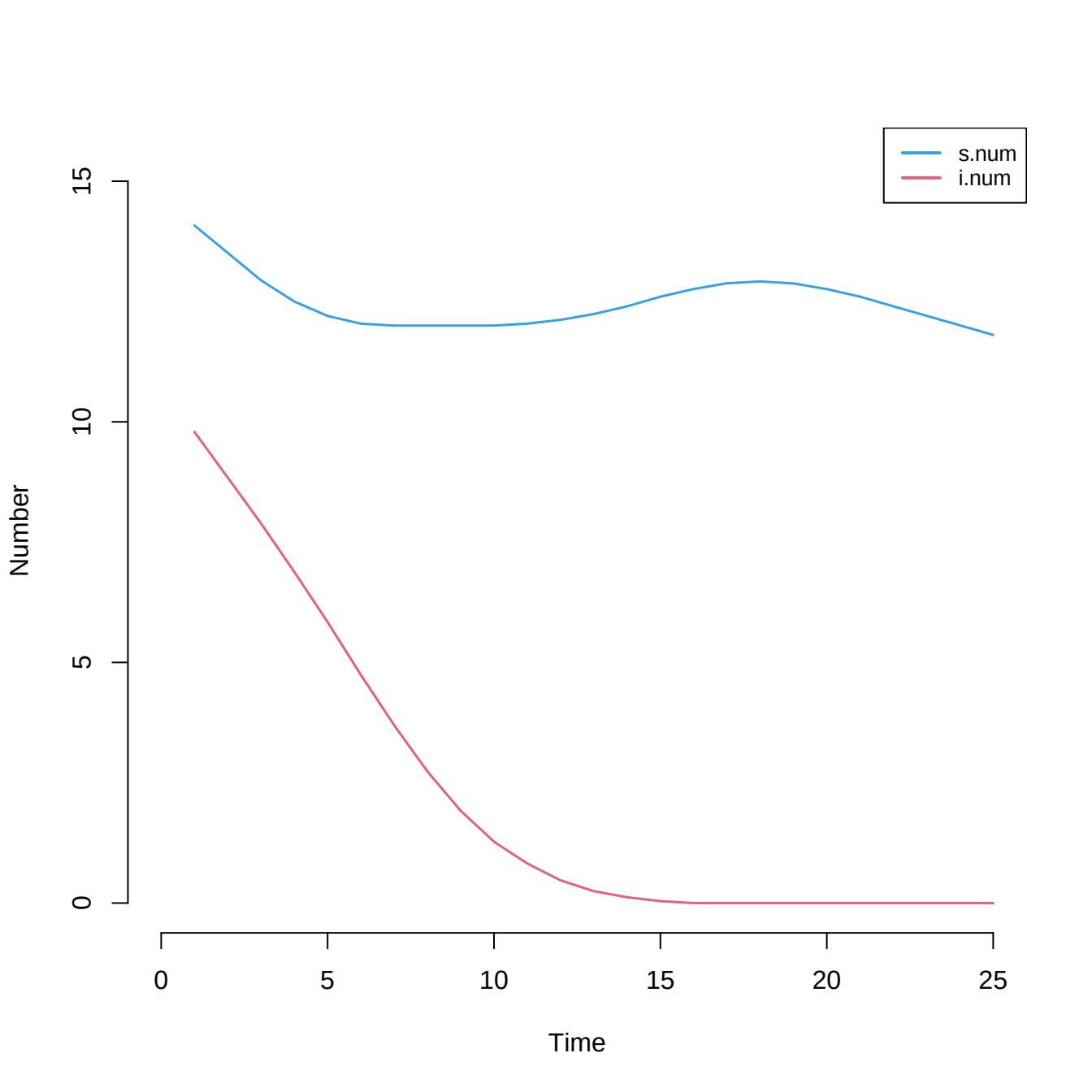
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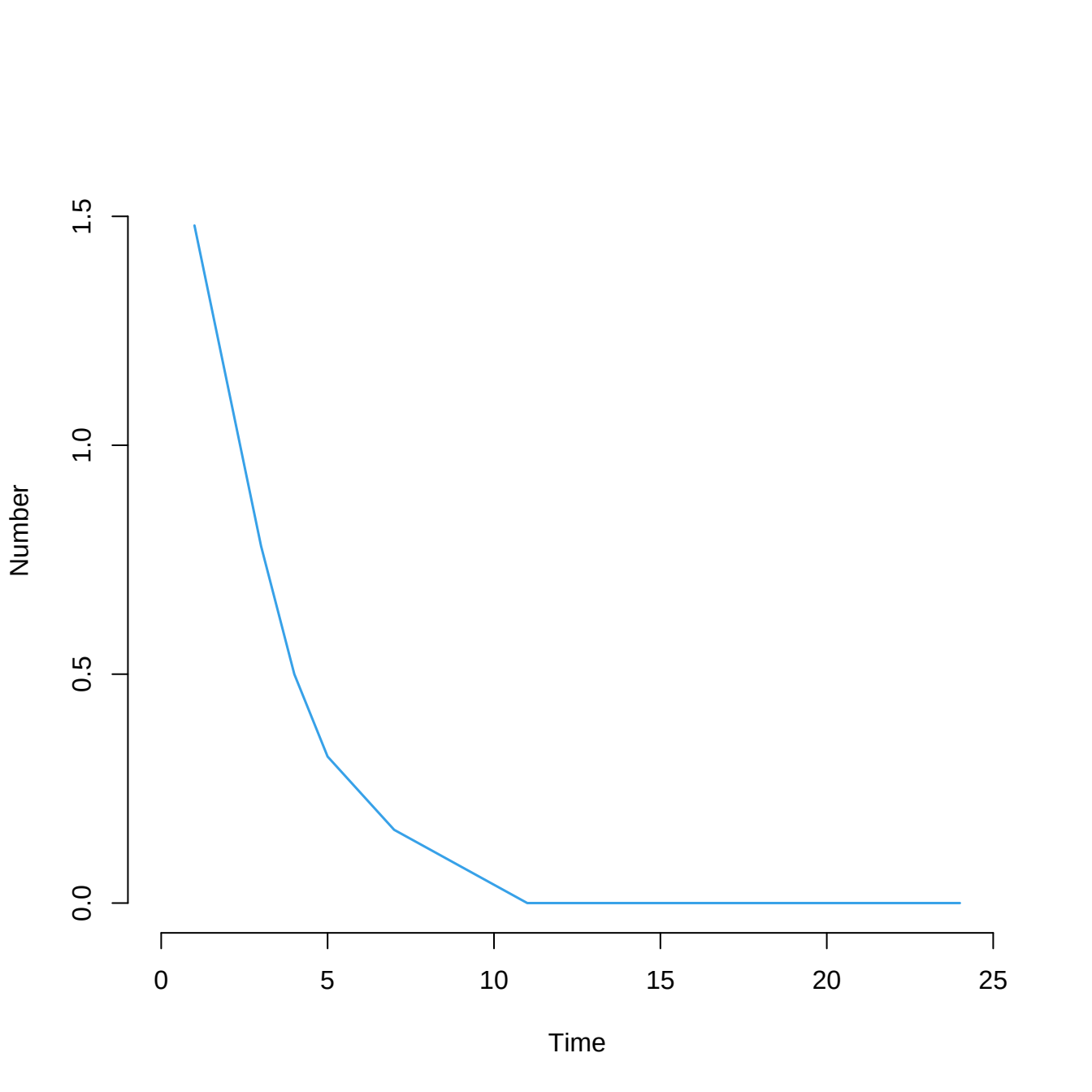
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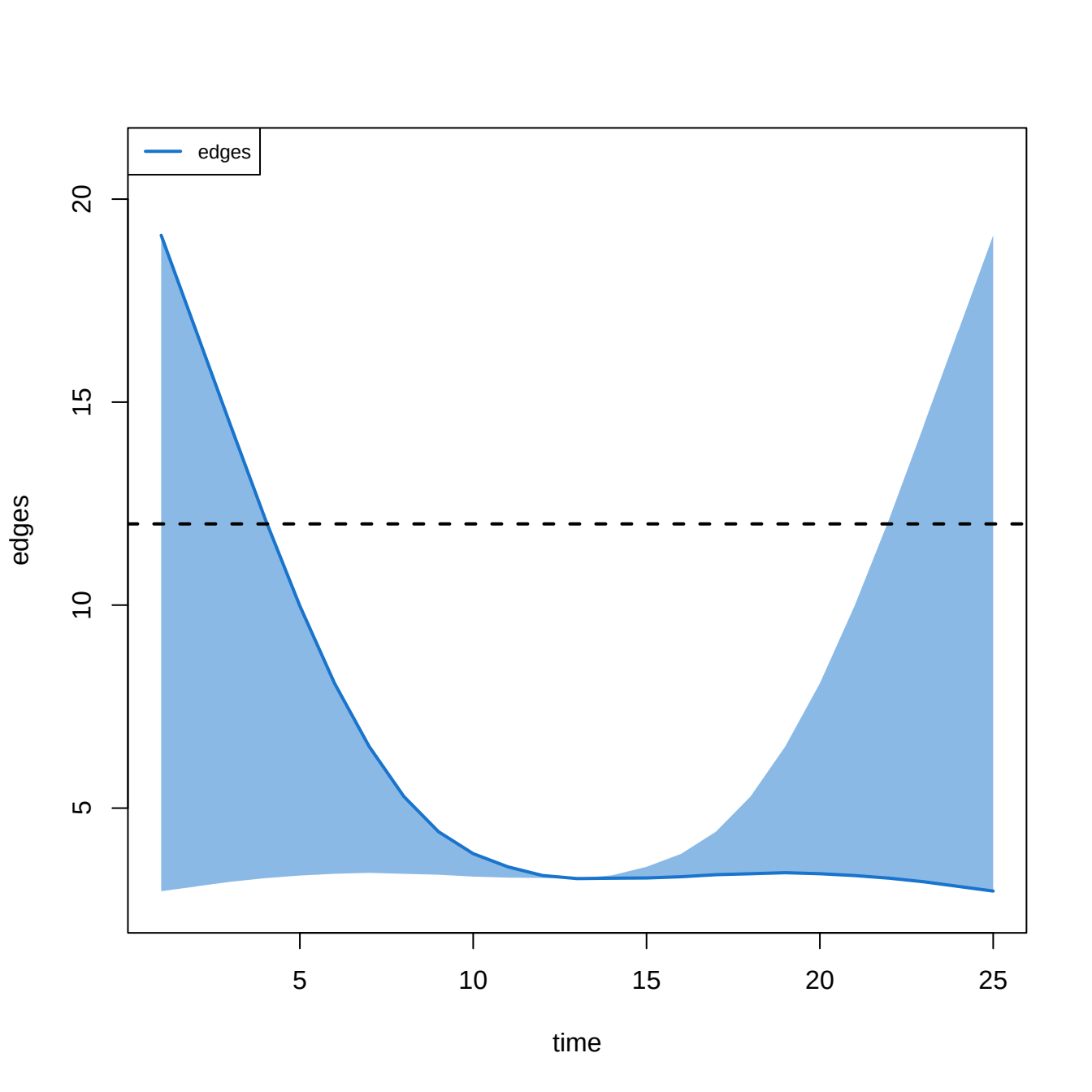
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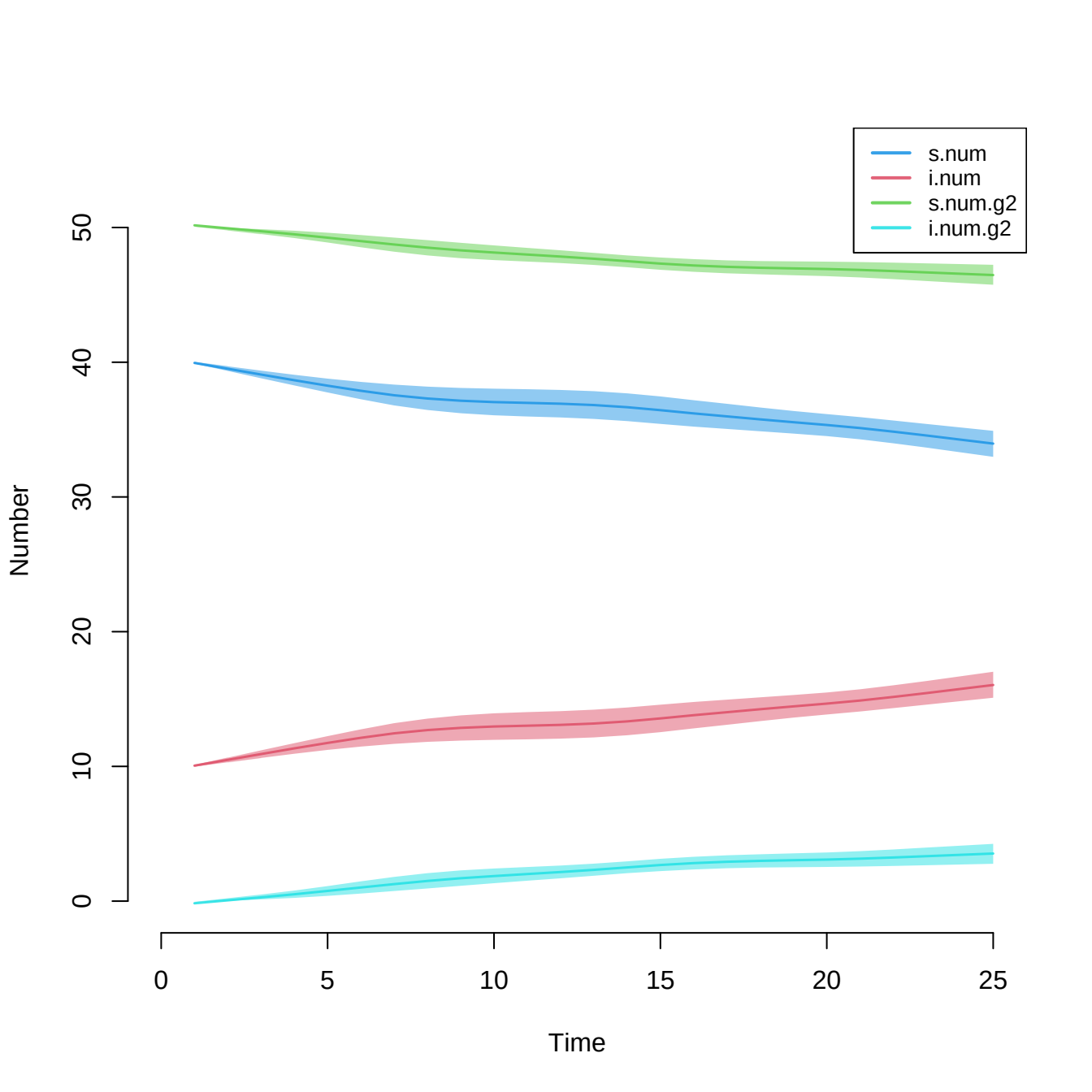
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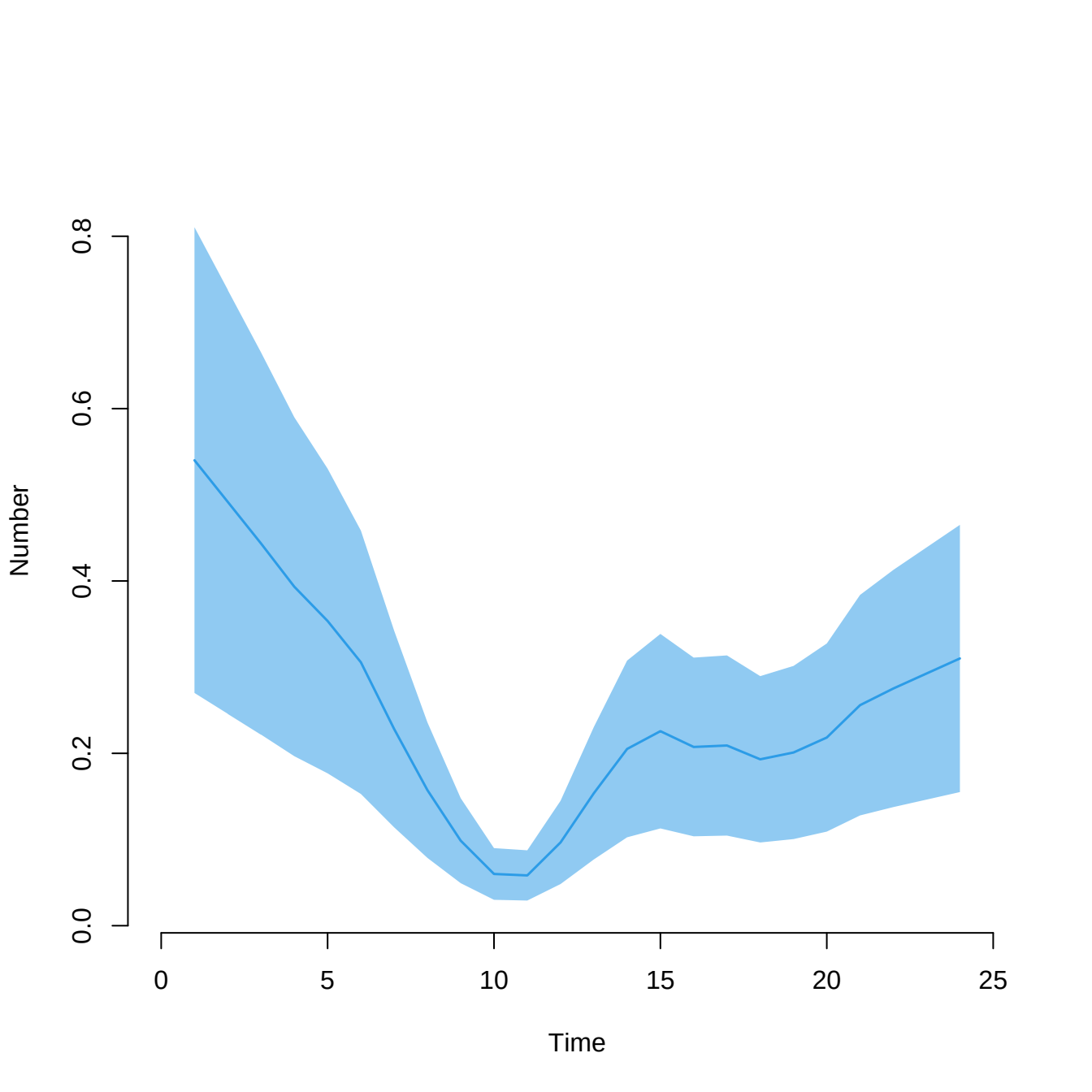
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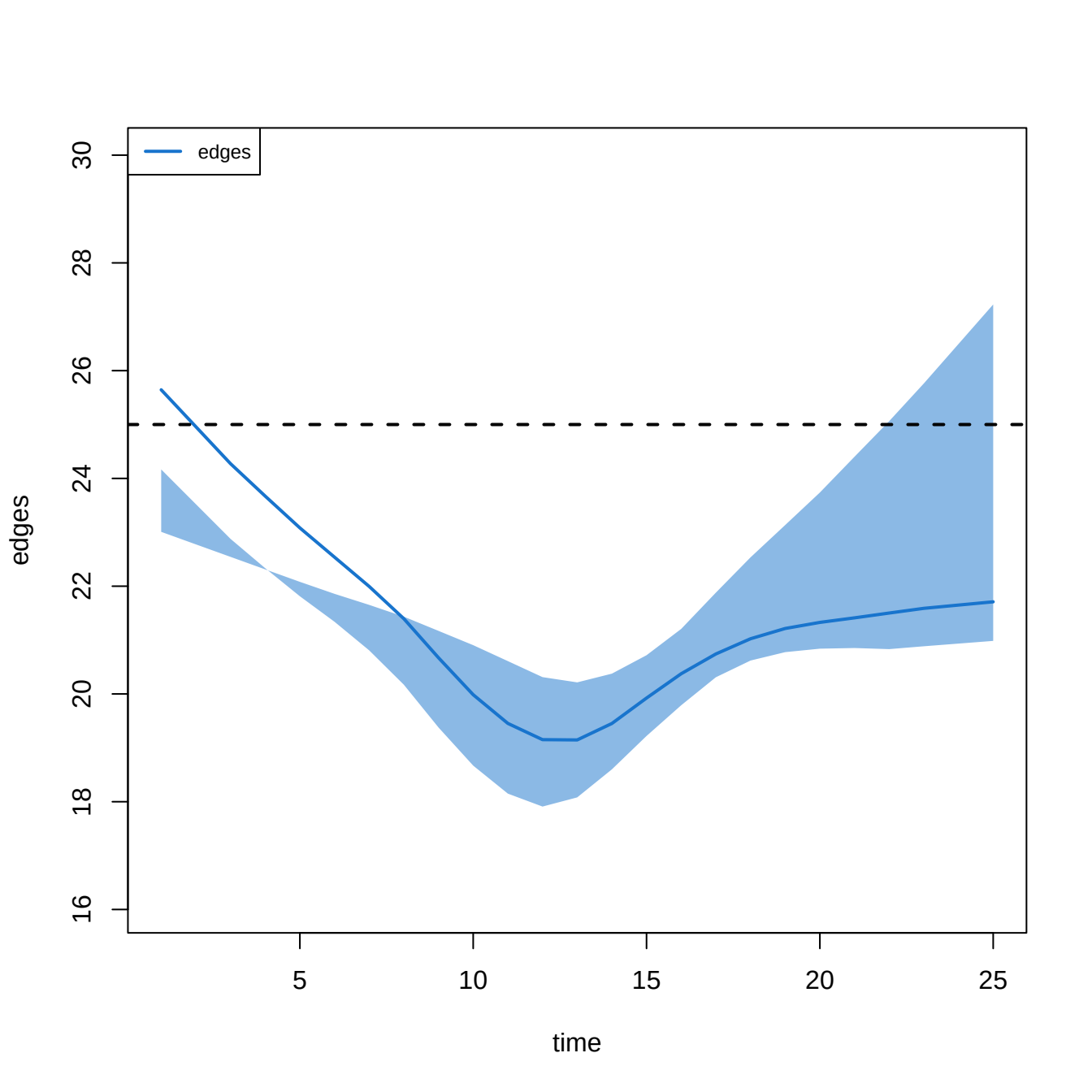
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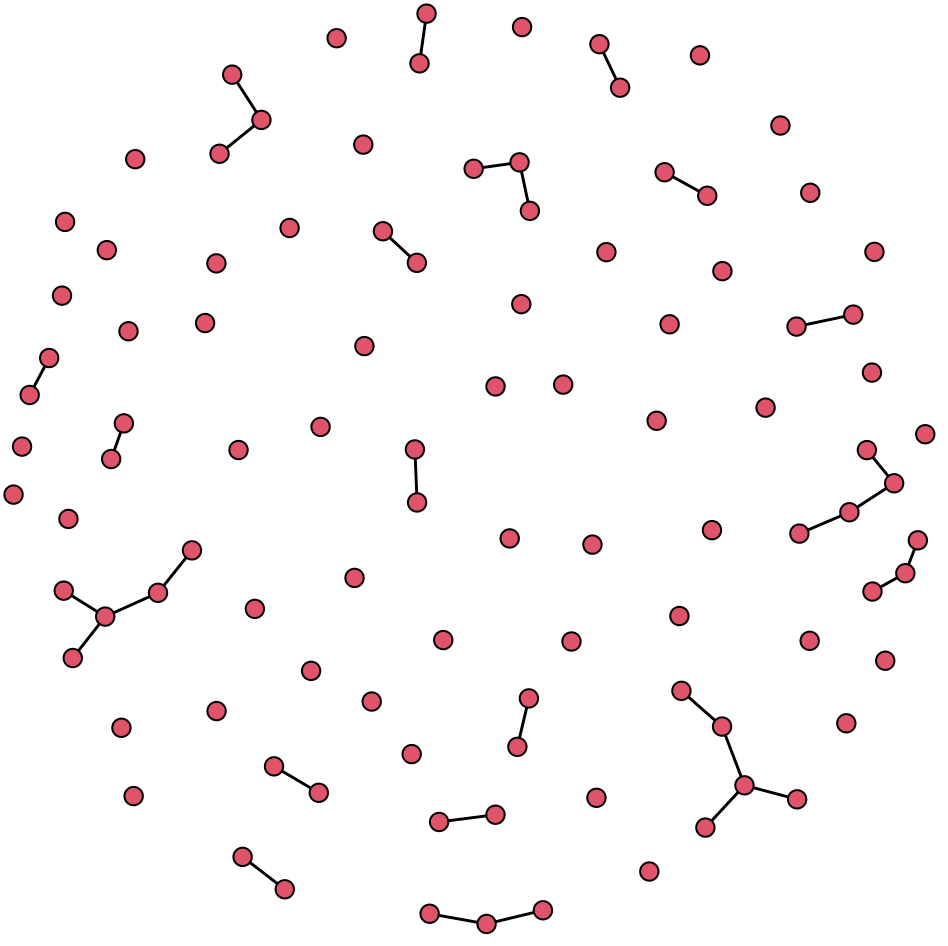

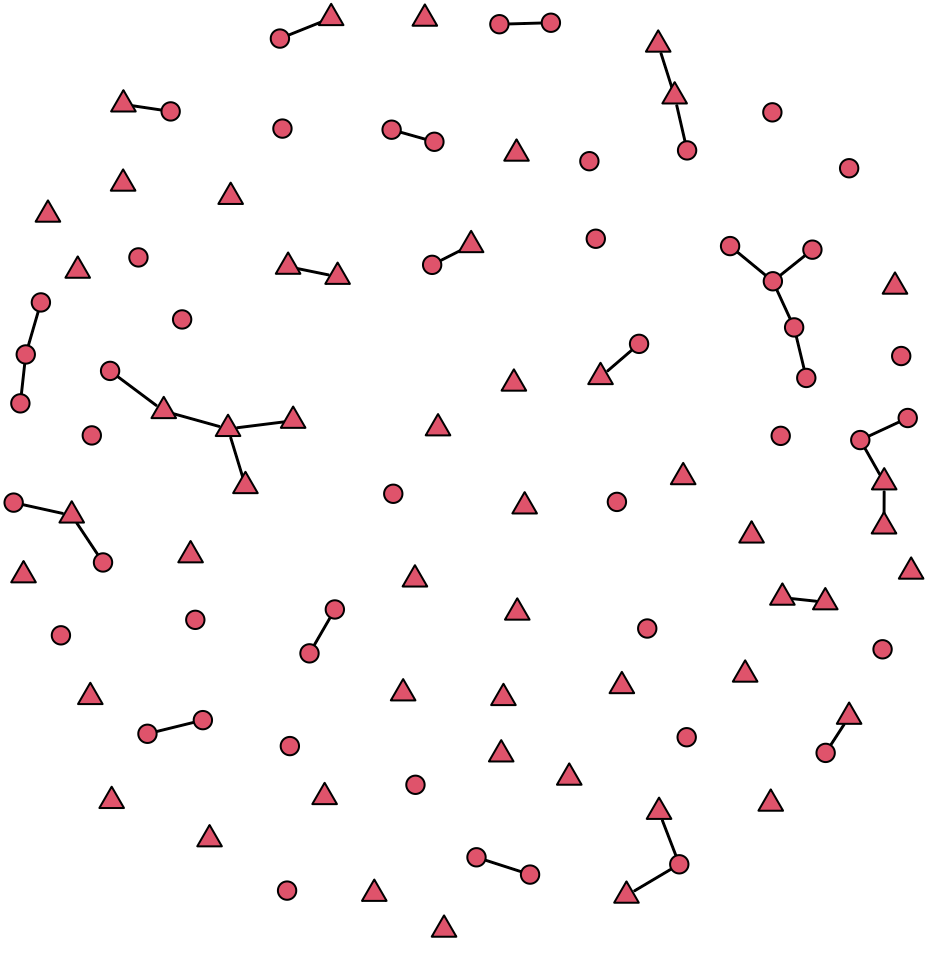

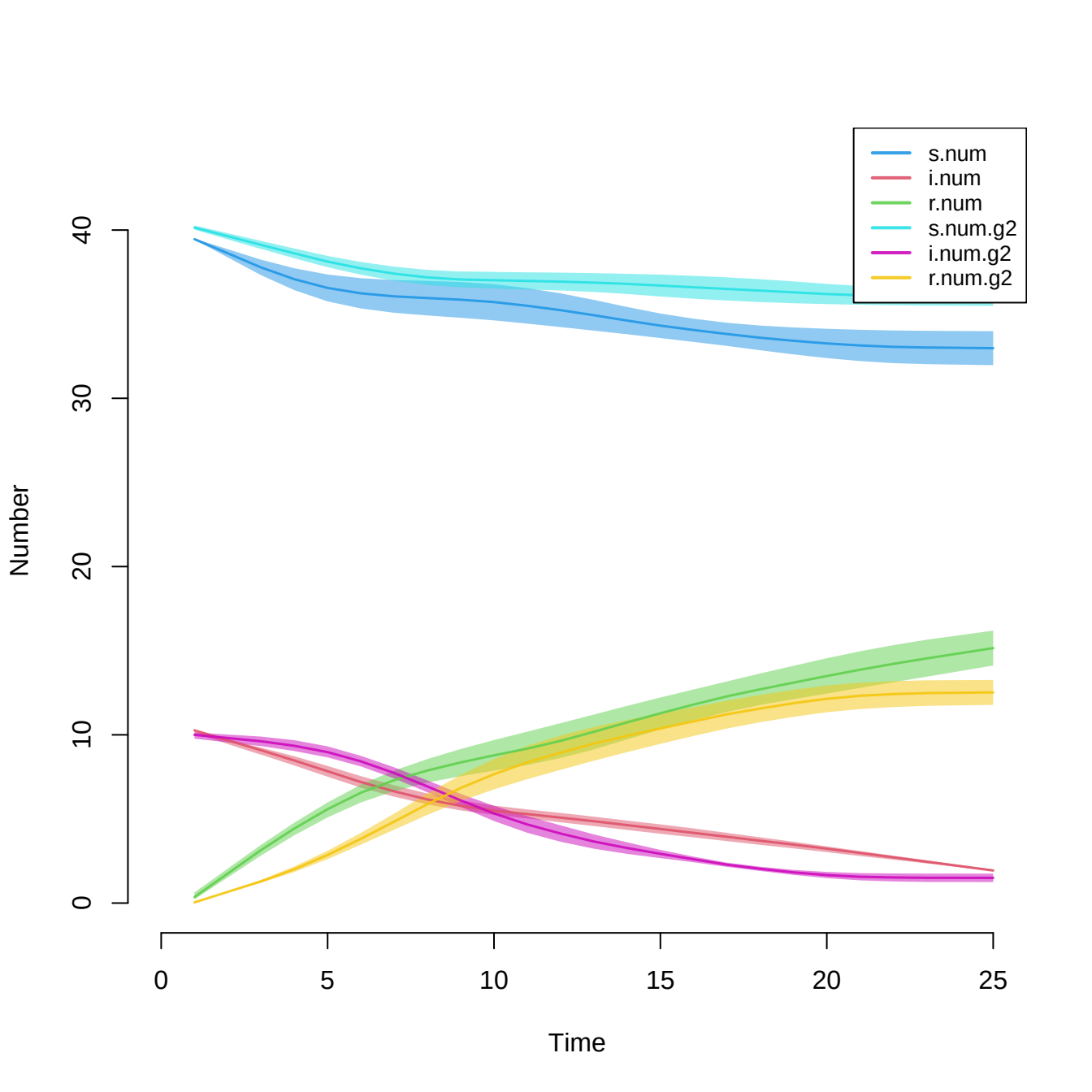
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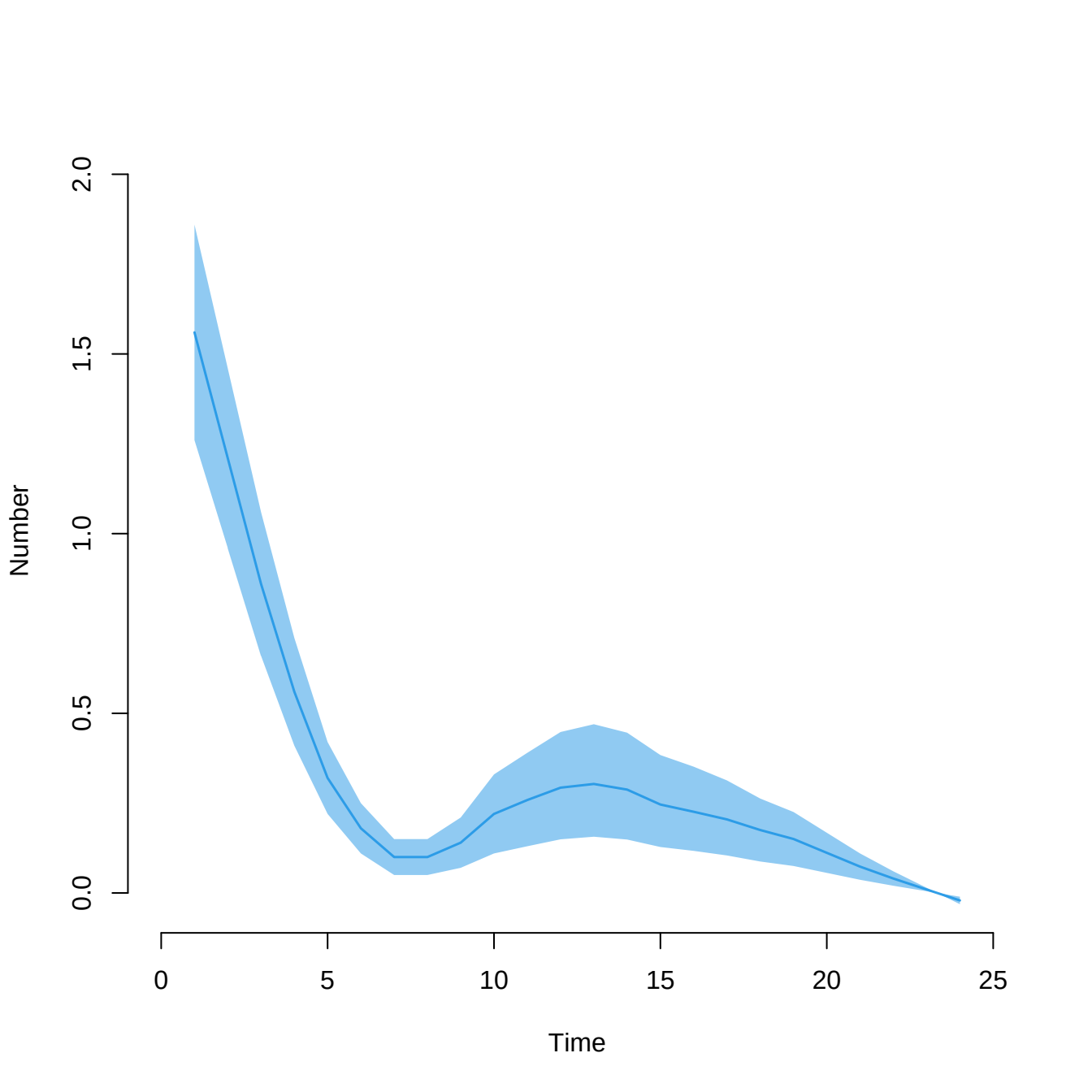
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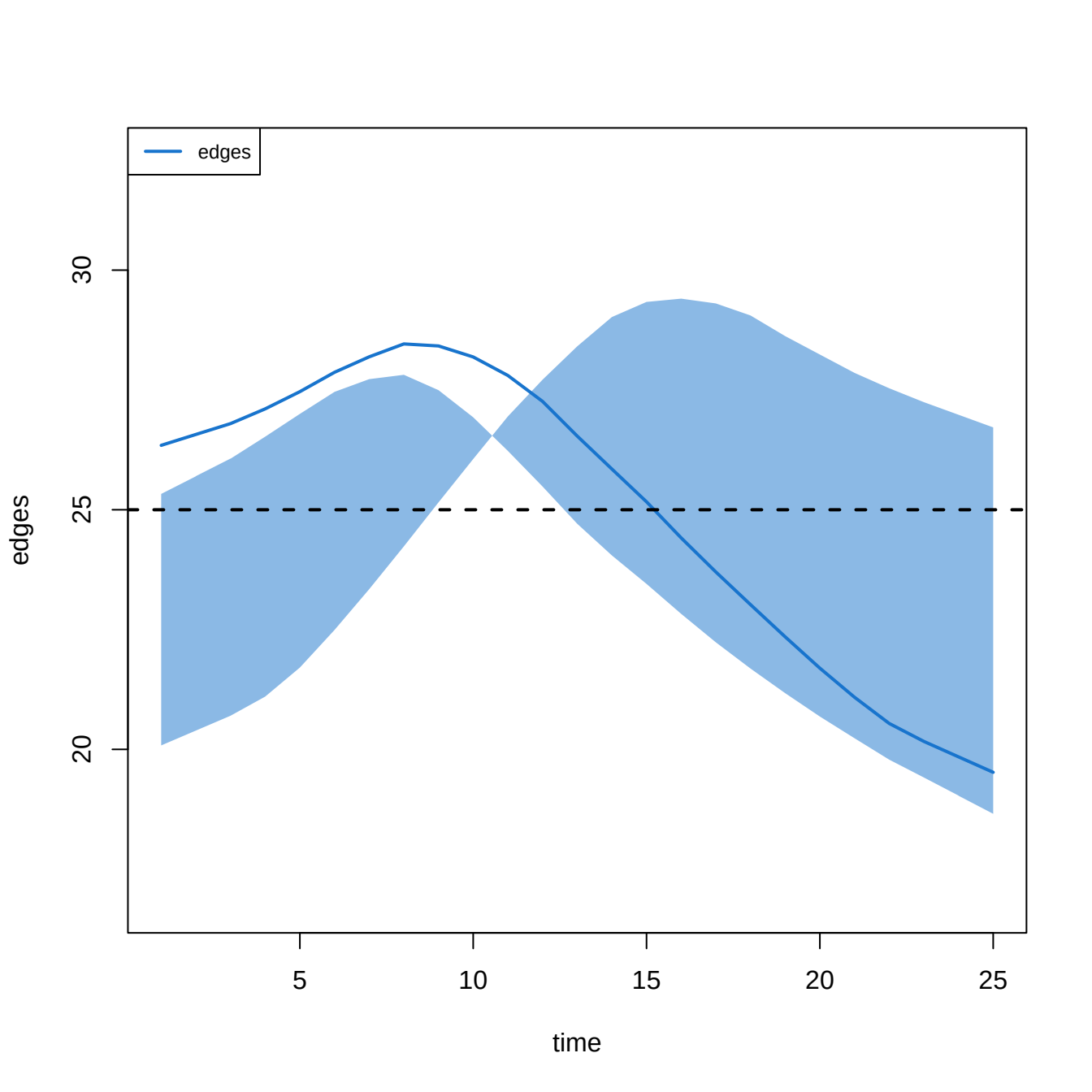
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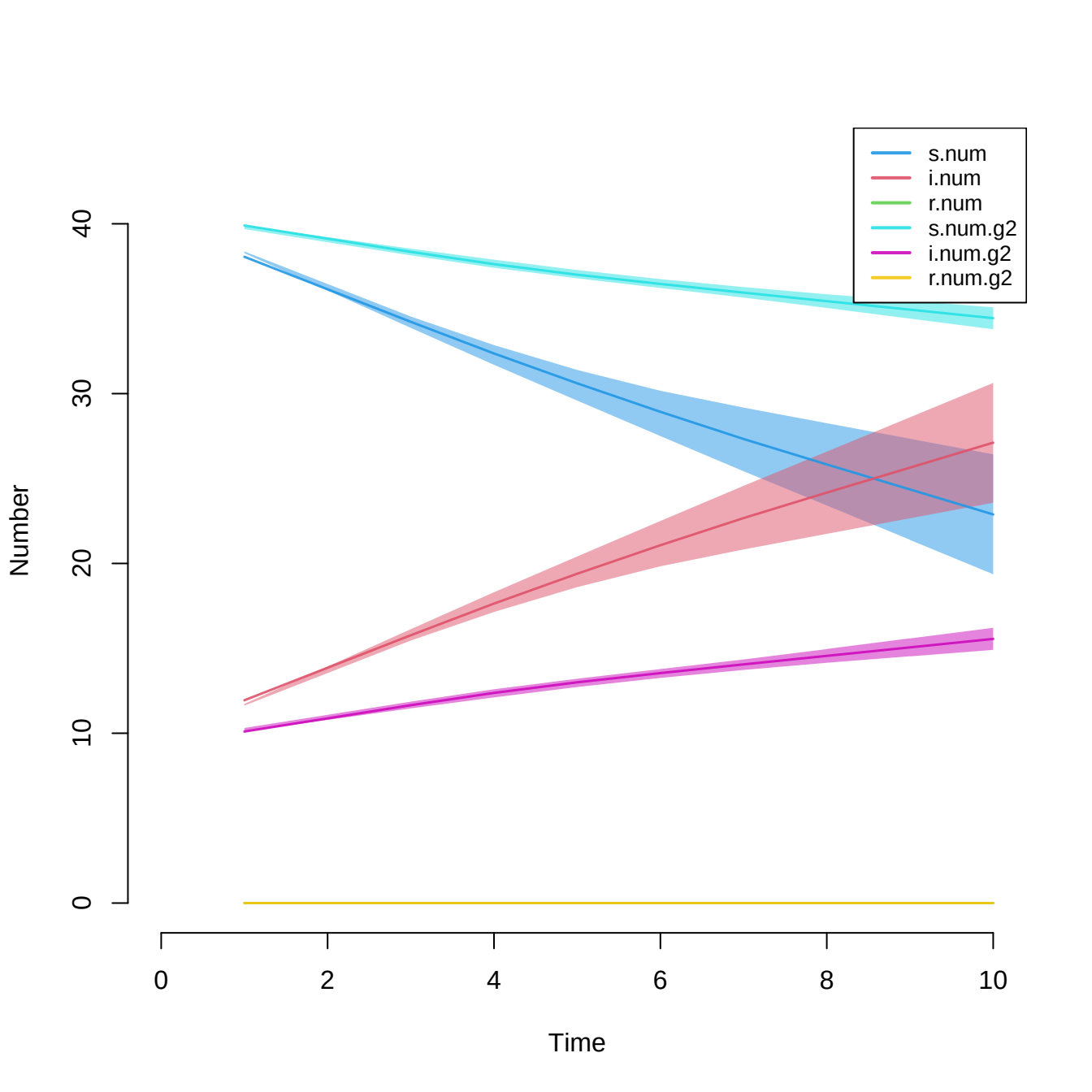
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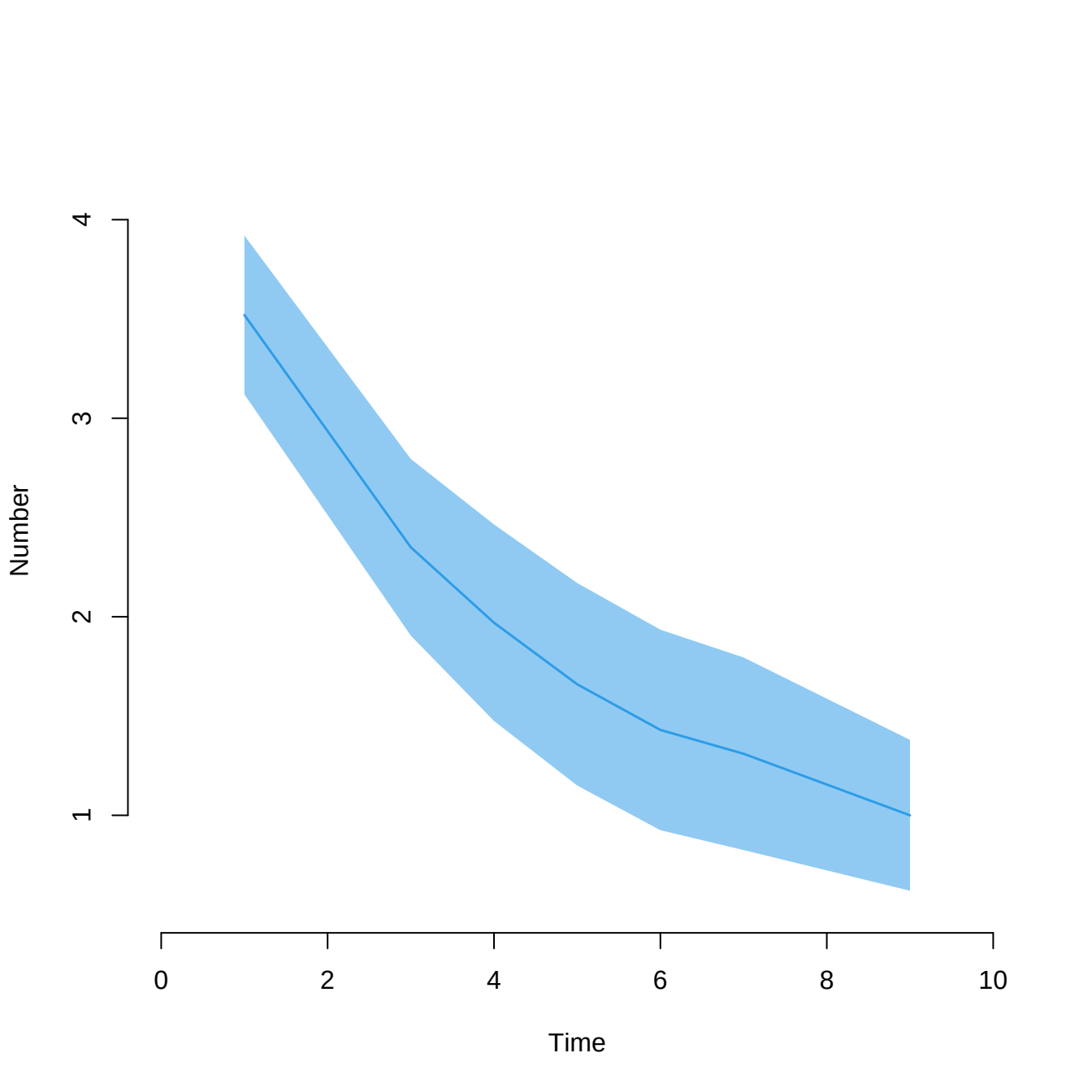
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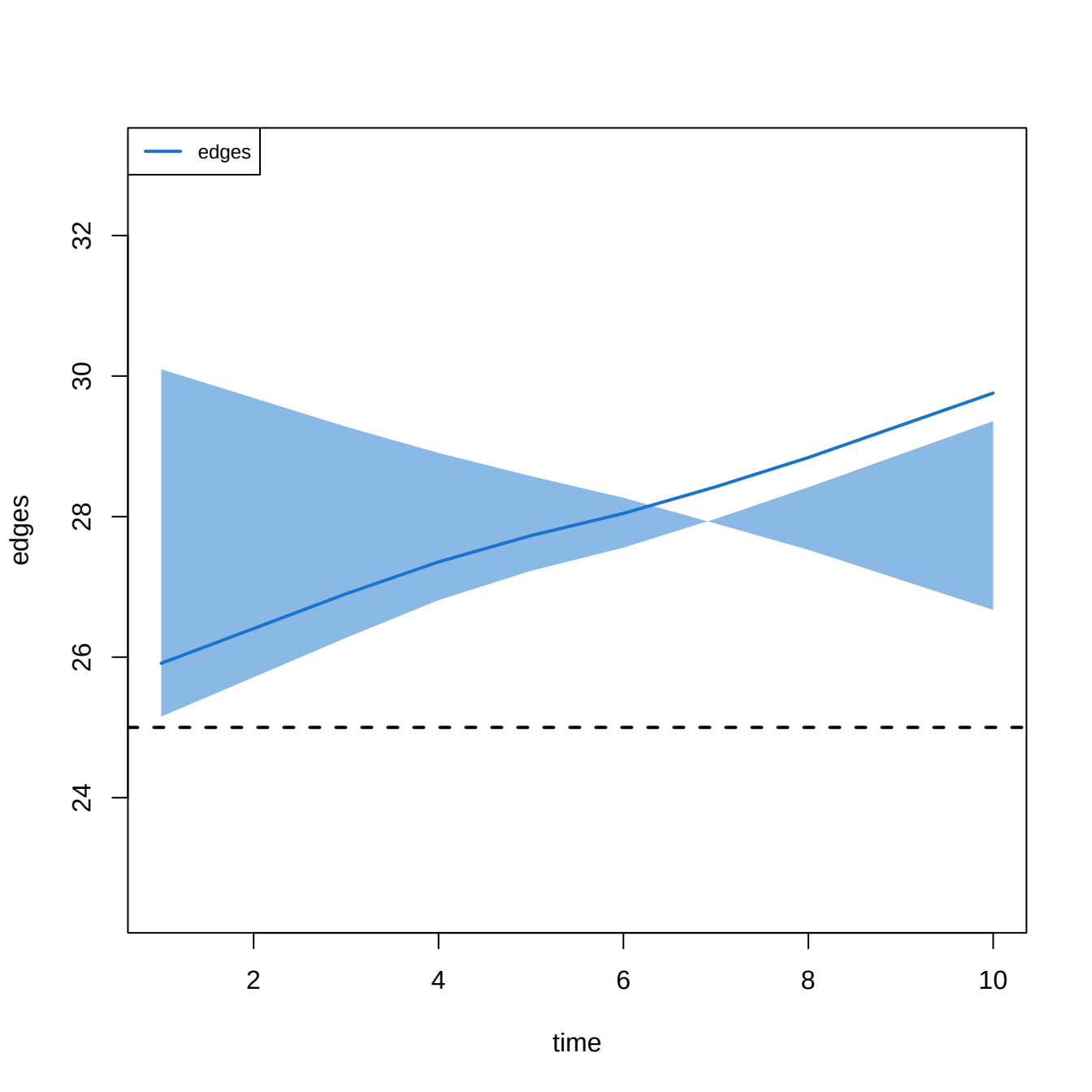
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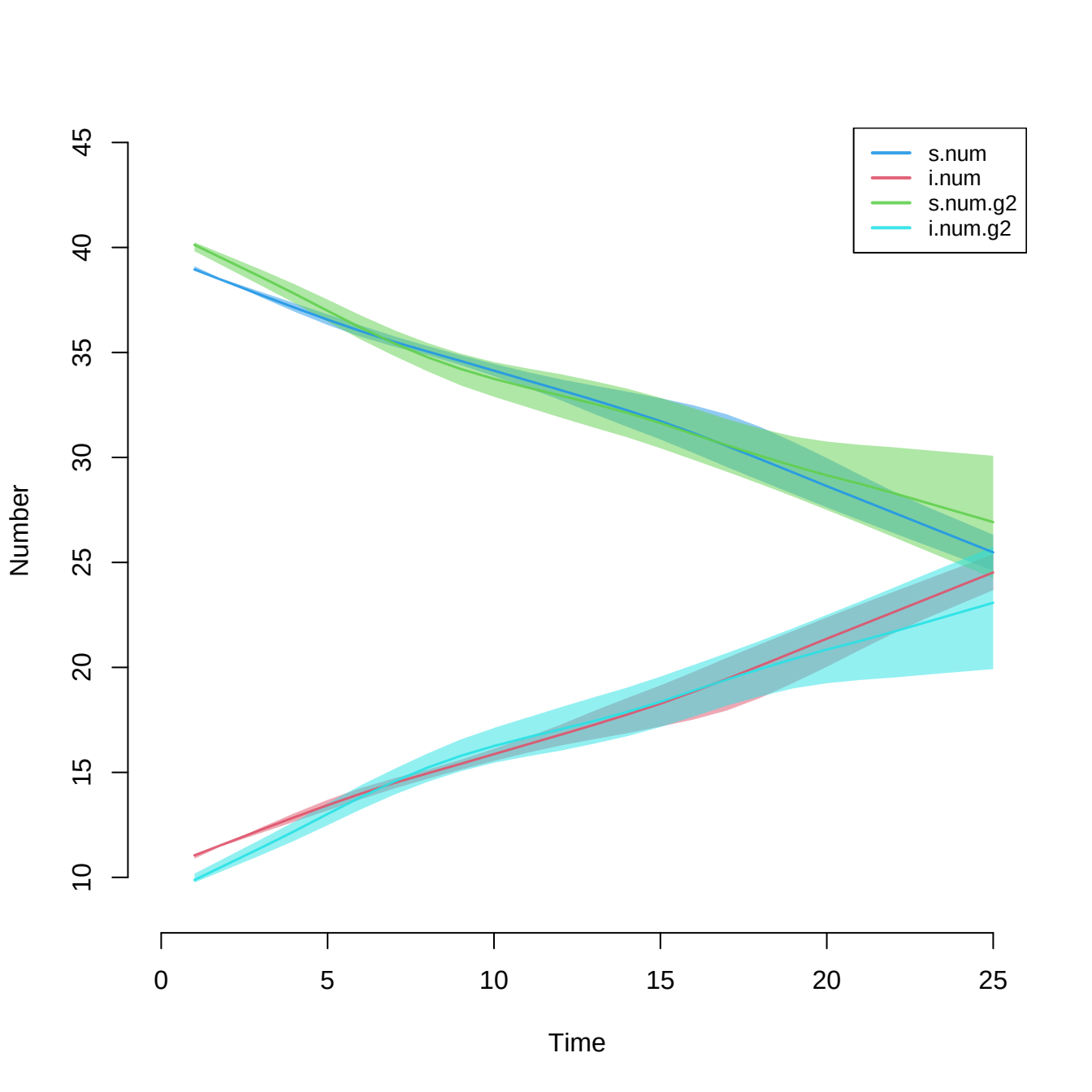
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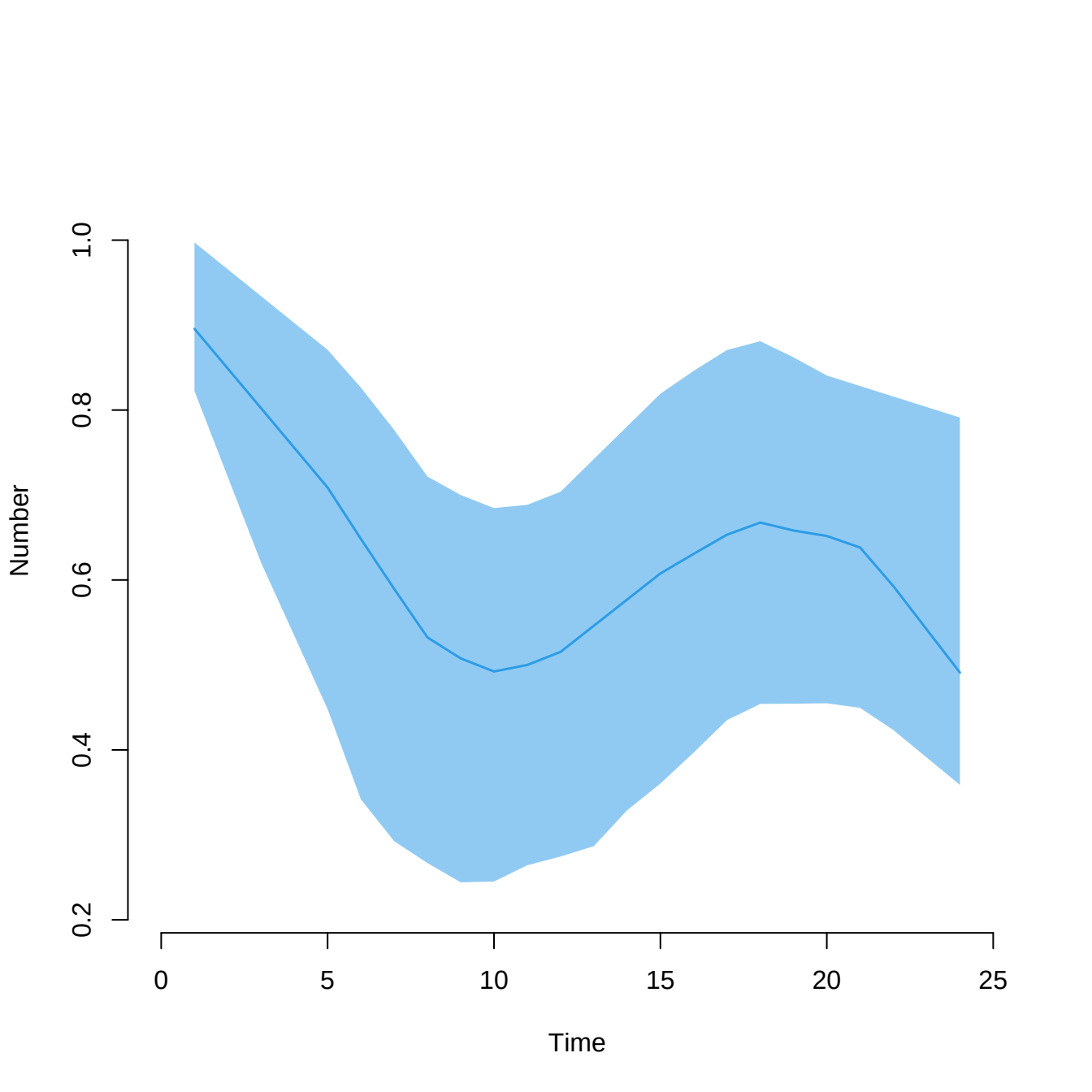
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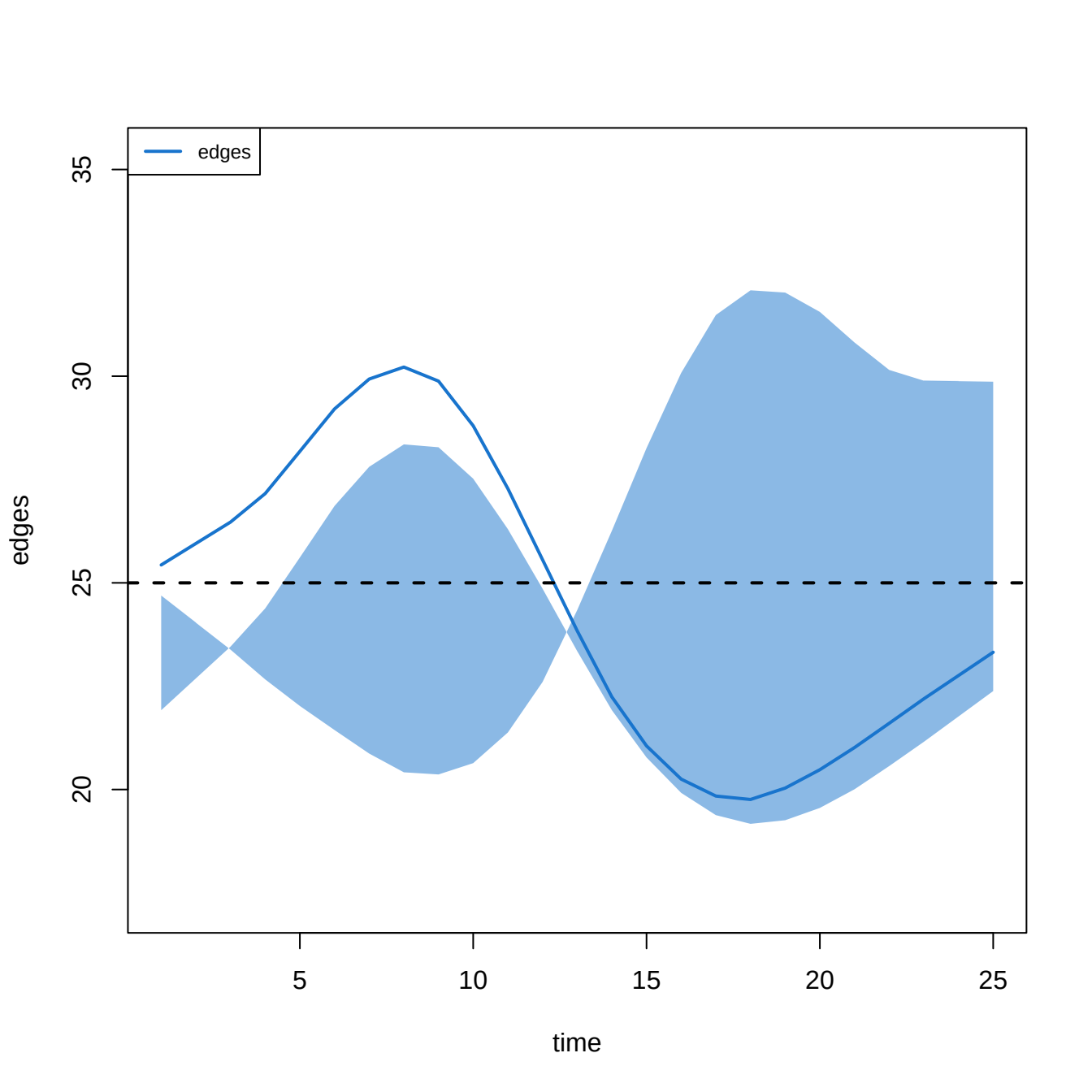
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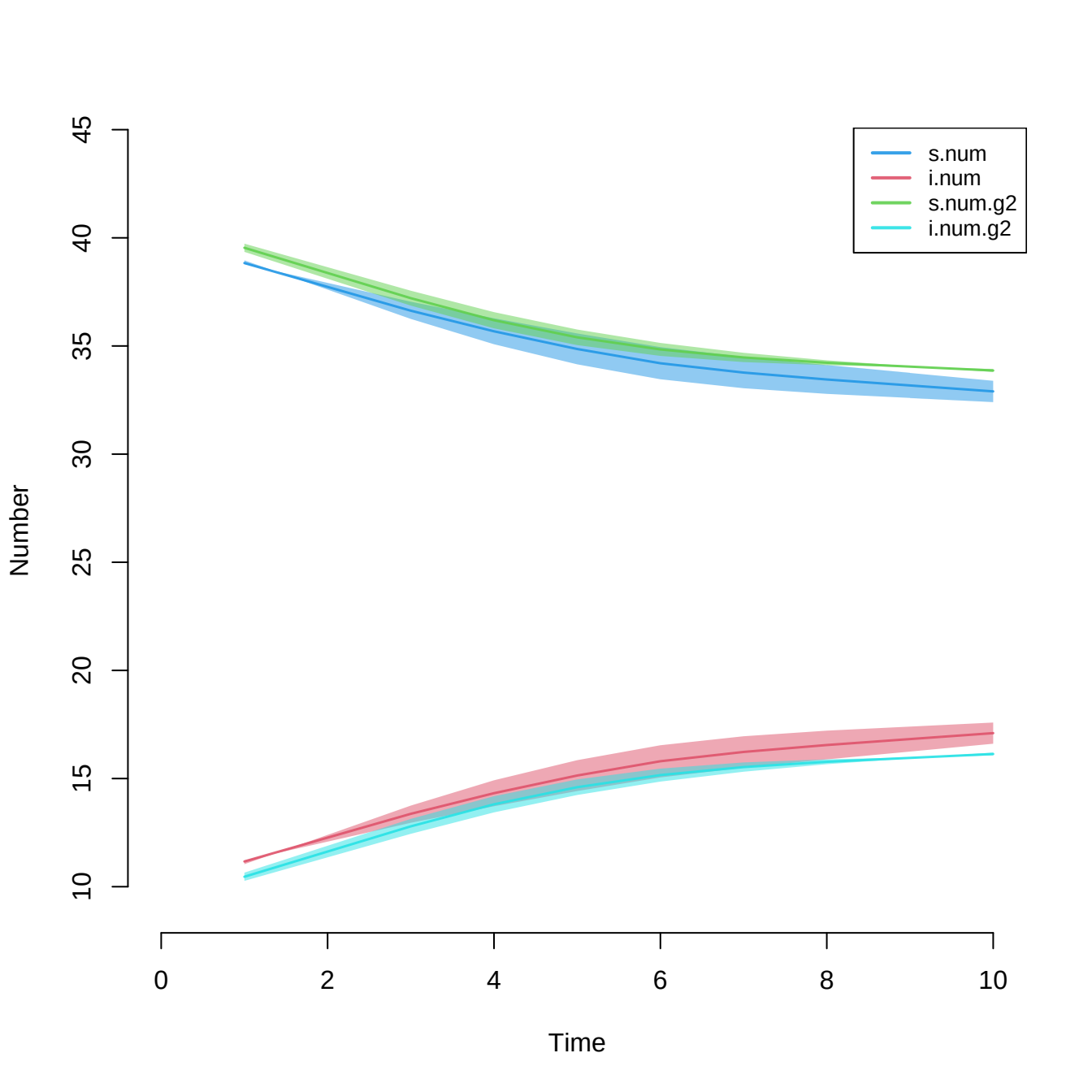
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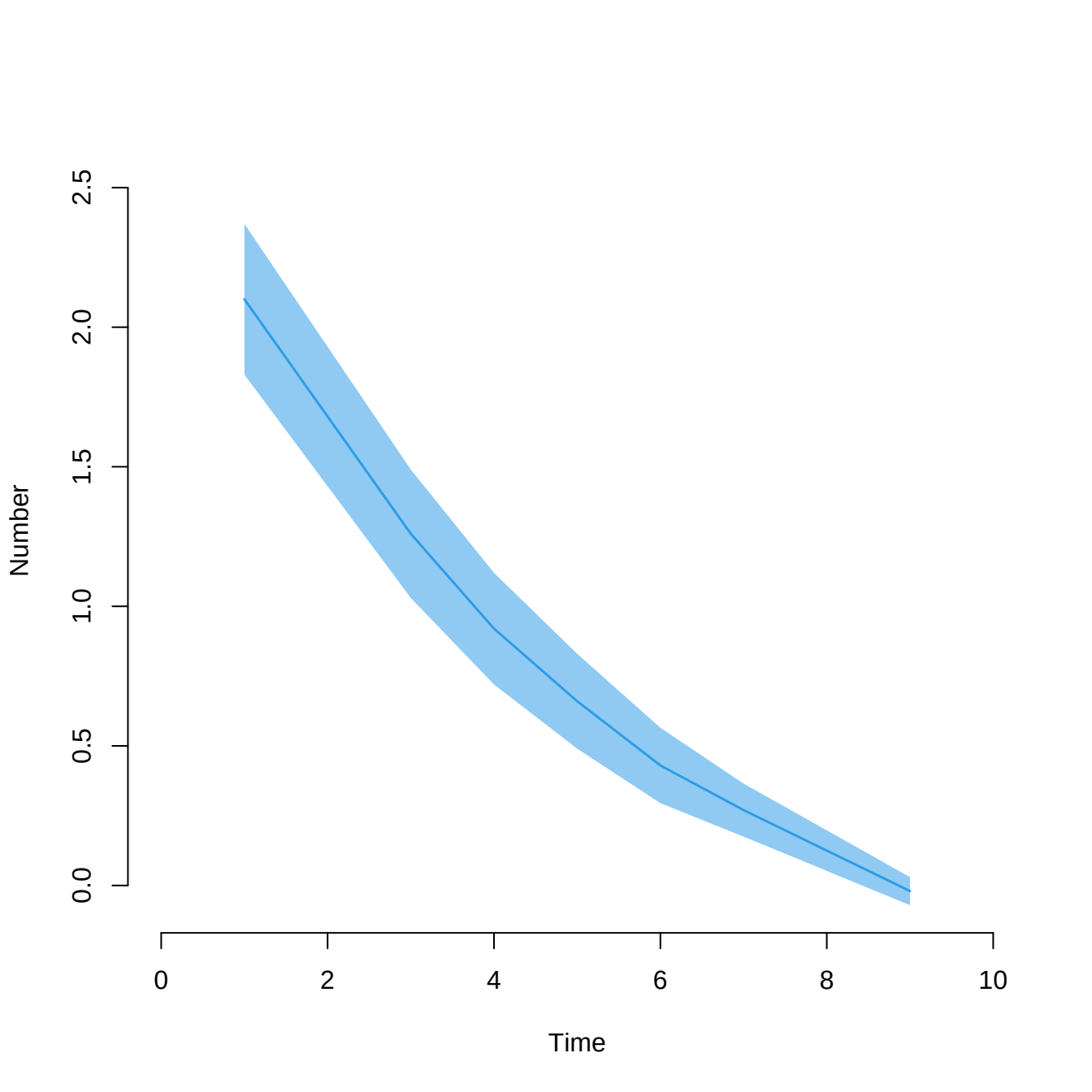
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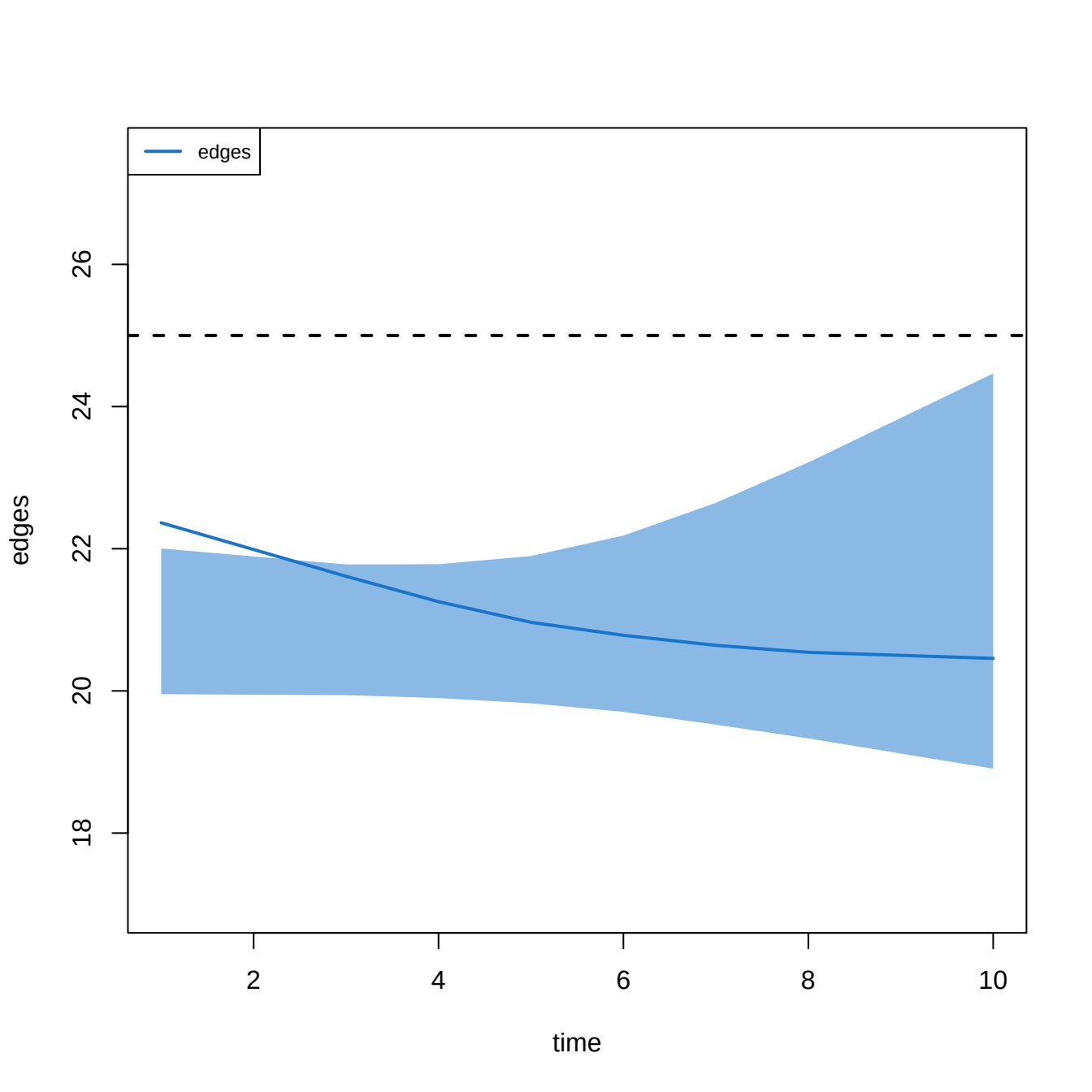
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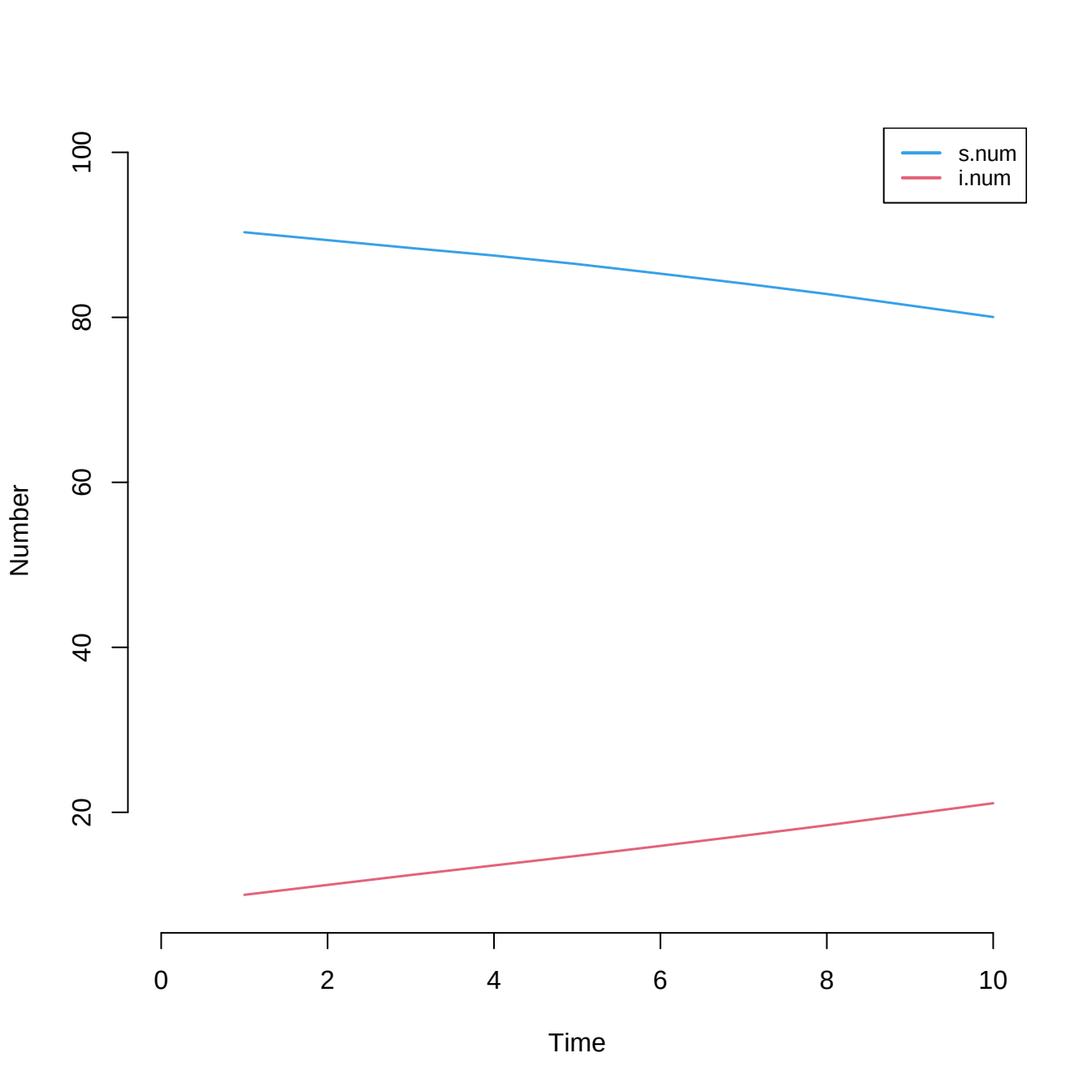
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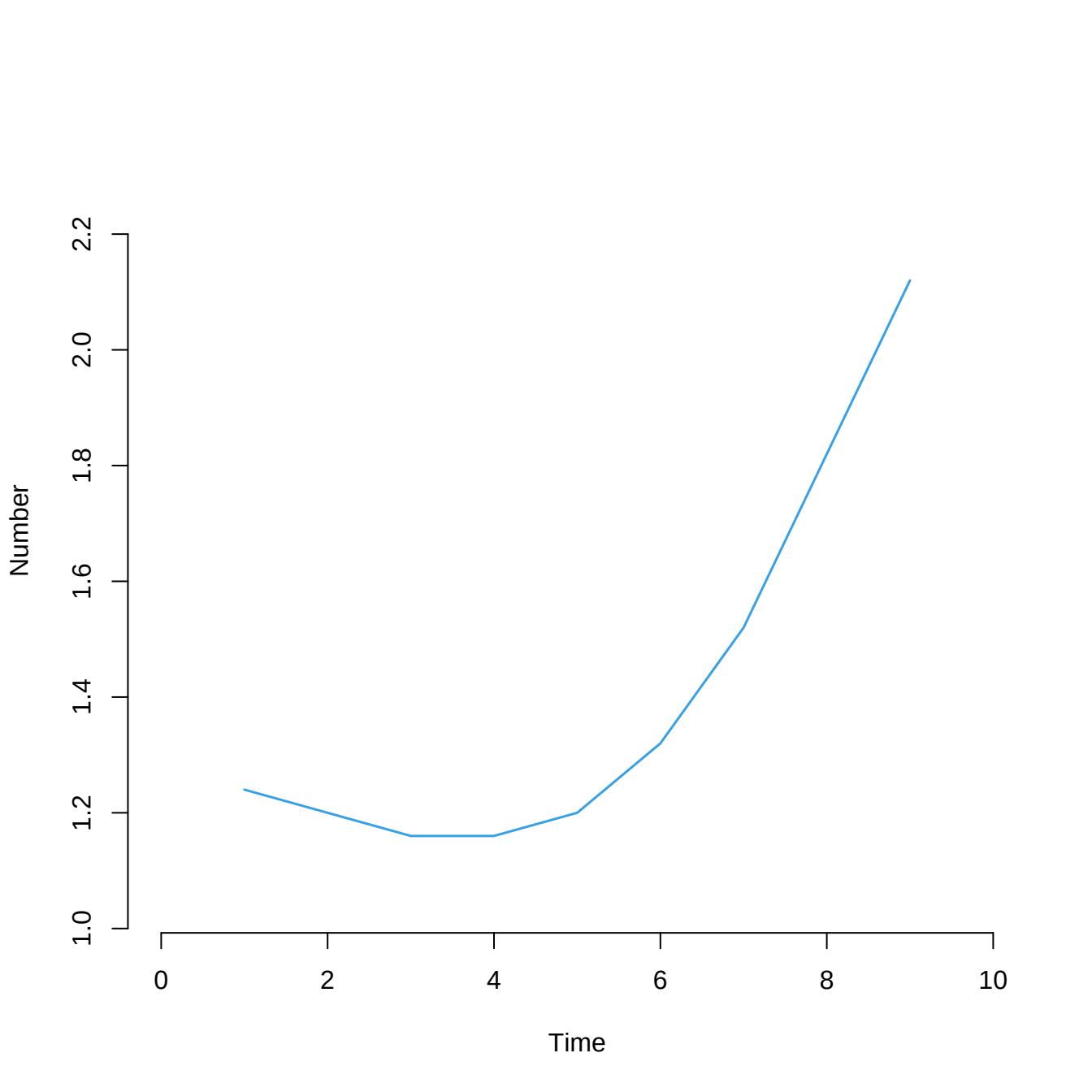
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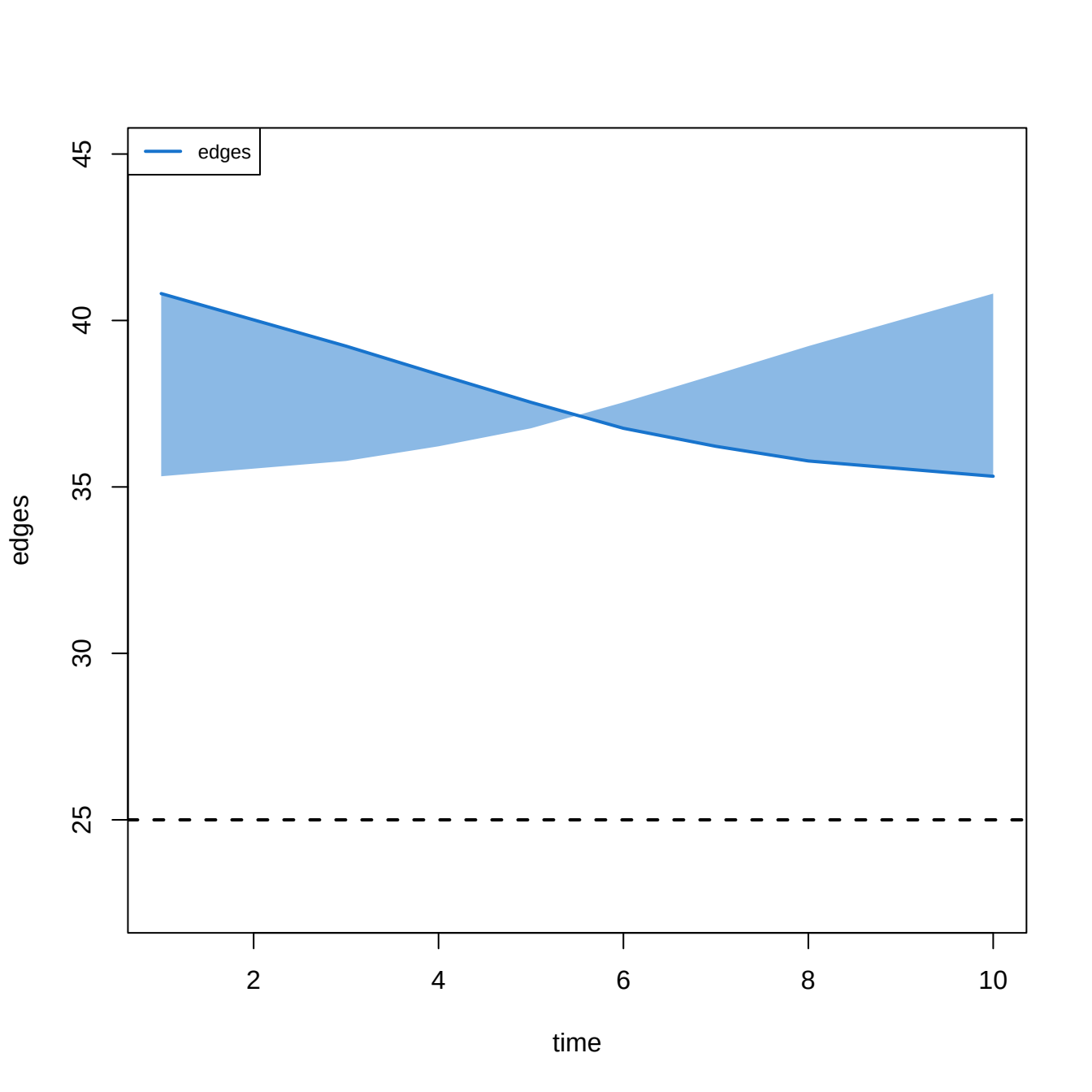
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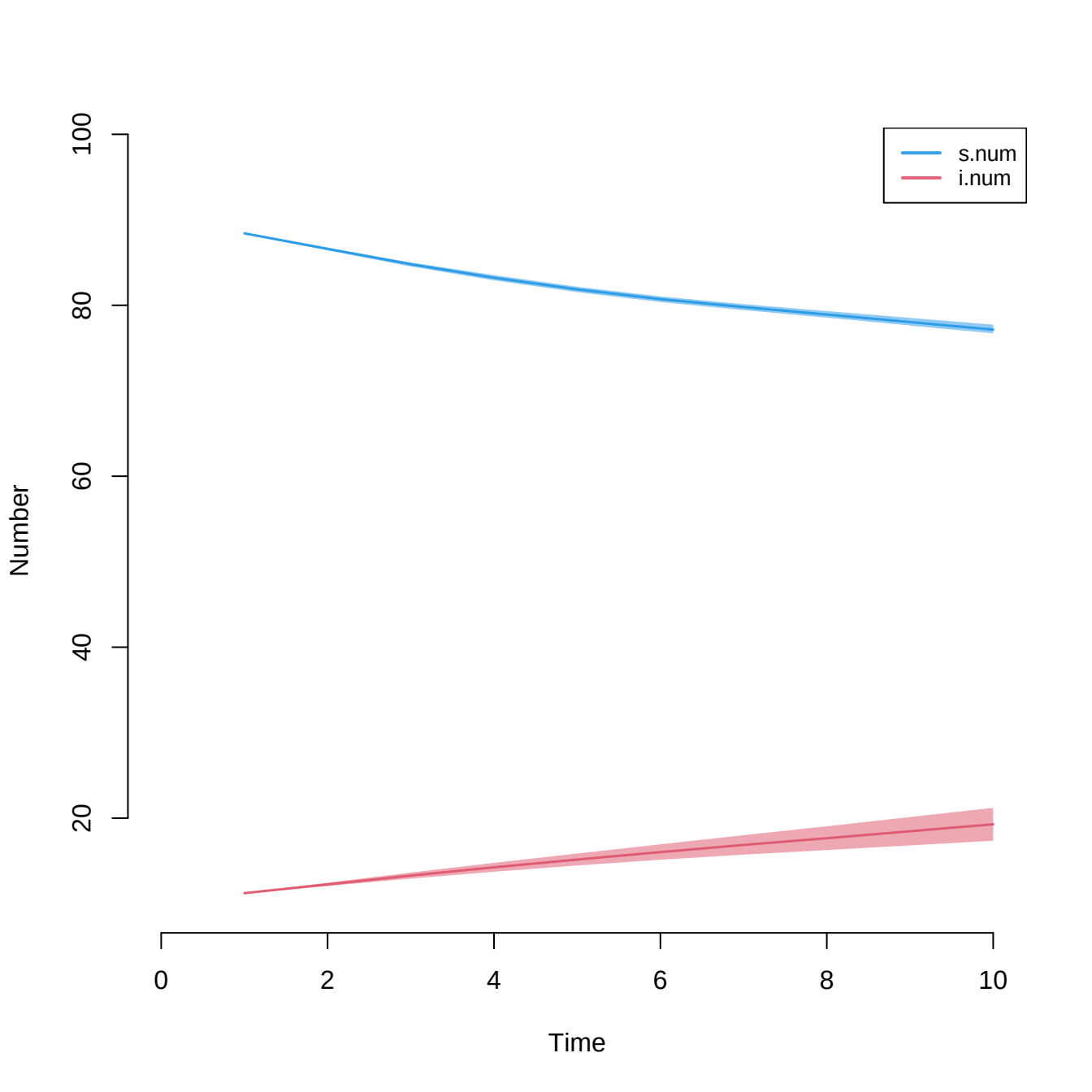
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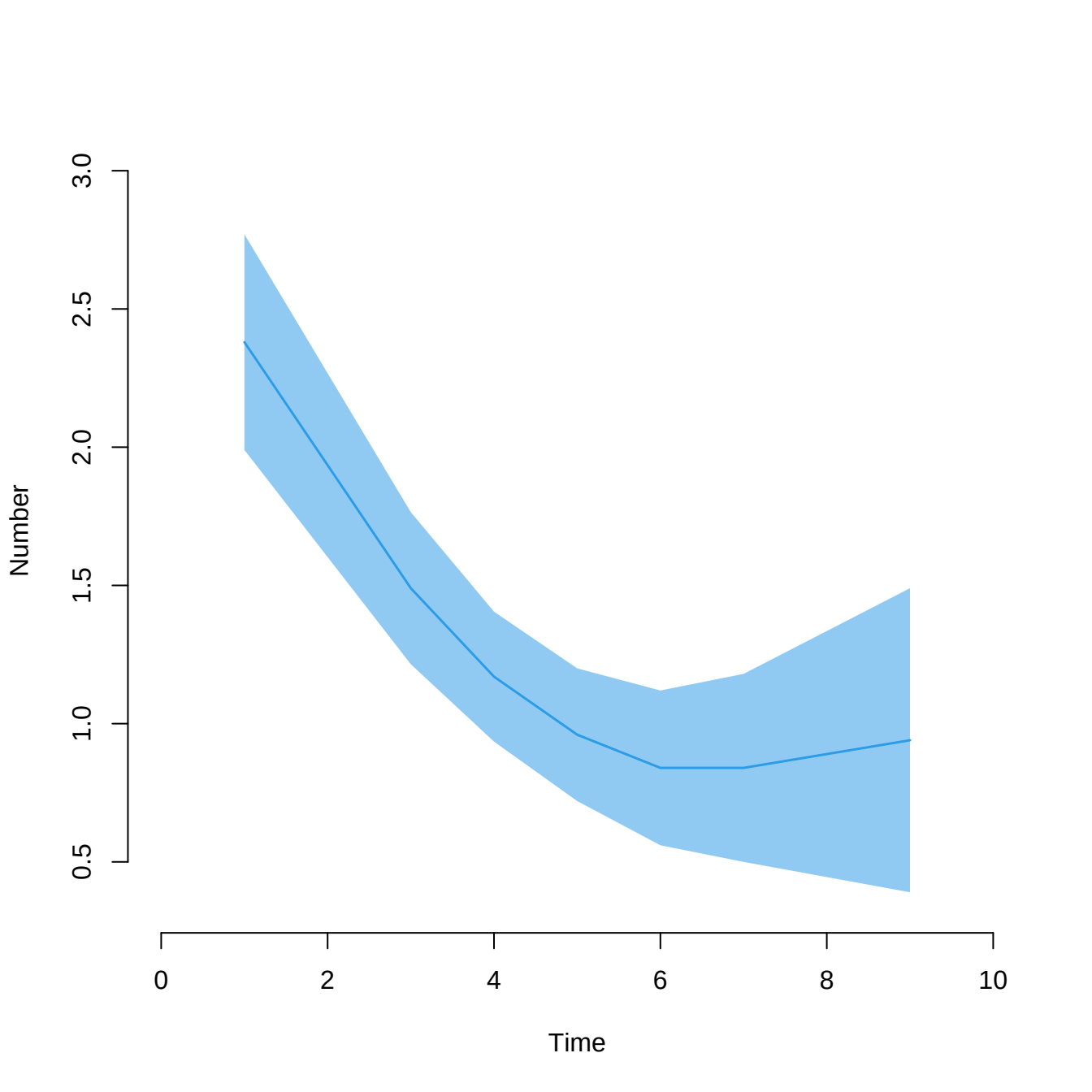
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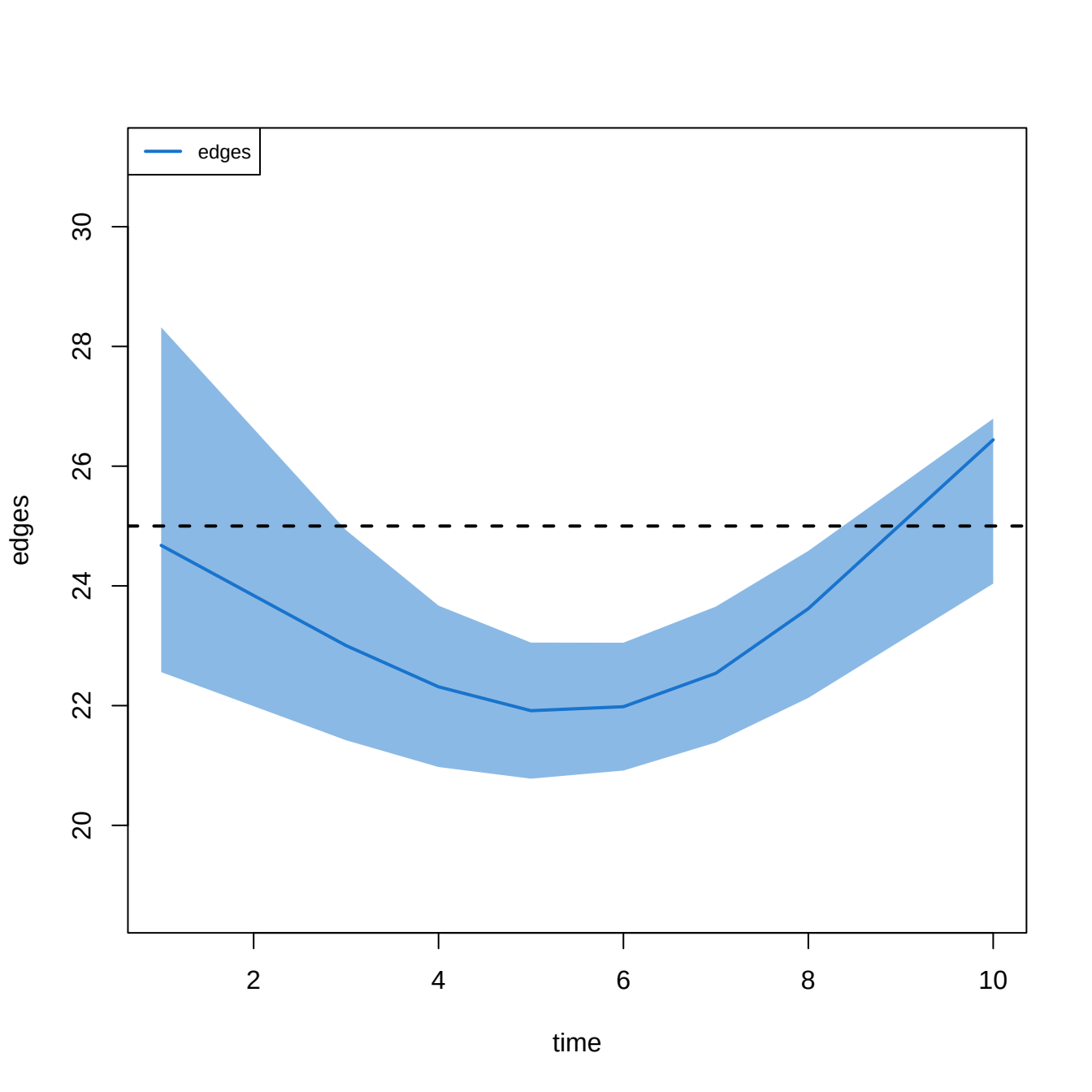
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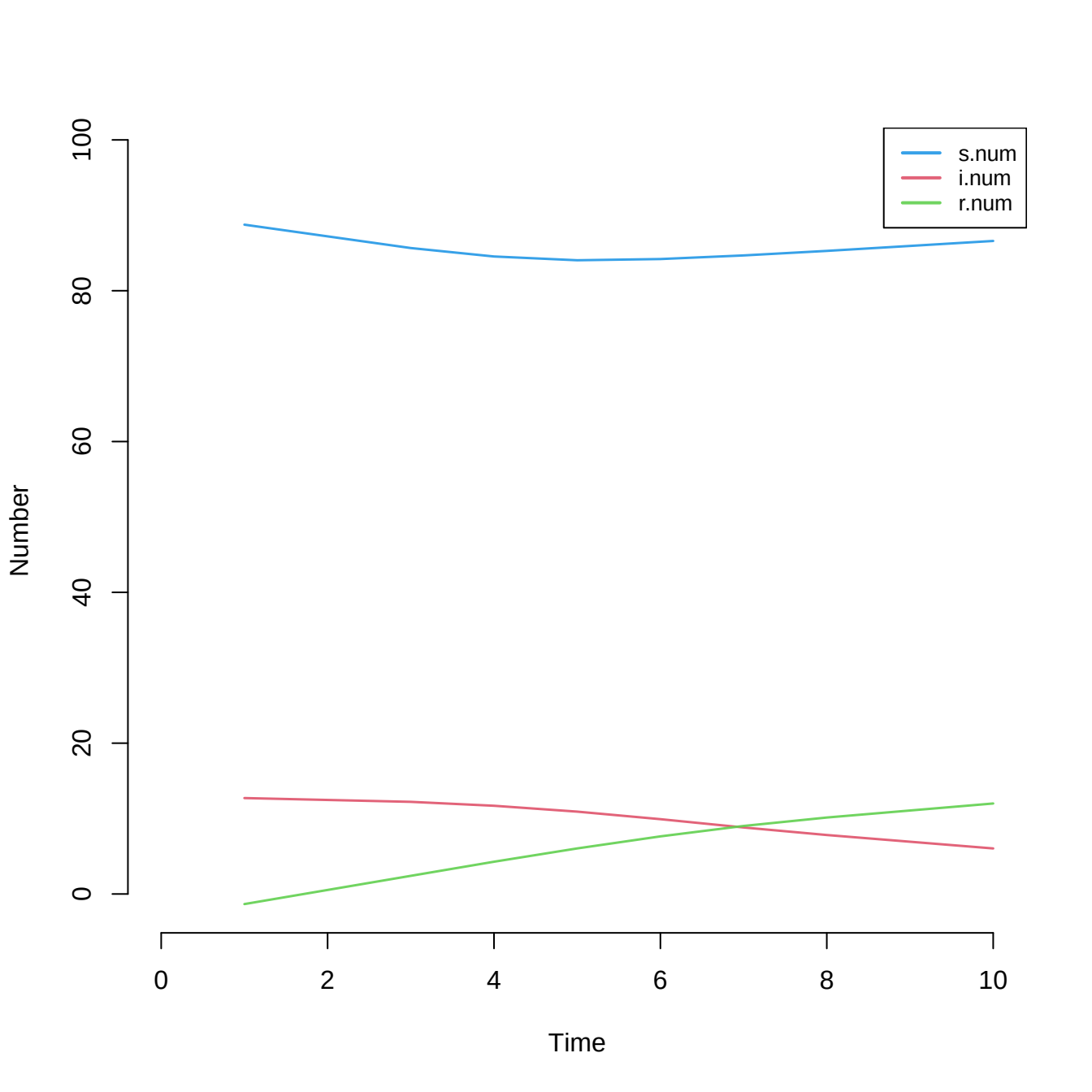
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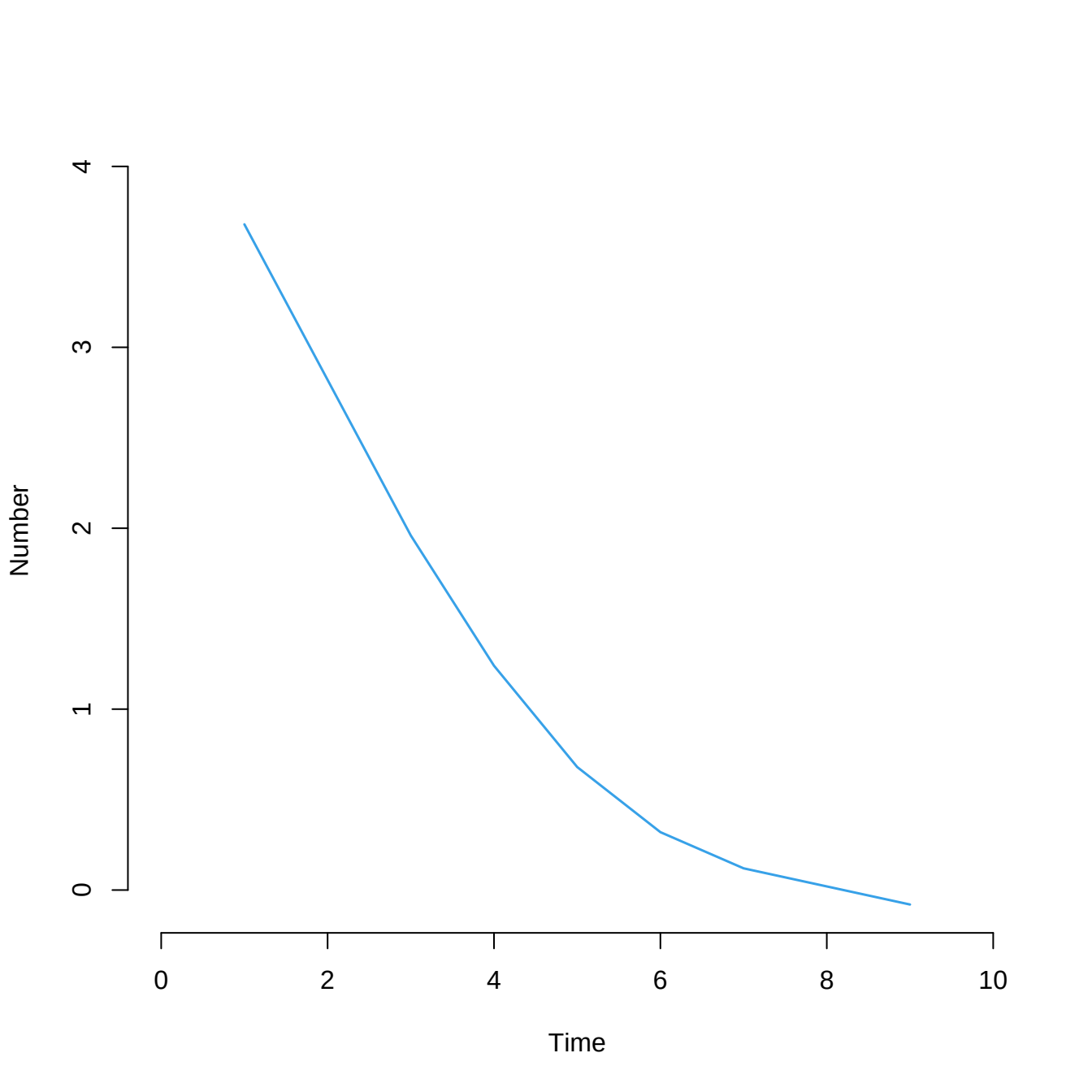
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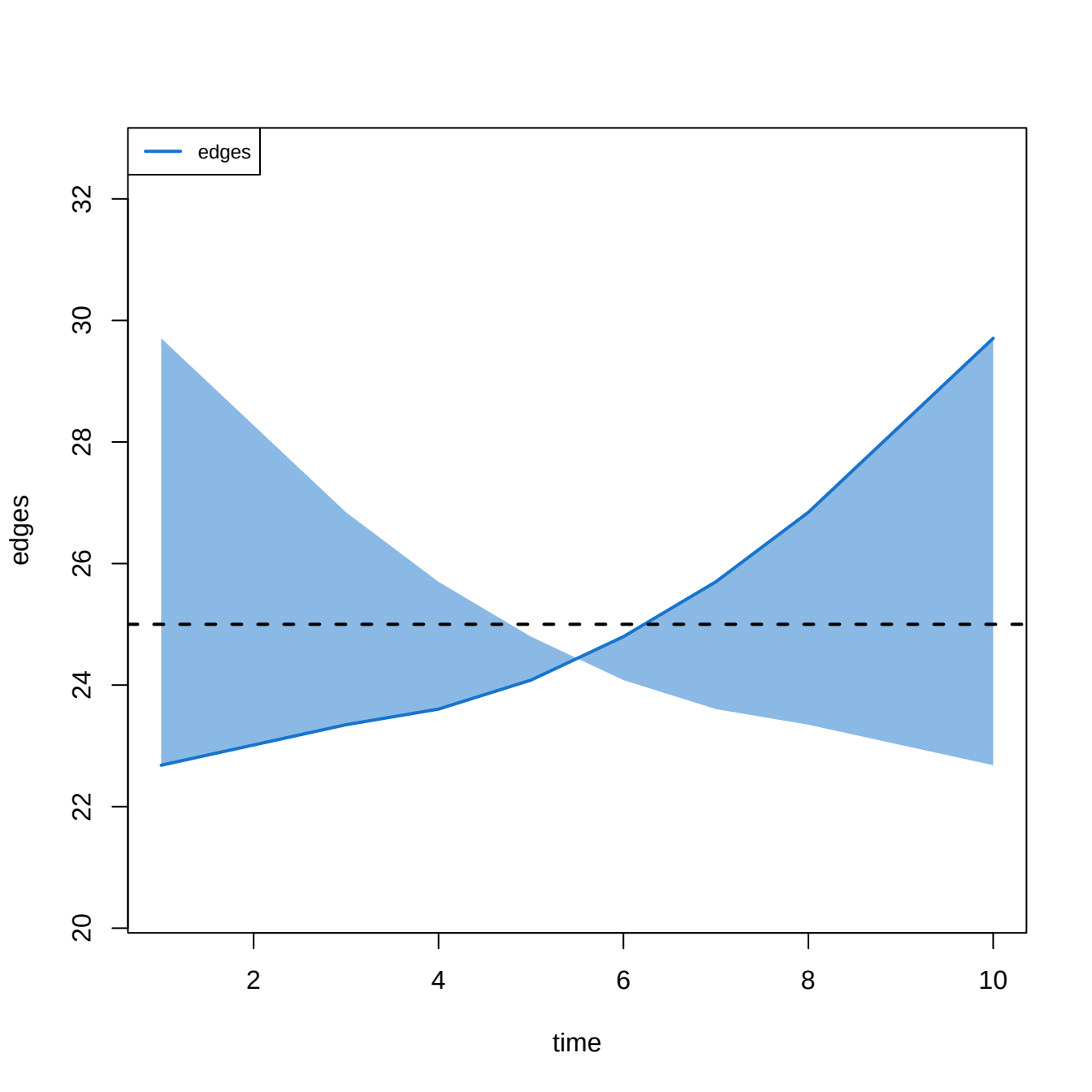
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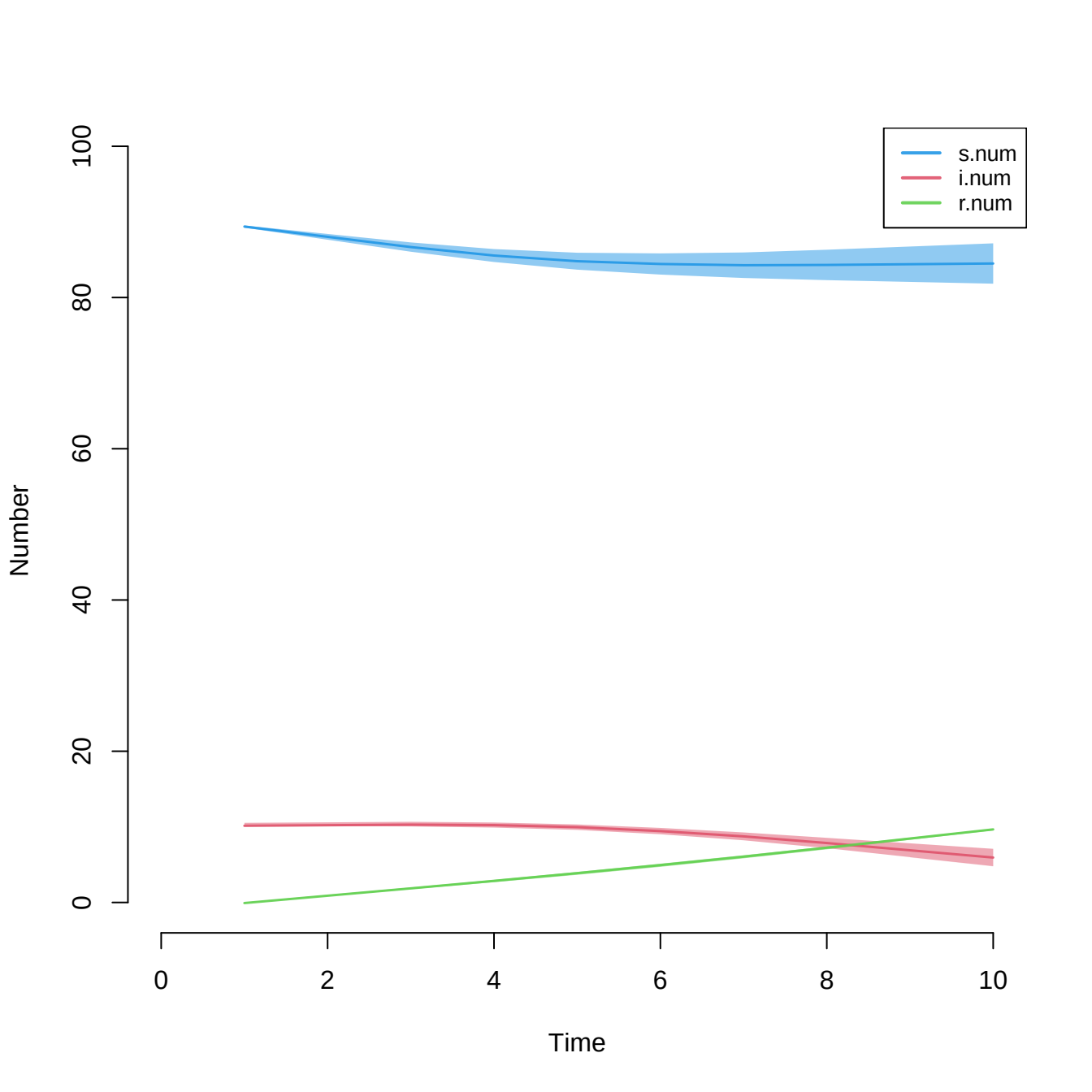
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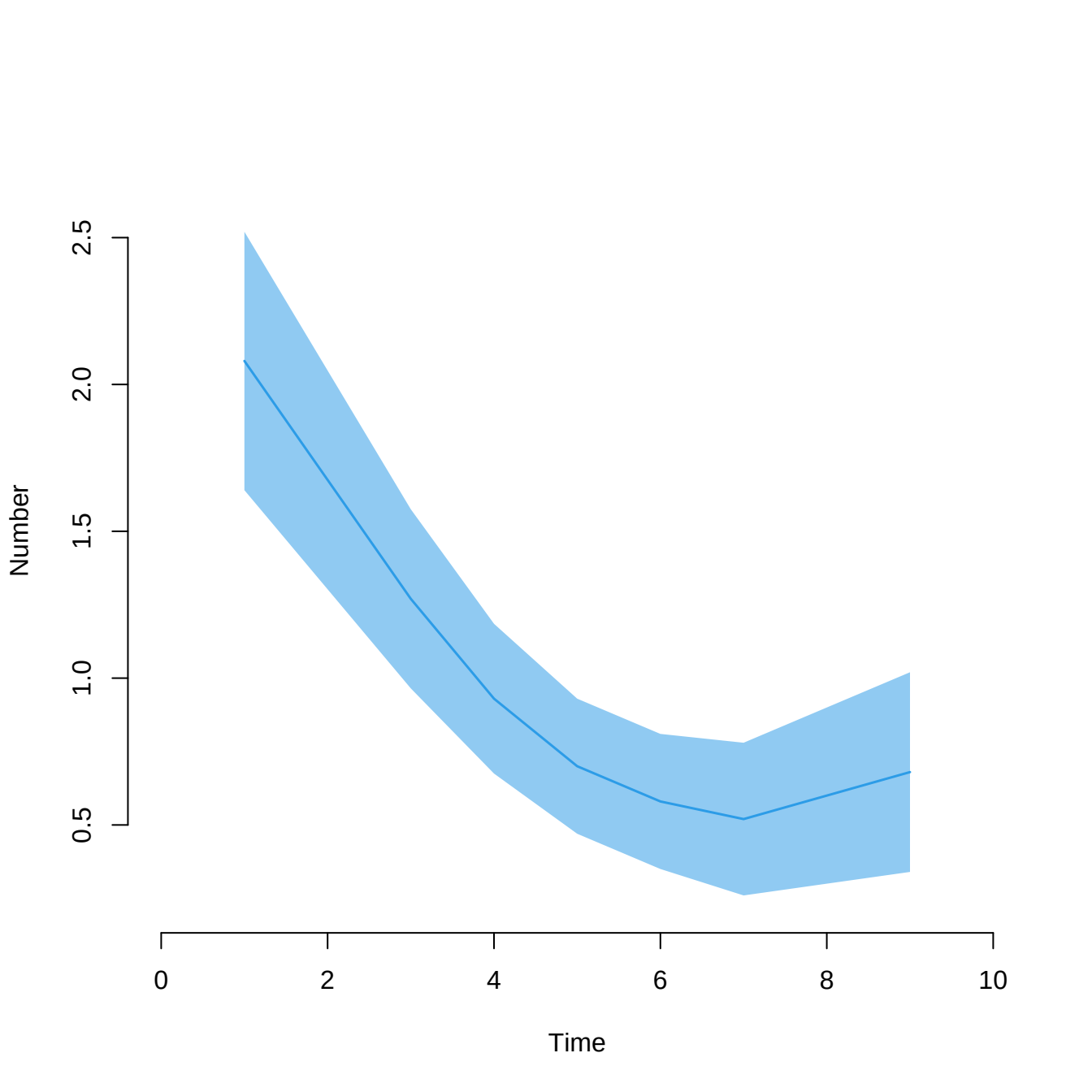
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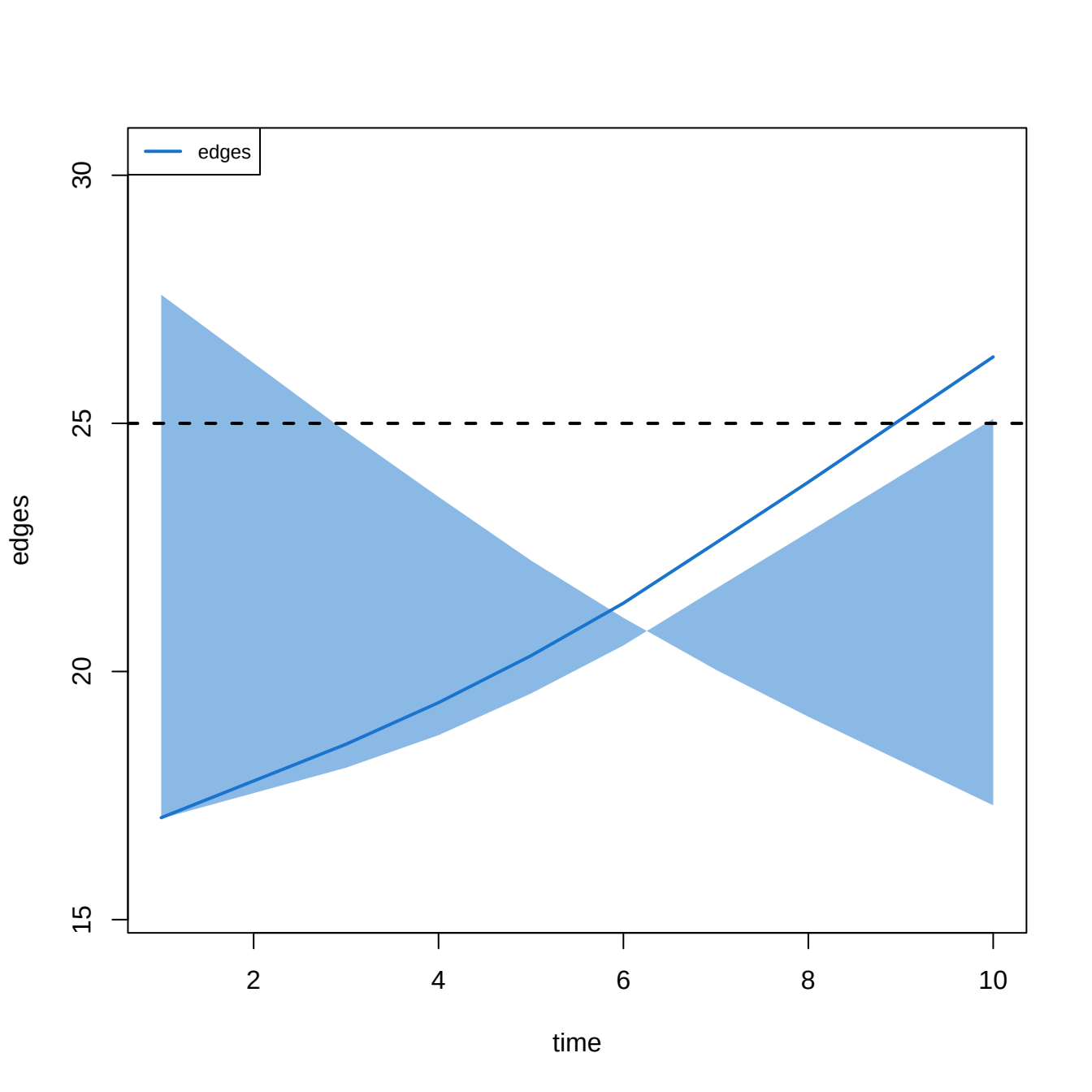
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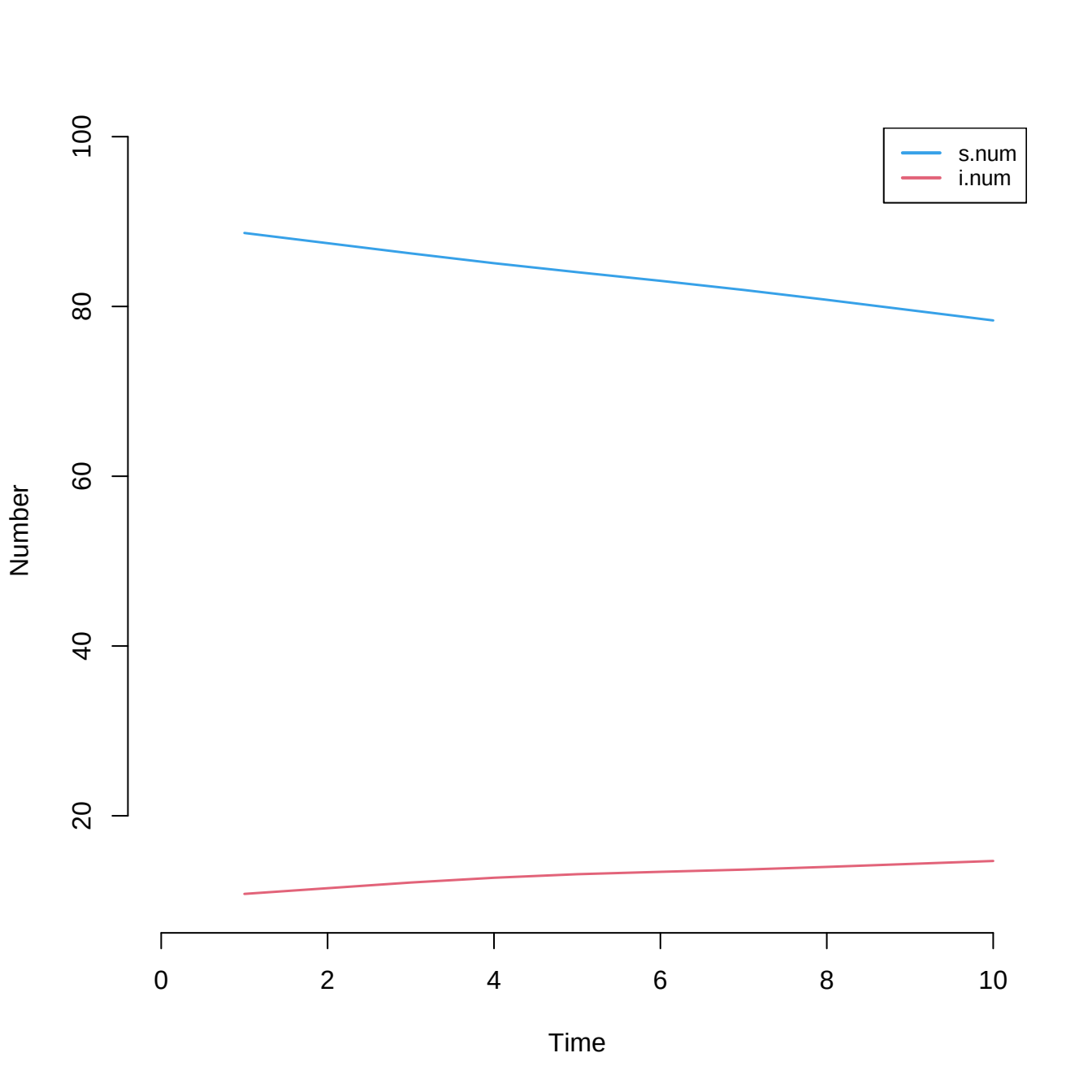
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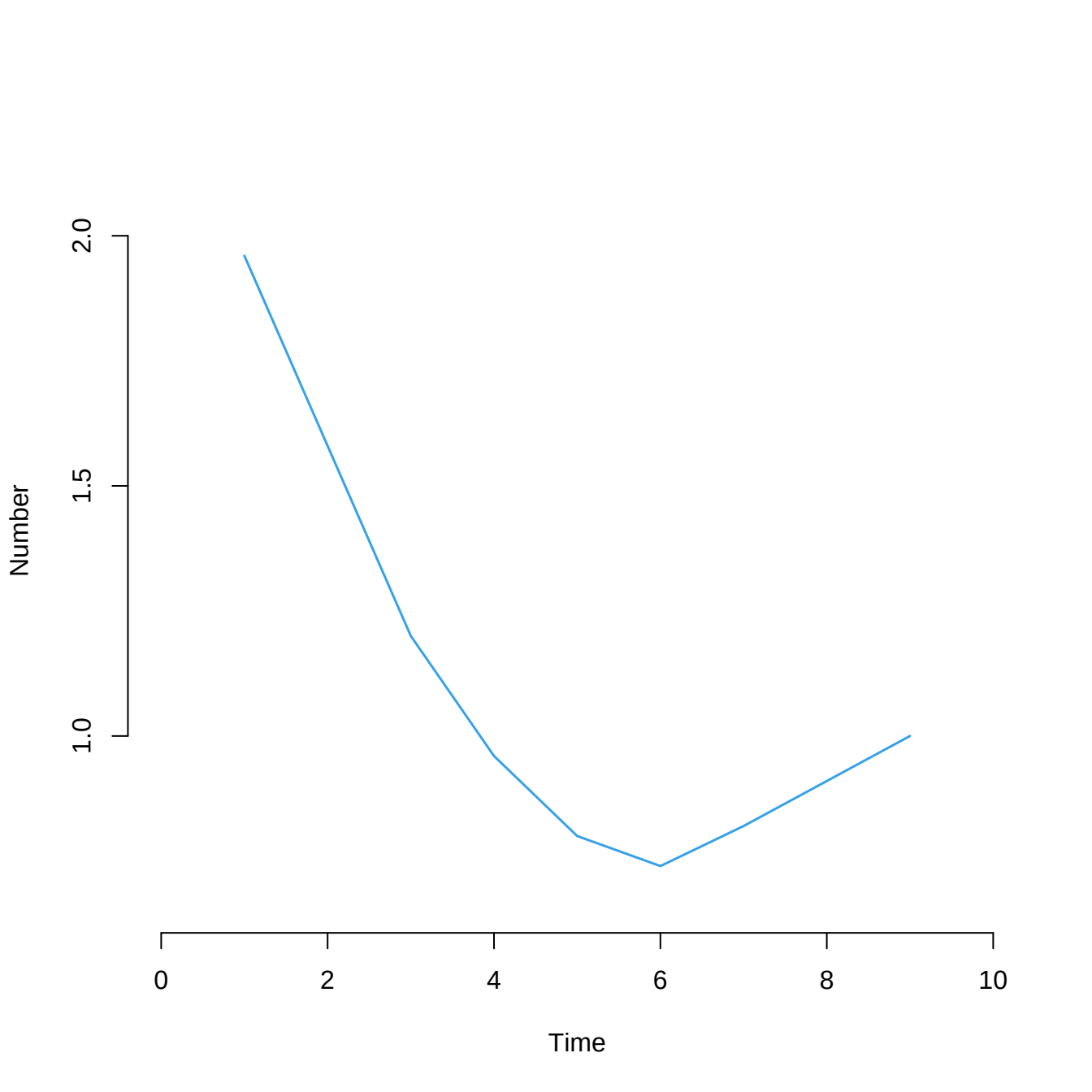
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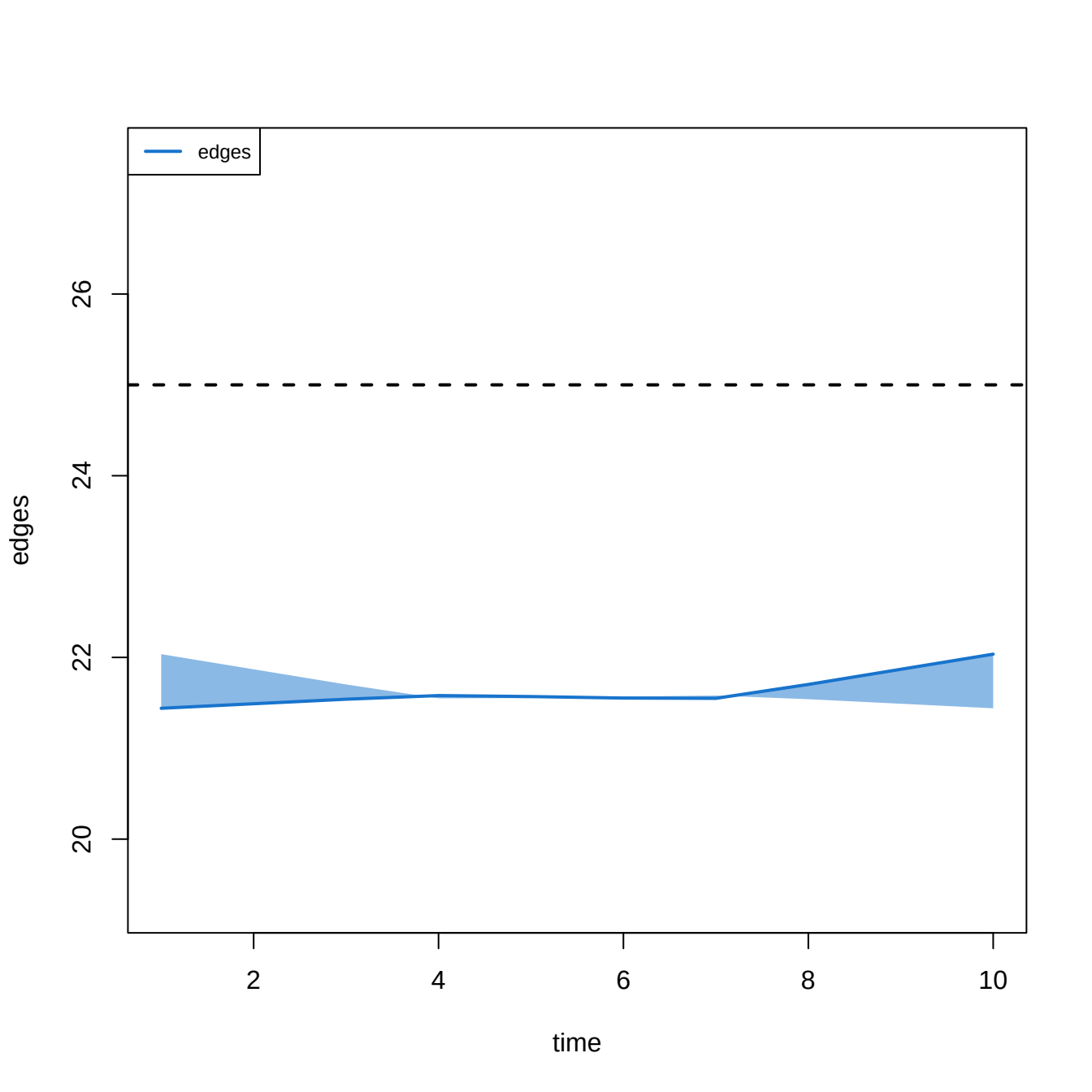
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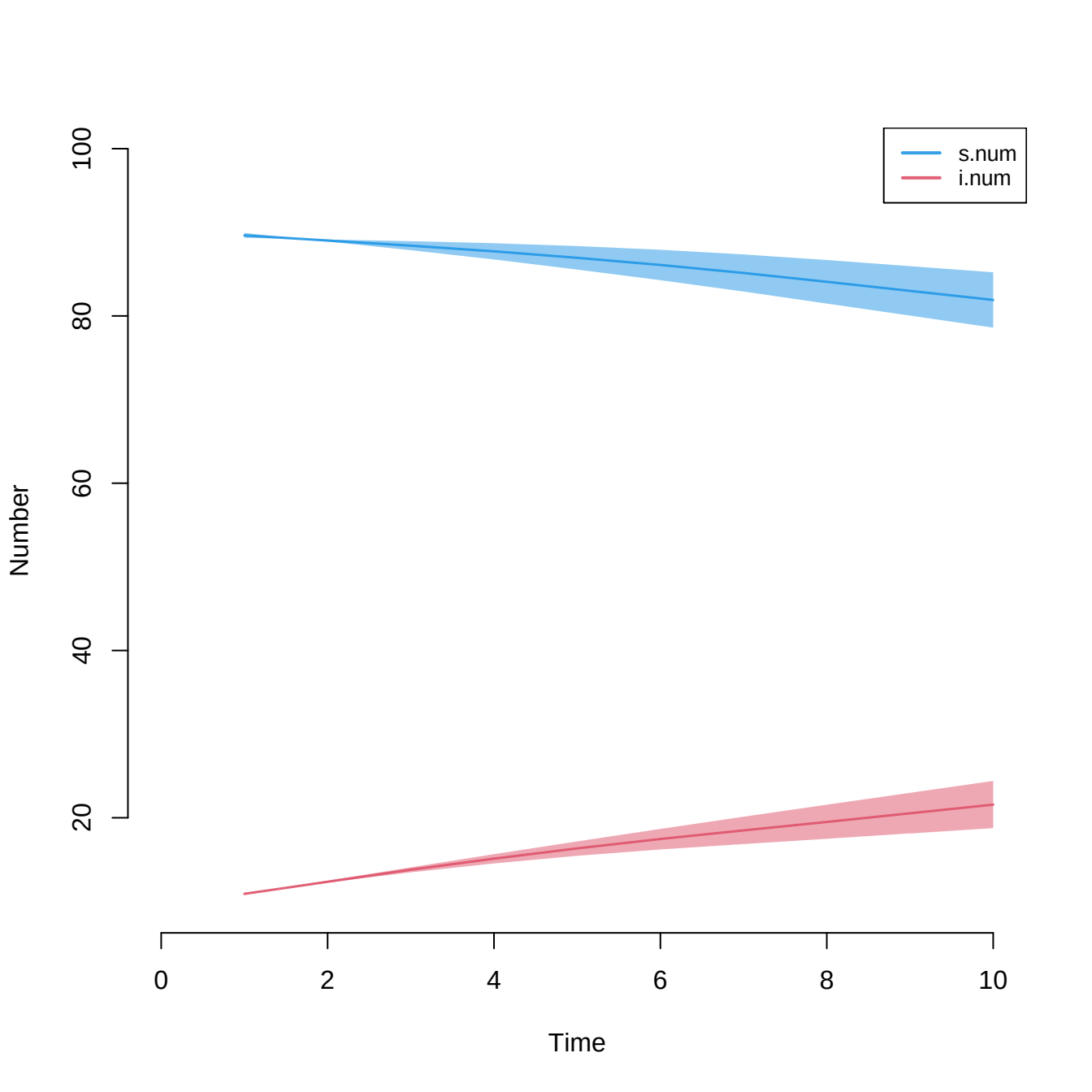
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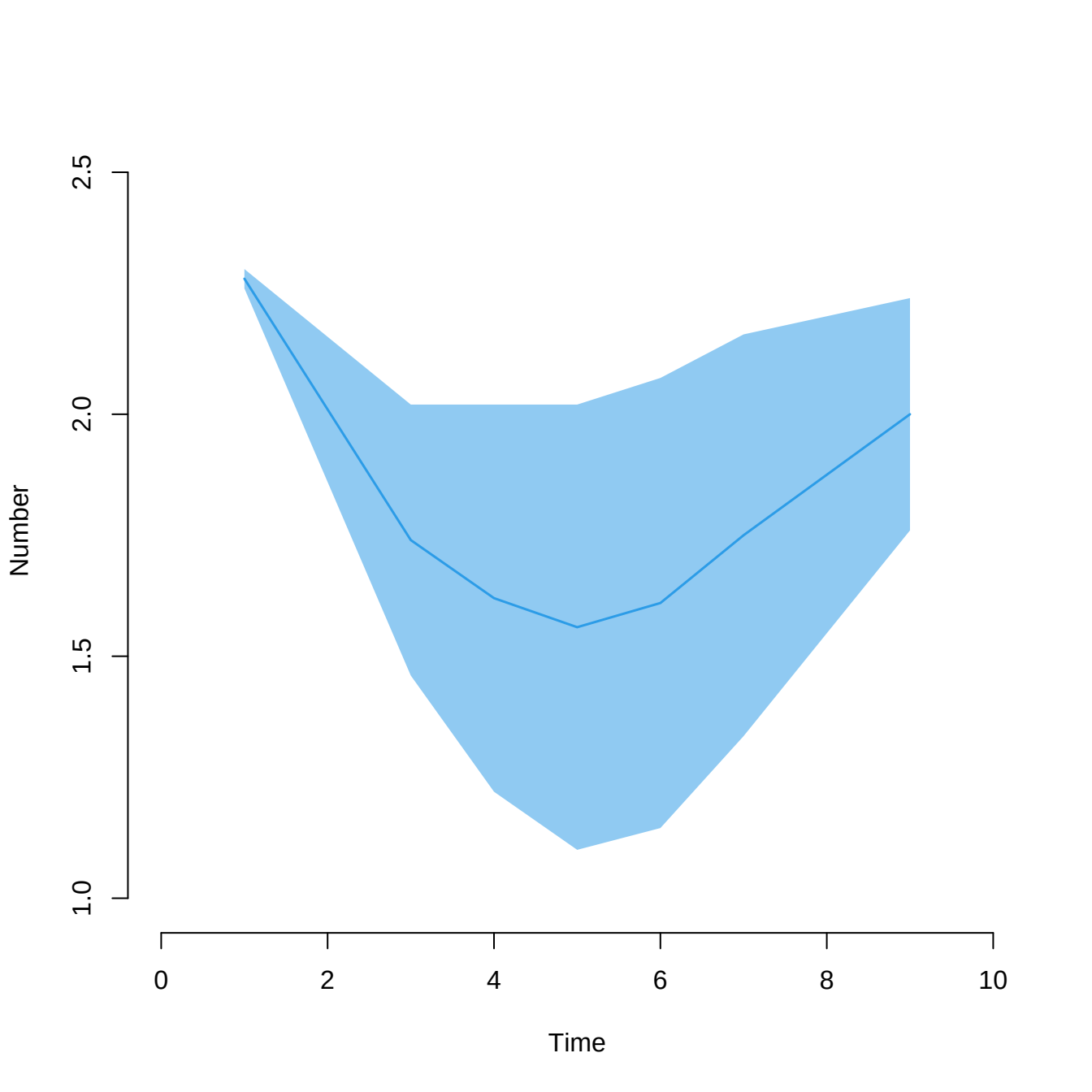
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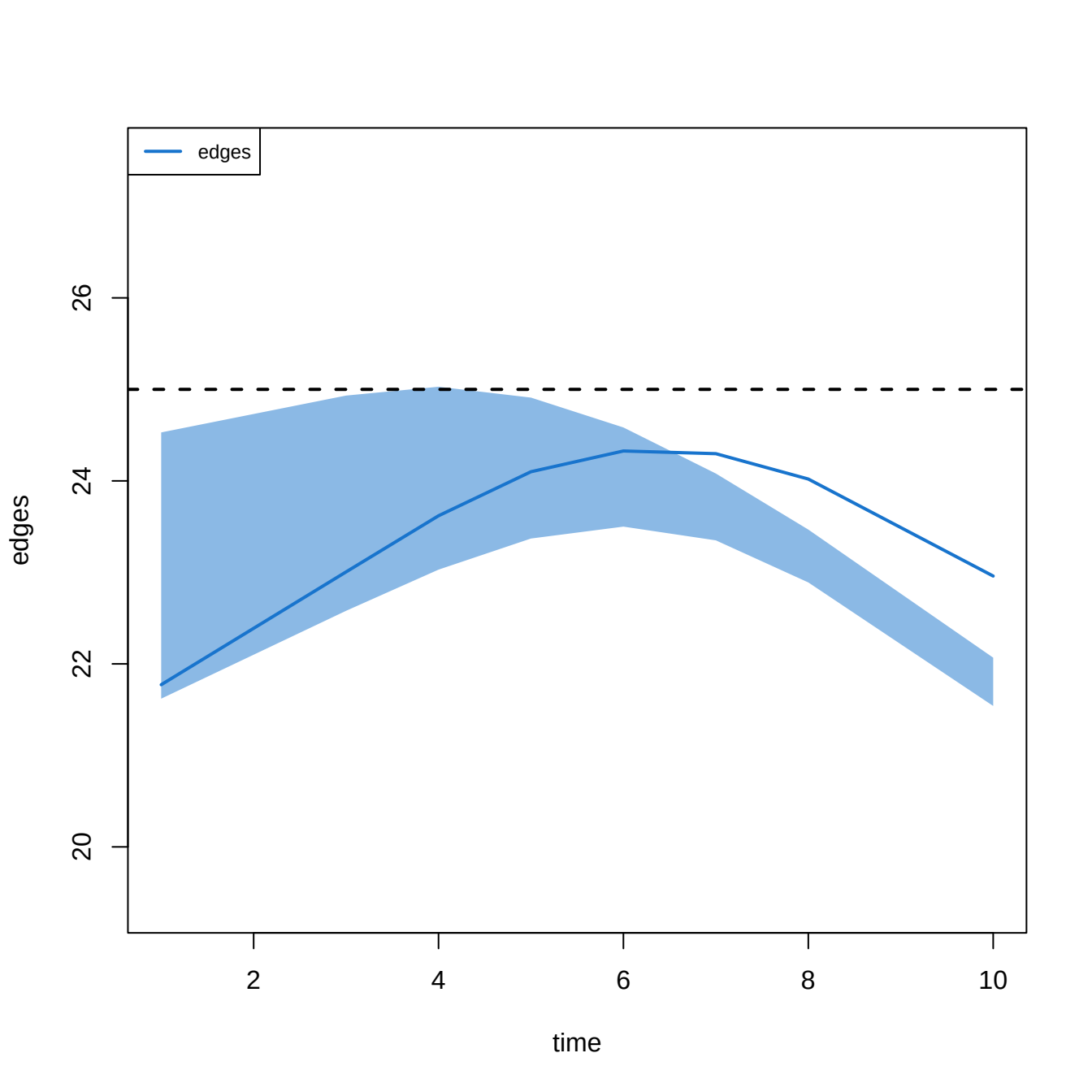
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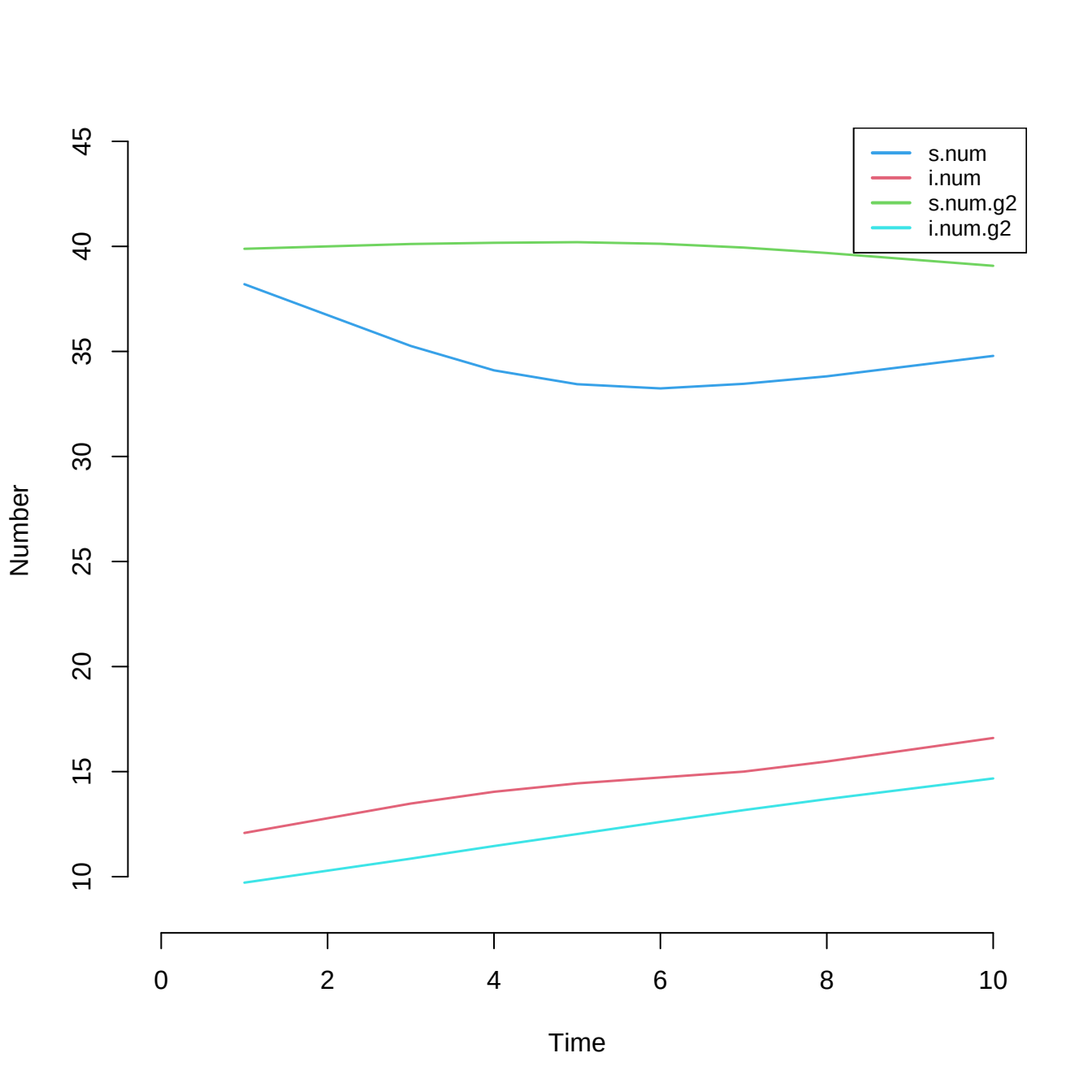
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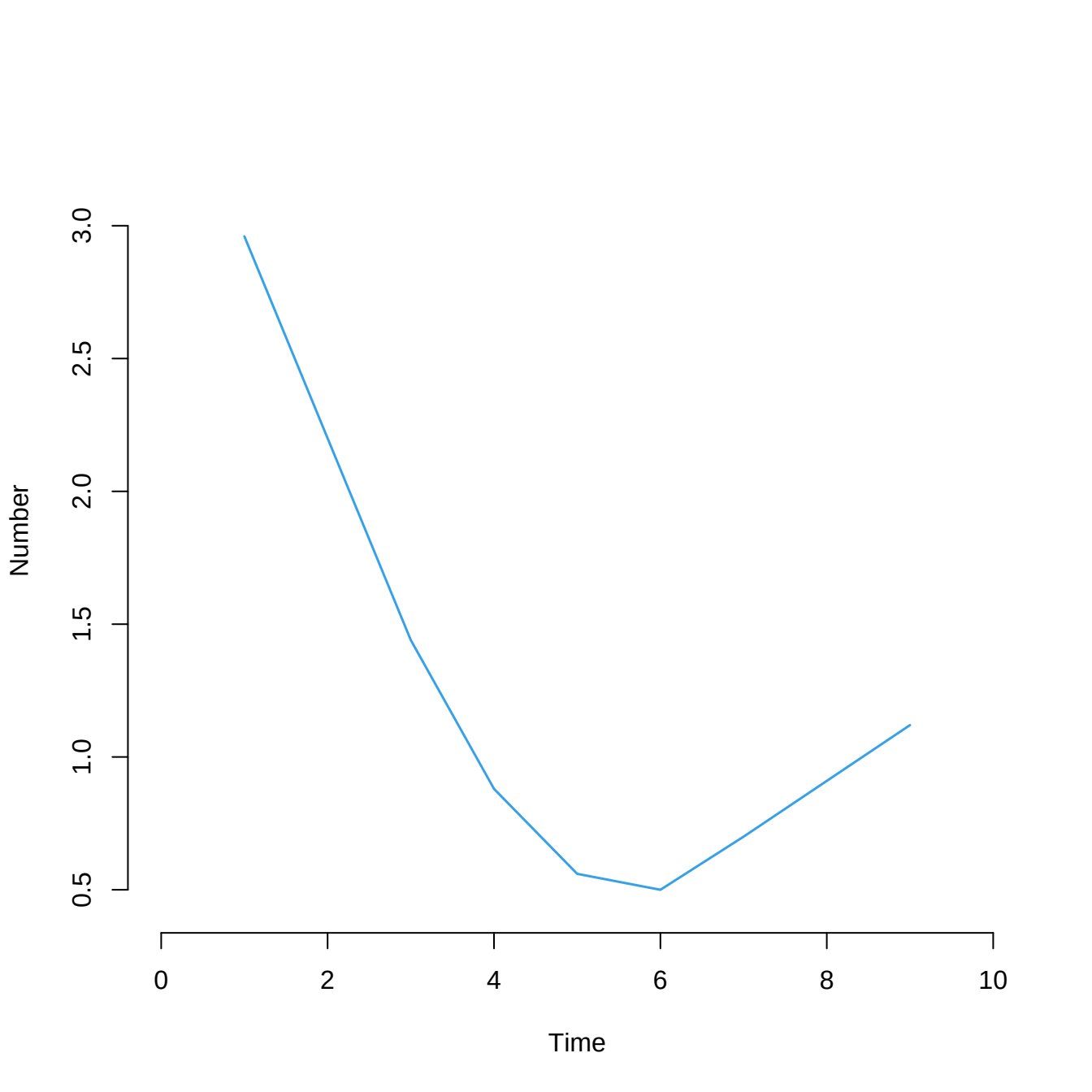
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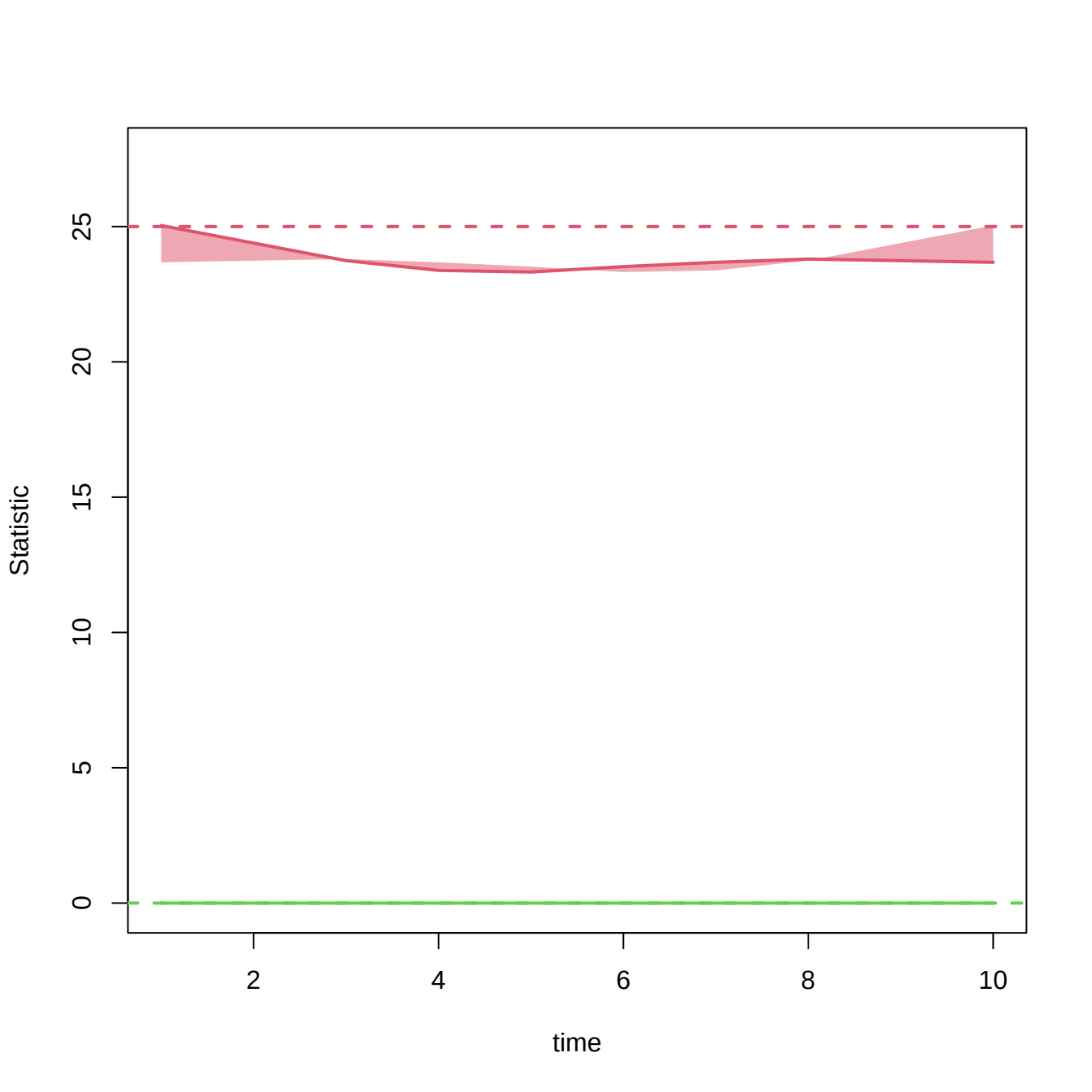
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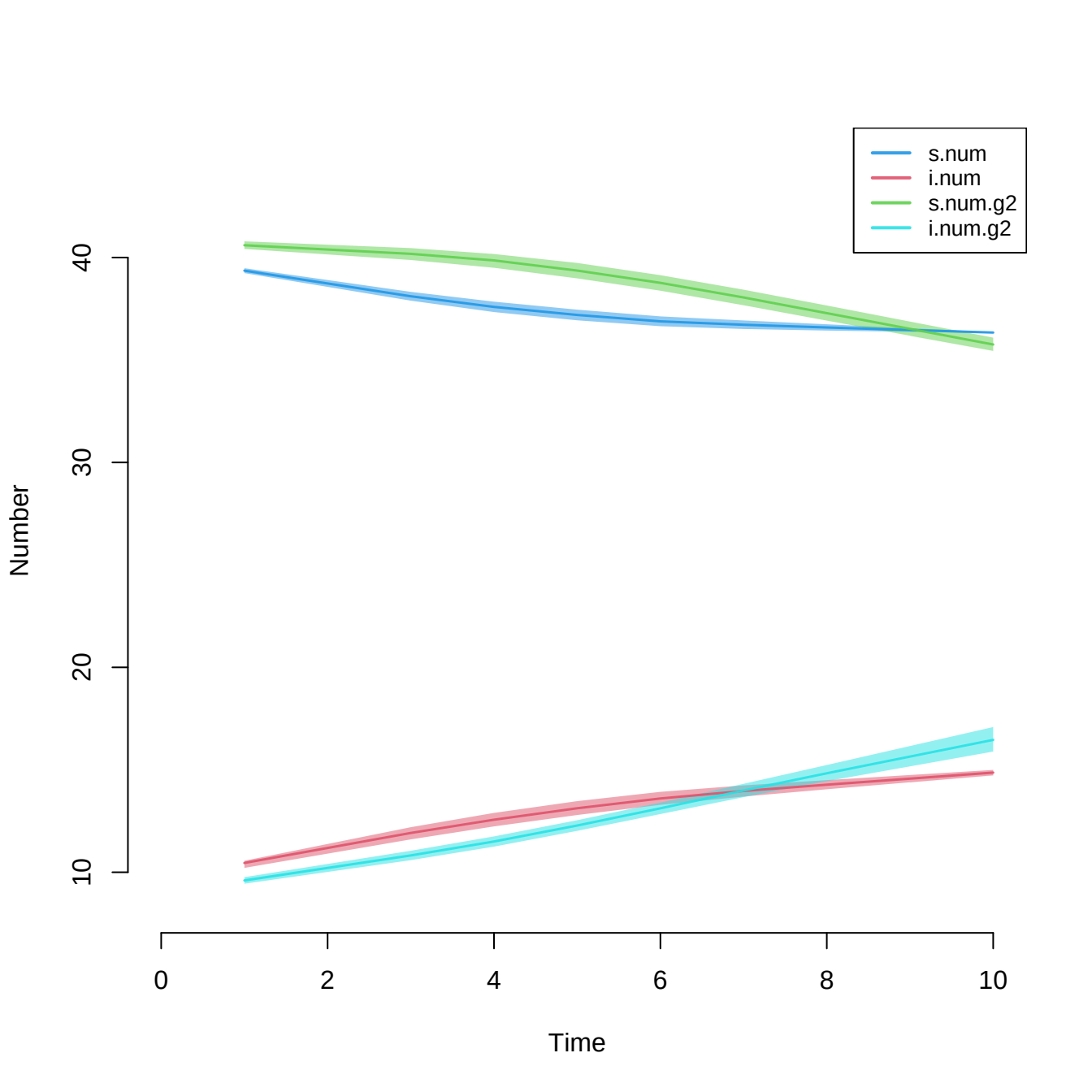
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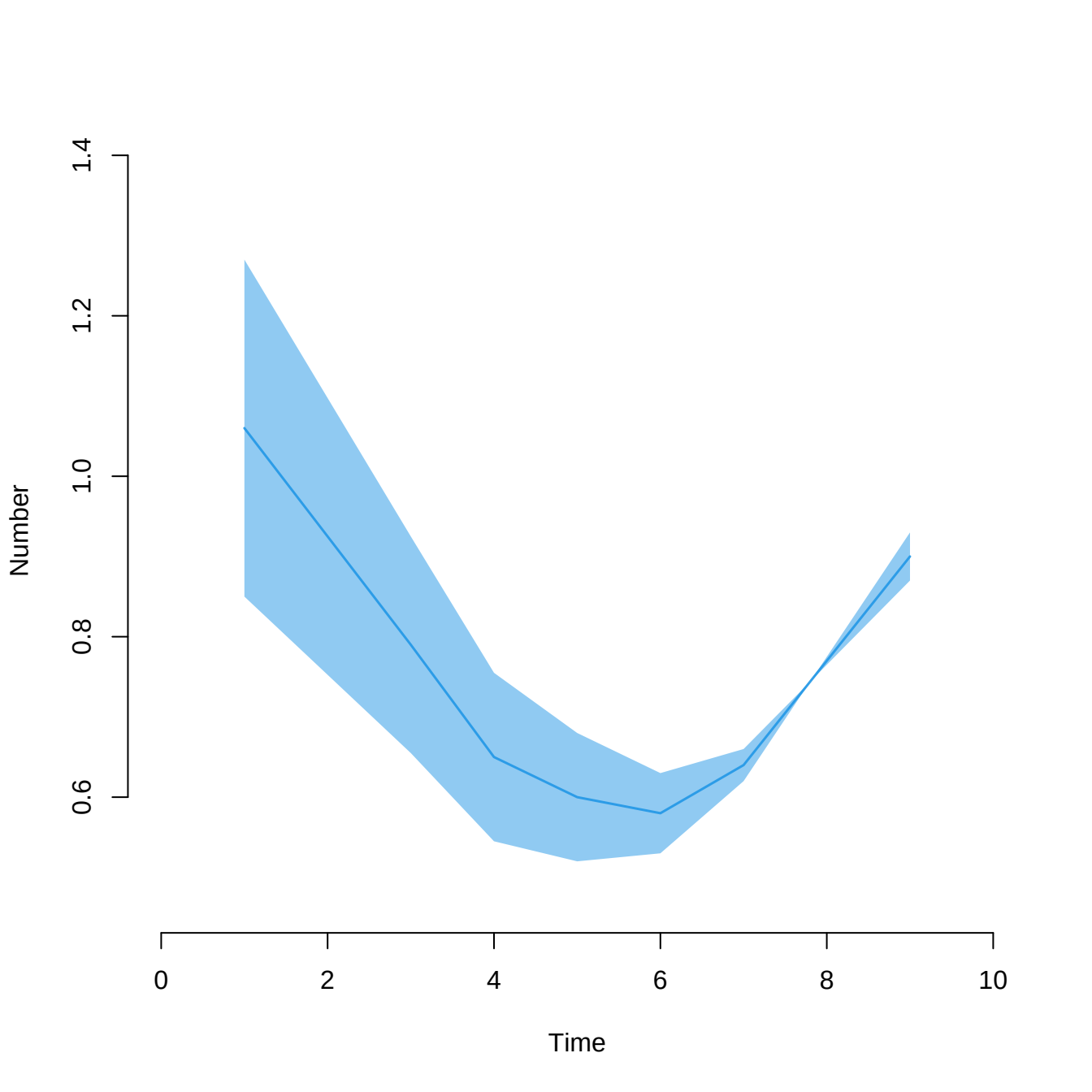
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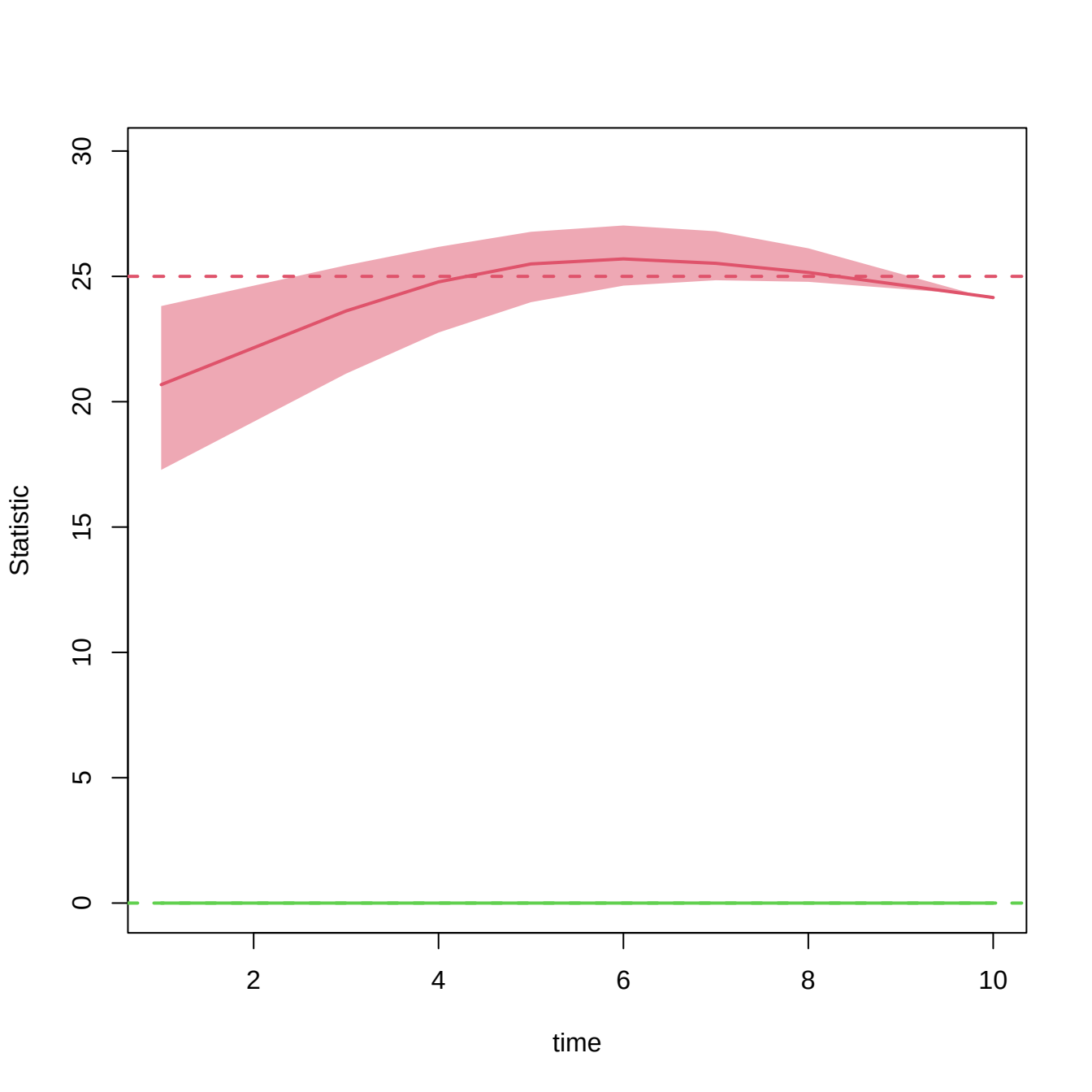
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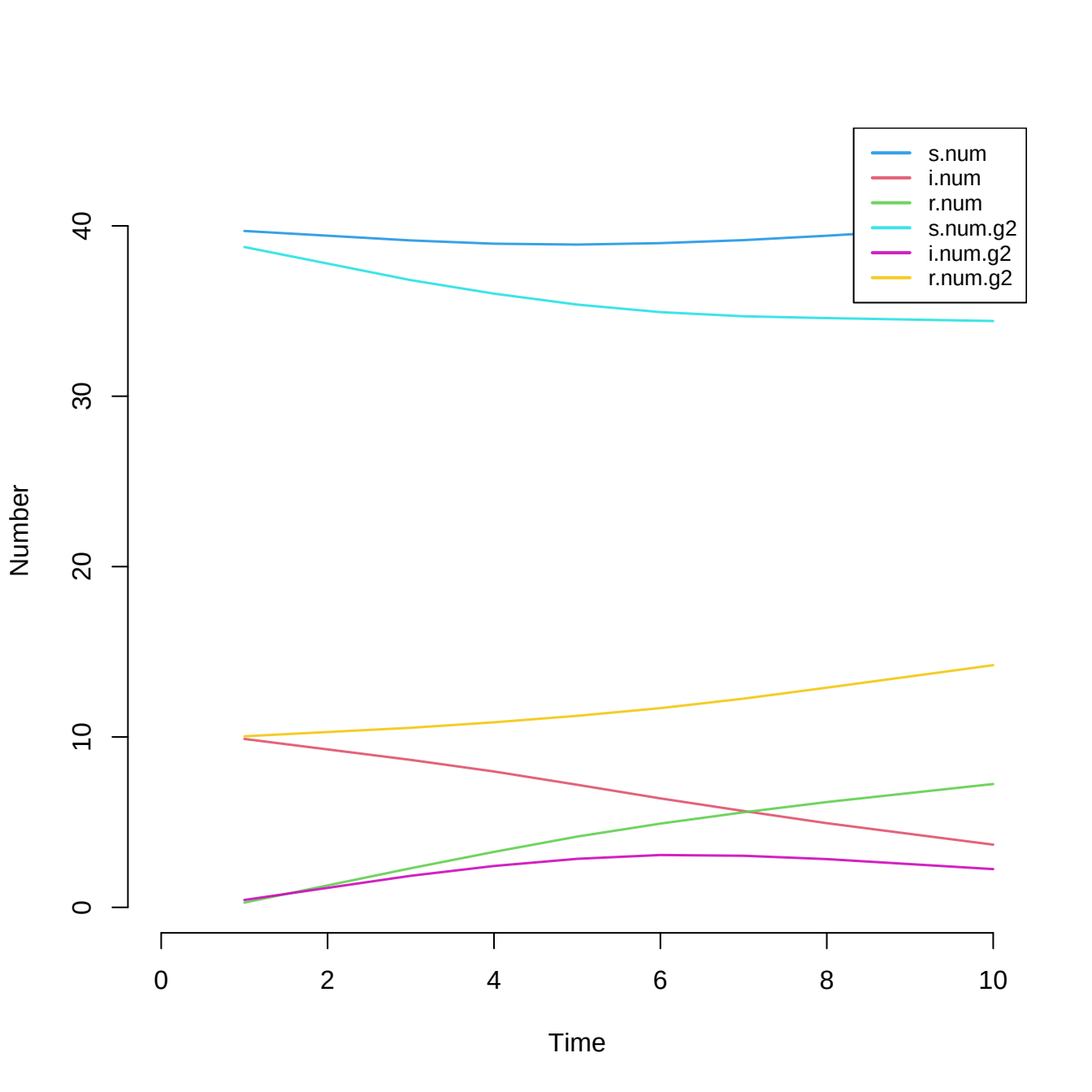
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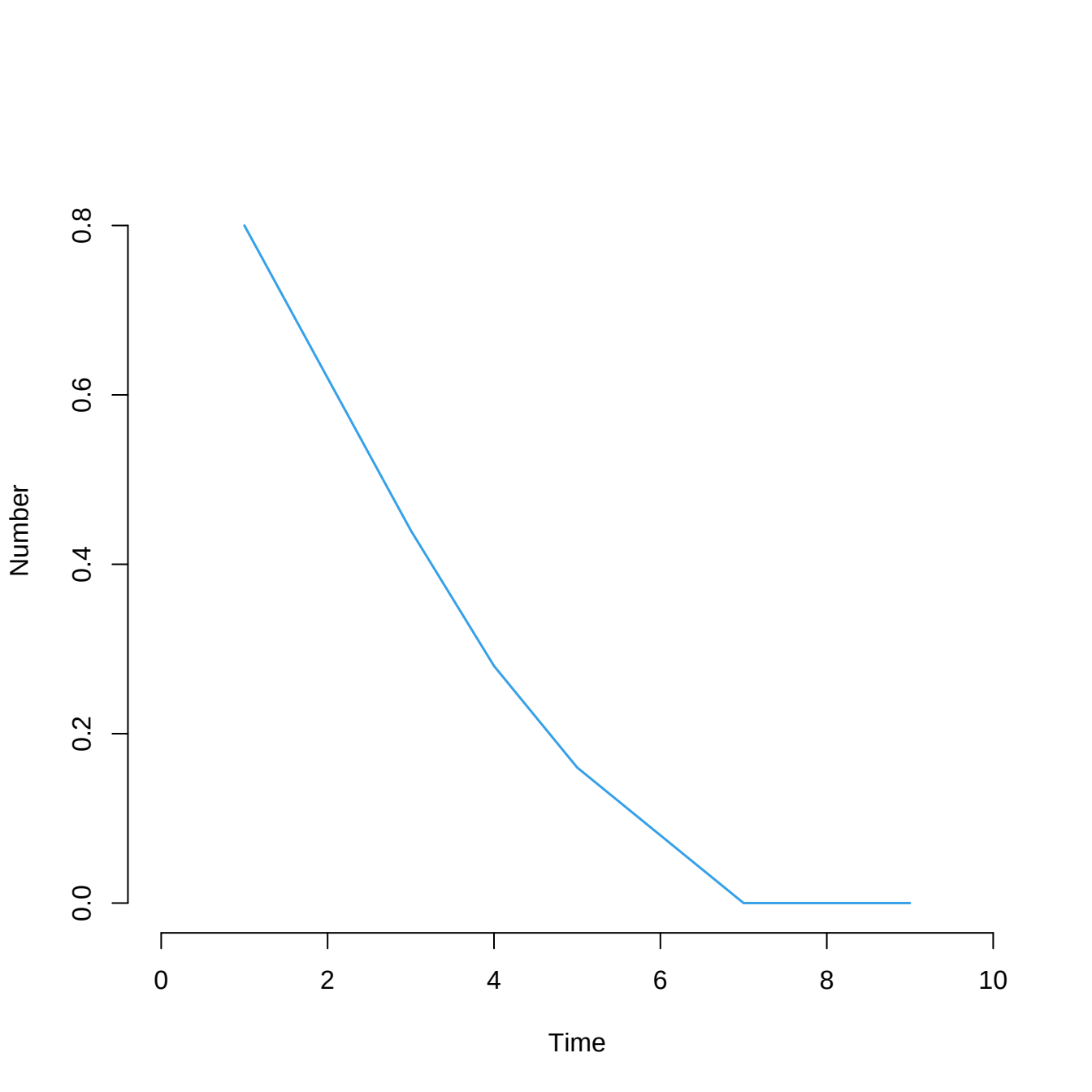
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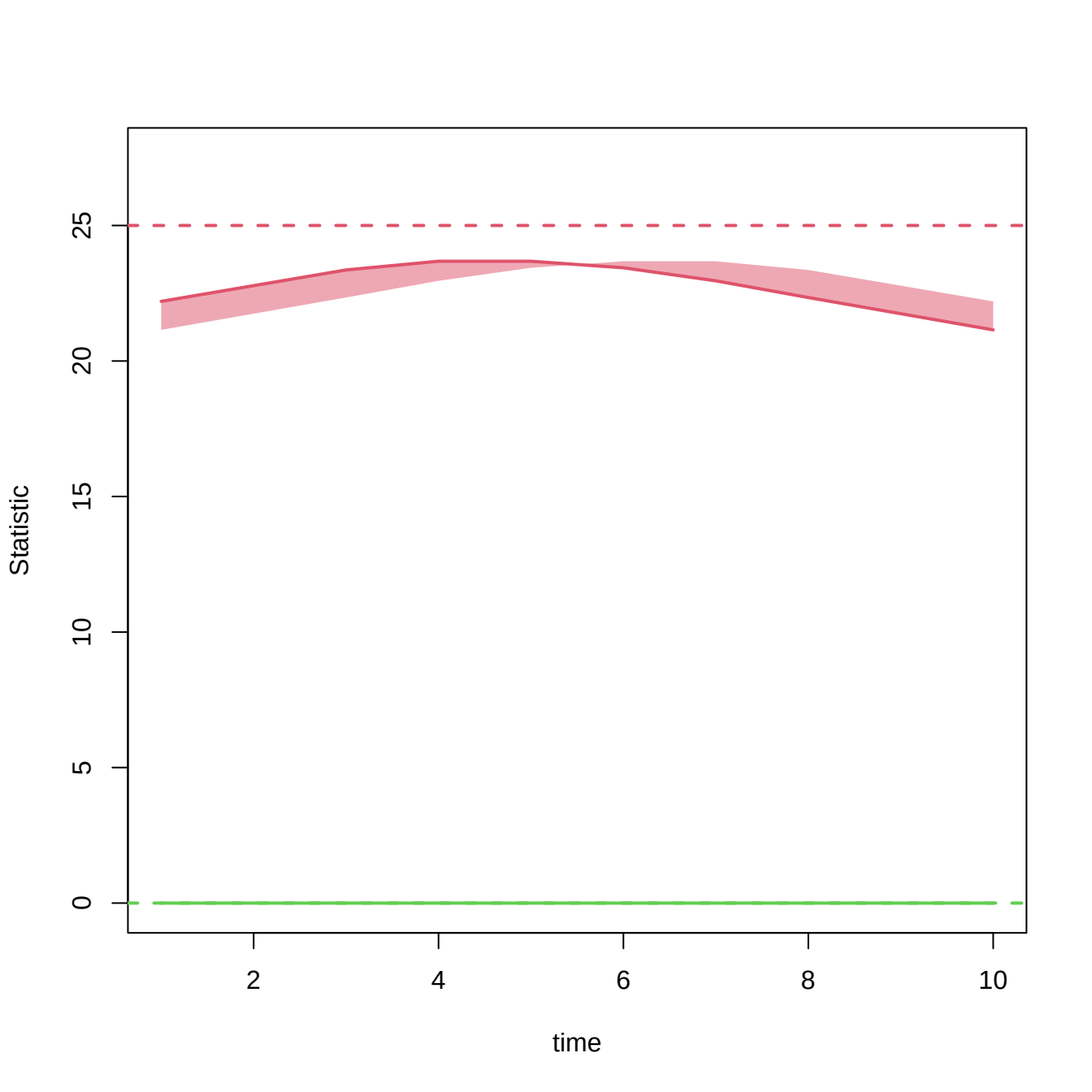
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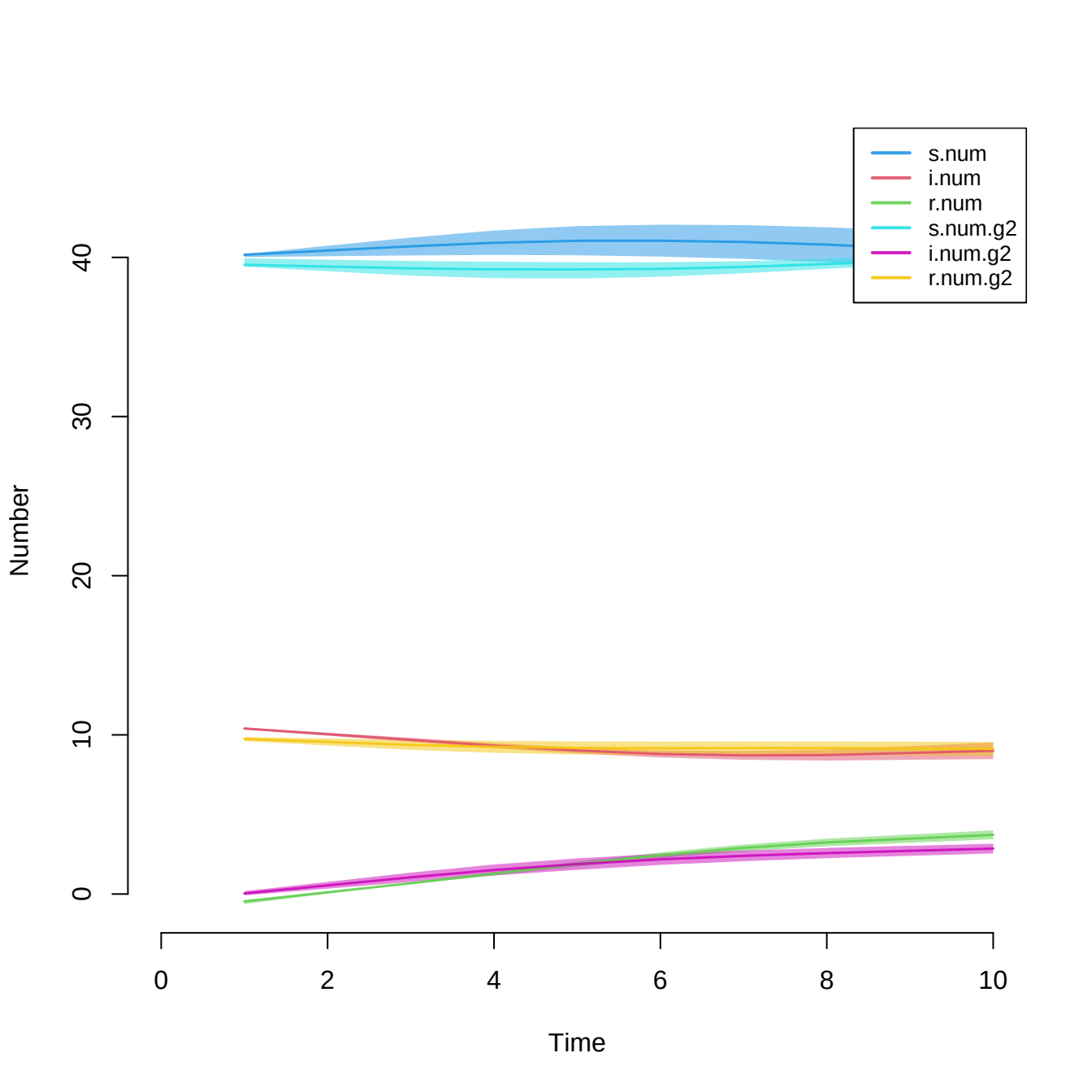
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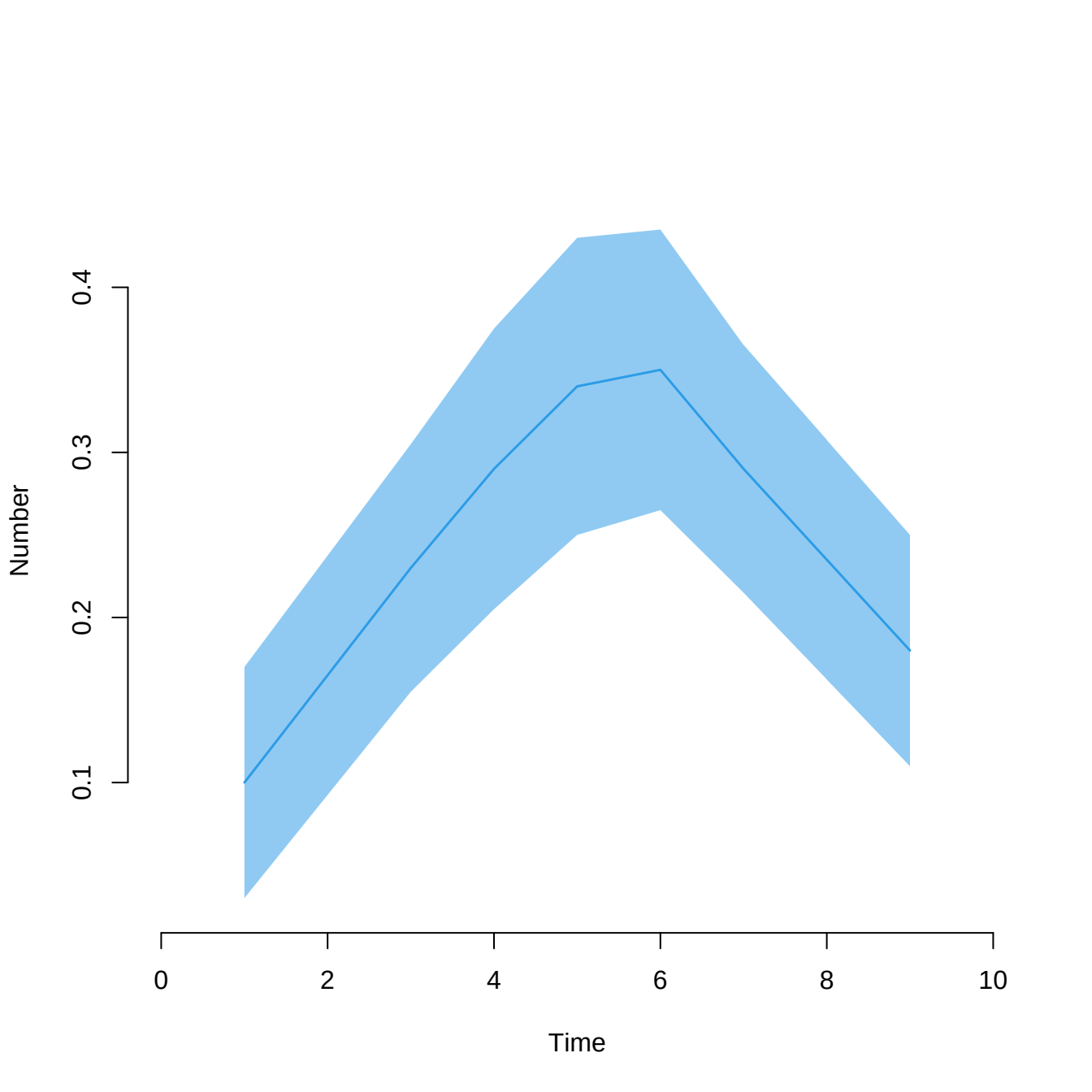
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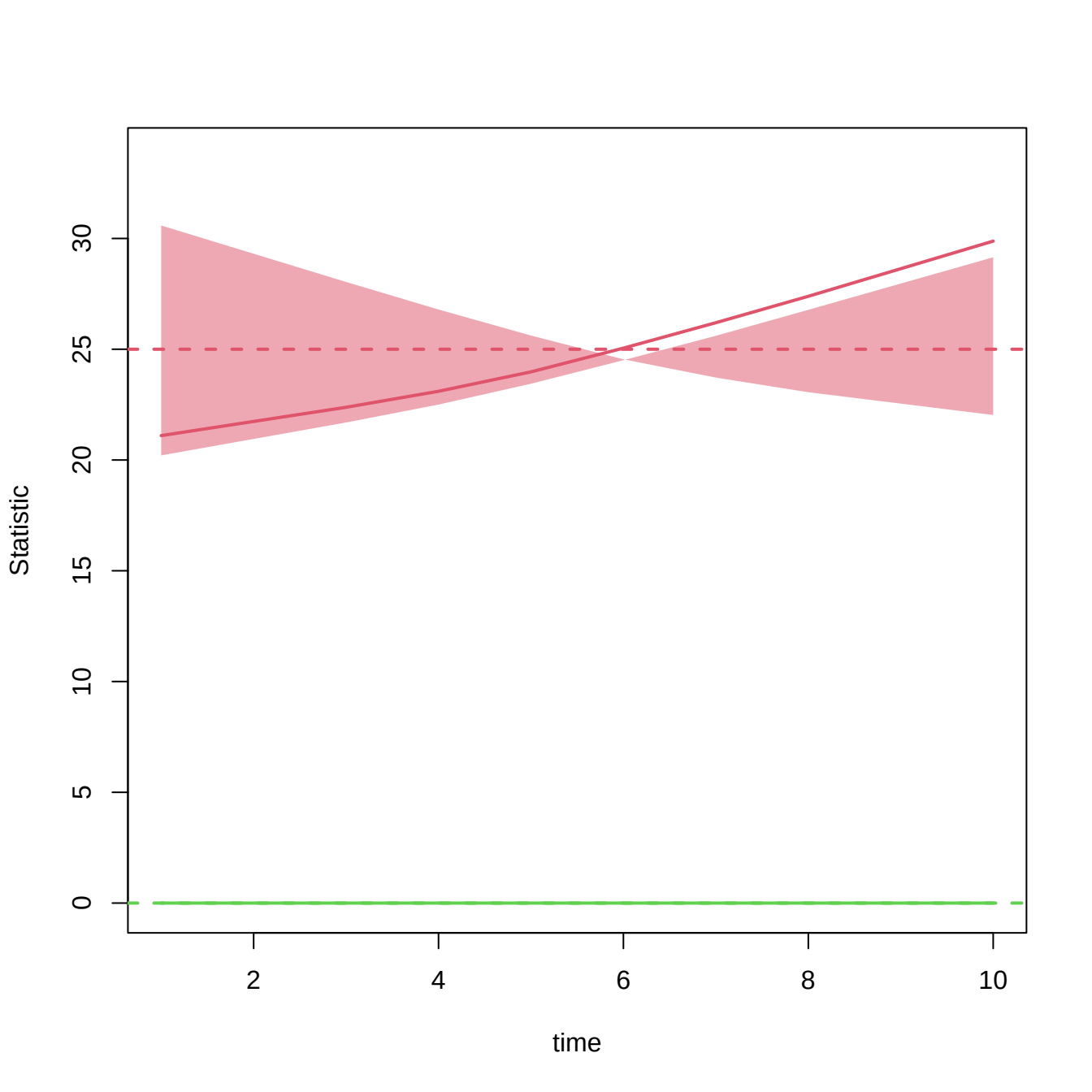
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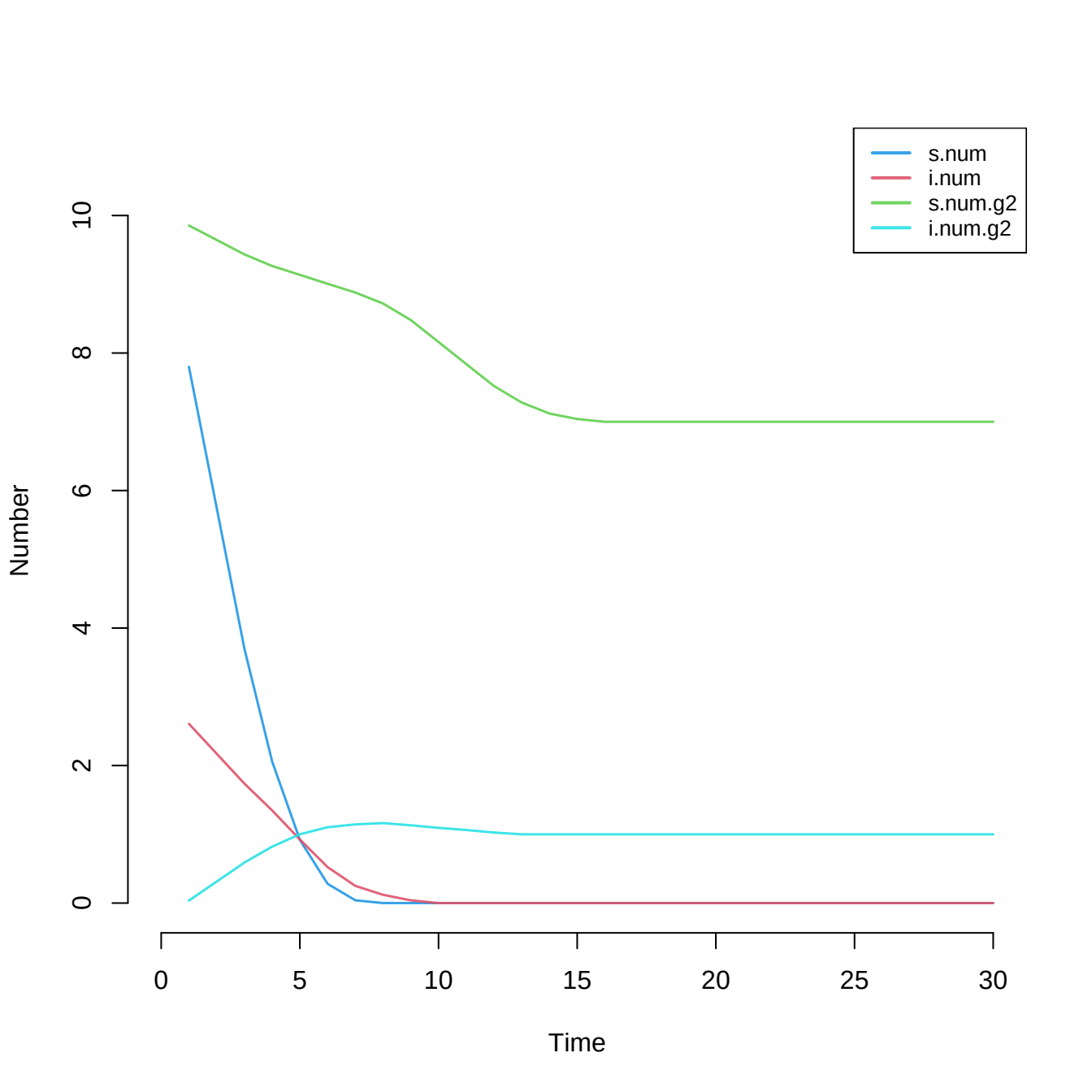
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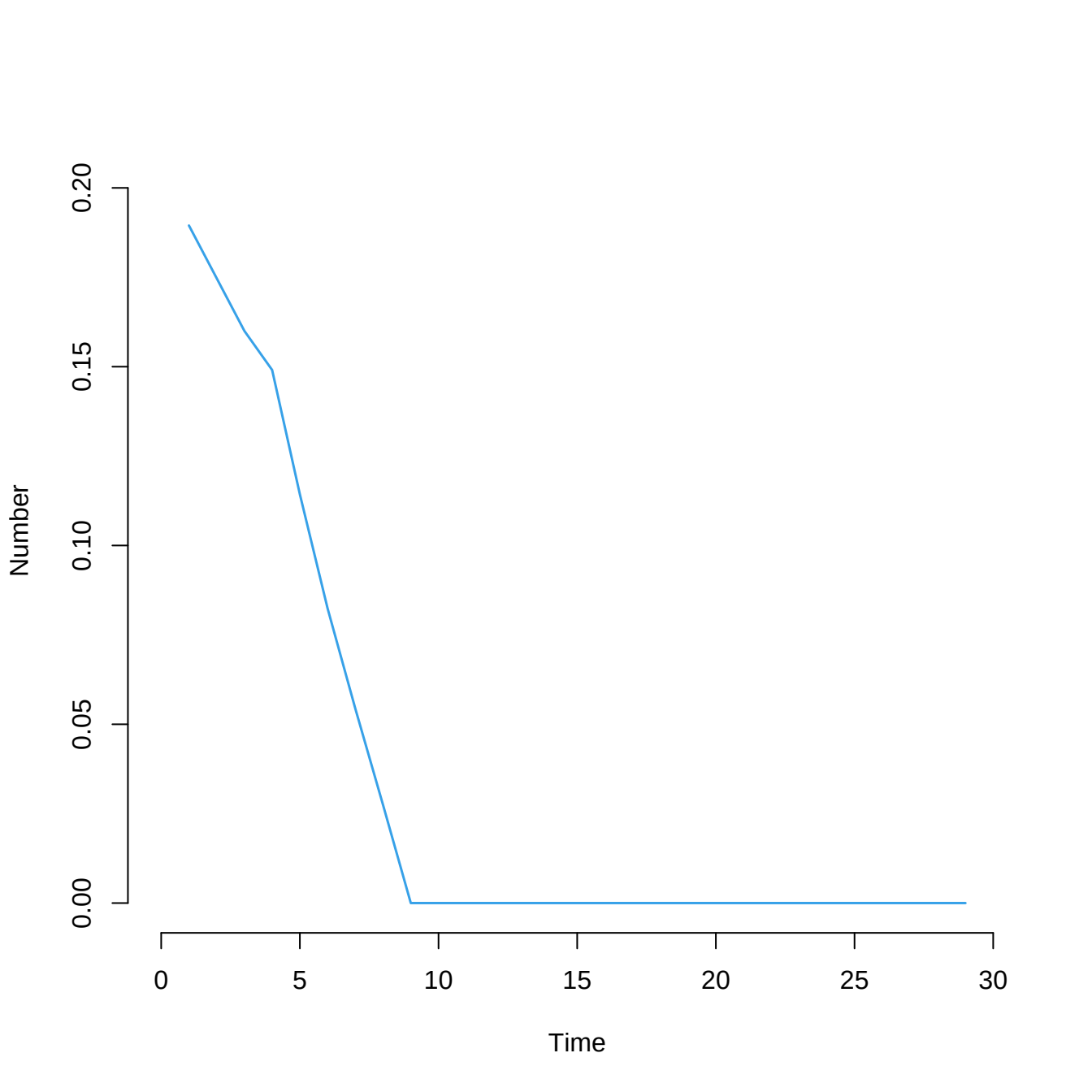
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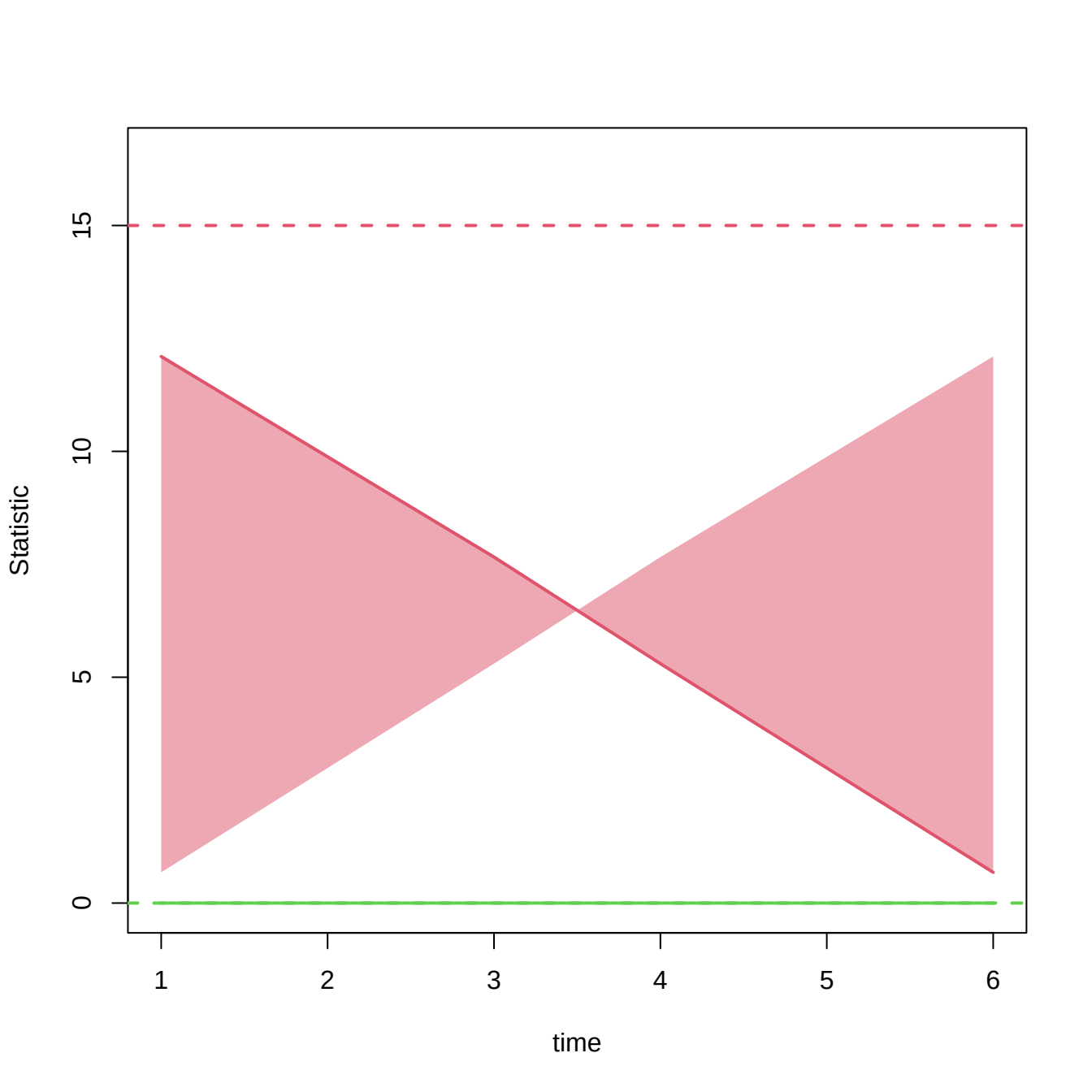
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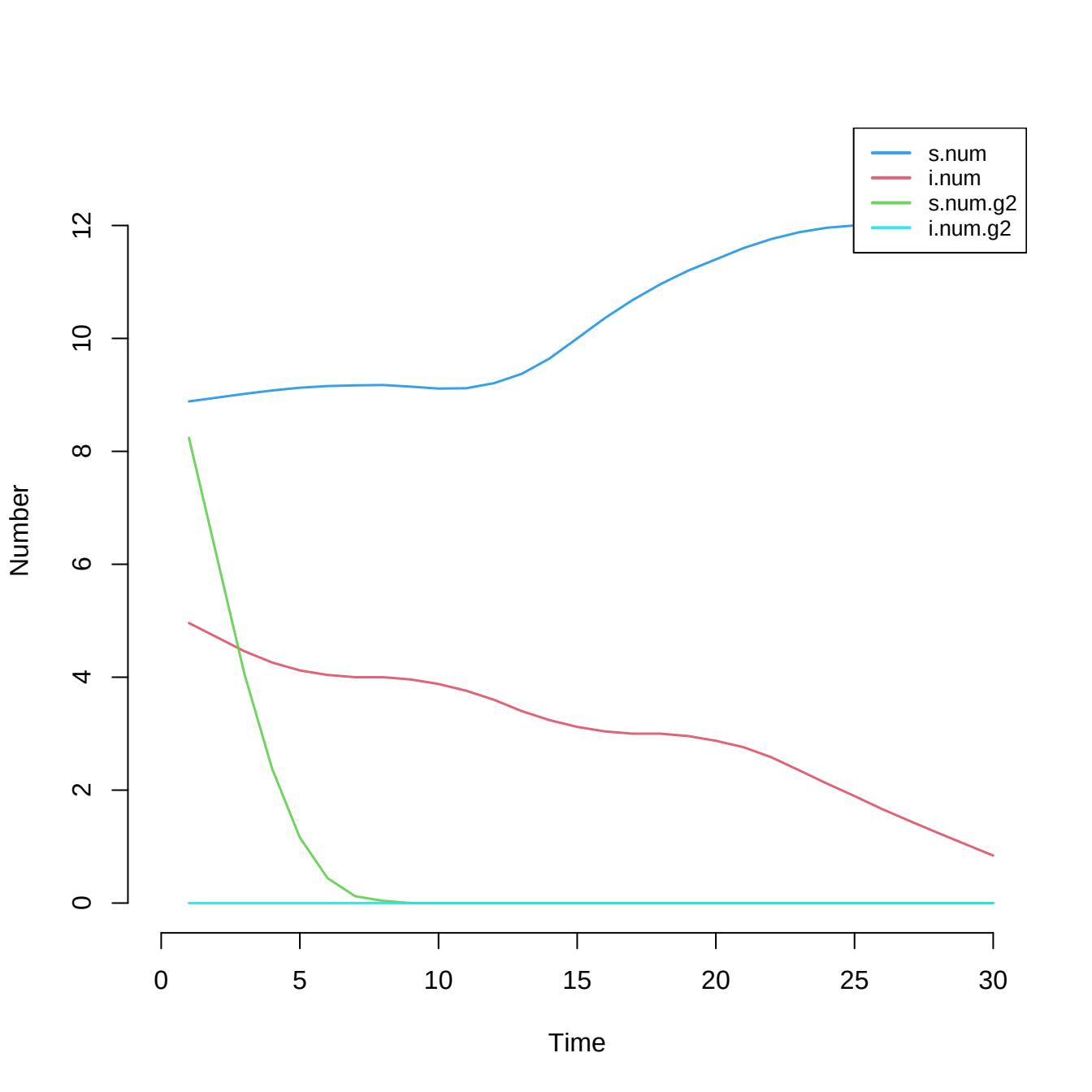
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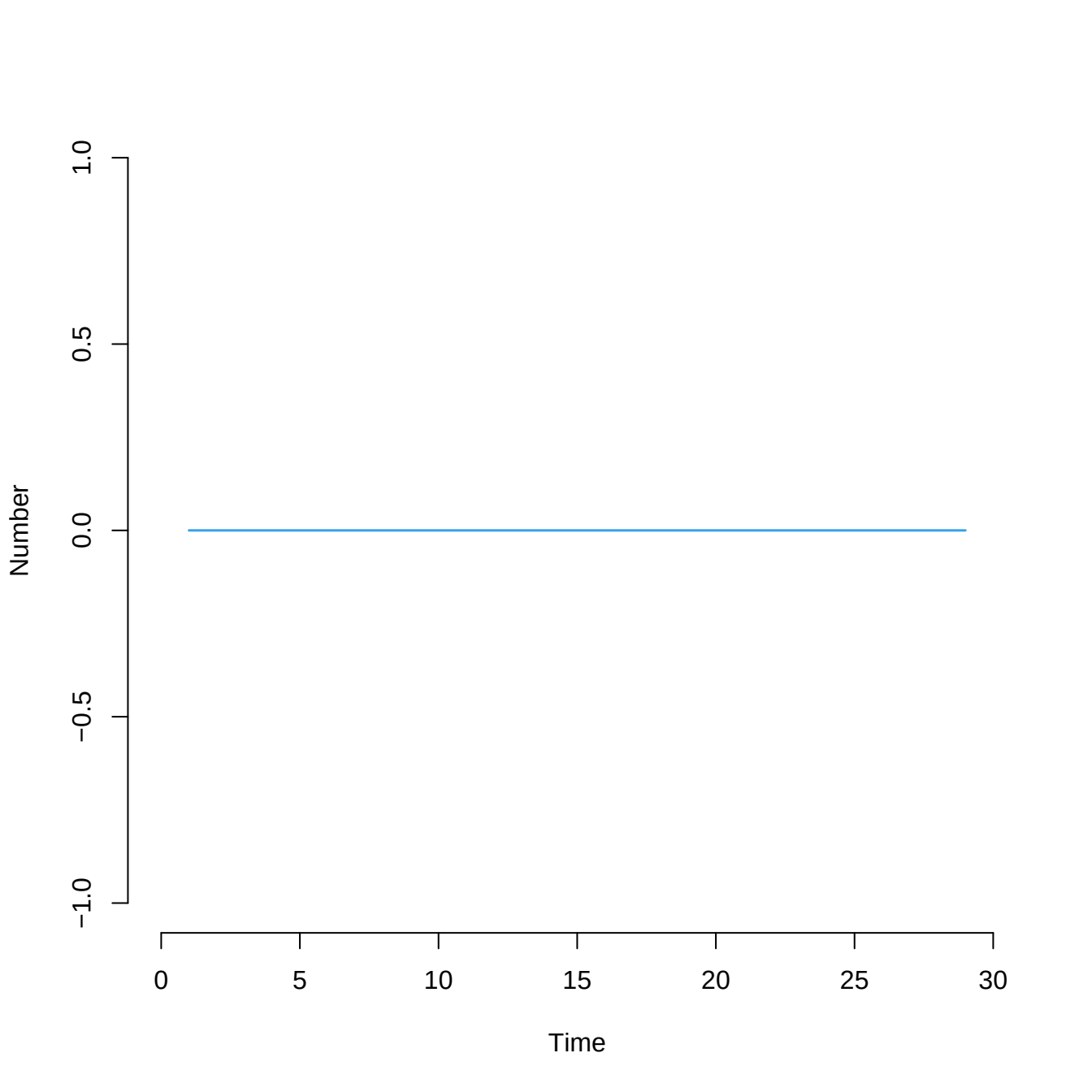
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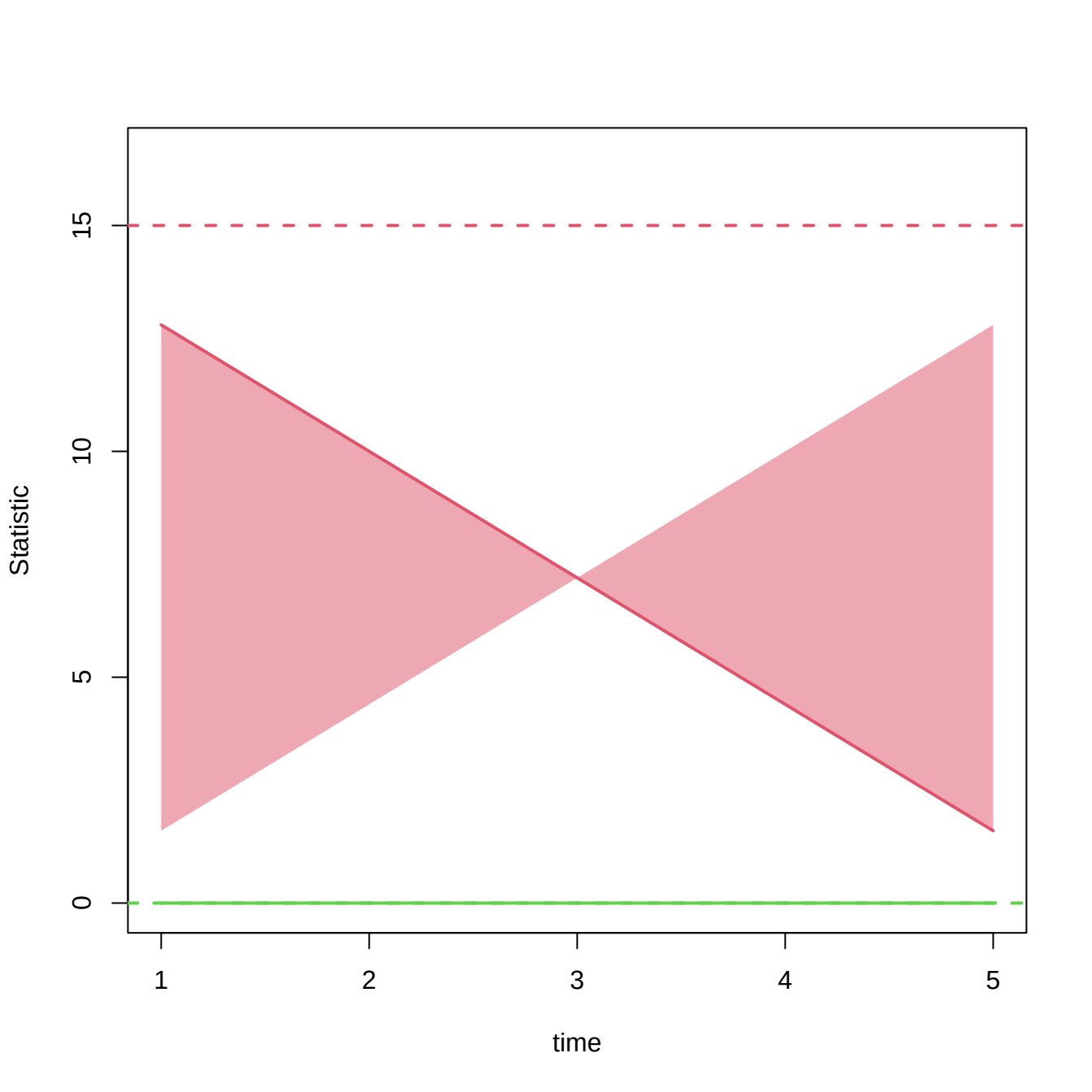
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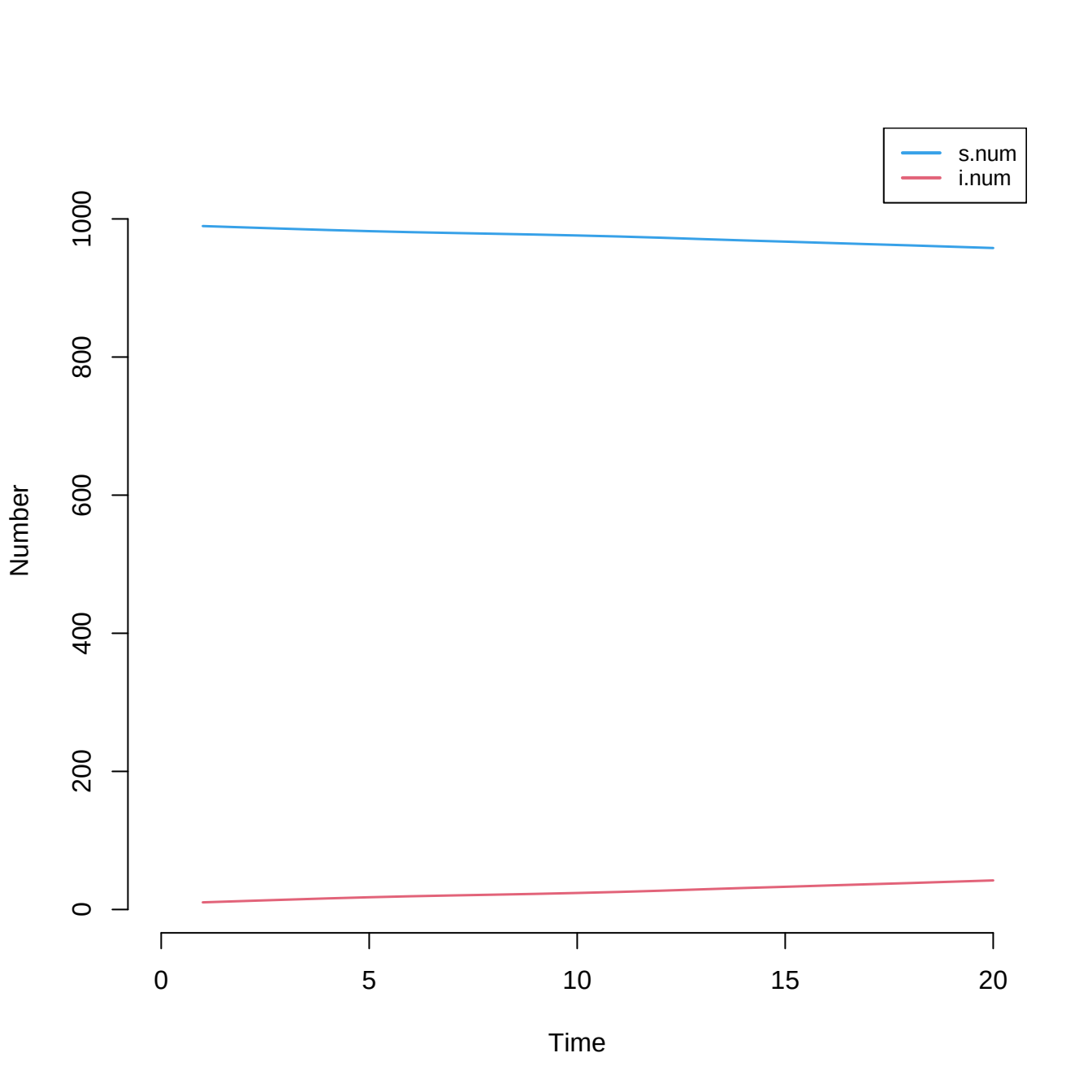
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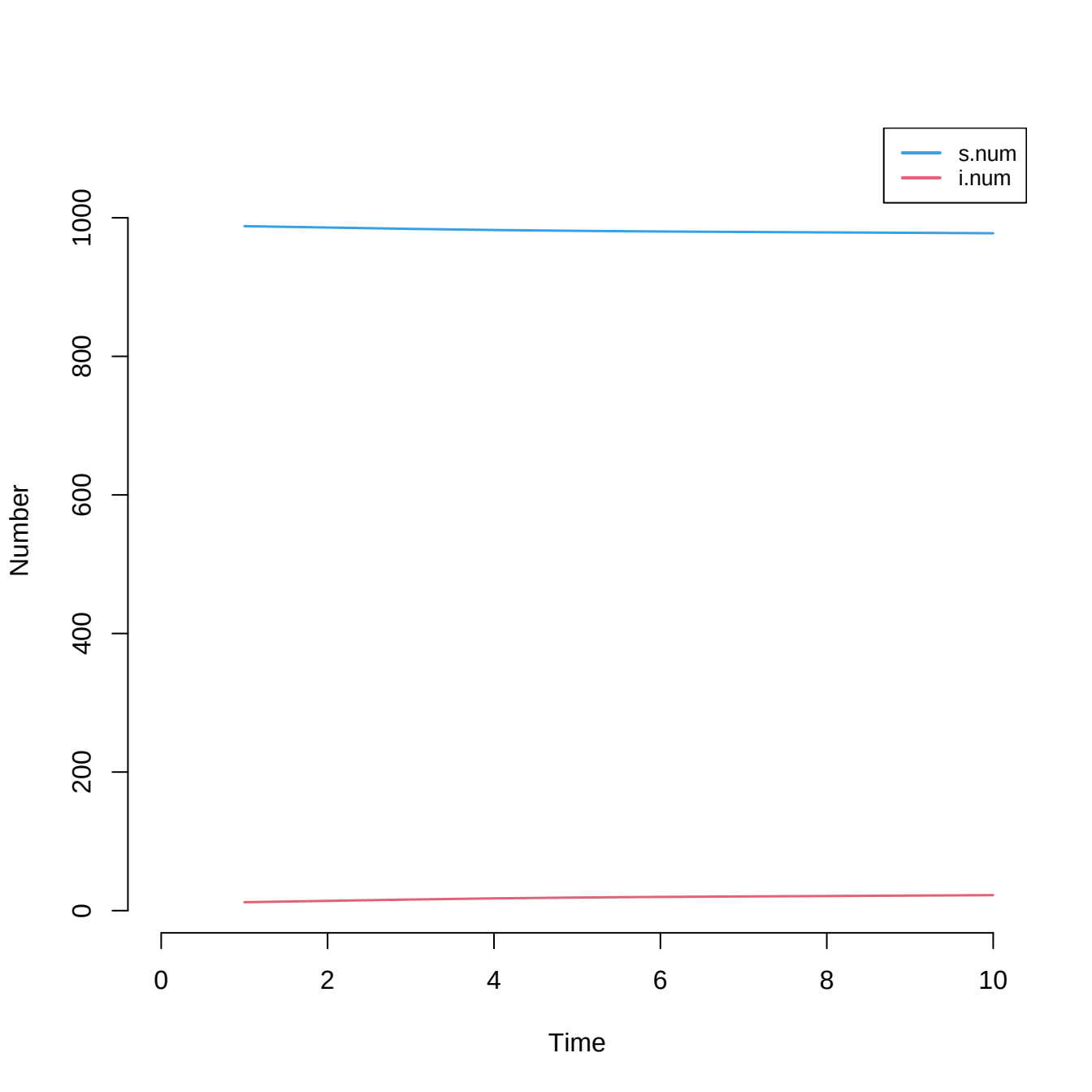
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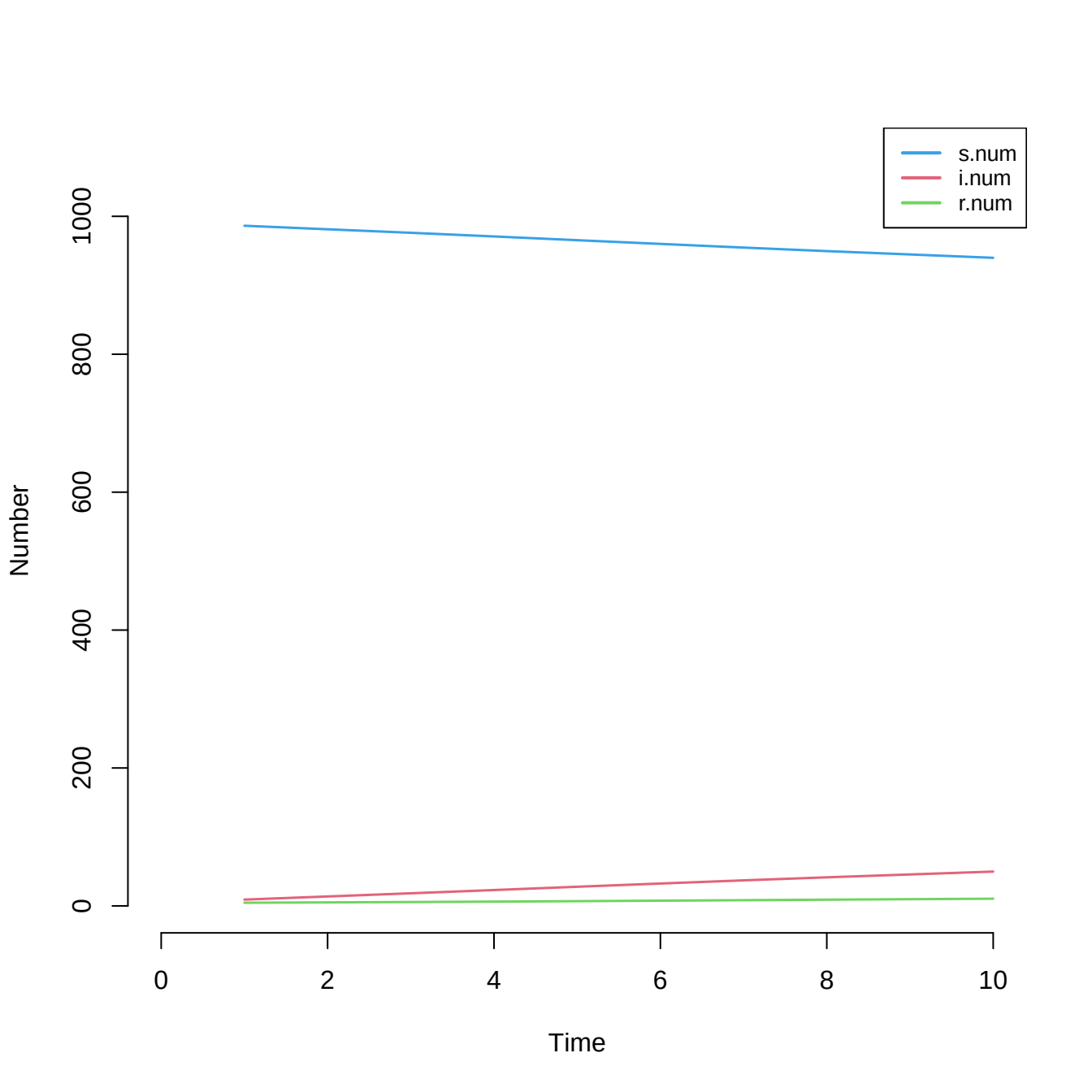
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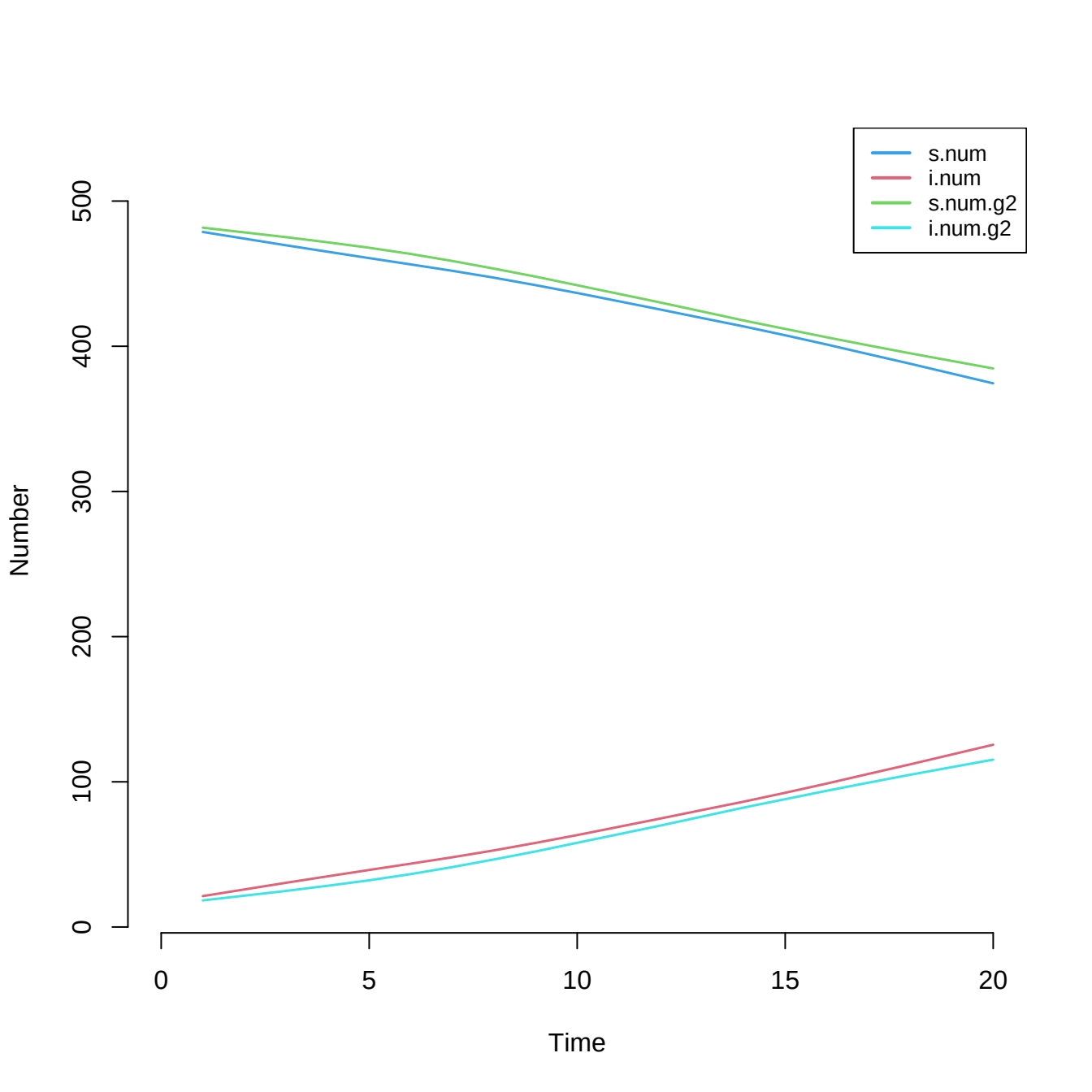
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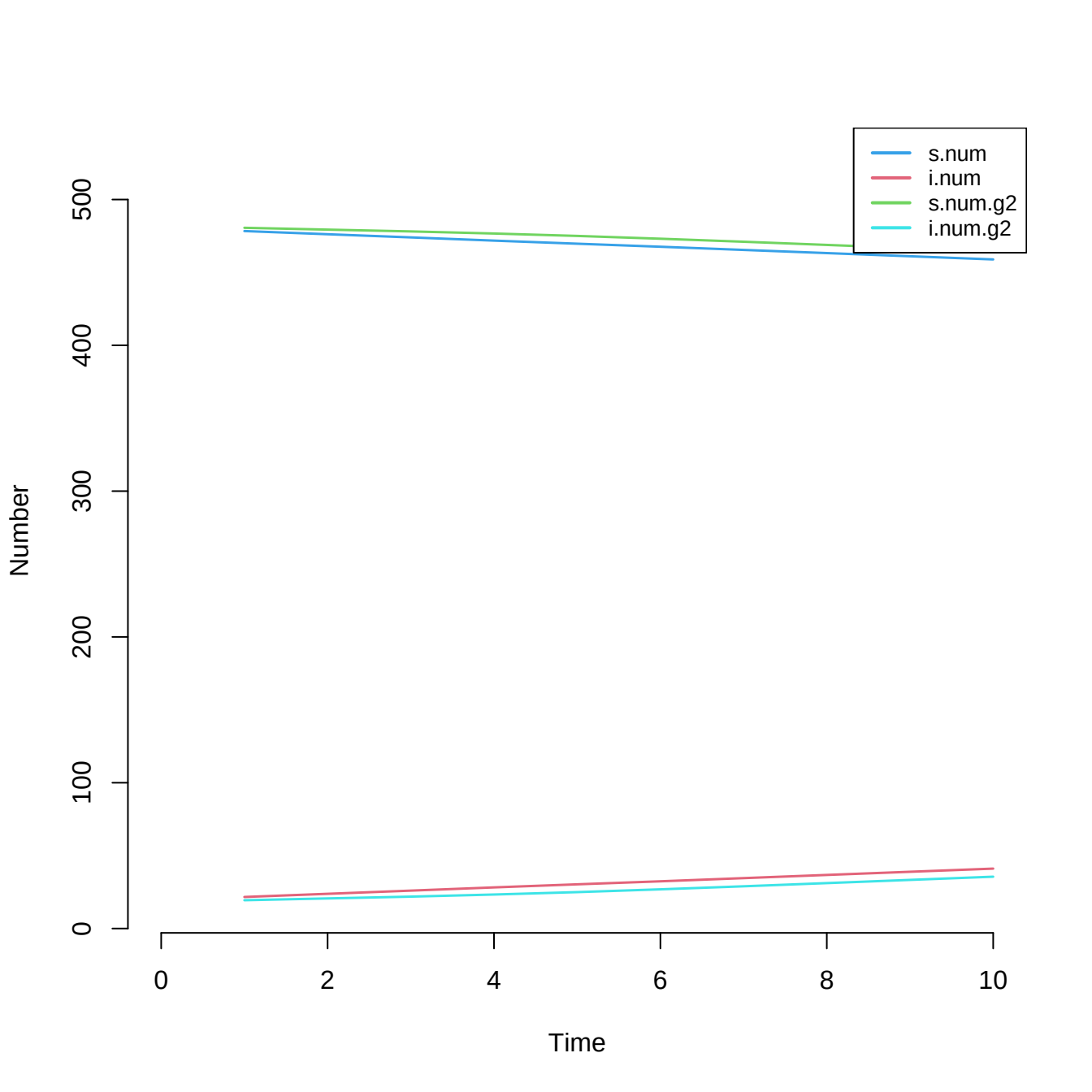
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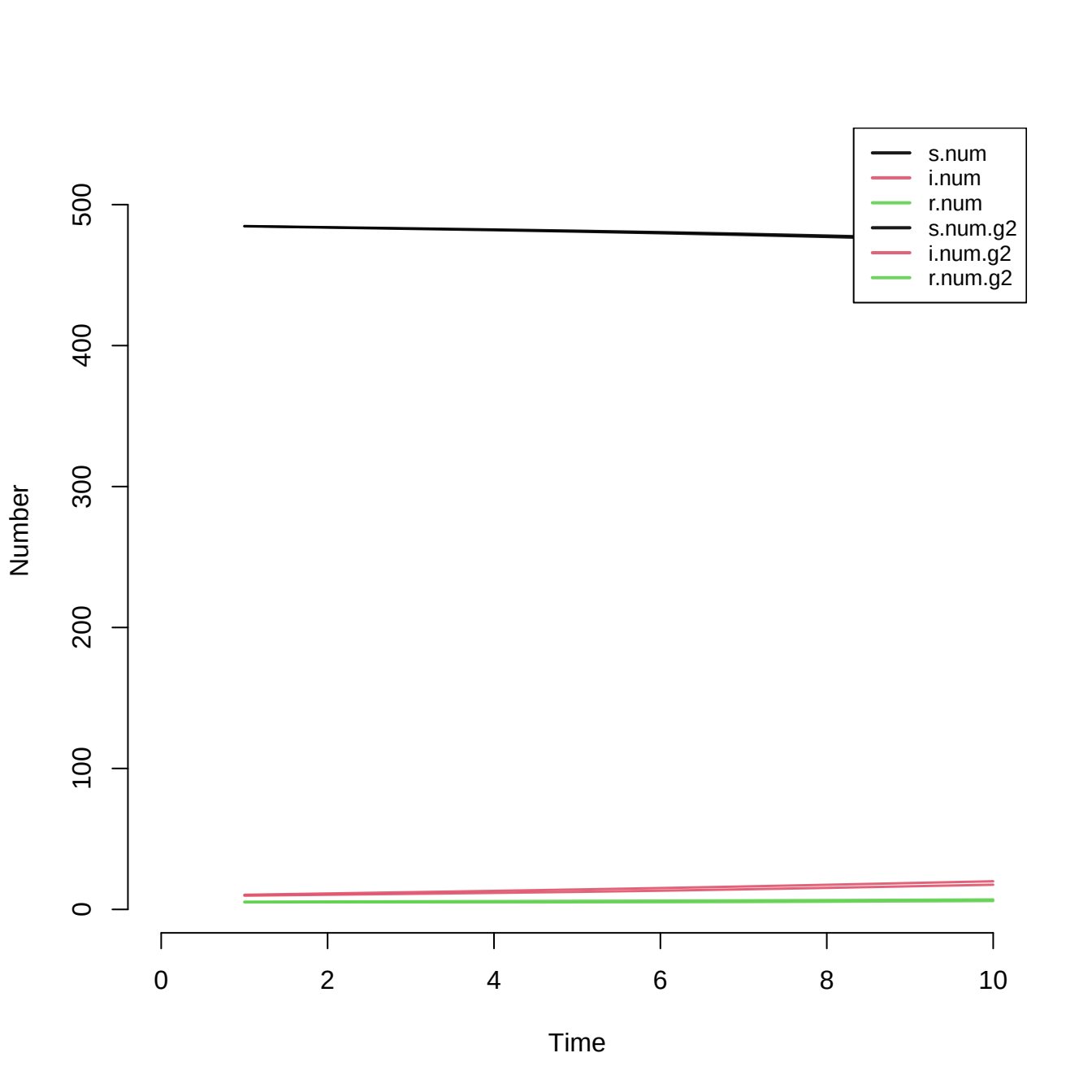
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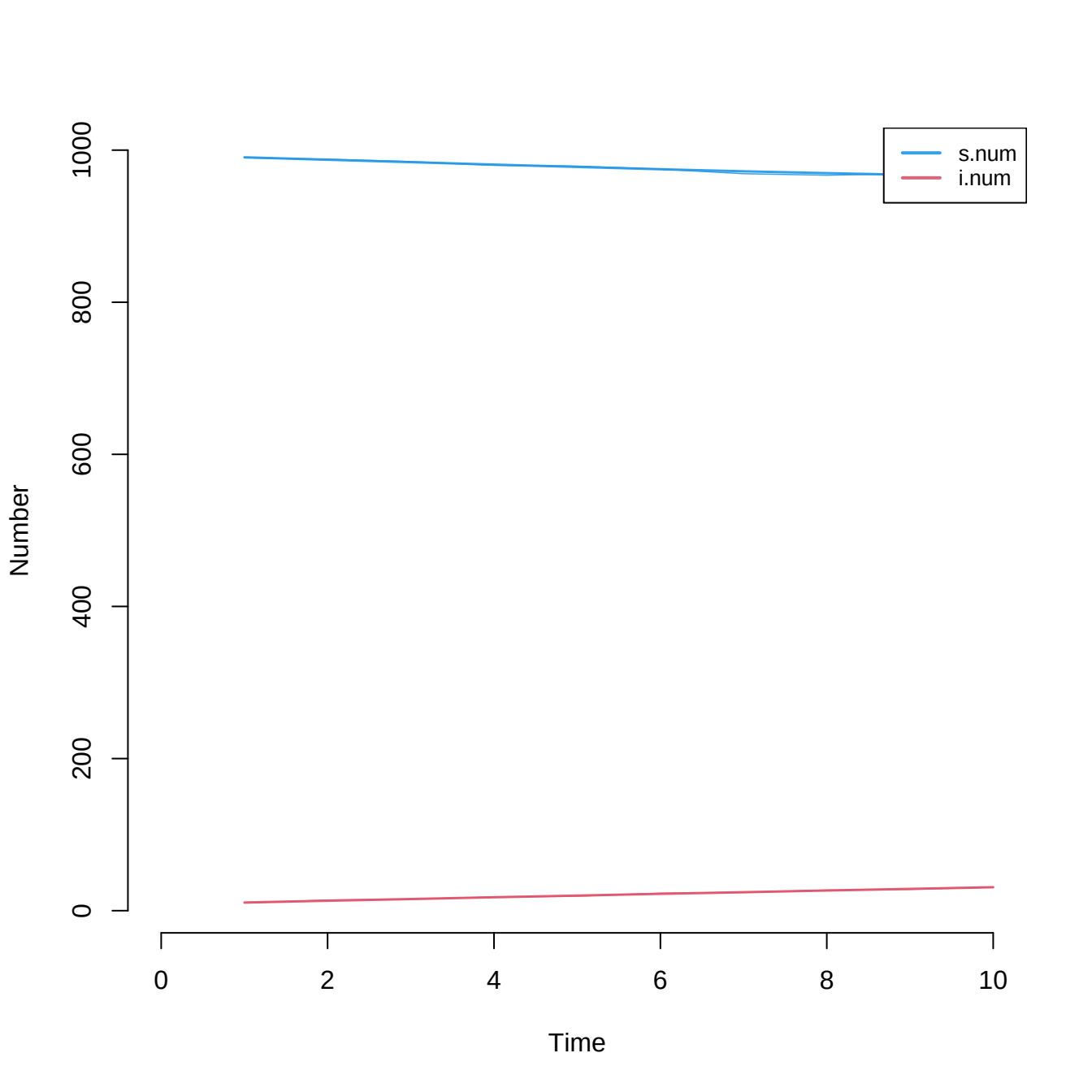
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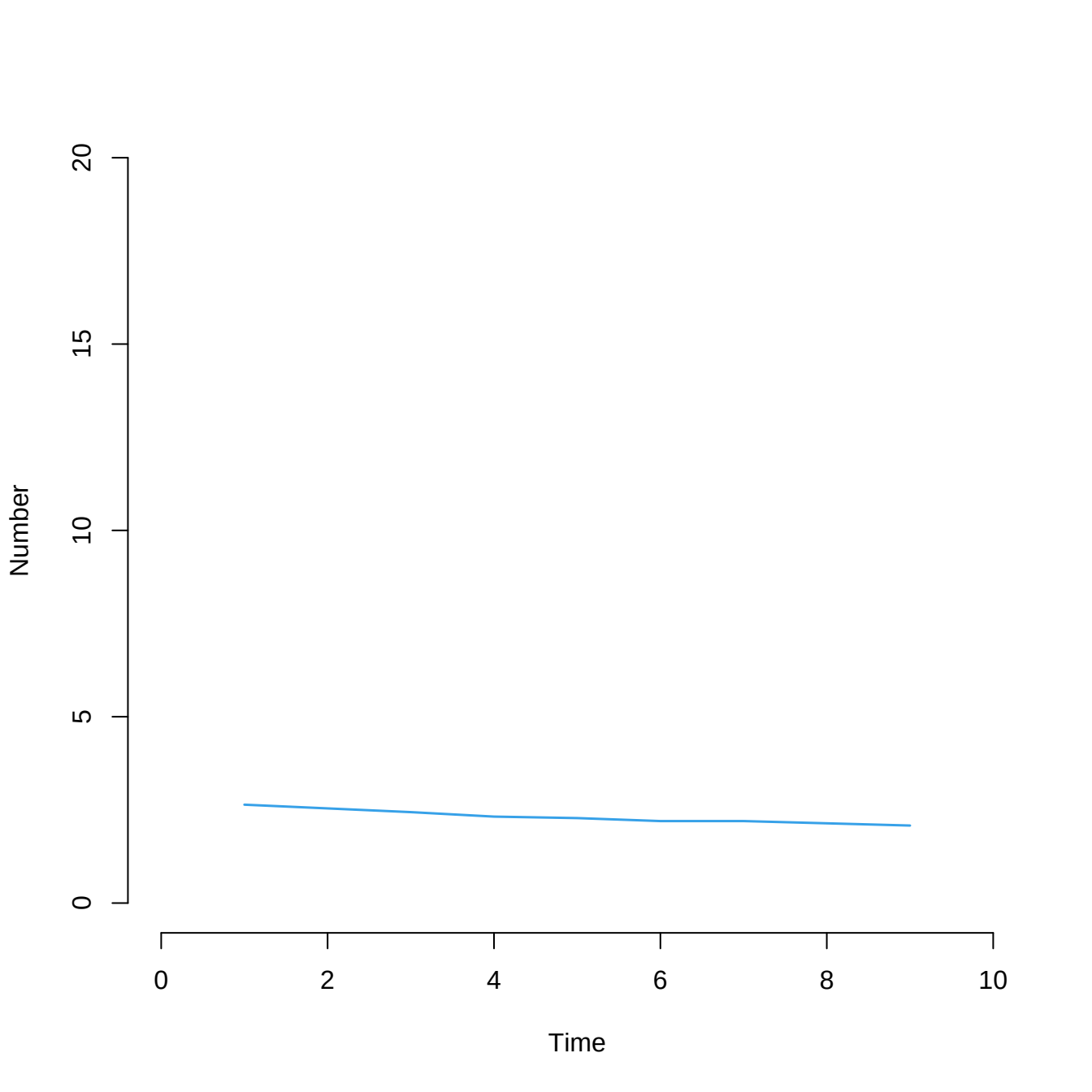
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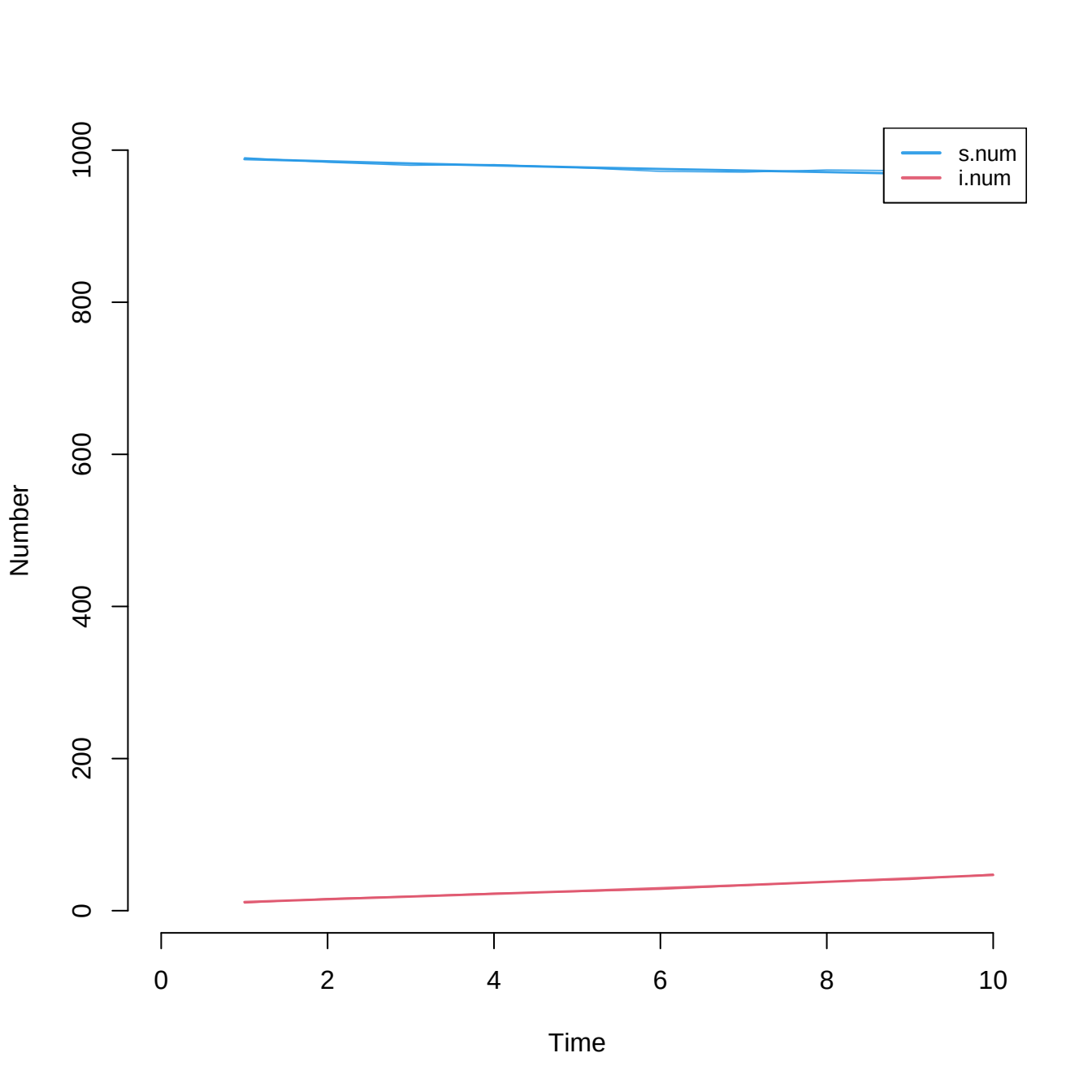
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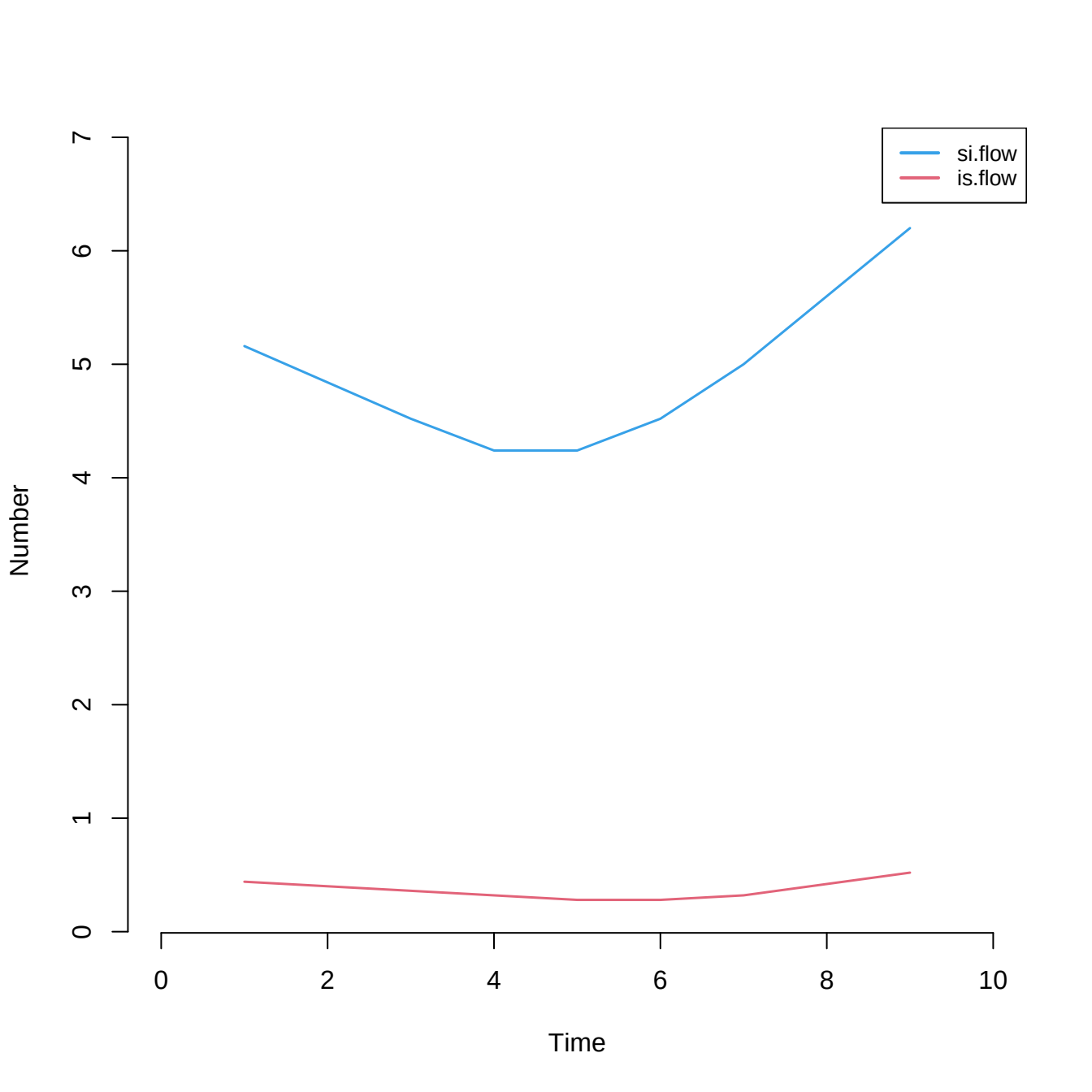
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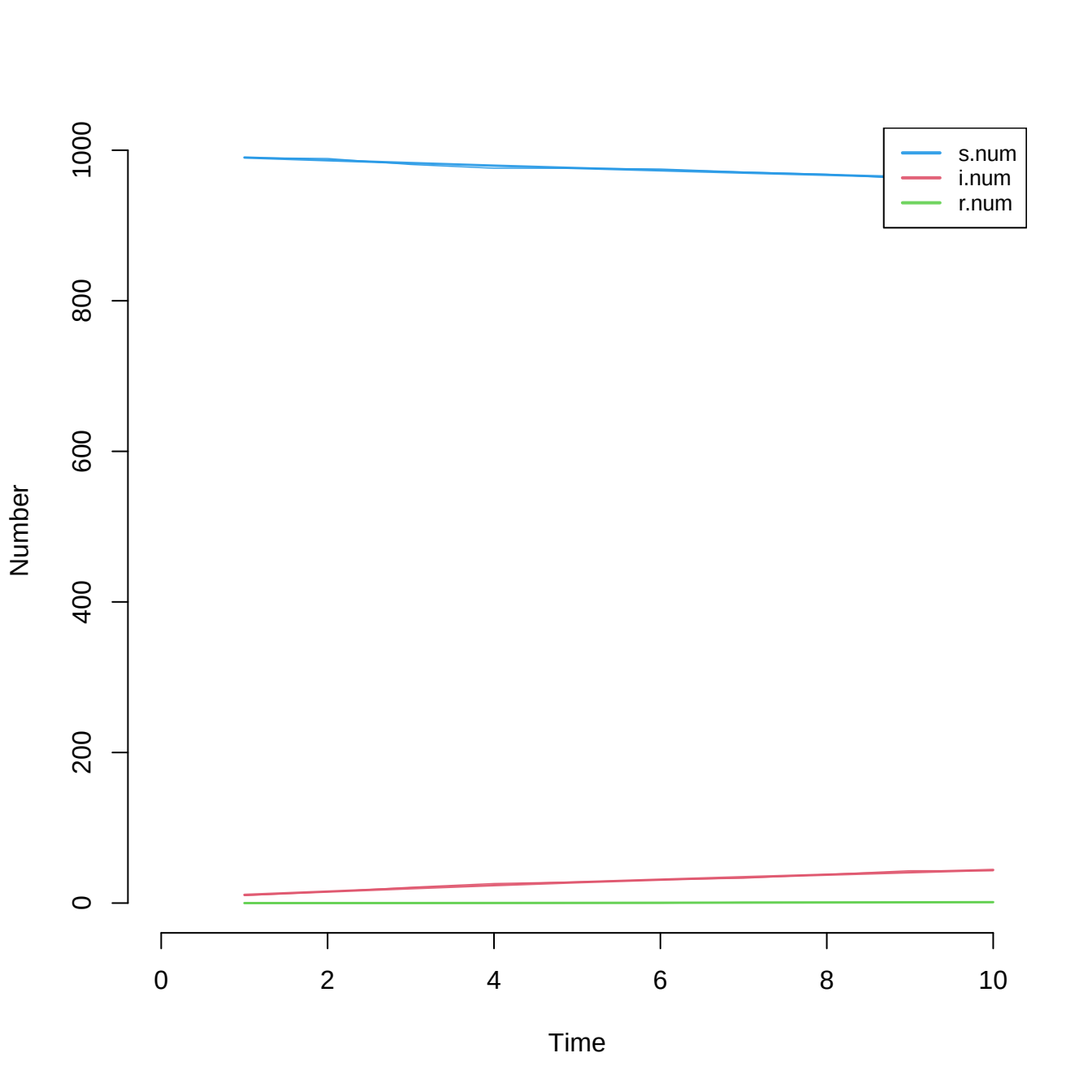
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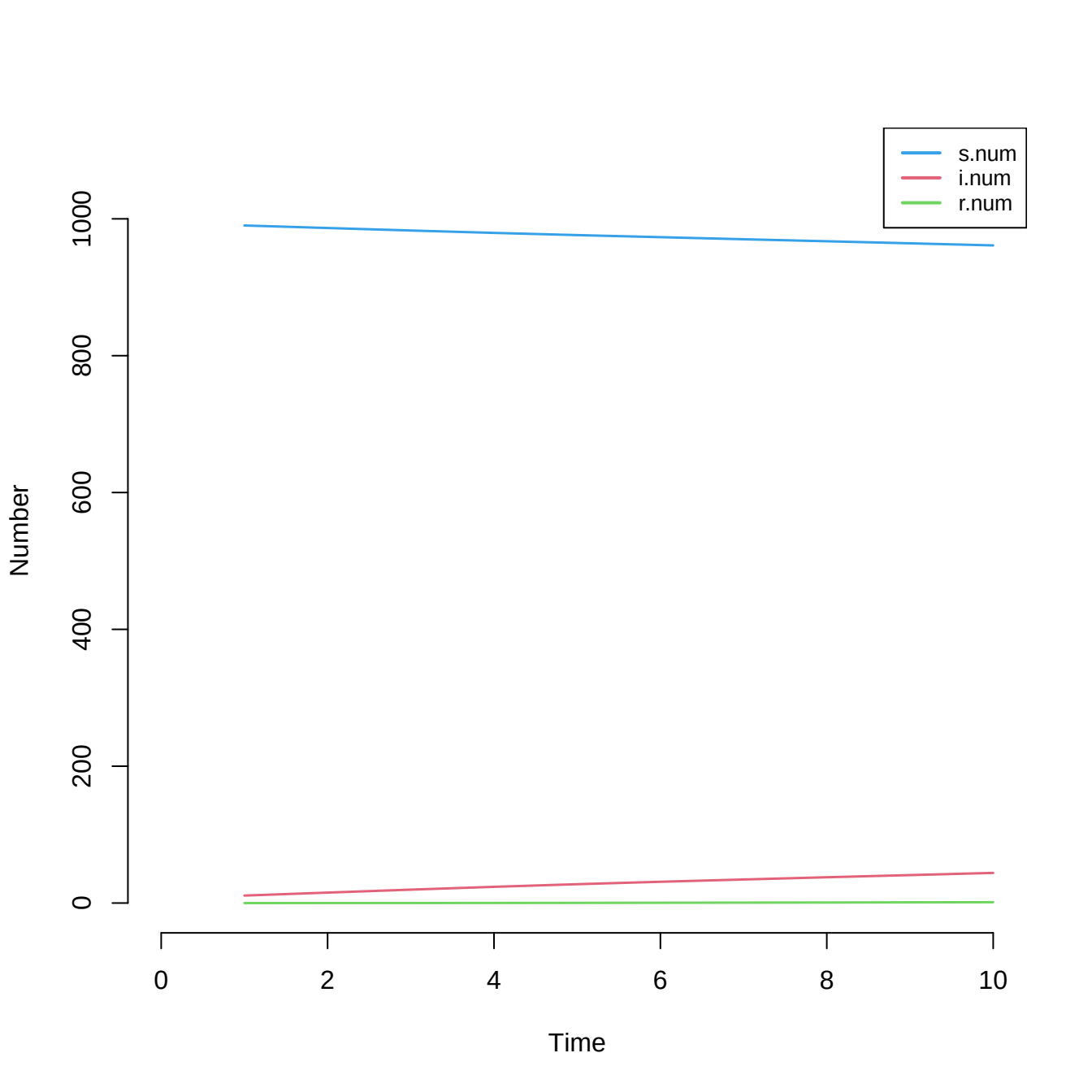
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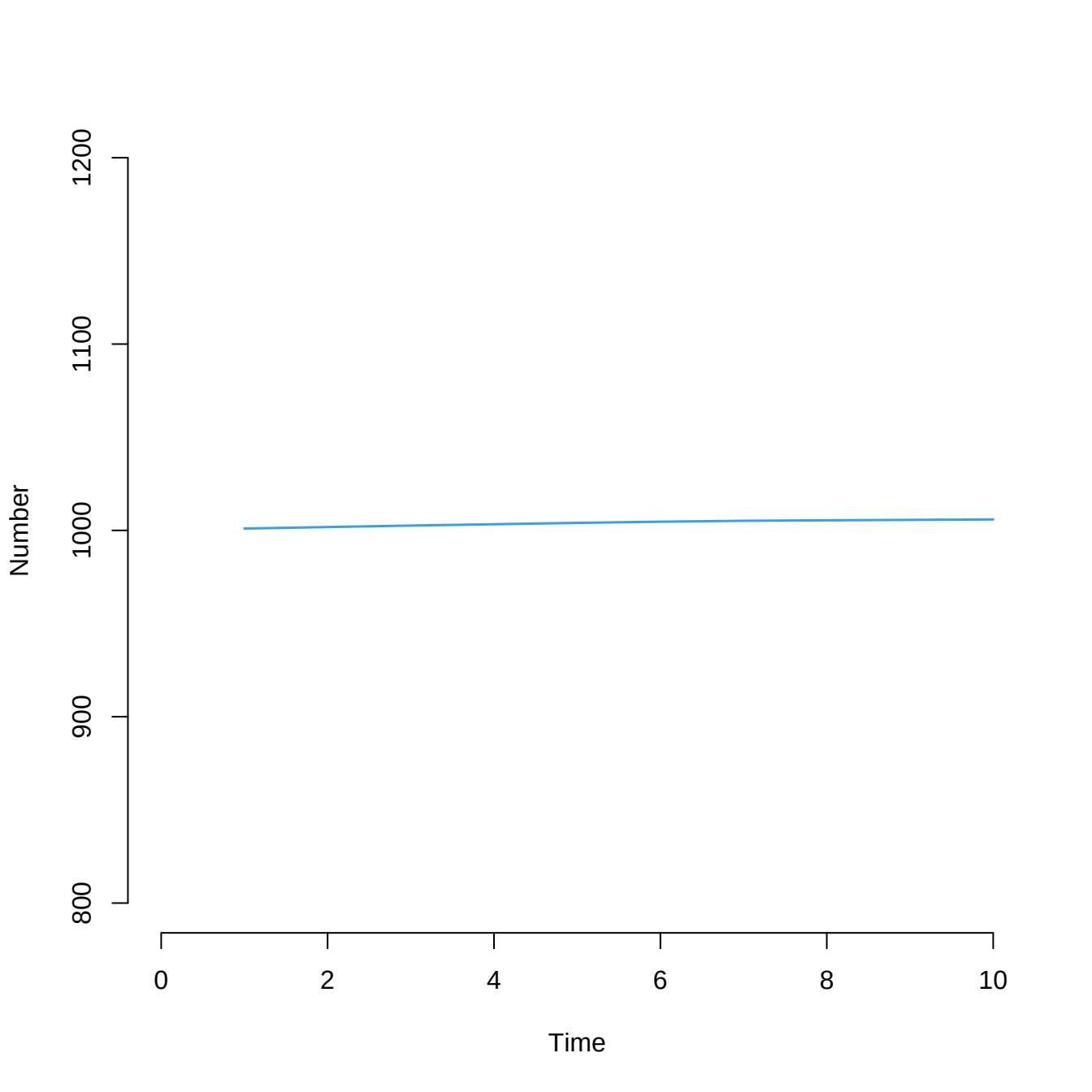
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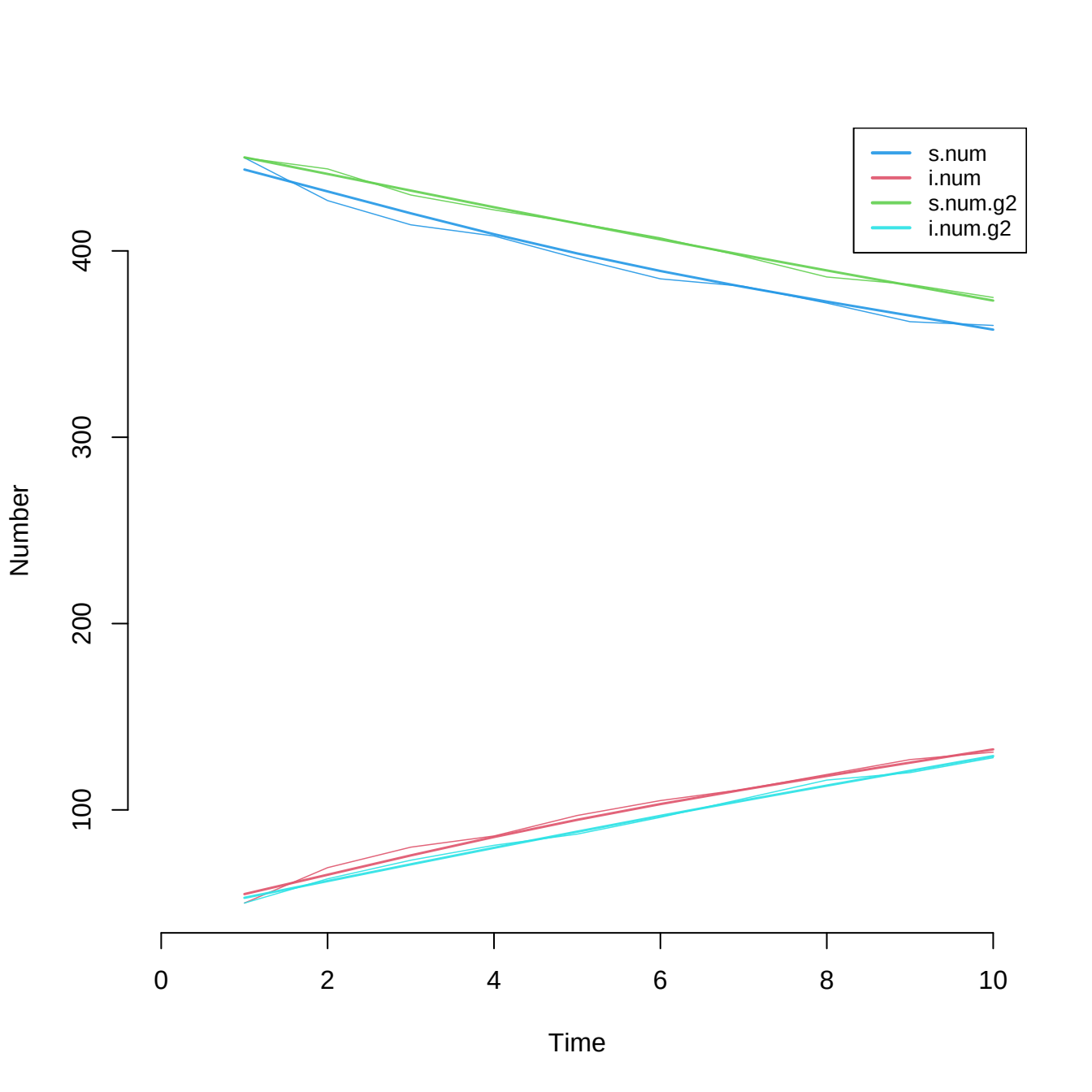
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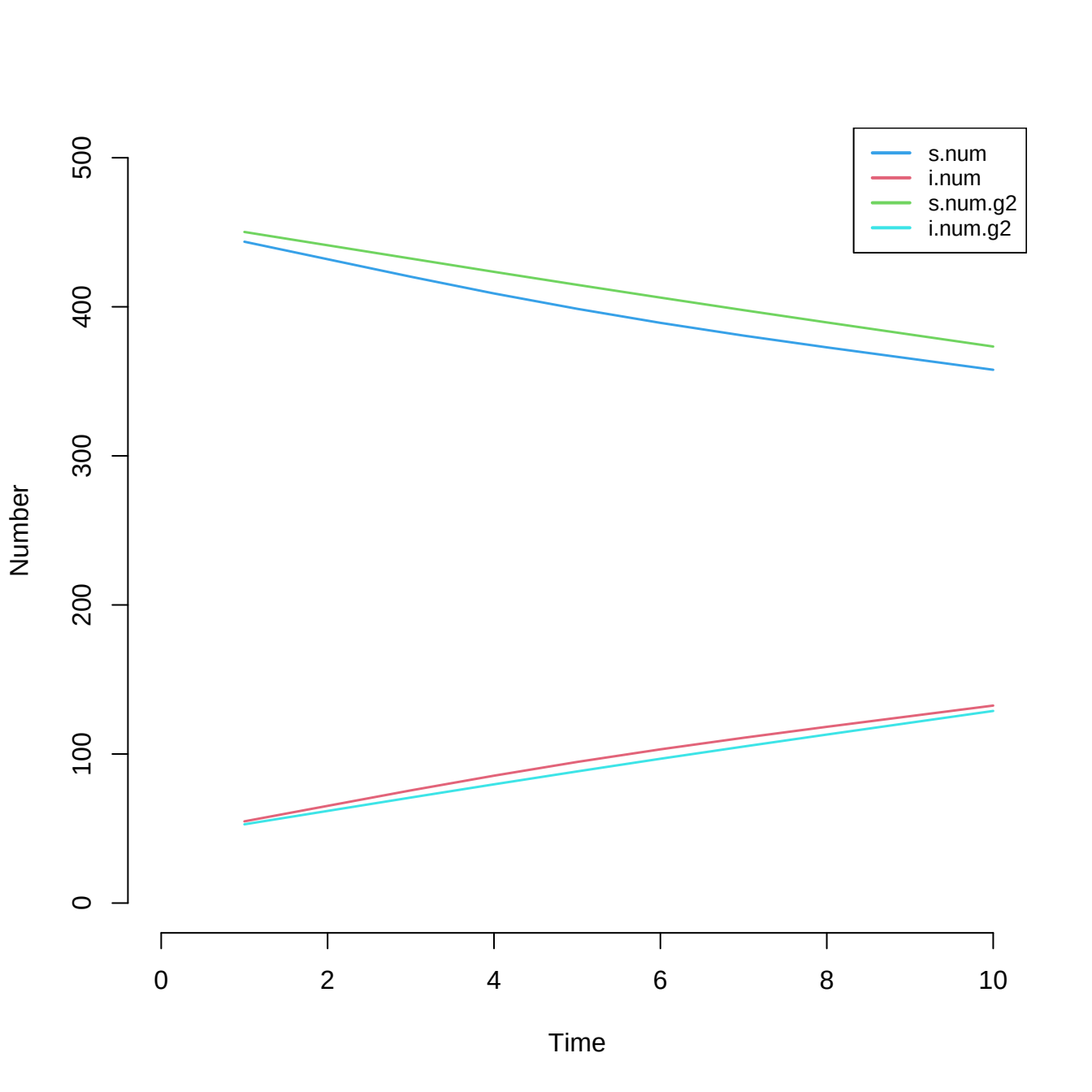
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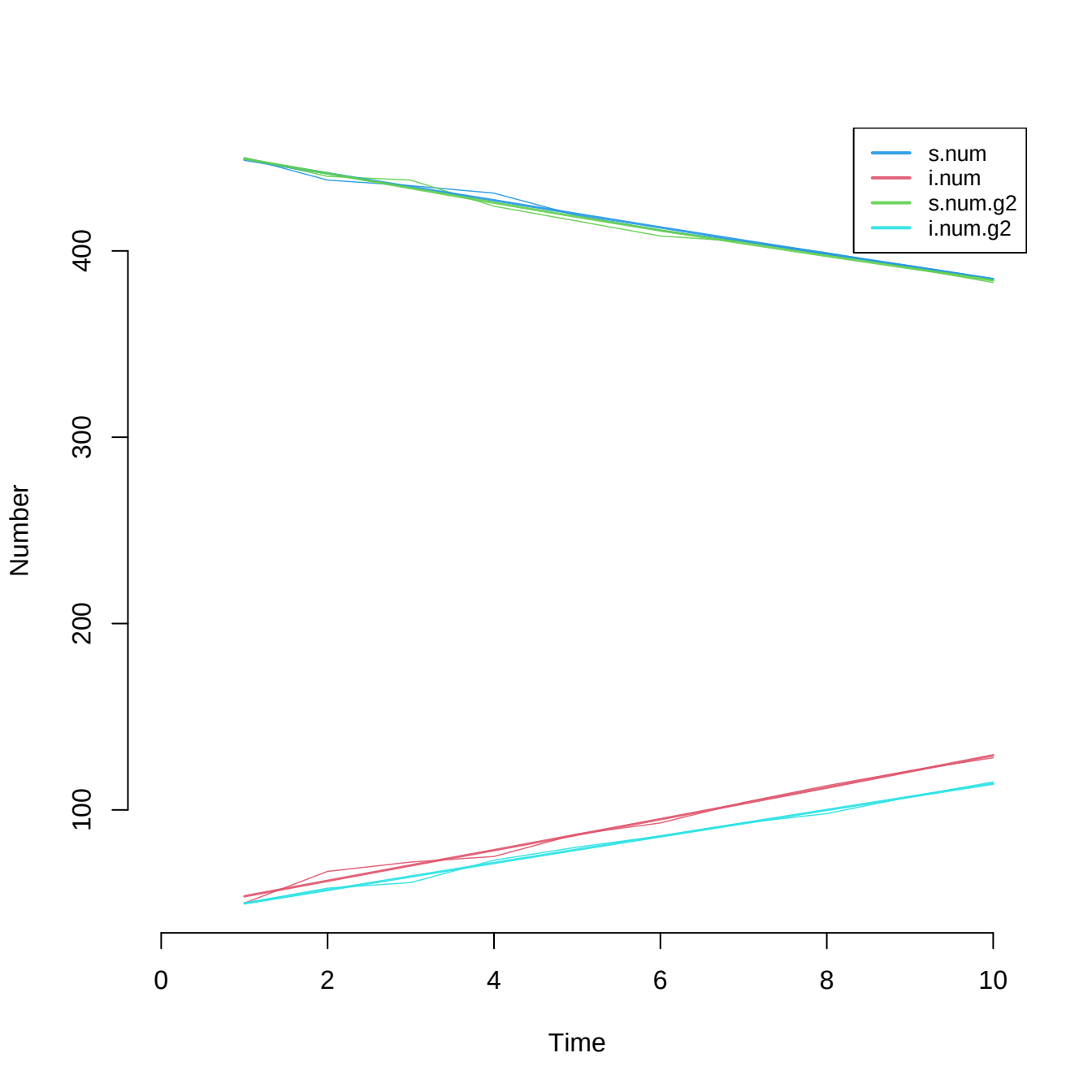
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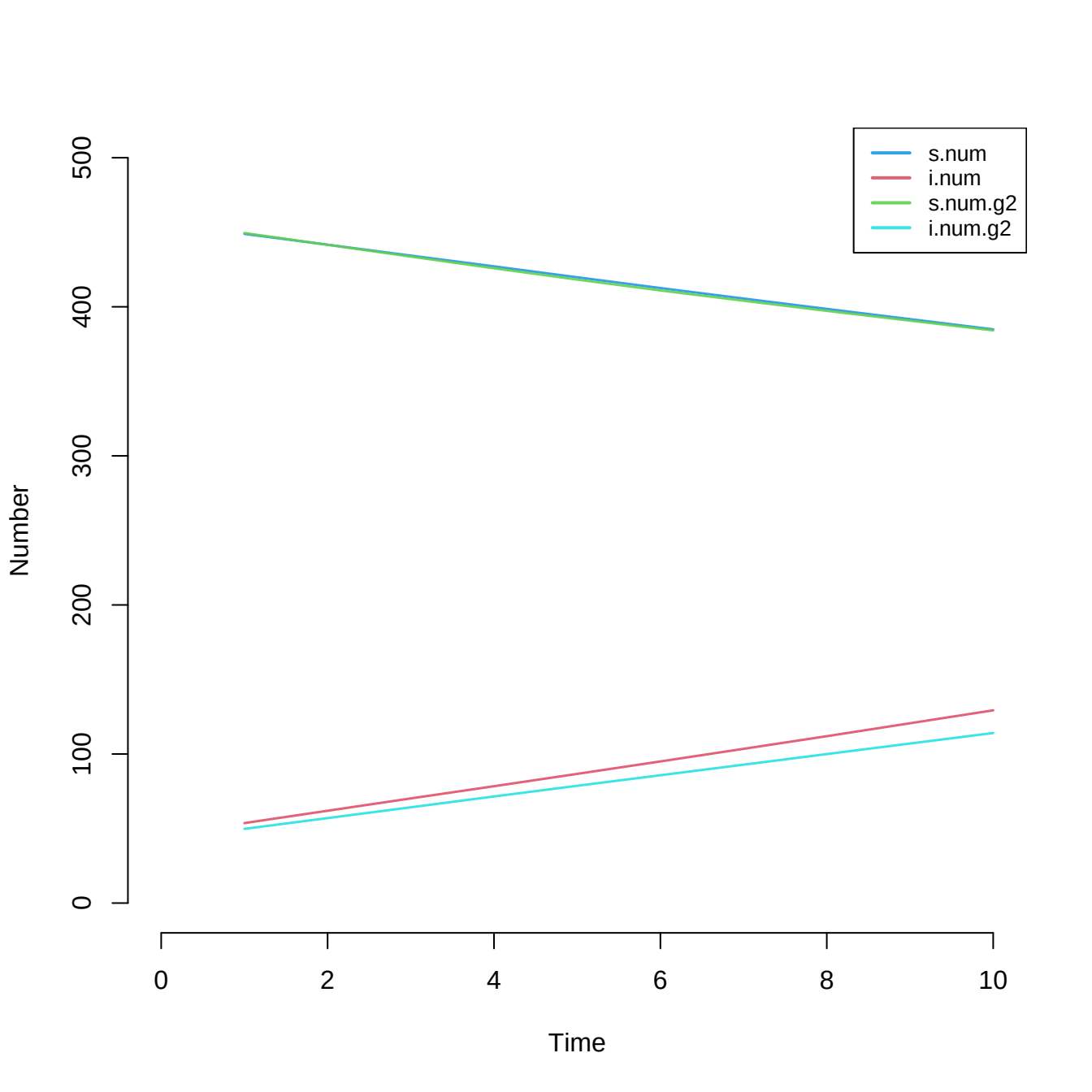
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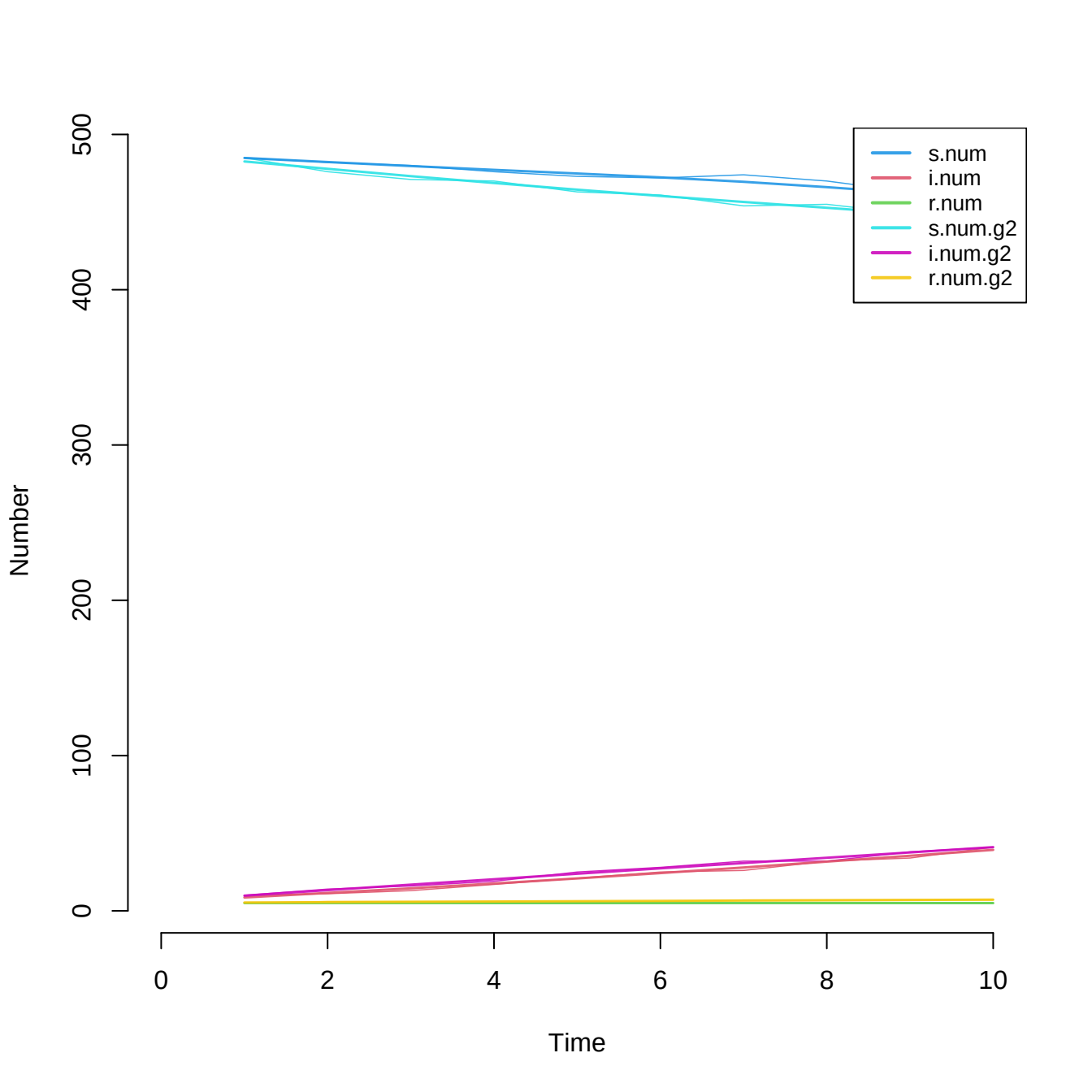
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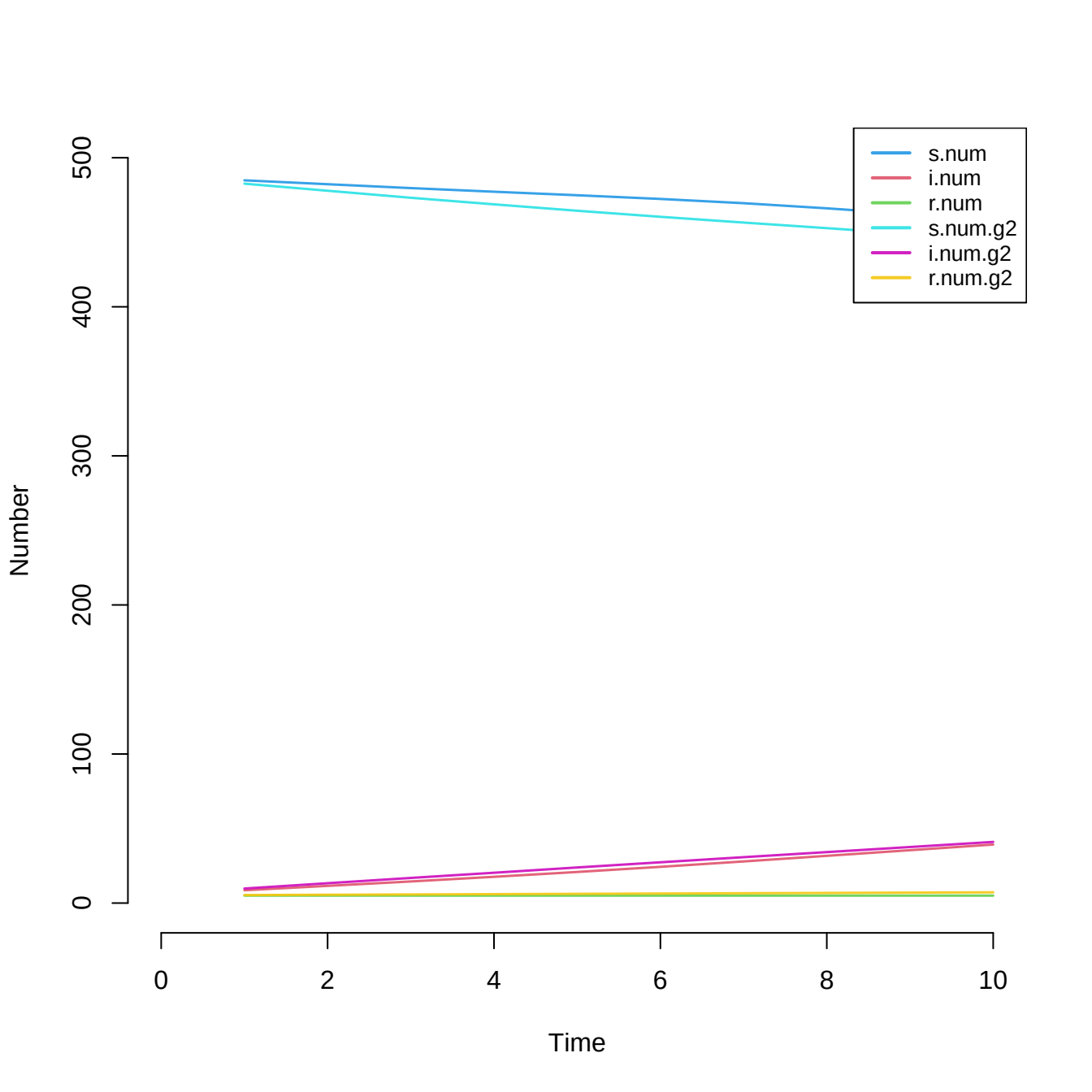
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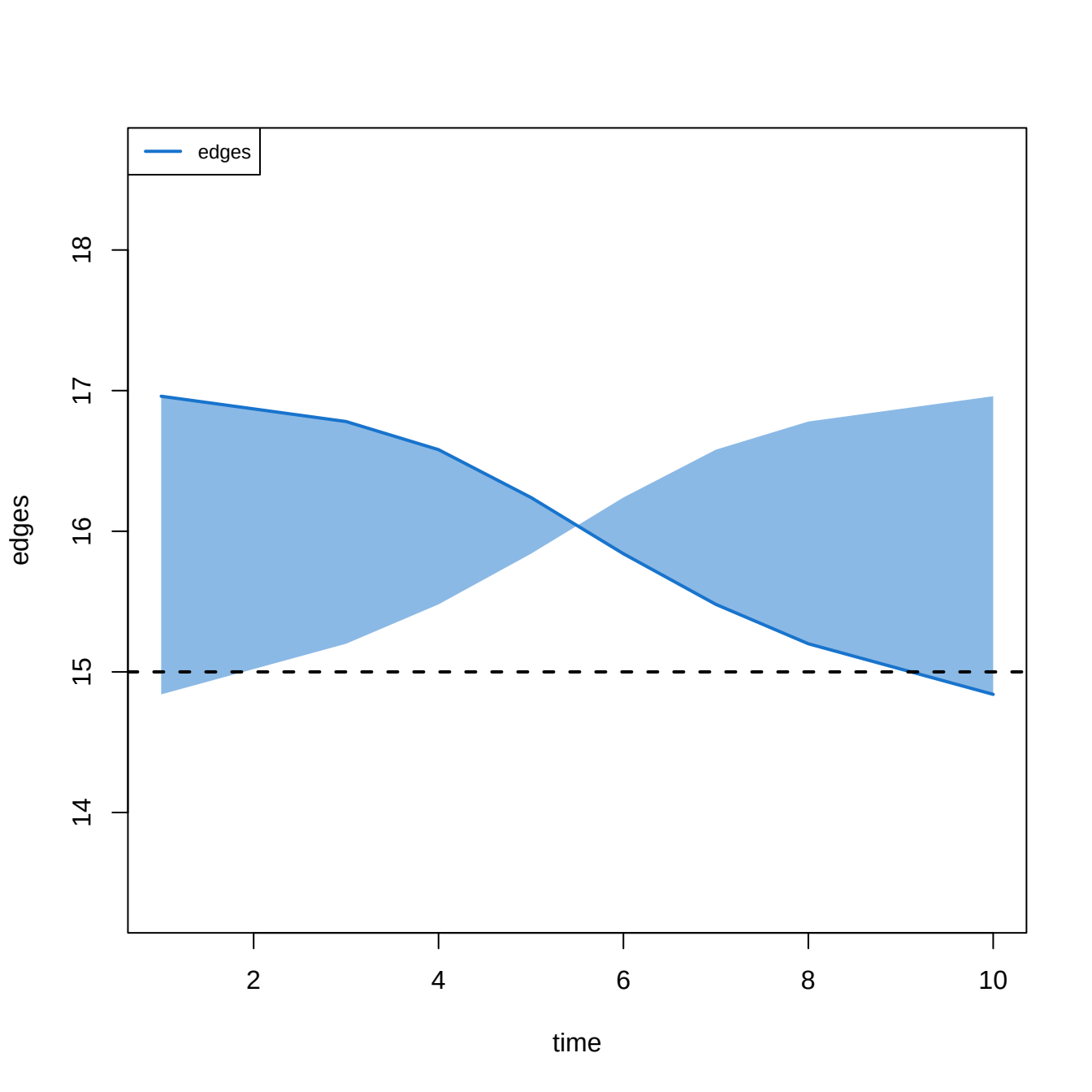
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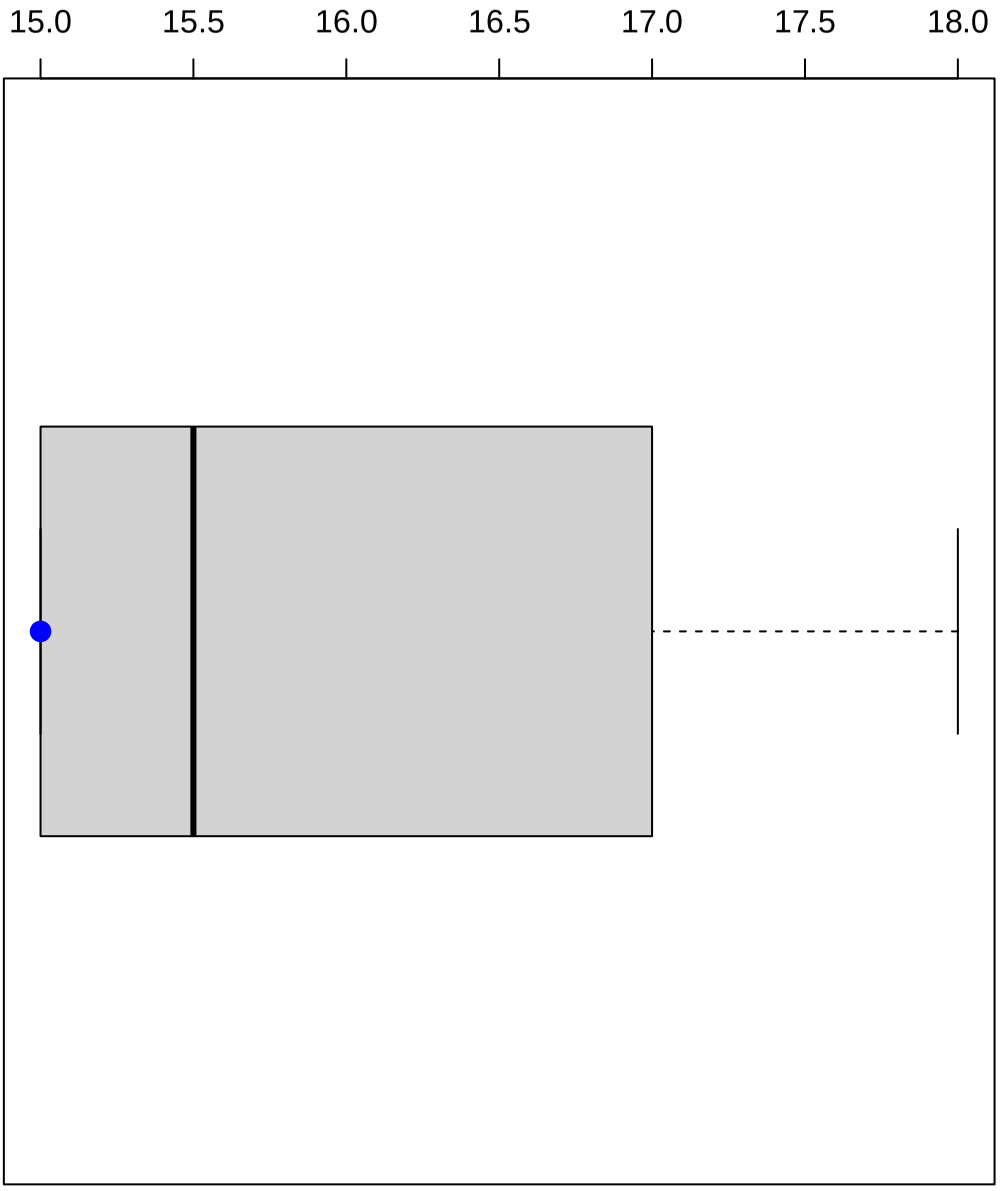
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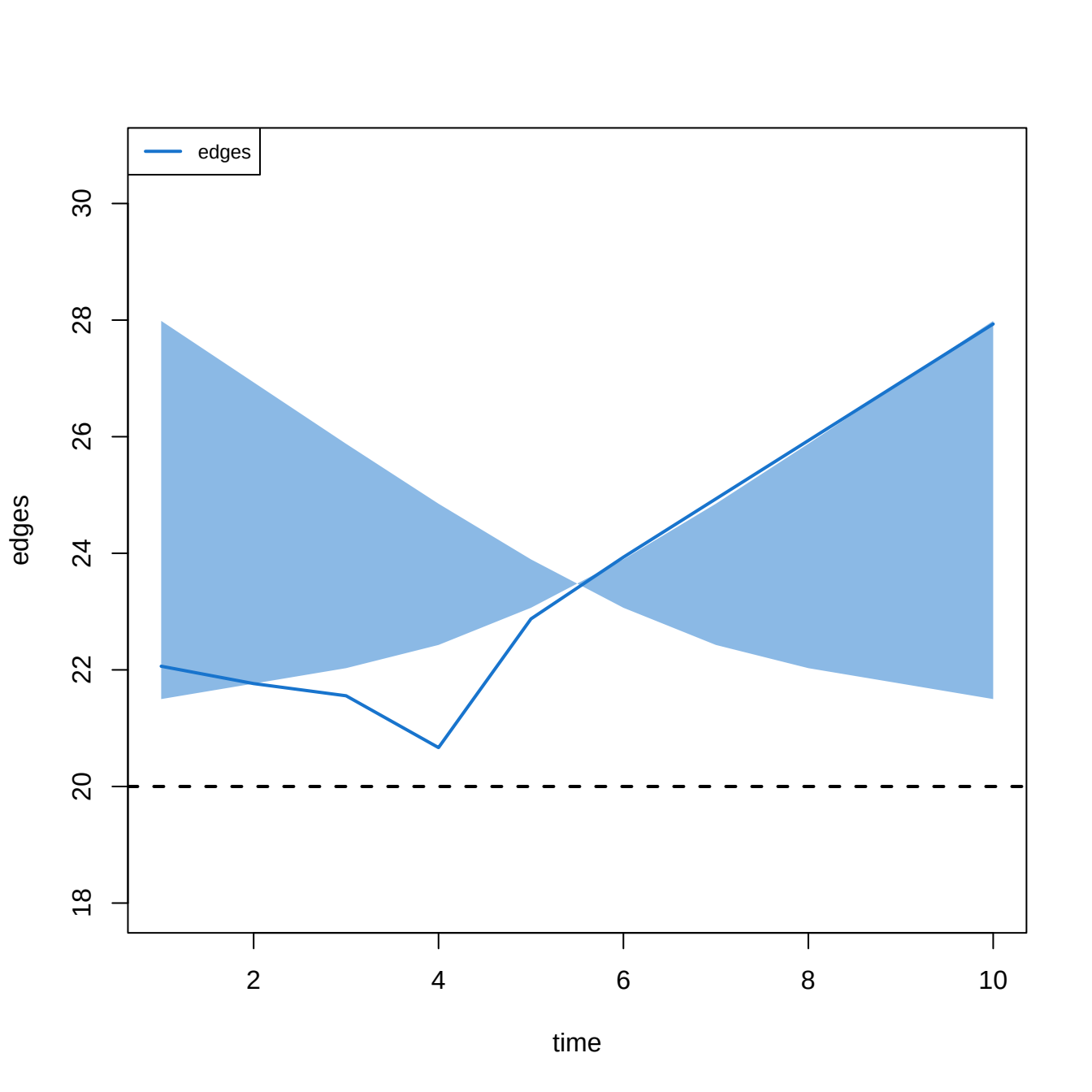
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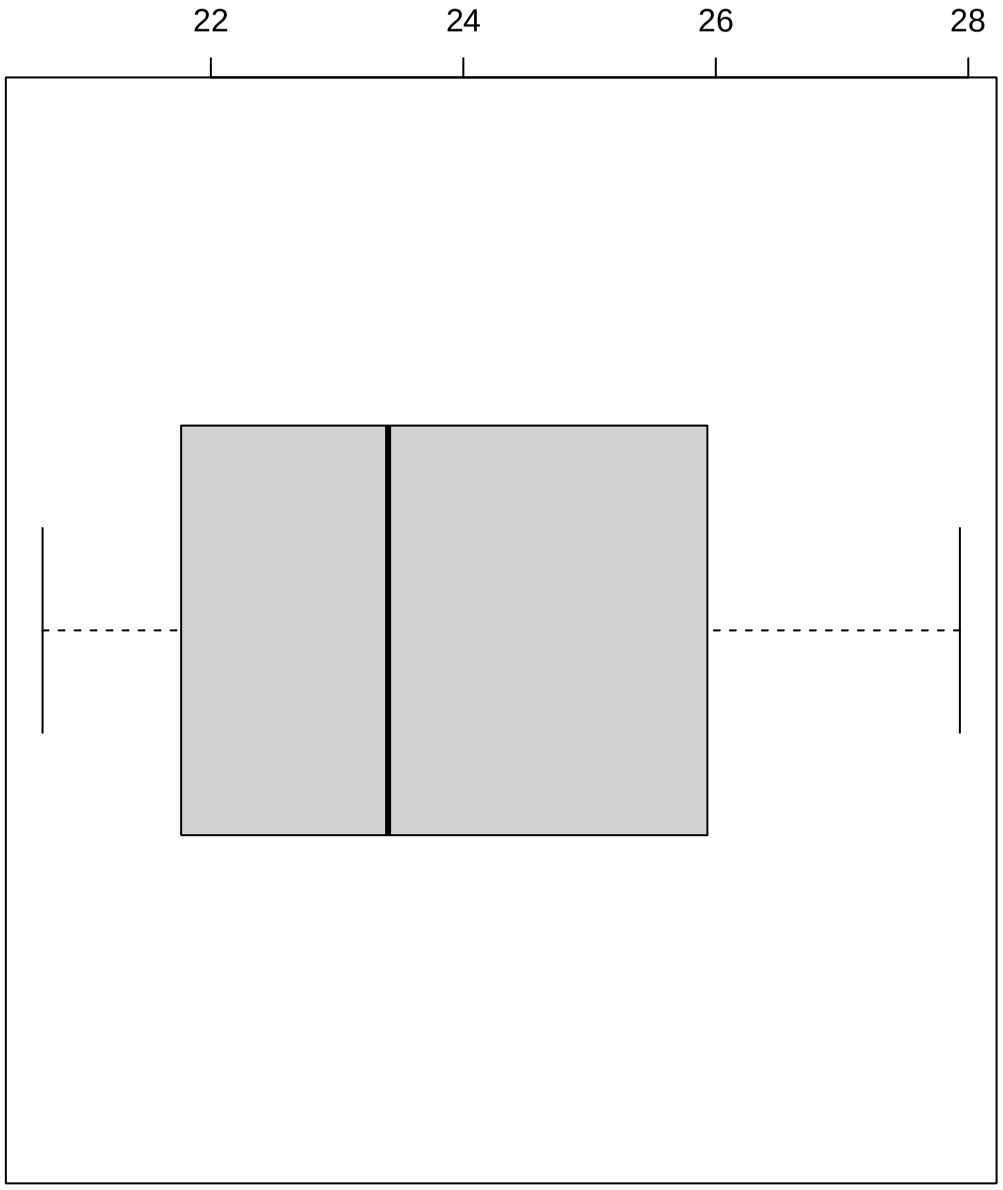
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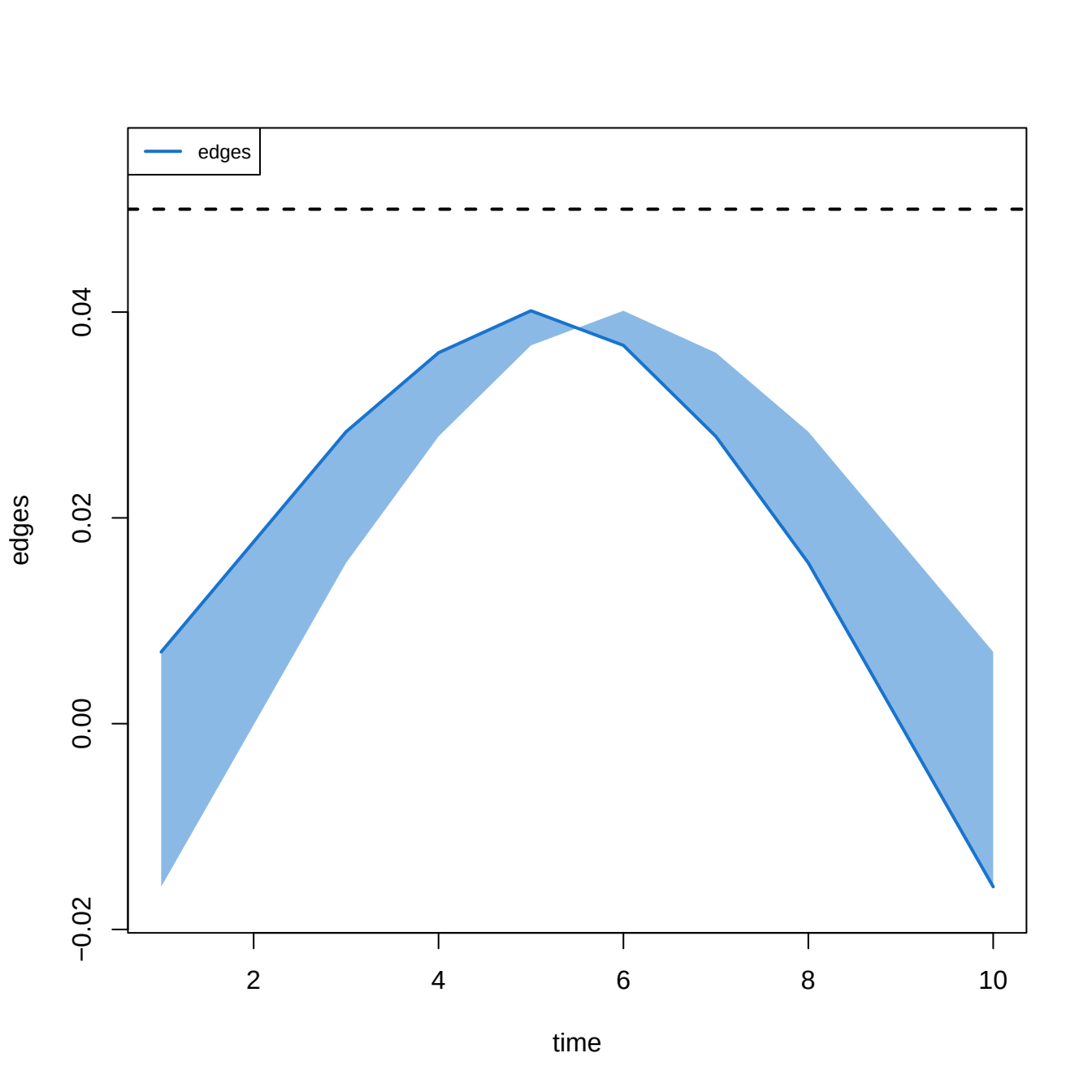
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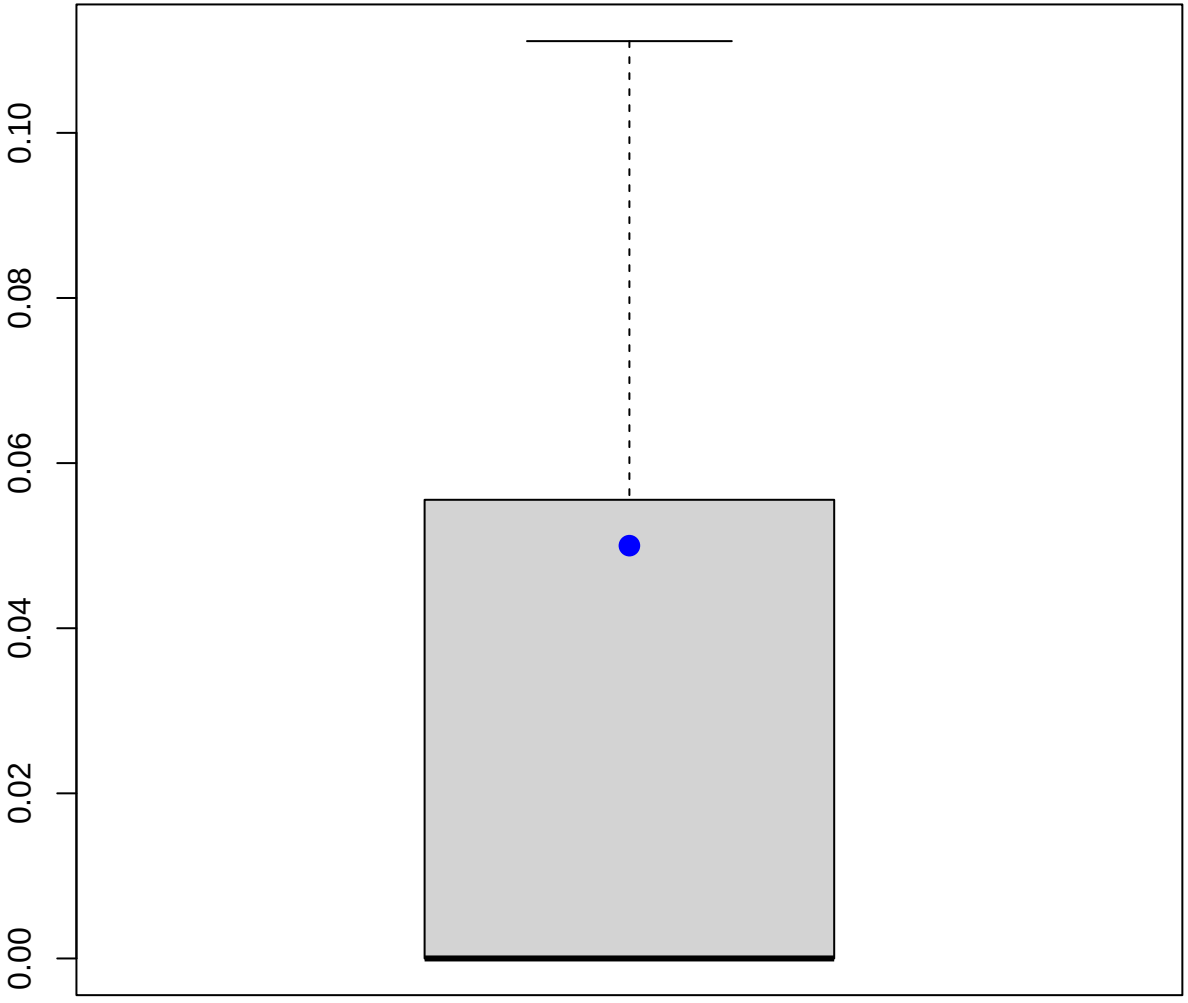
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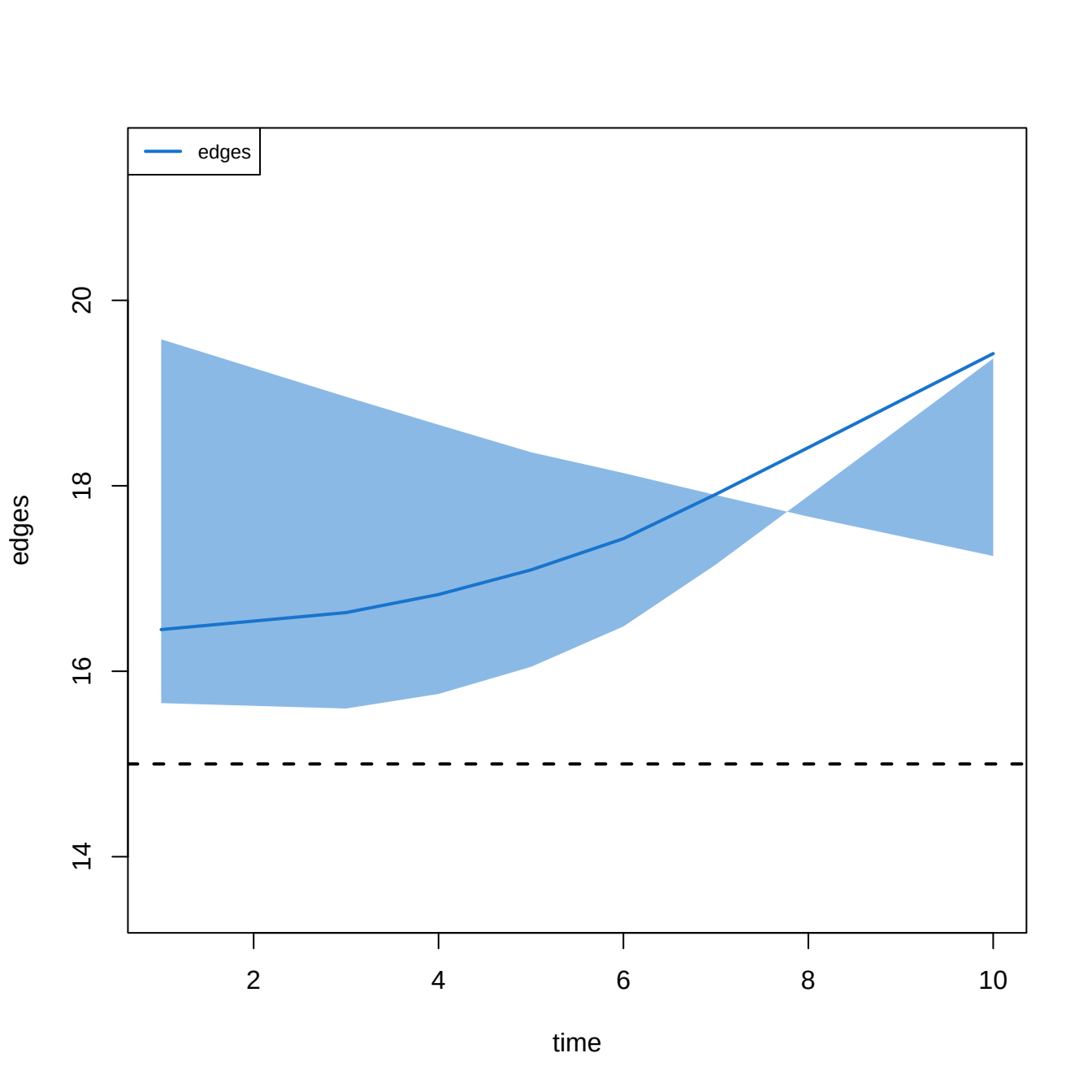
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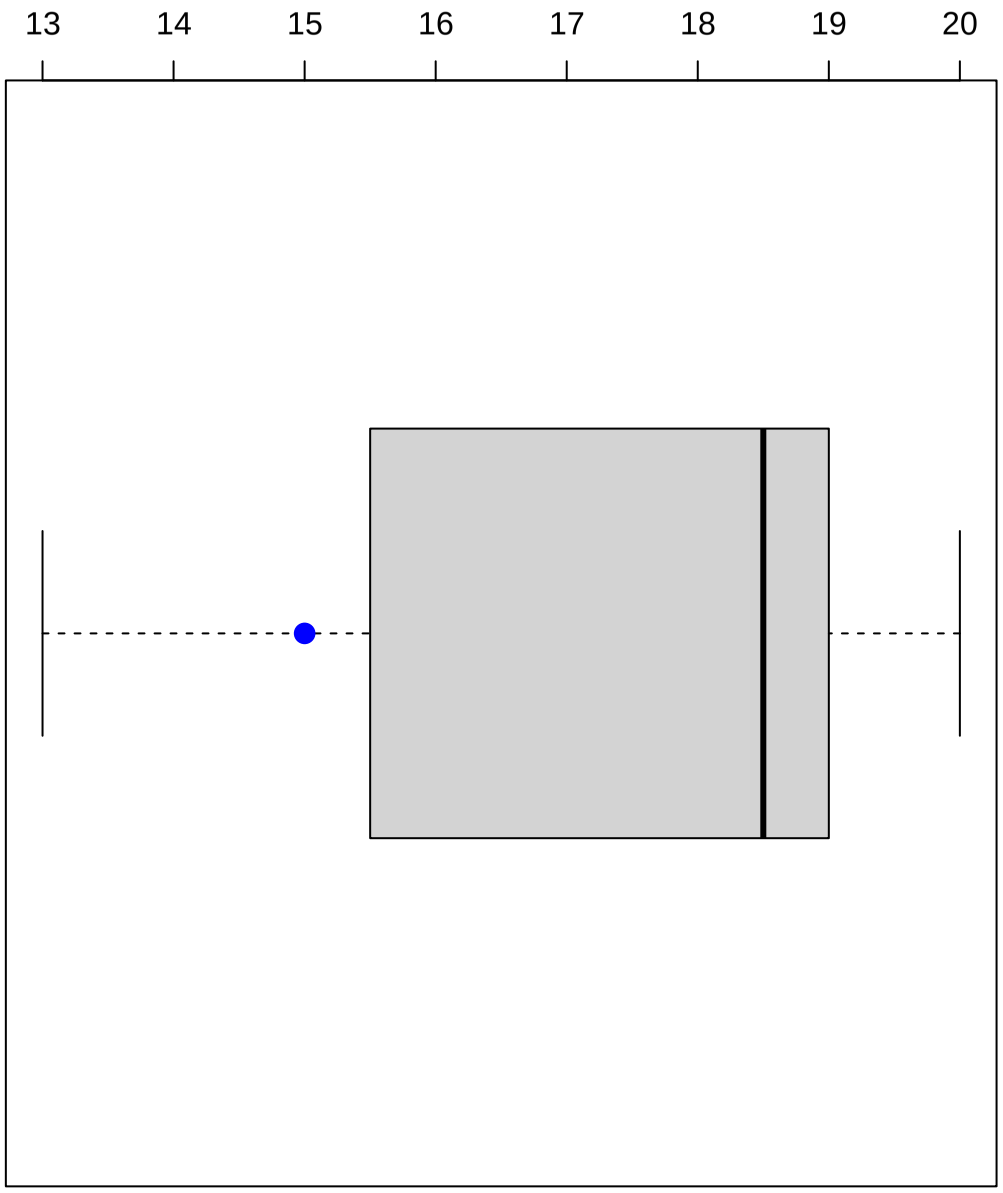
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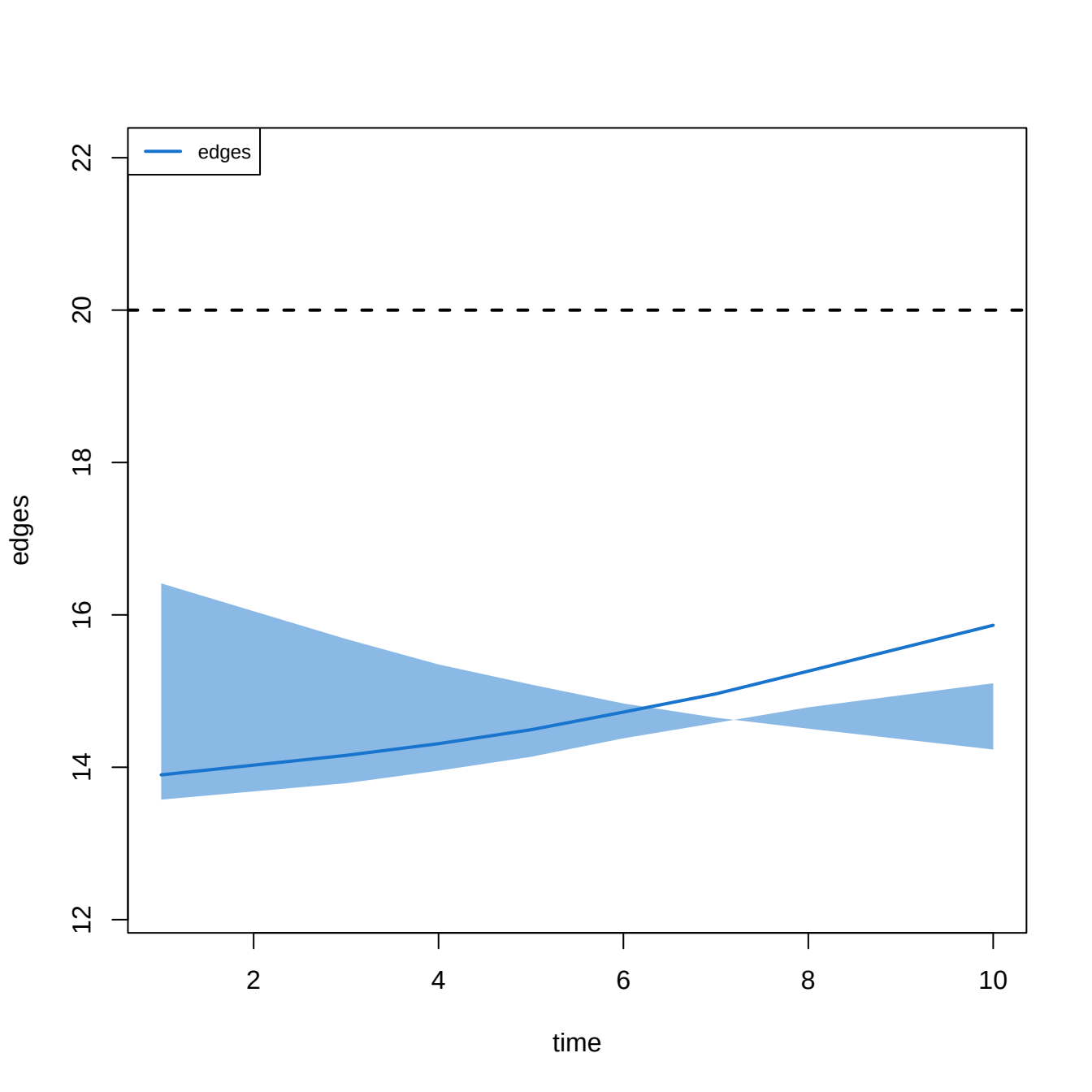
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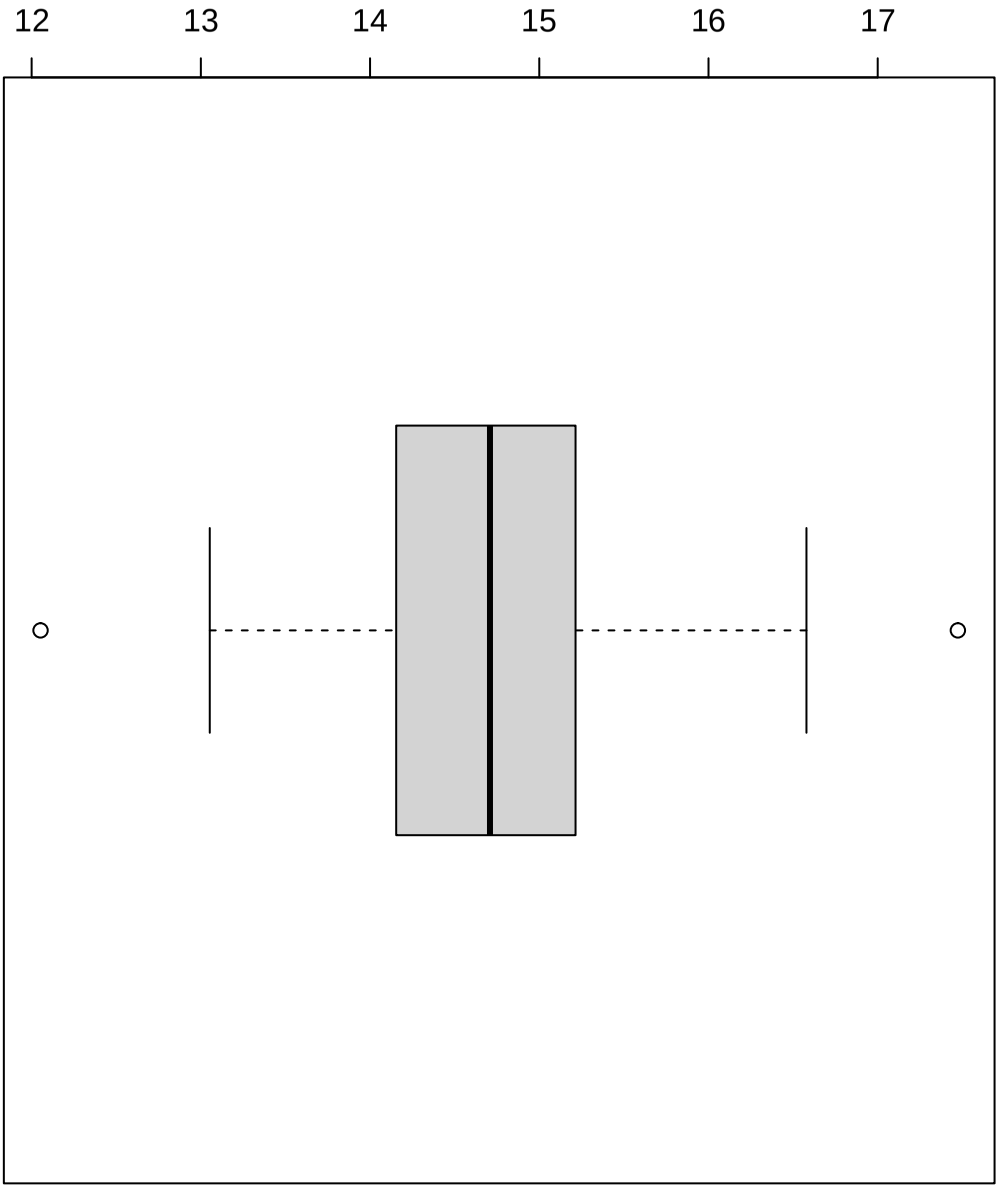
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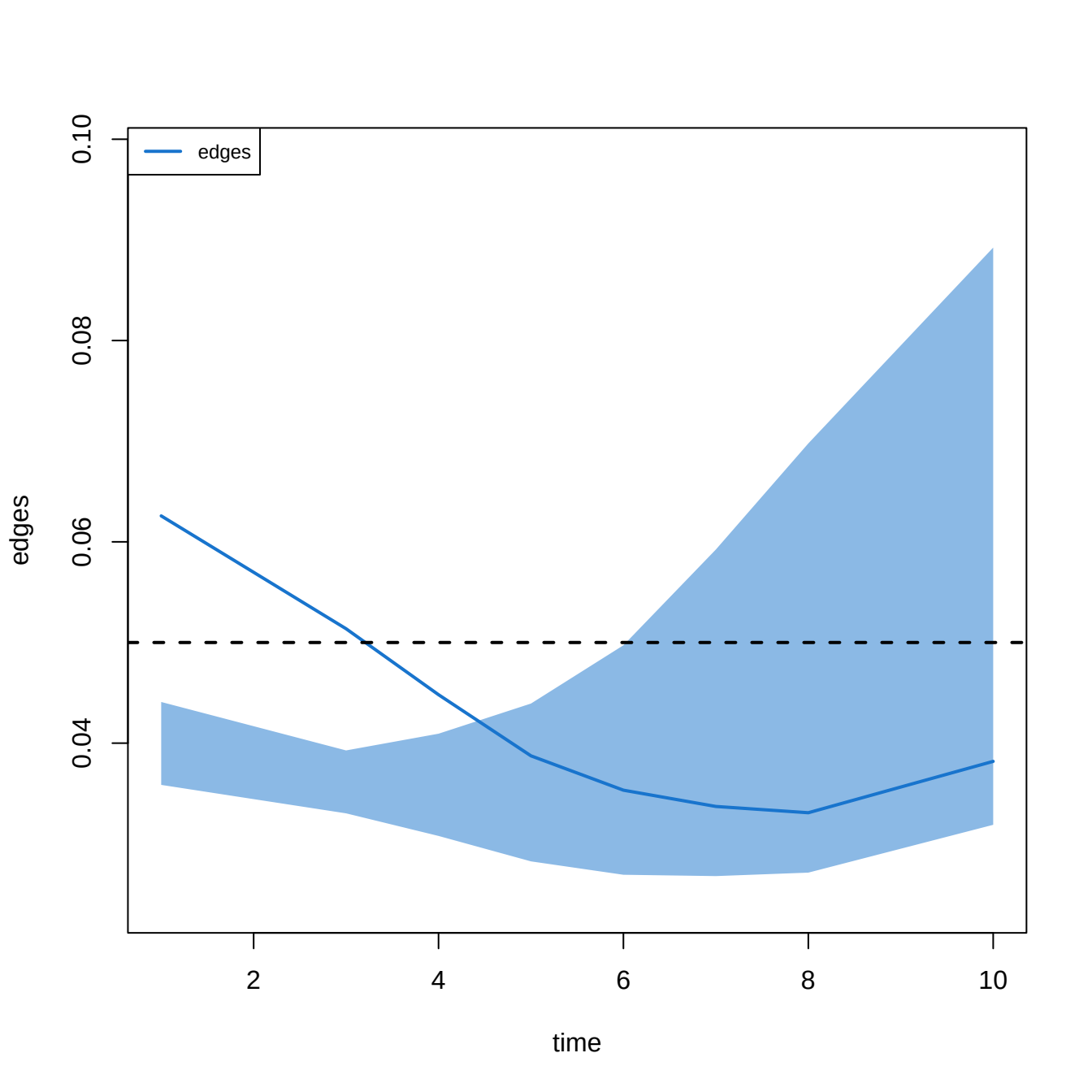
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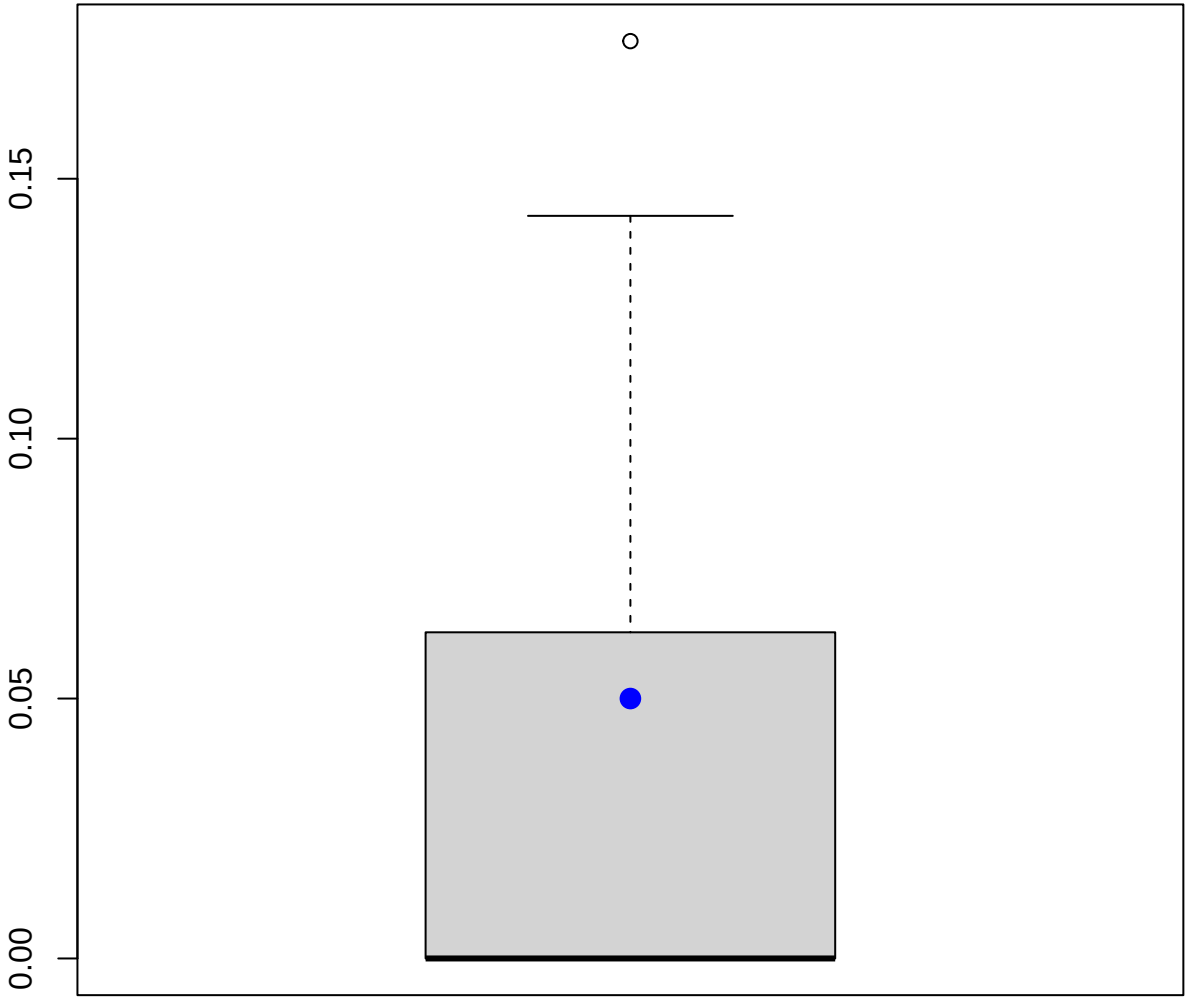
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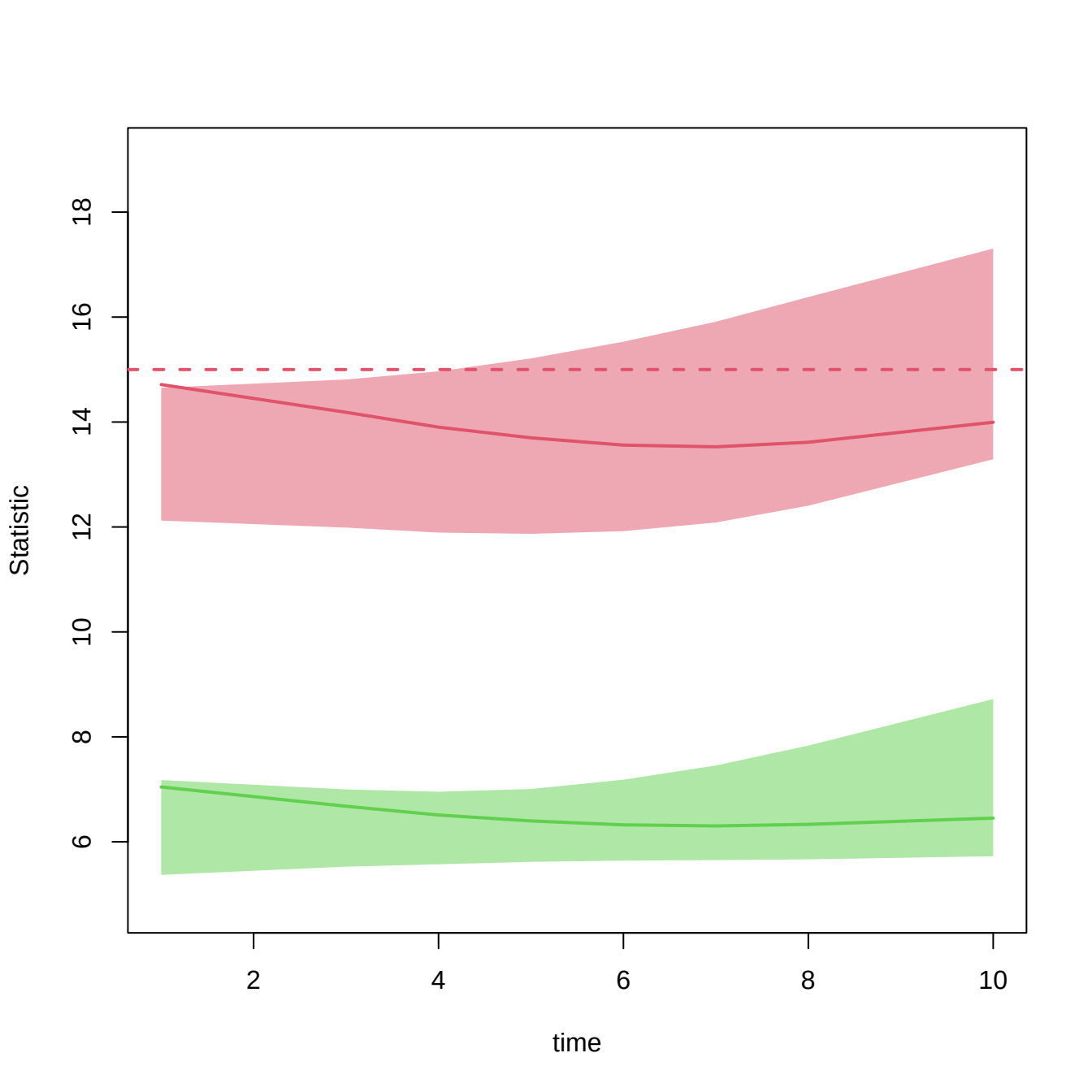
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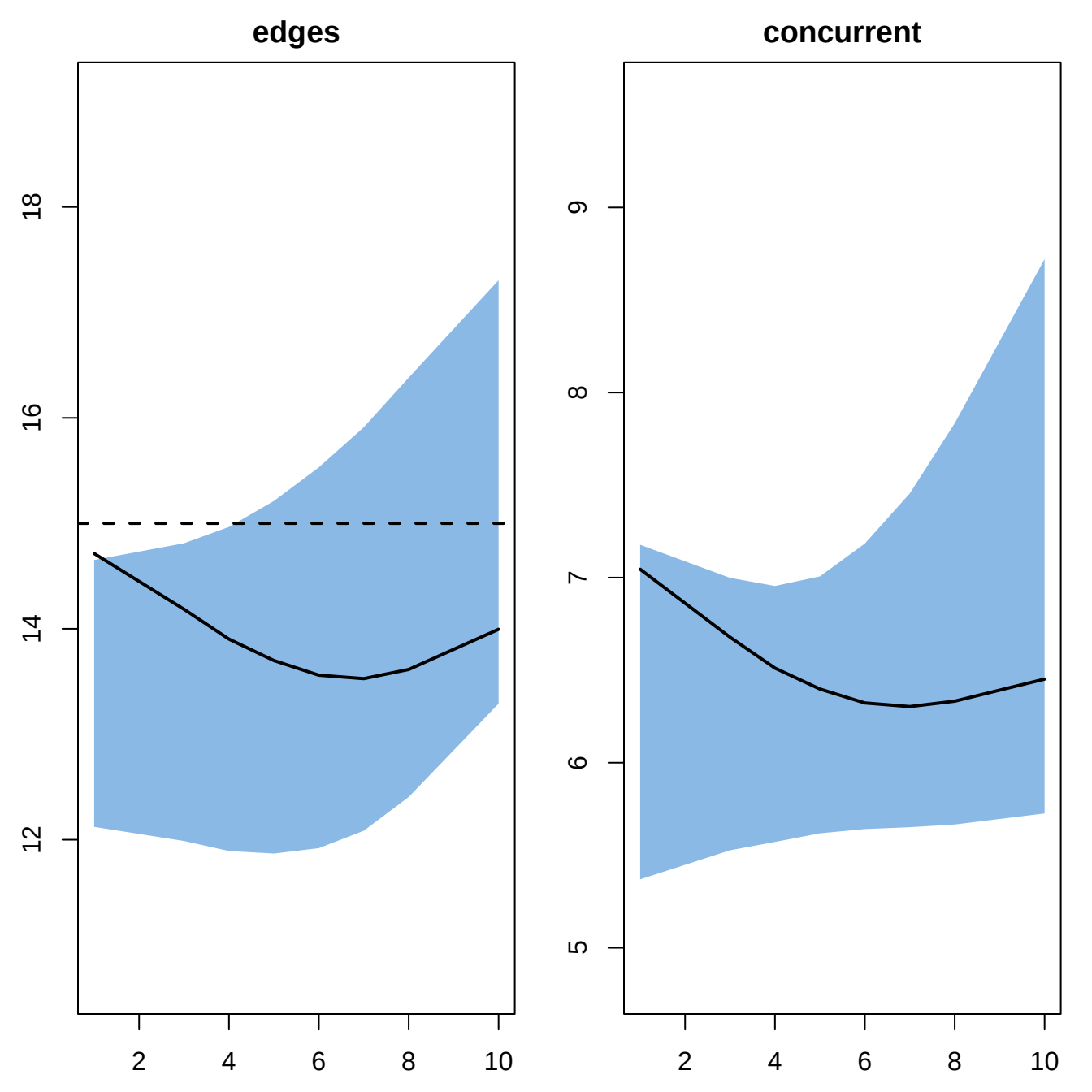
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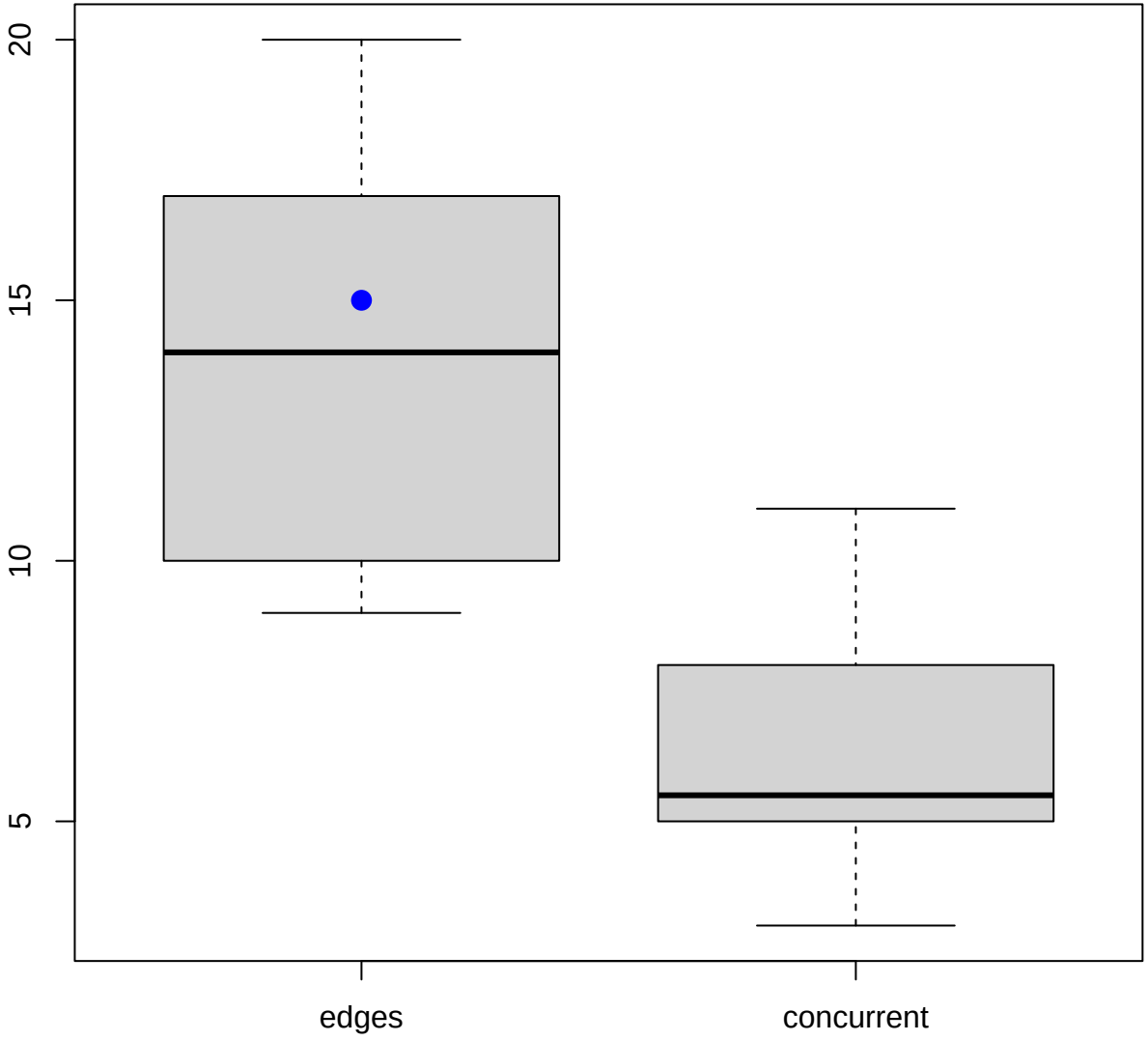
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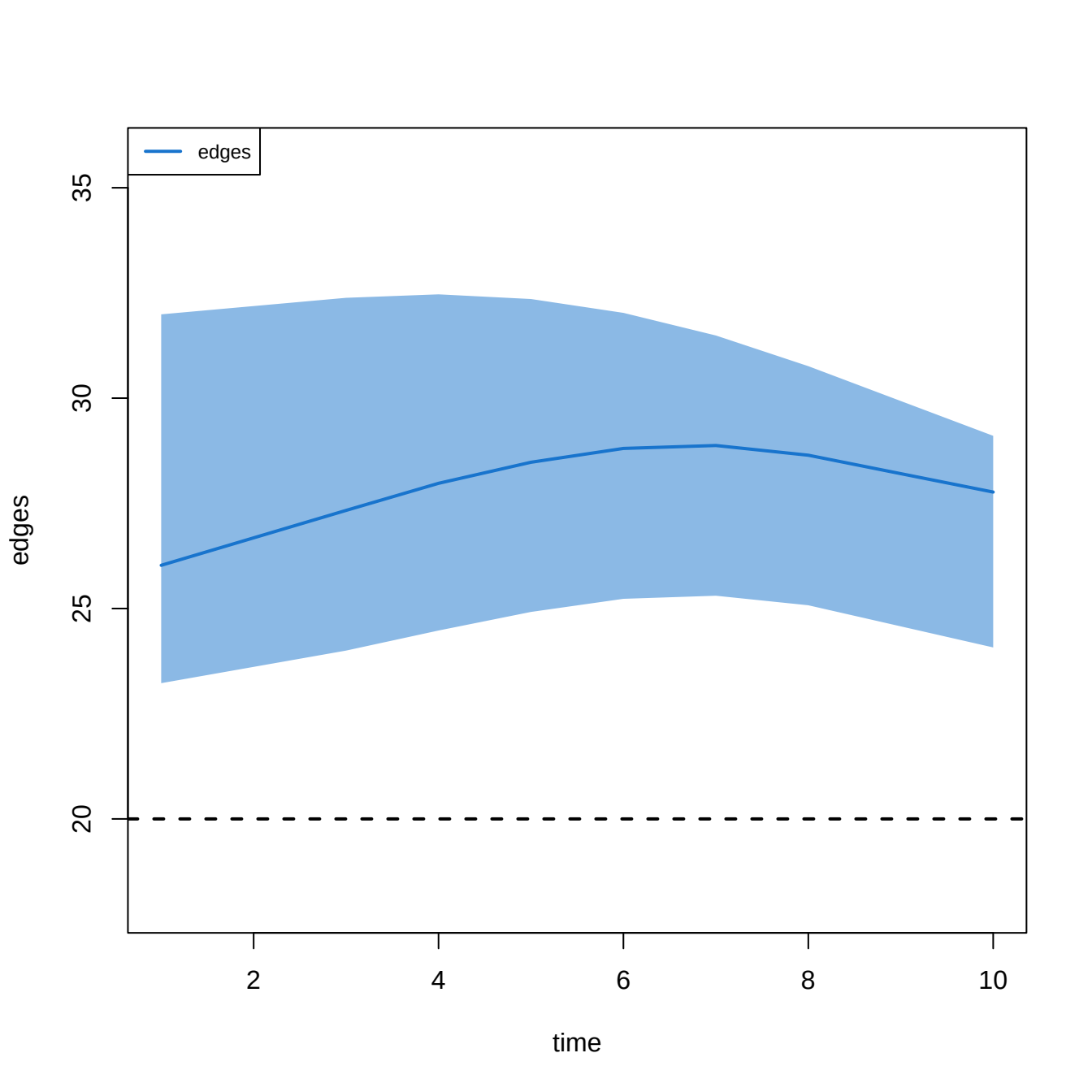
5
edges
concurrent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35
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25
20
edges
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6
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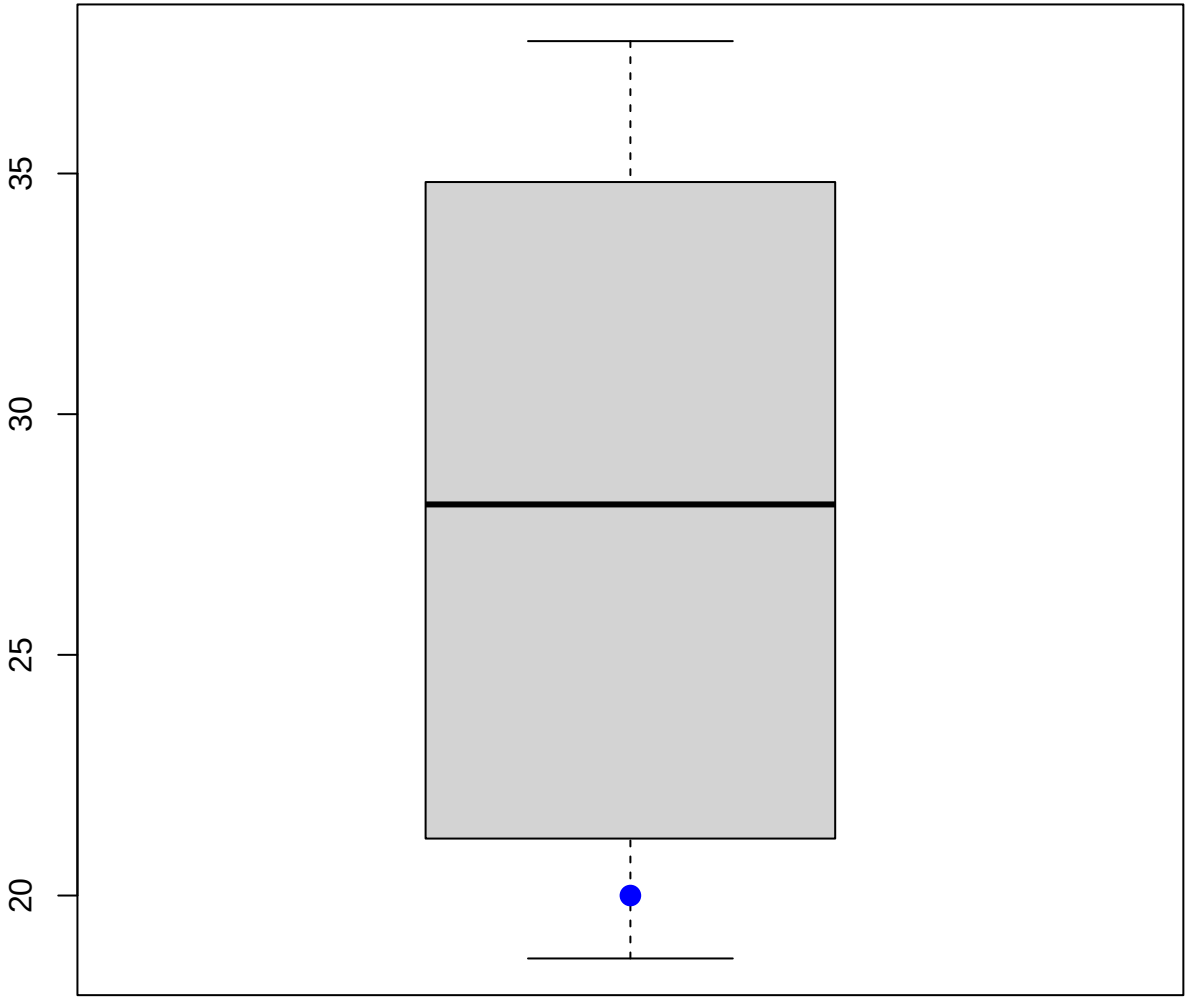
10
time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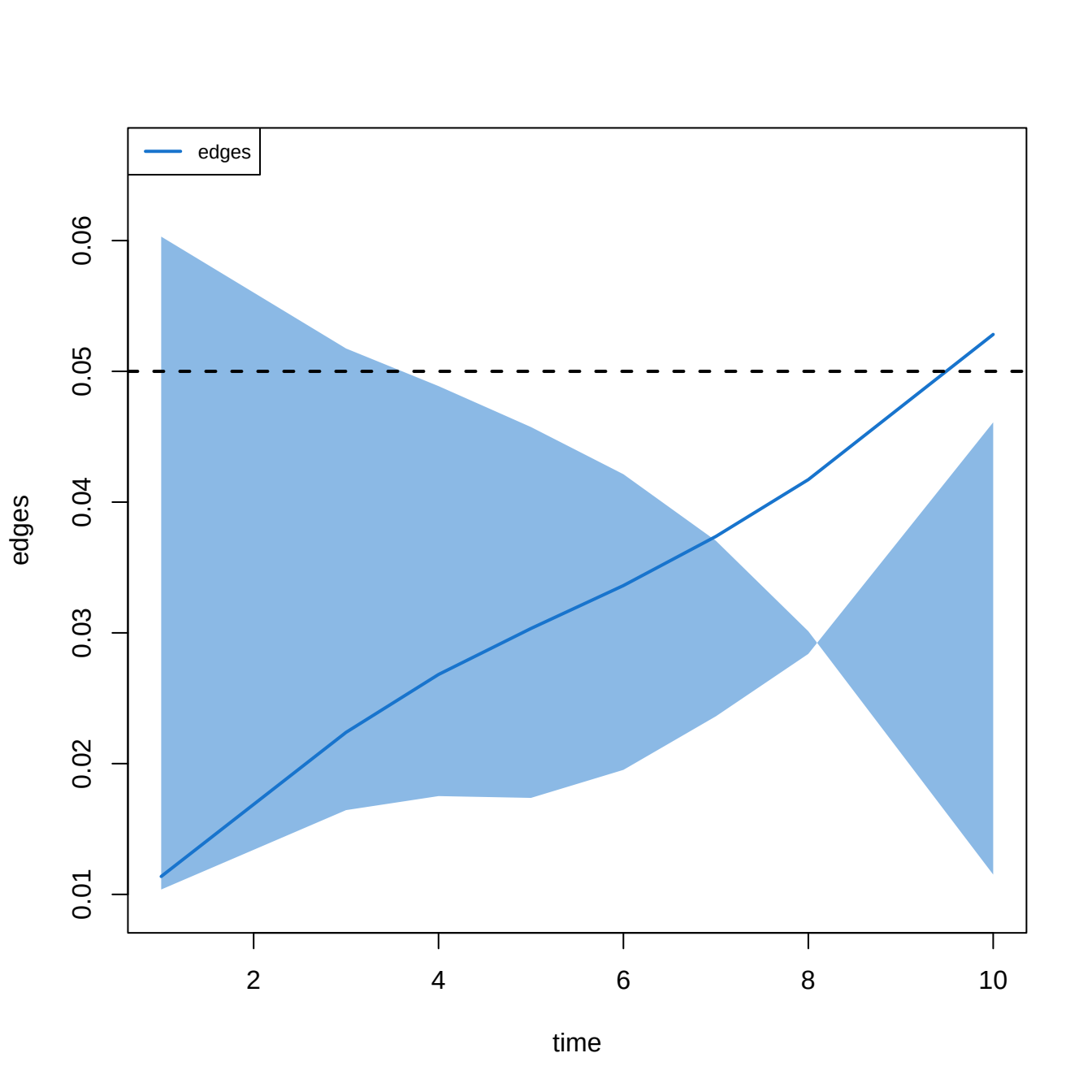
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0.06
edges
2
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6
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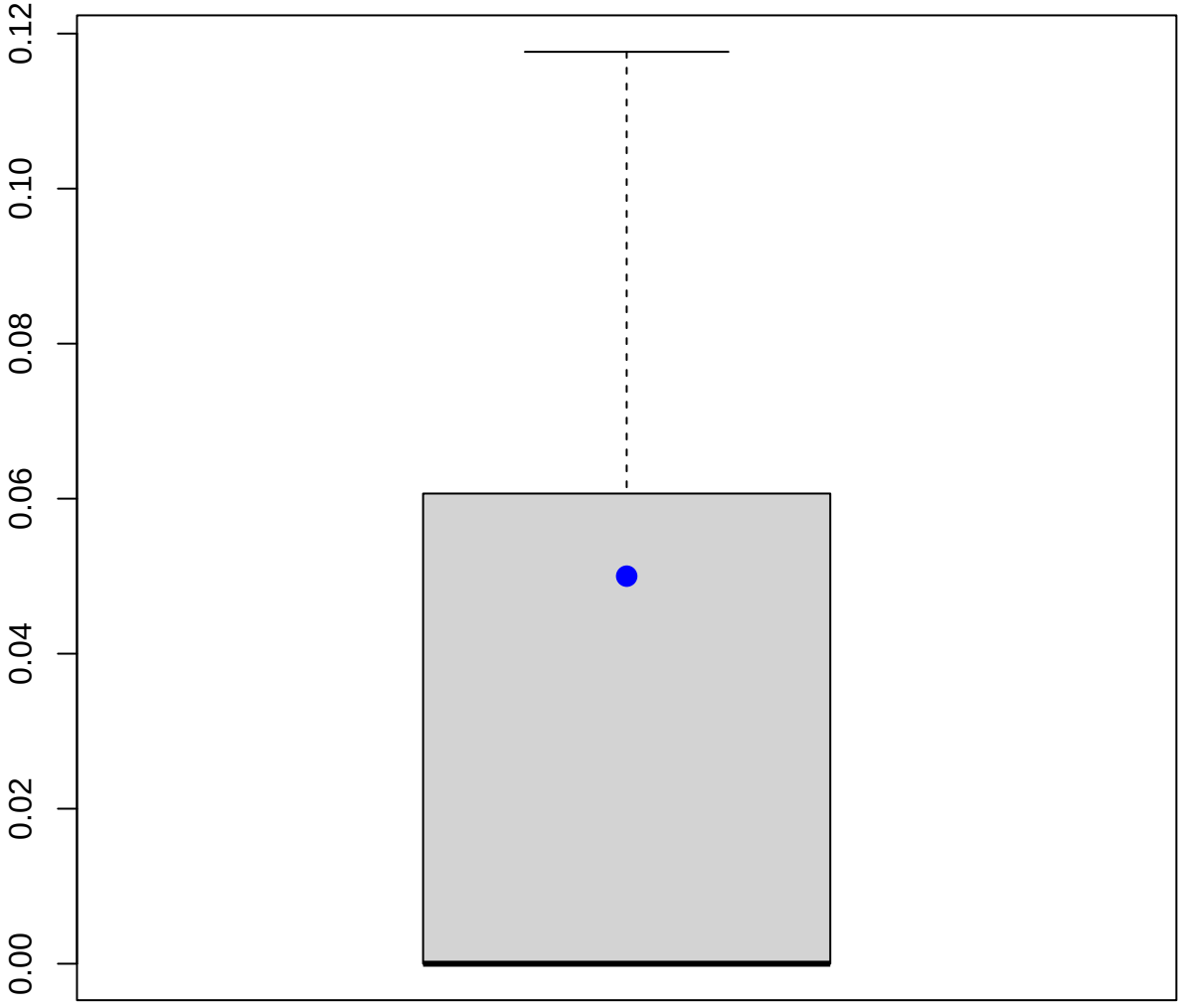
10
time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0.08
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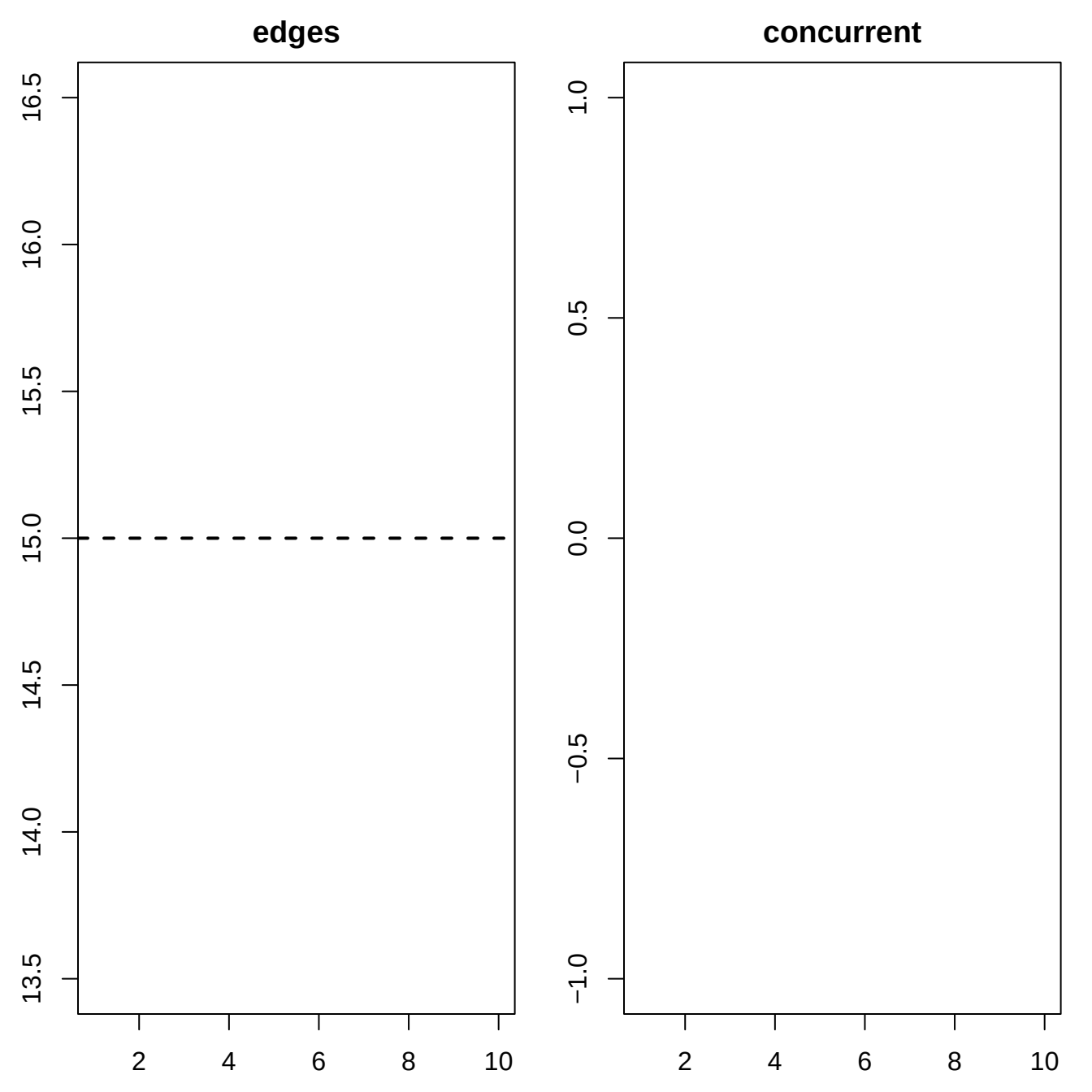
0.00


edges
16.5
16.0
15.5
15.0
14.5
14.0
13.5
2
4
6
8
10
concurrent
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0.5
0.0
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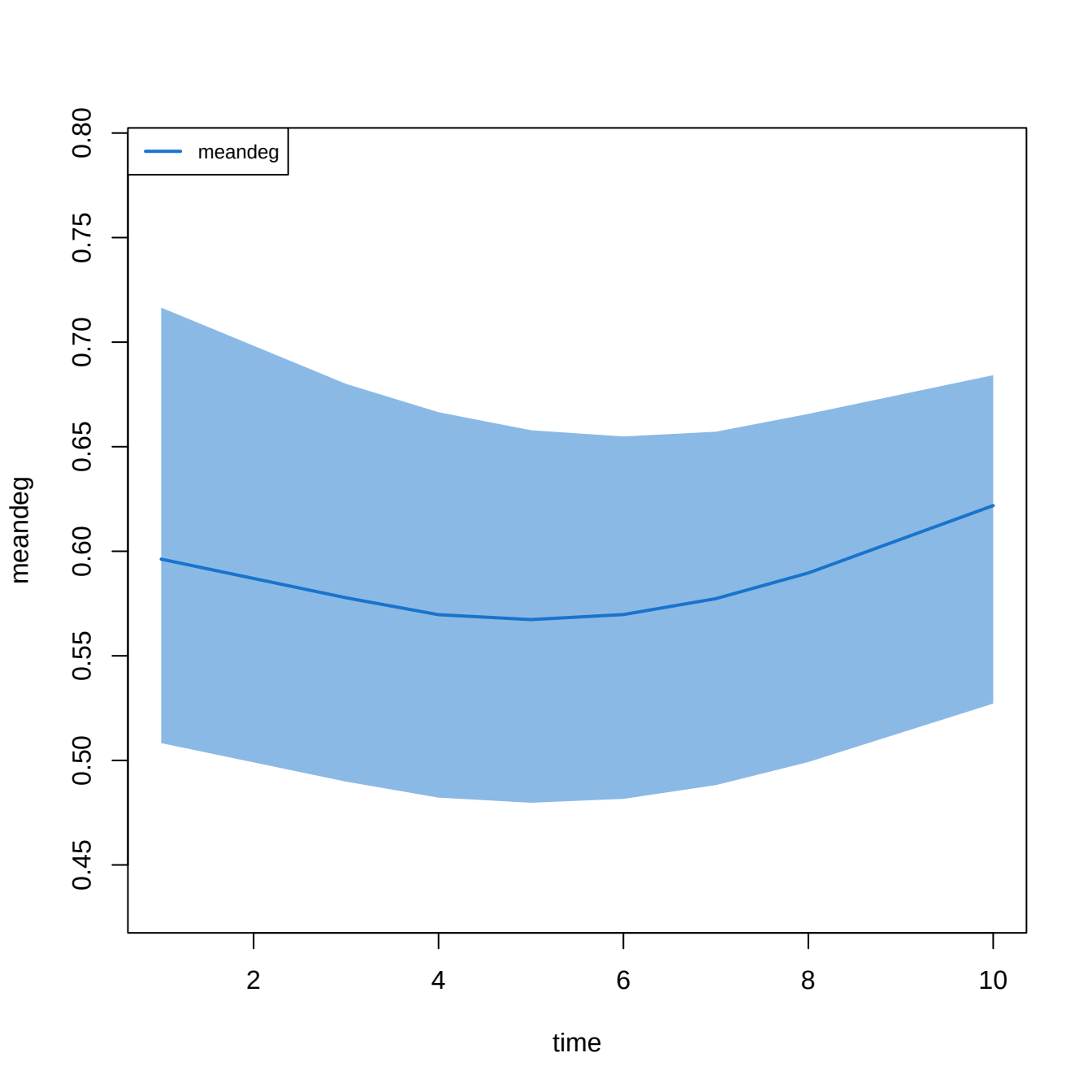
−1.0
2
4
6
8
10


meandeg
0.80
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0.65
0.60
0.55
0.50
0.45
meandeg
2
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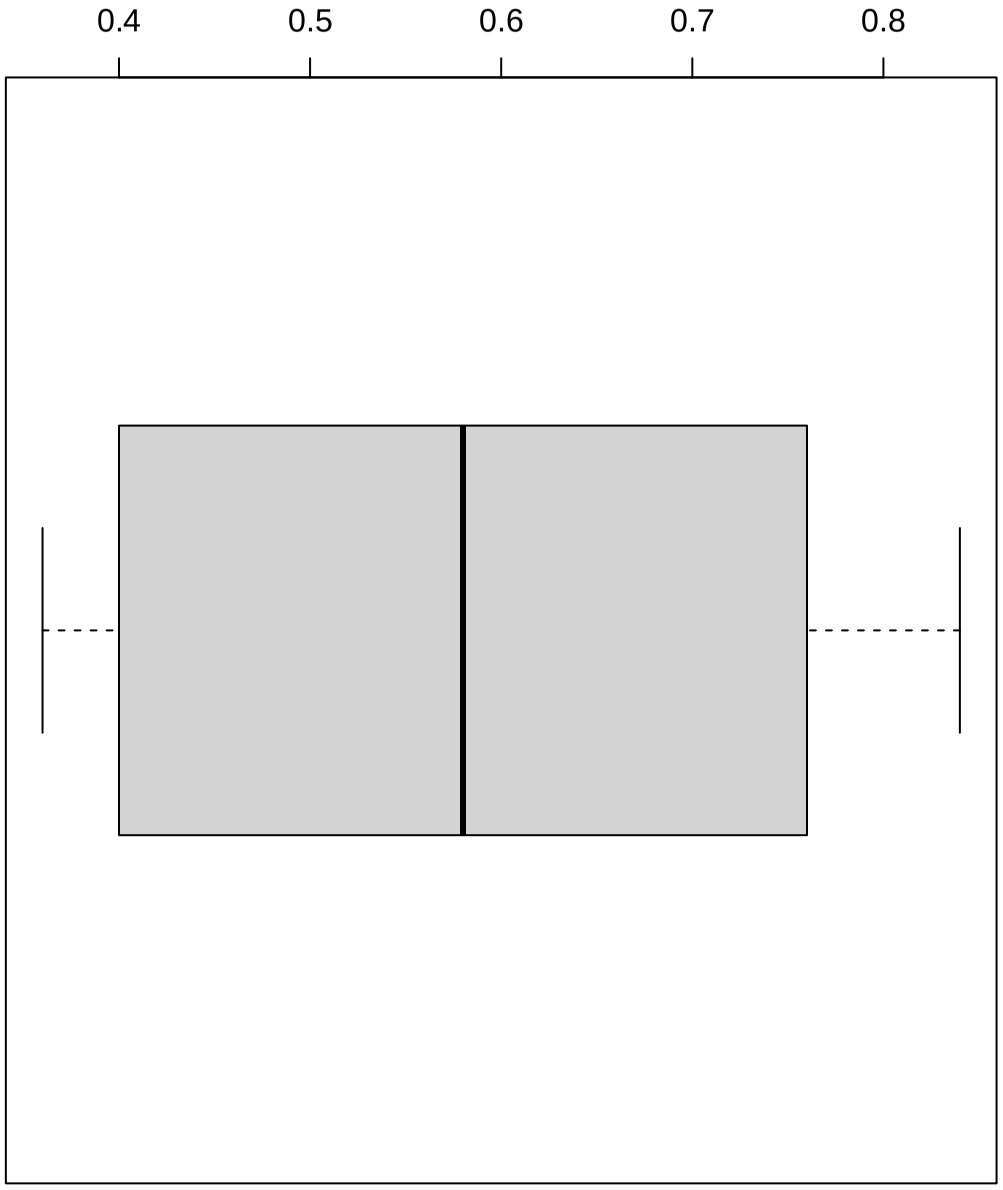
6
8
10
time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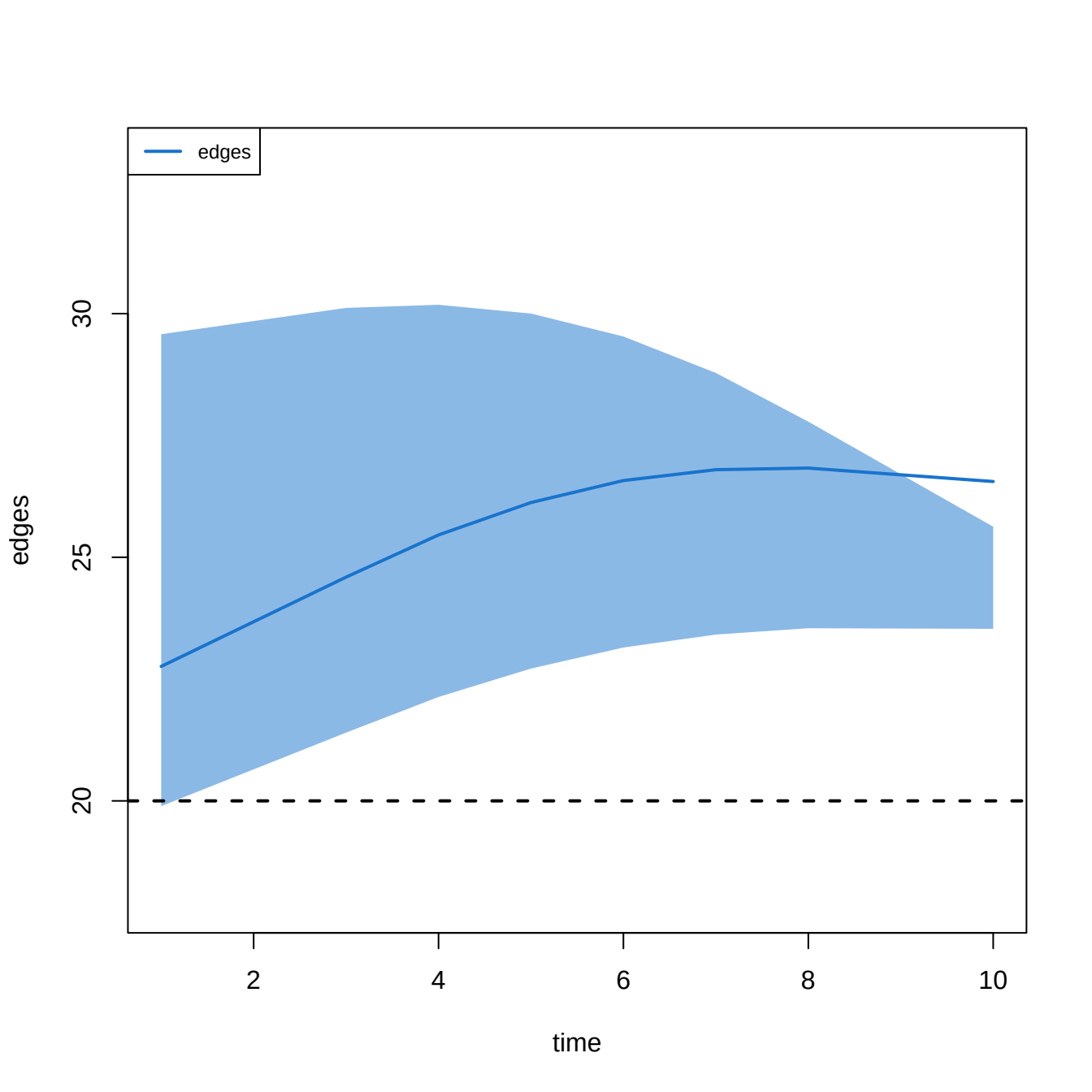
edges
edges
30
25
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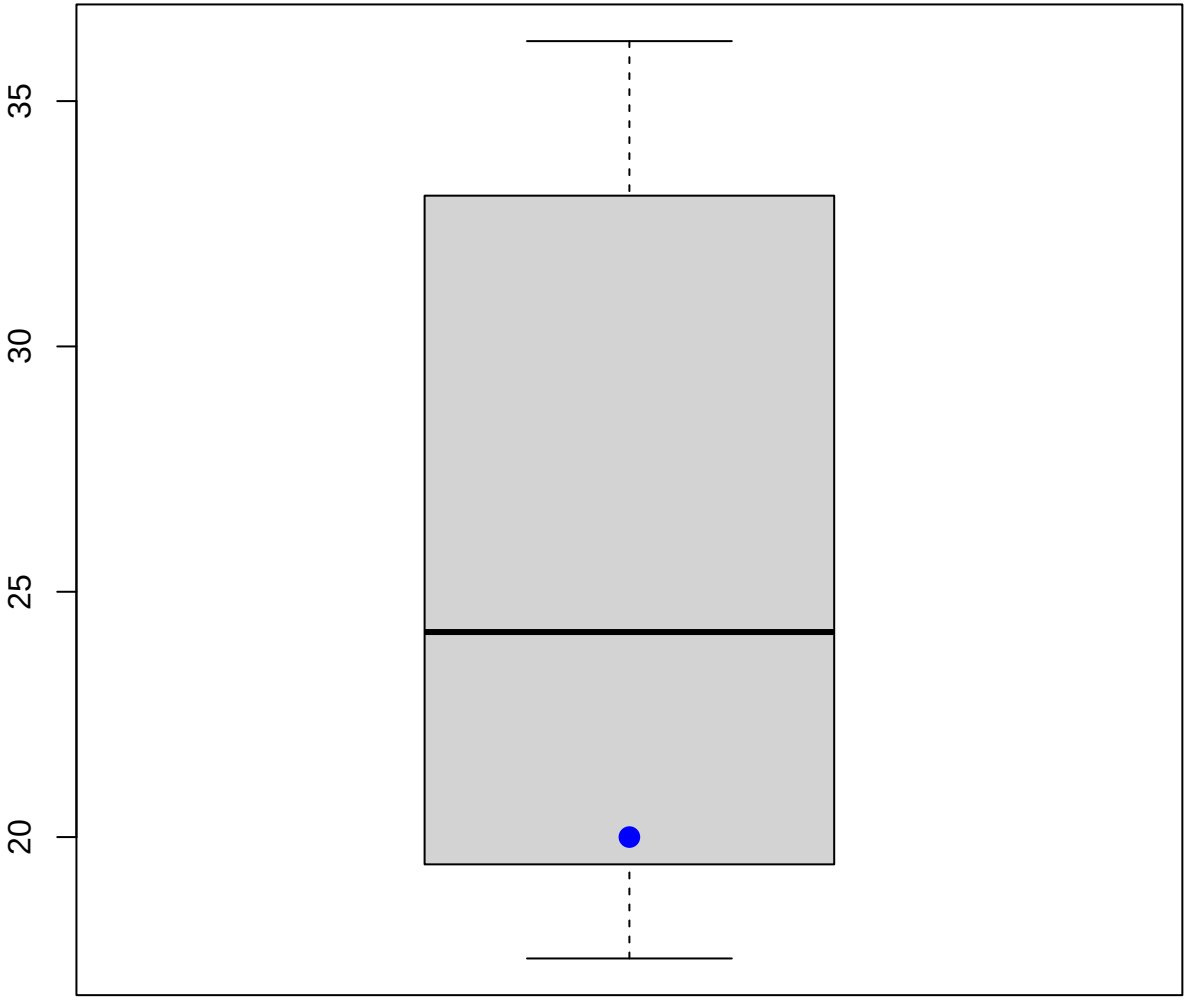
time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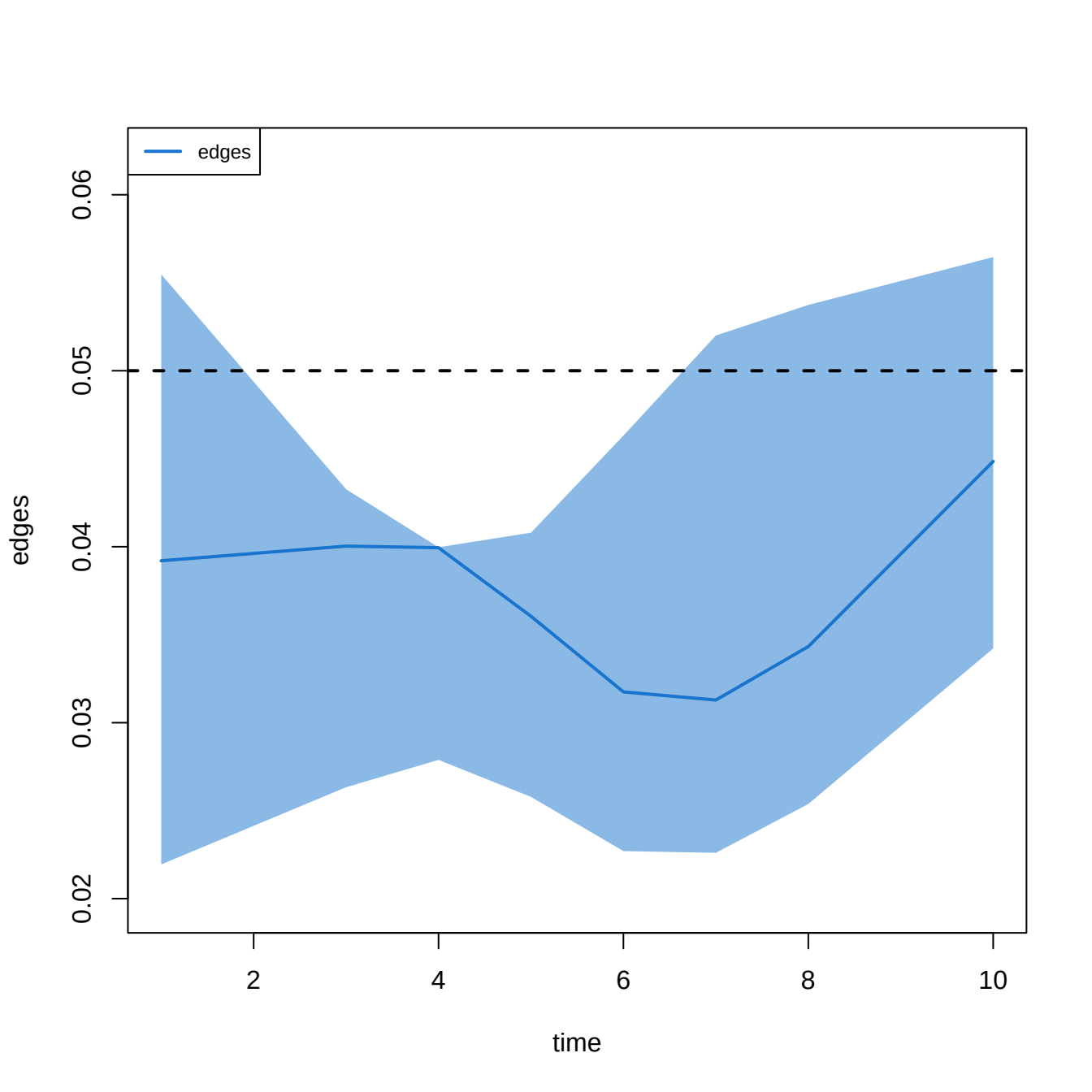
edges
0.06
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0.04
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0.02
edges
2
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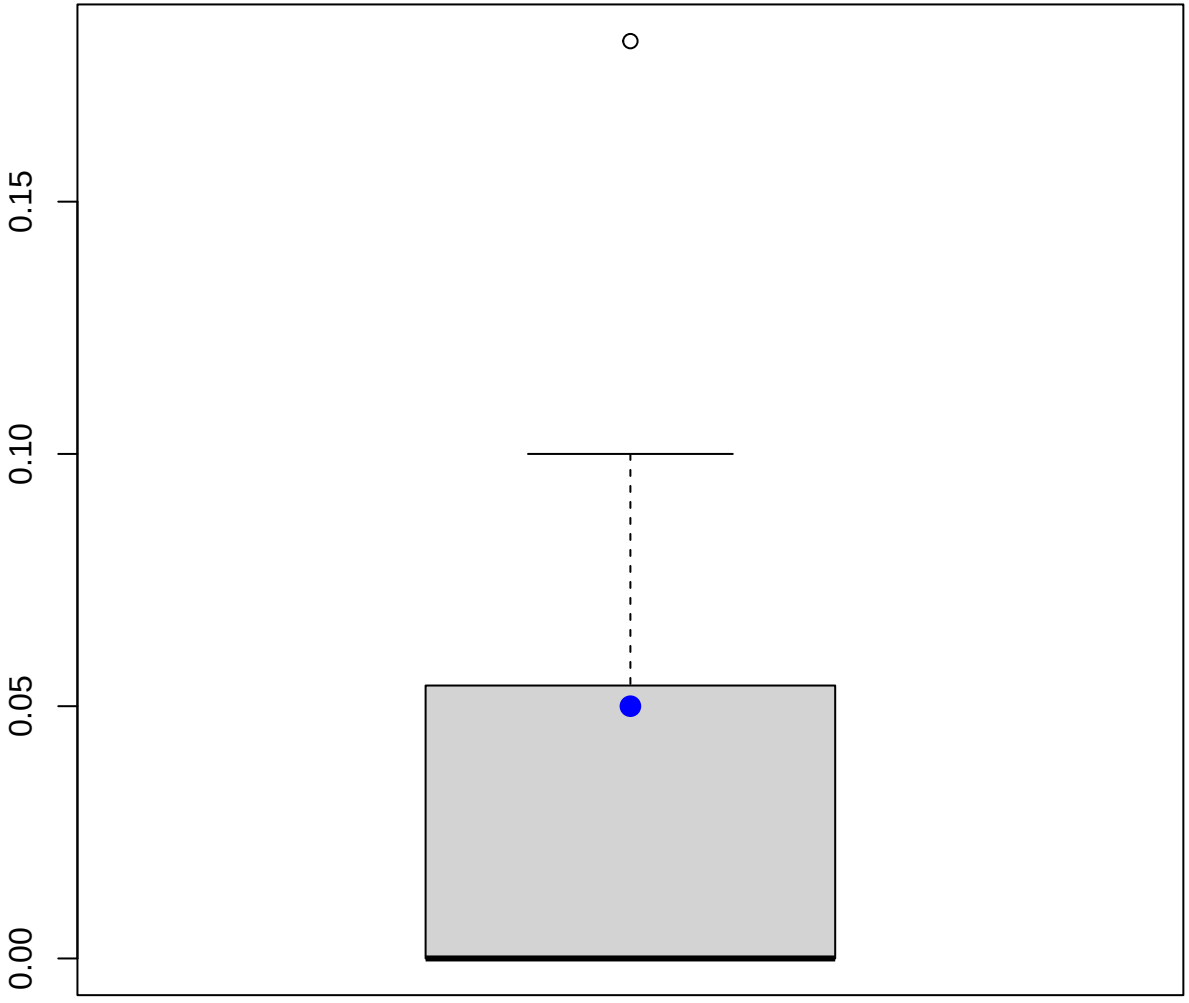
6
8
10
time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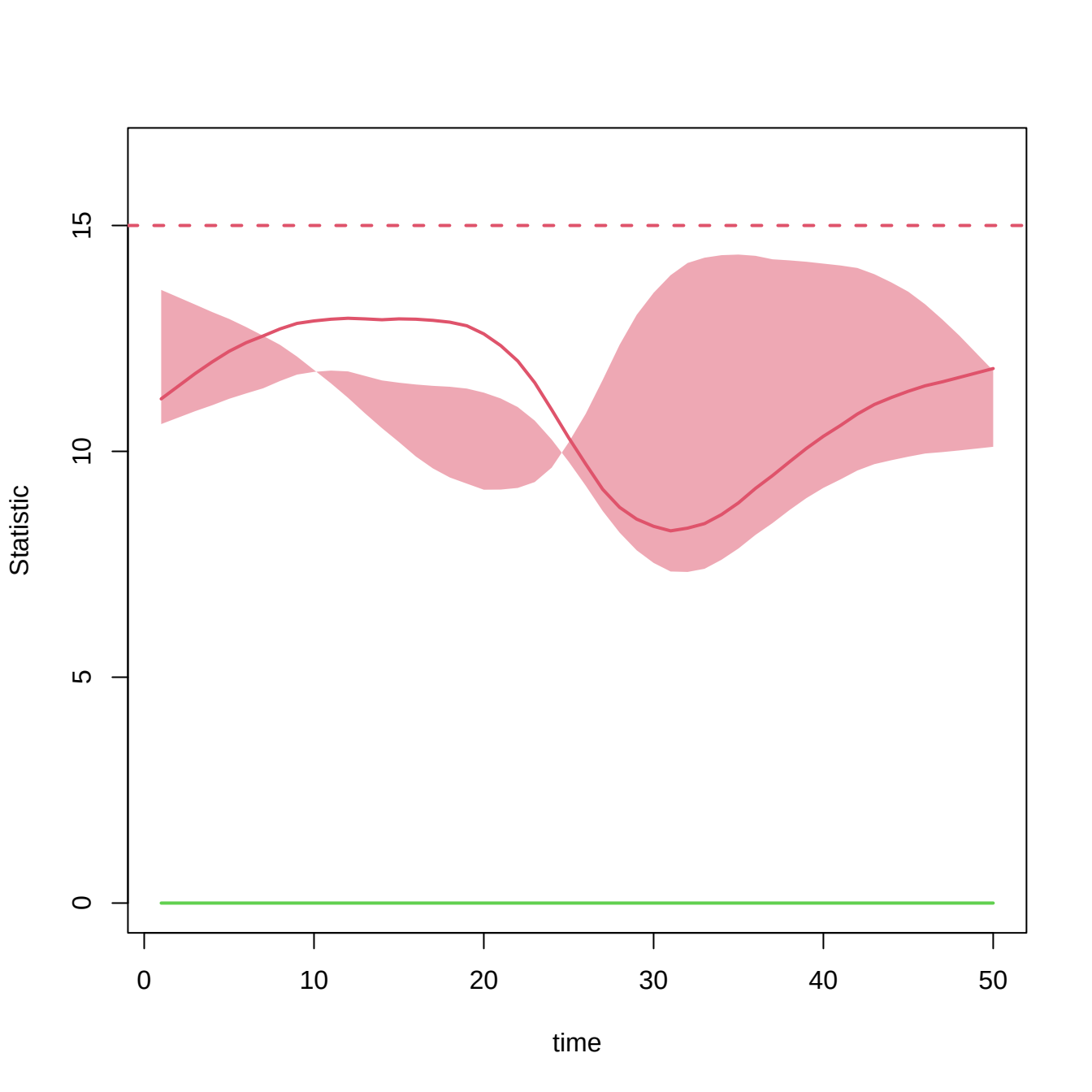
Statistic
0
5
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15
0
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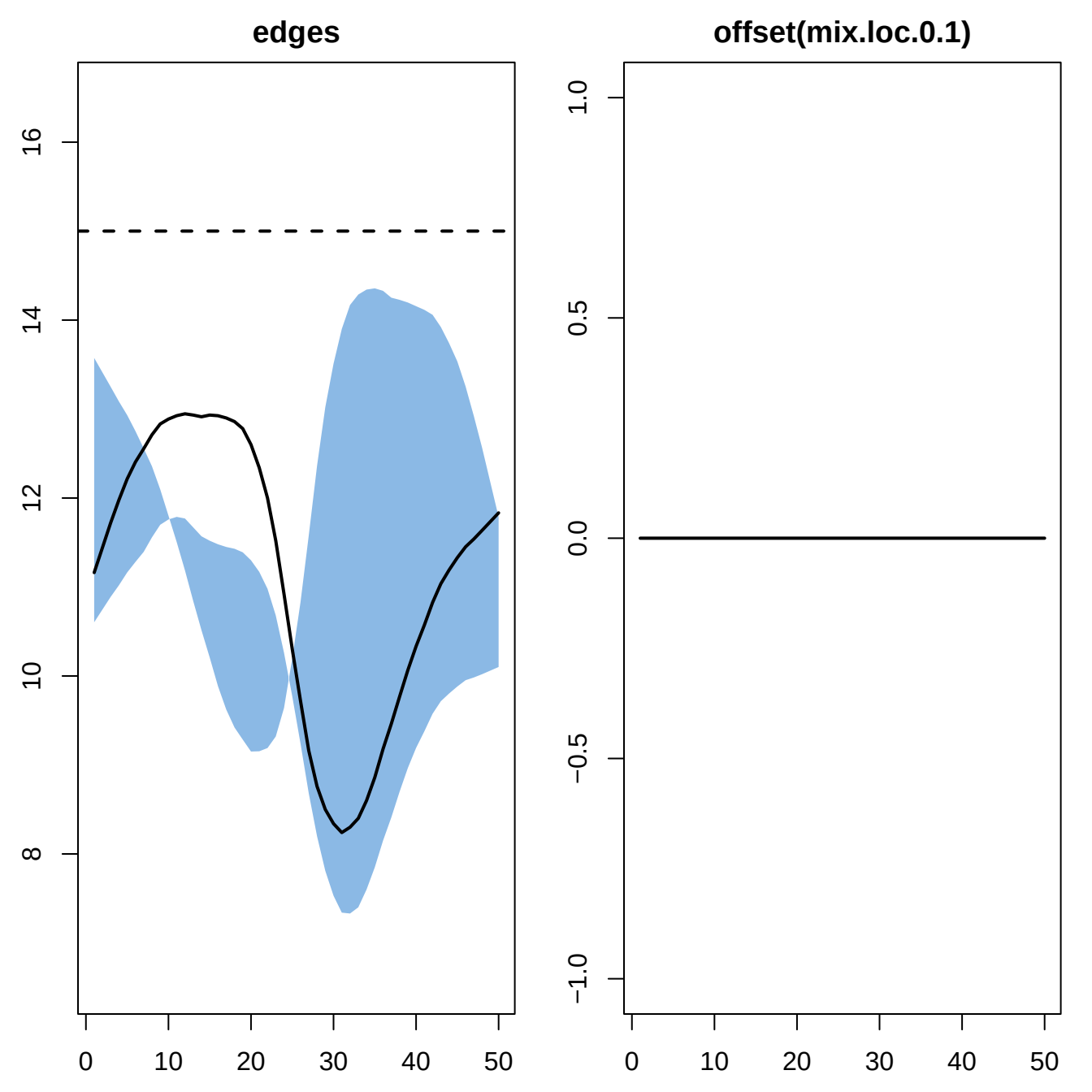
30
40
50
time


edges
offset(mix.loc.0.1)
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14
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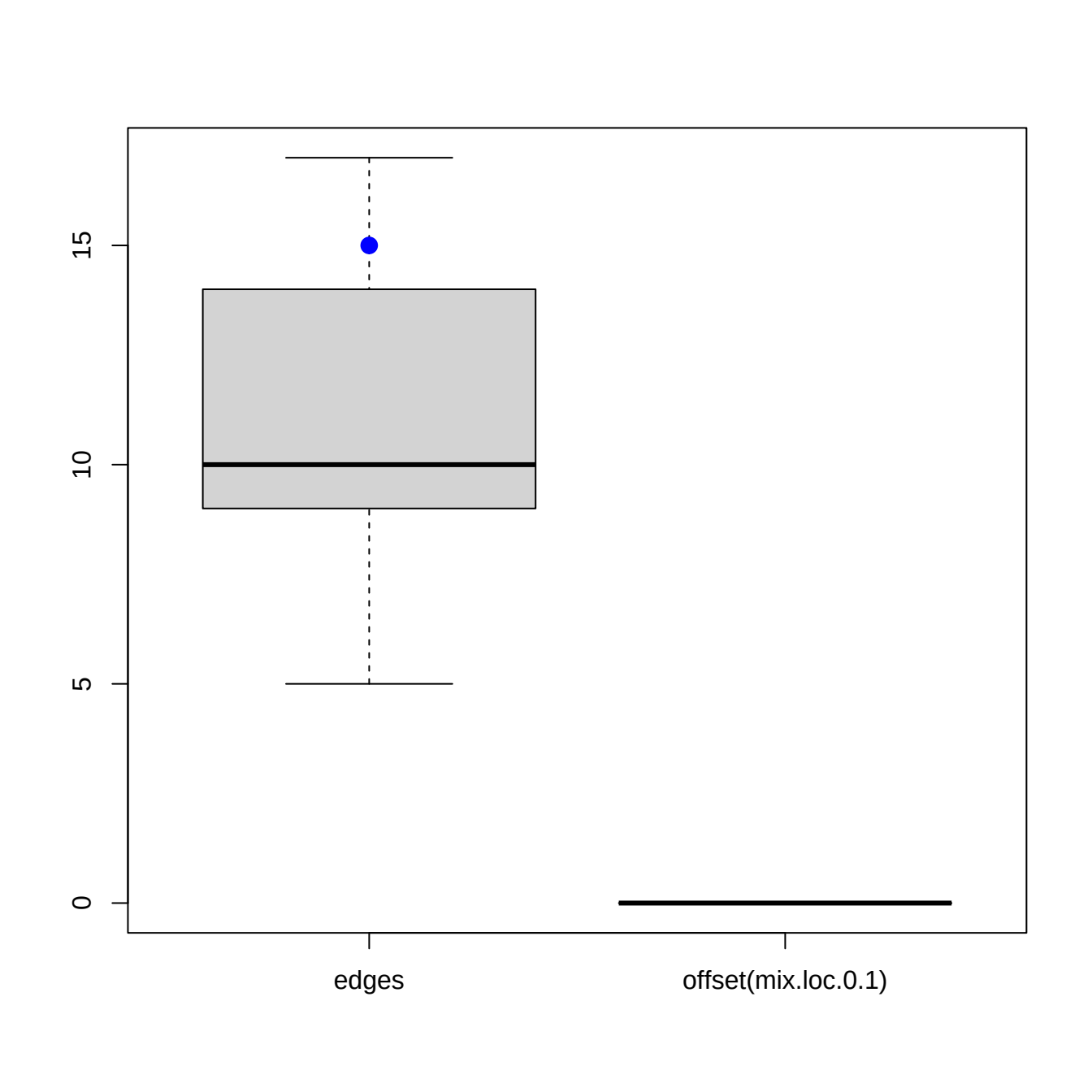
10
8
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50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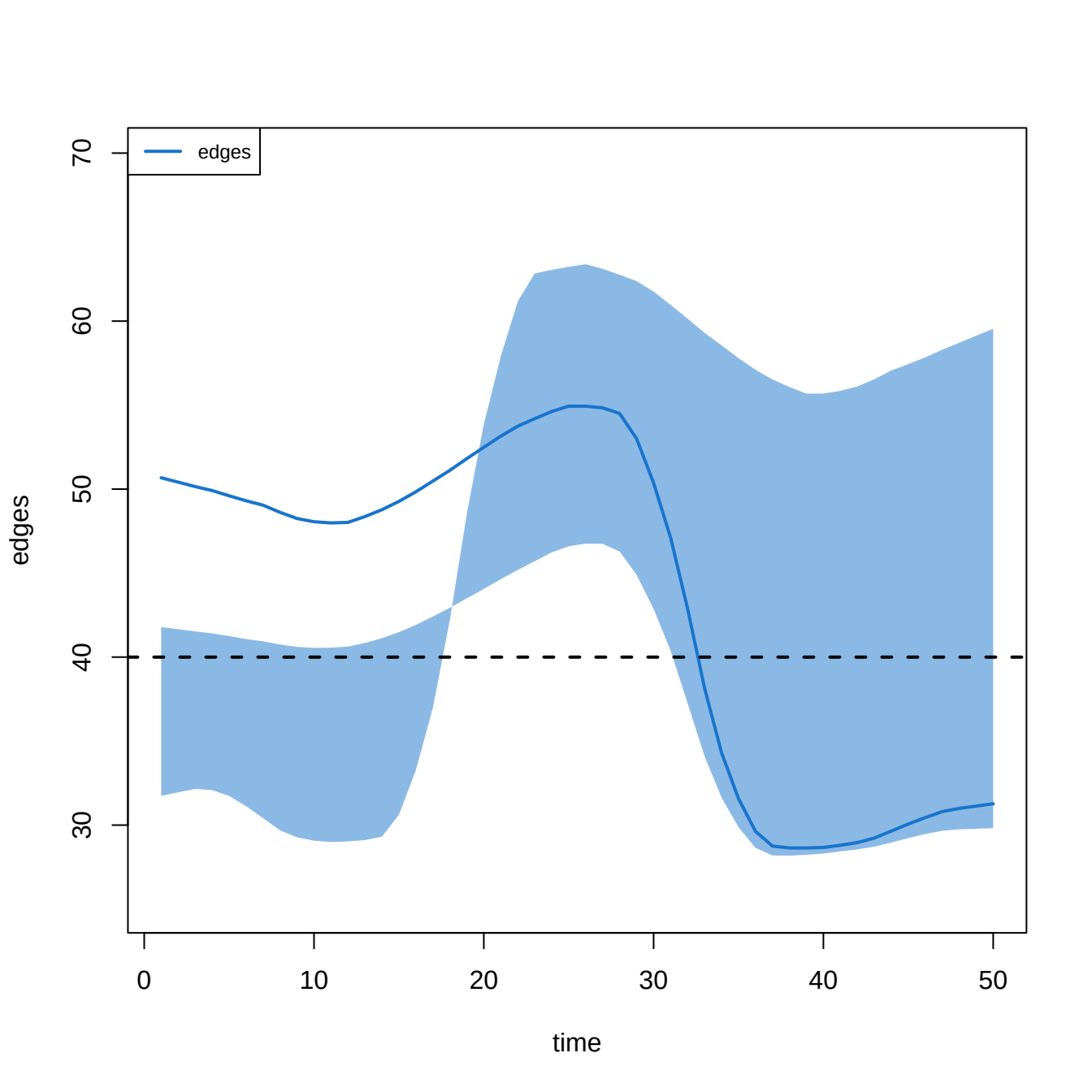
5
10
15
edges
offset(mix.loc.0.1)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30
edges
0
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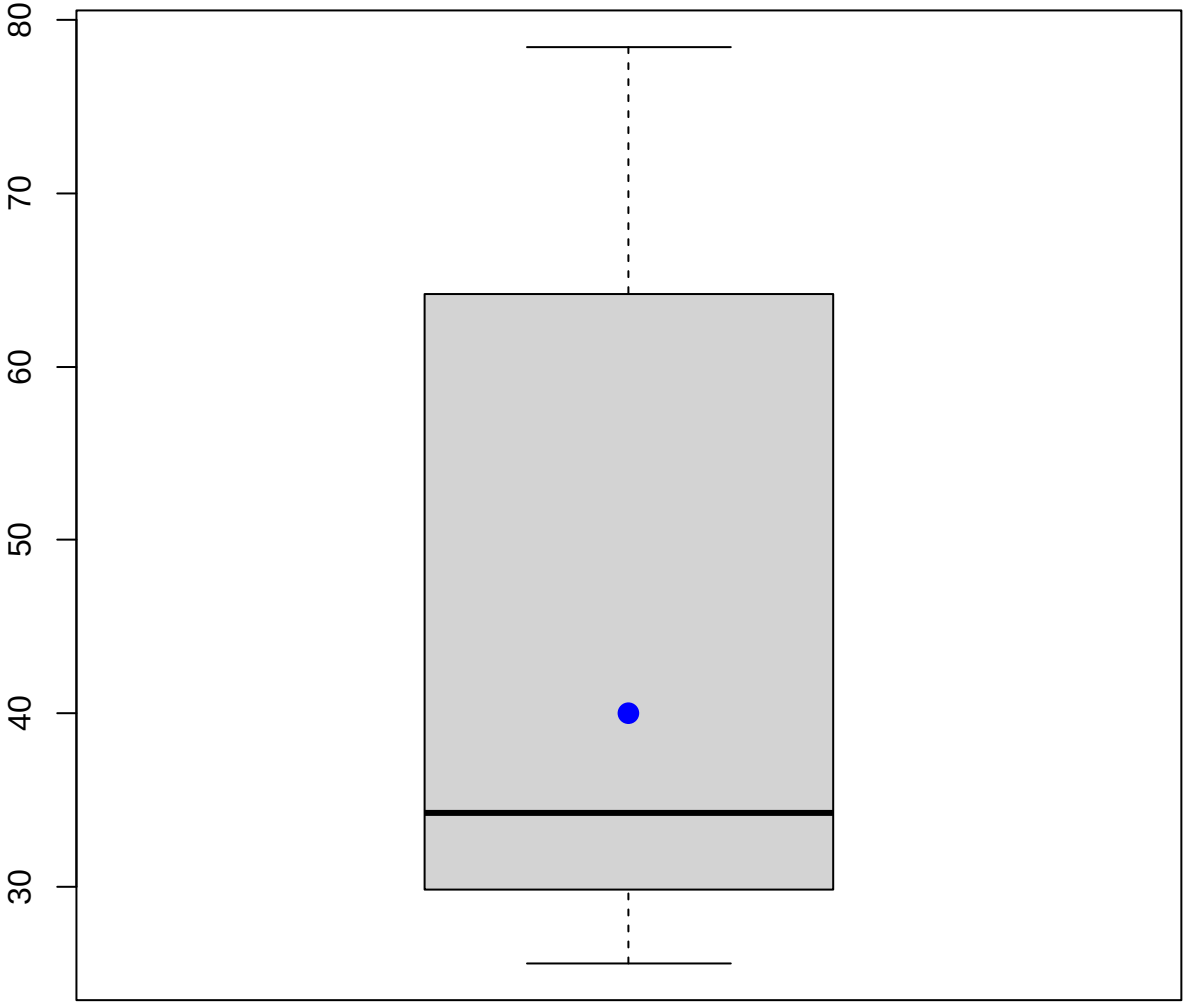
20
30
40
50
time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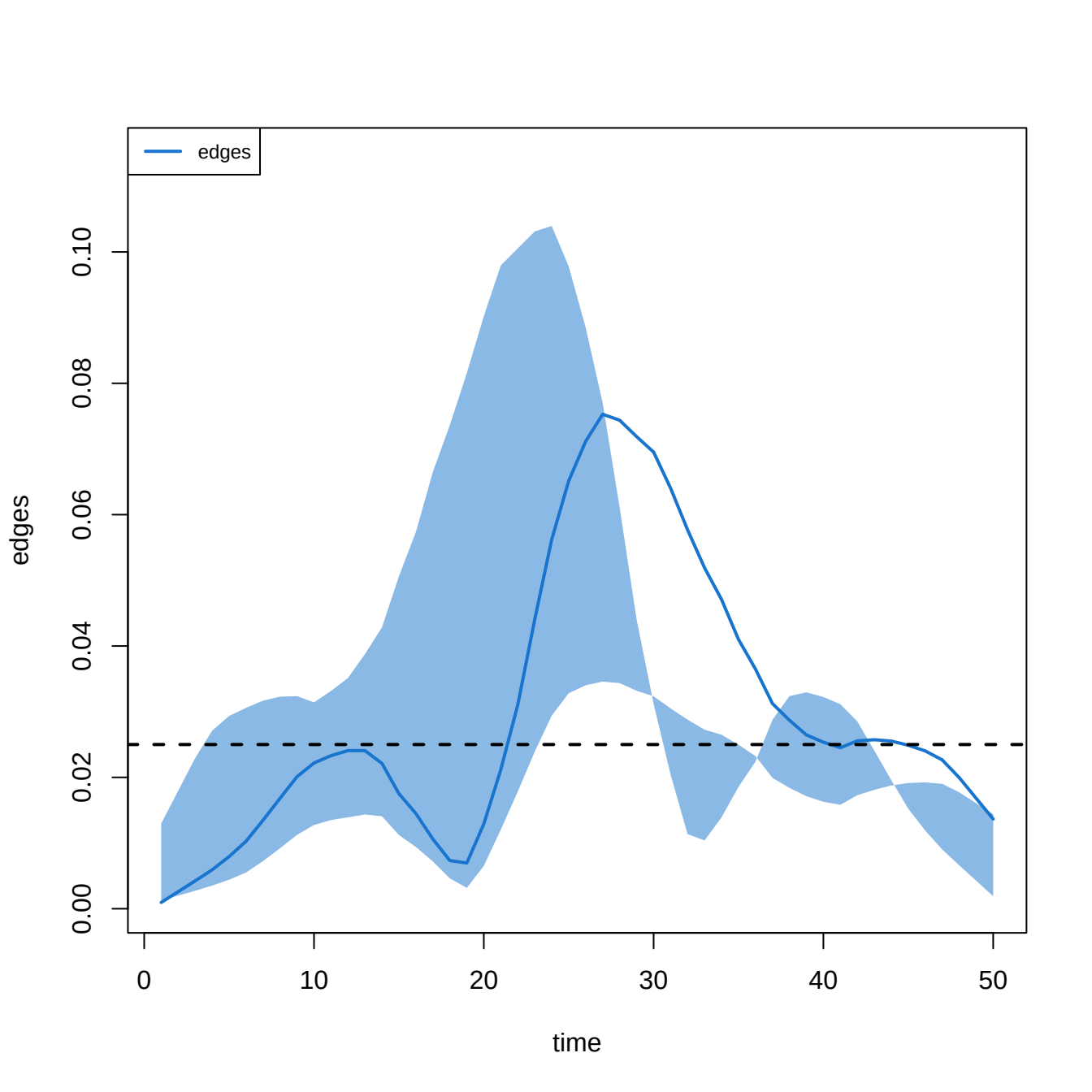
edges
edges
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0.02
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0.08
0.10
0
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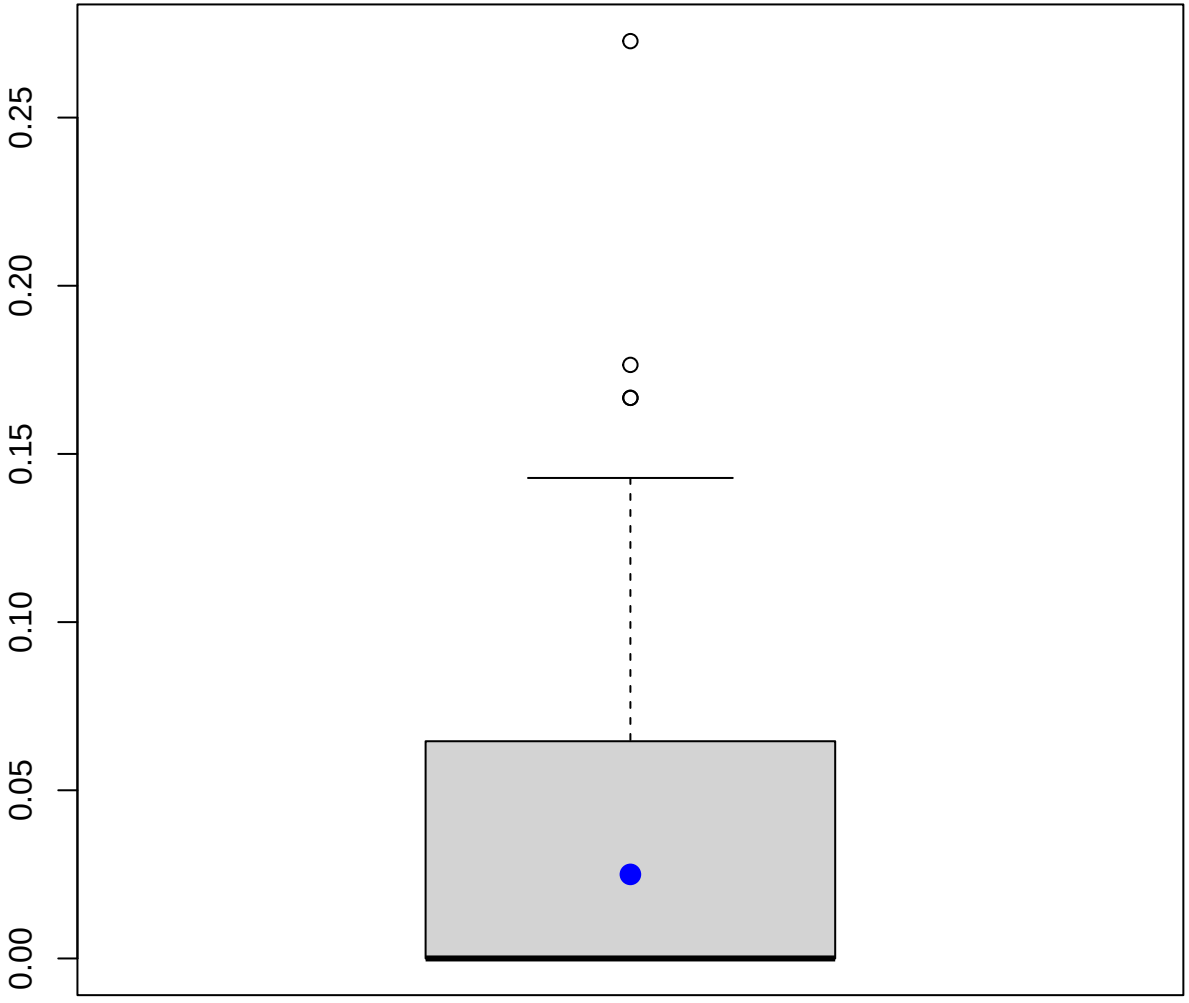
30
40
50
time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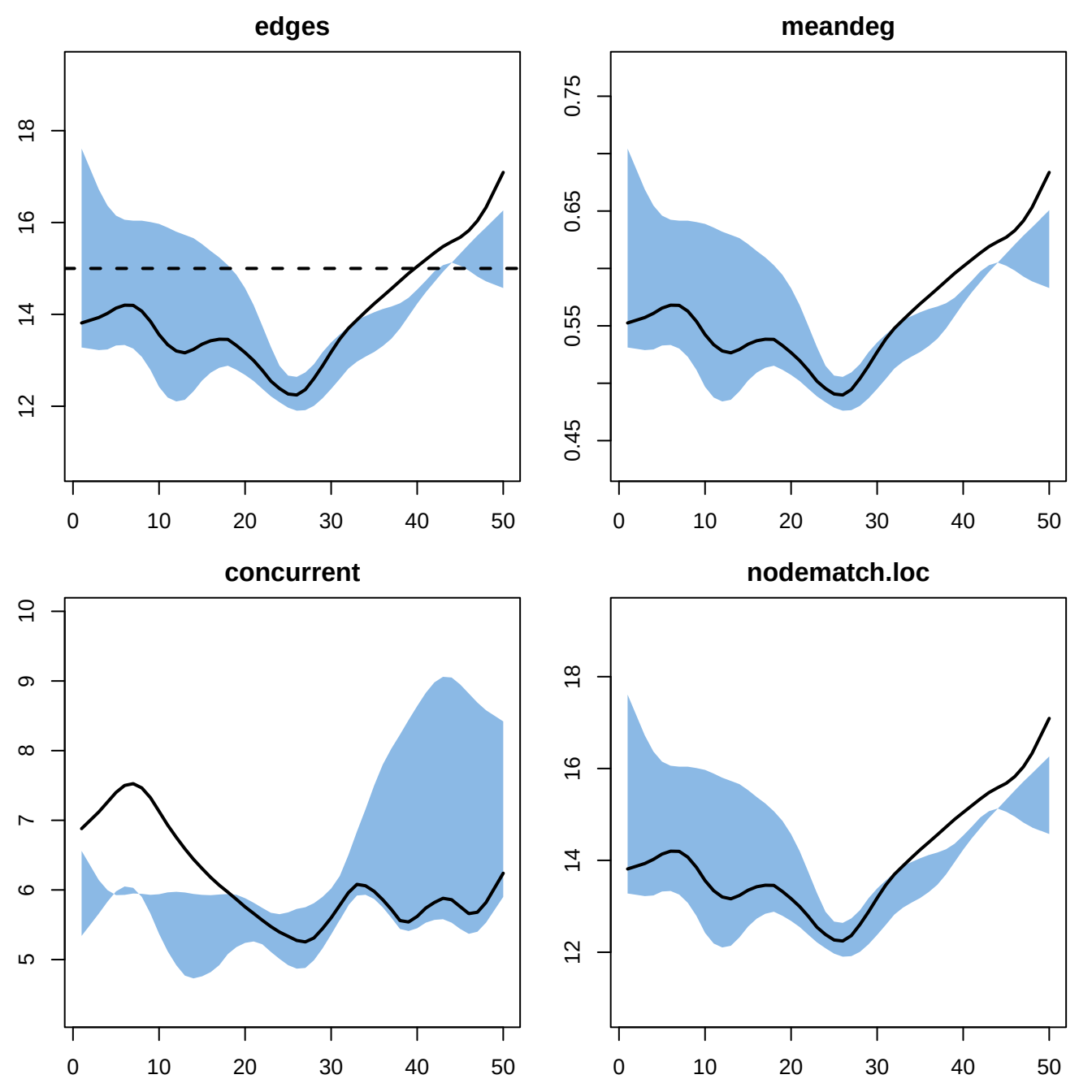
0.25


edges
meandeg
concurrent
nodematch.loc
0
10
20
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40
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12
14
16
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0.45
0.55
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0.75
5
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7
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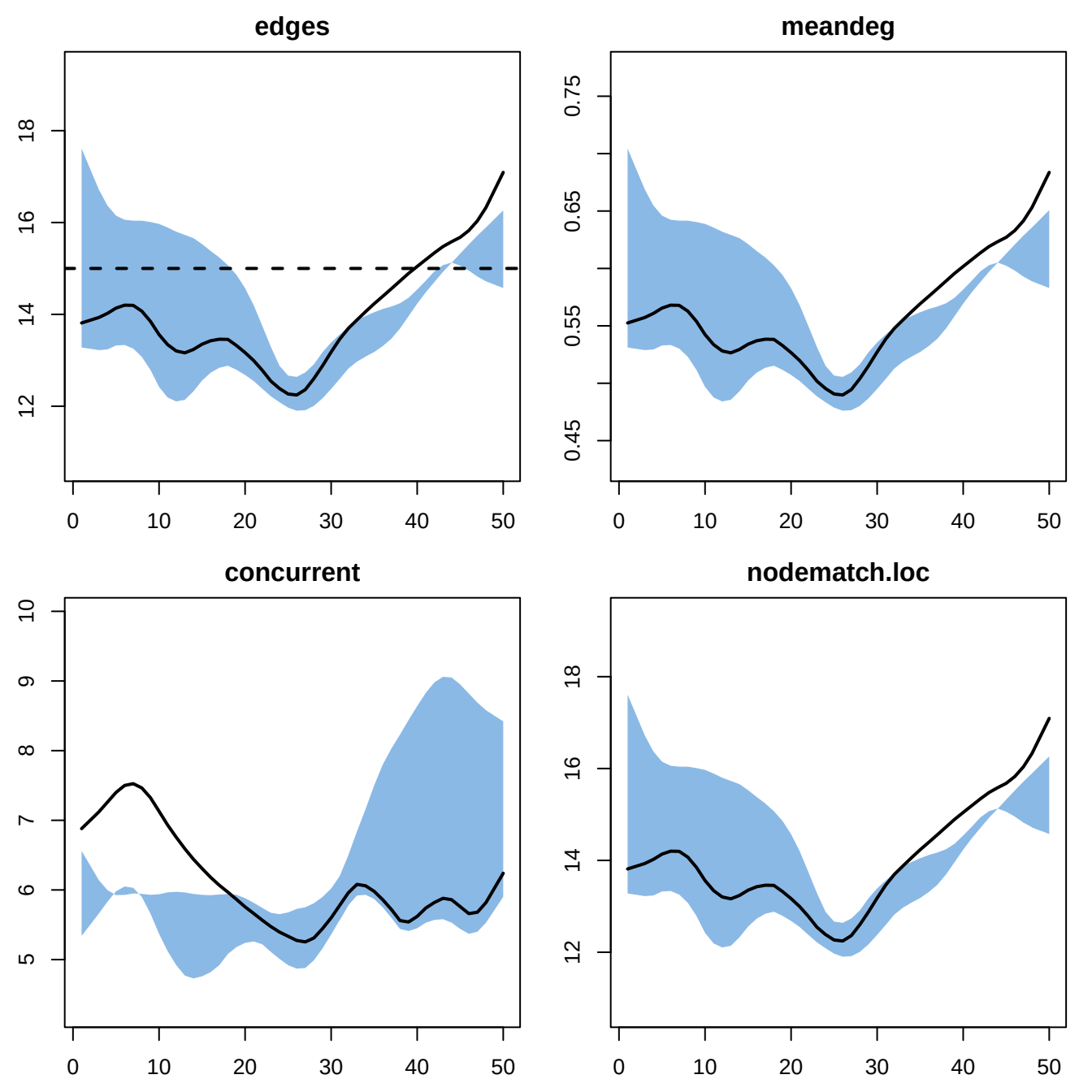
9
10


edges
meandeg
concurrent
nodematch.loc
0
10
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12
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16
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0.45
0.55
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0.75
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7
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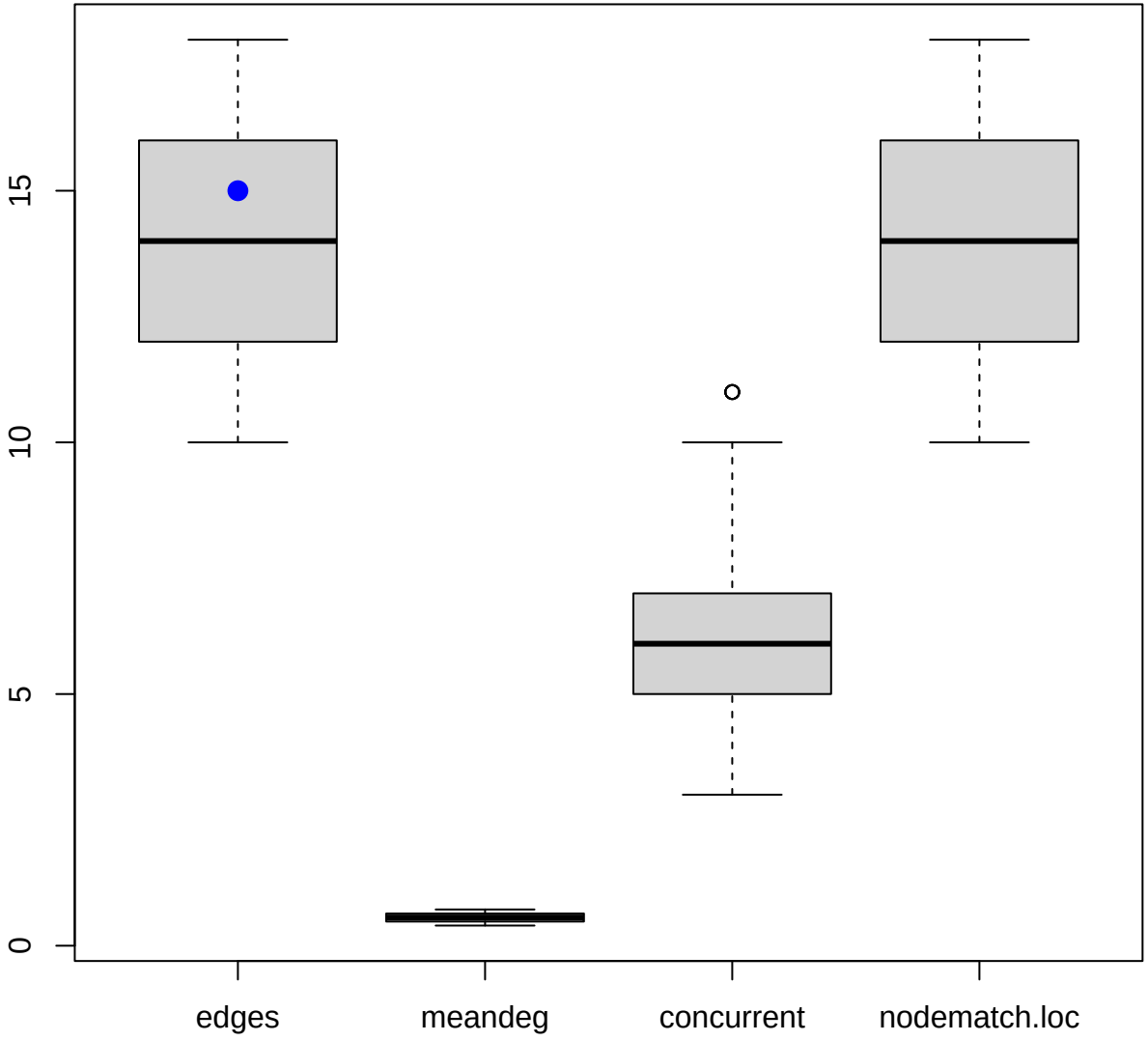
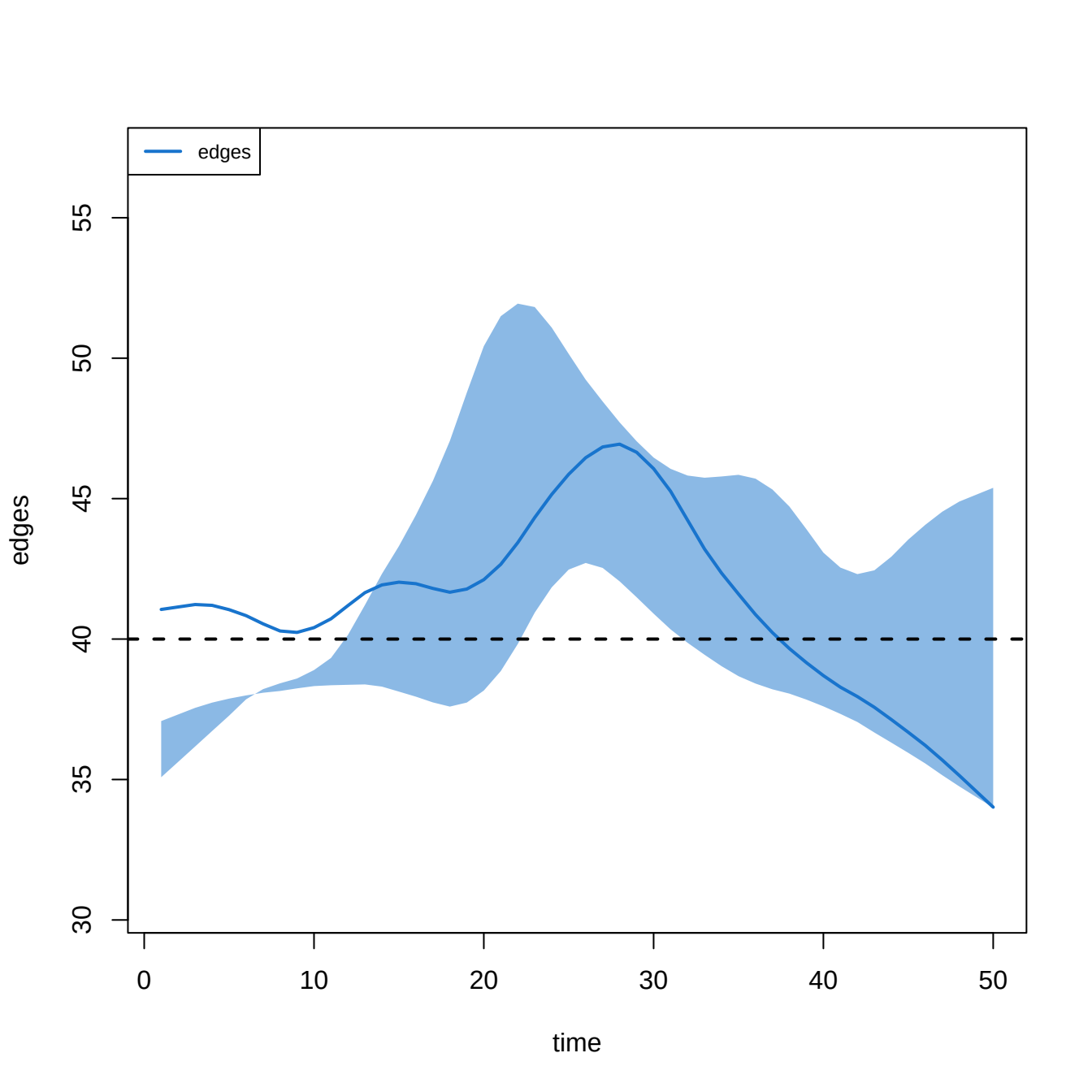
9
10


0
5
10
15
edges
meandeg
concurrent
nodematch.loc


edges
edges
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50
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40
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0
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30
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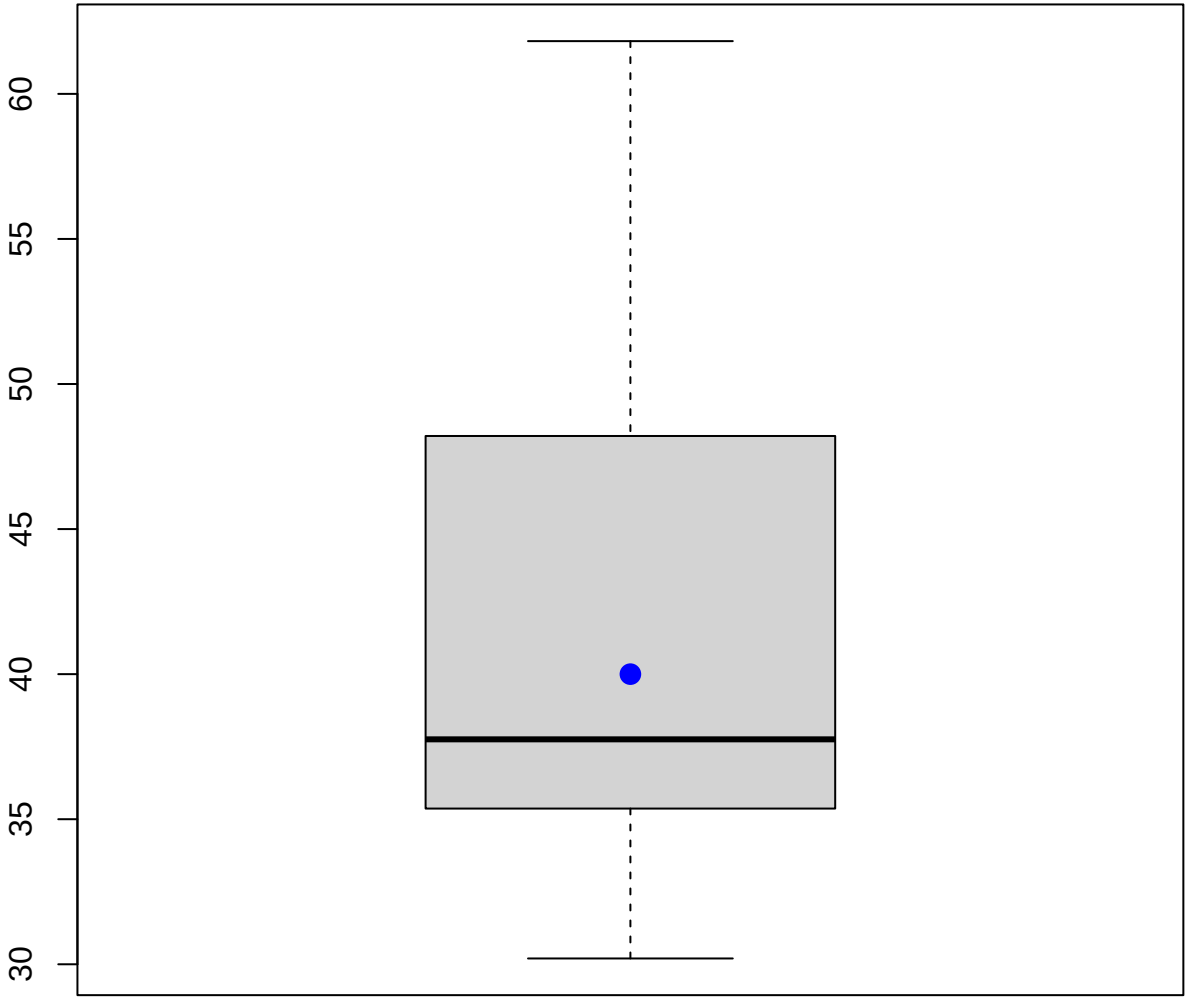
time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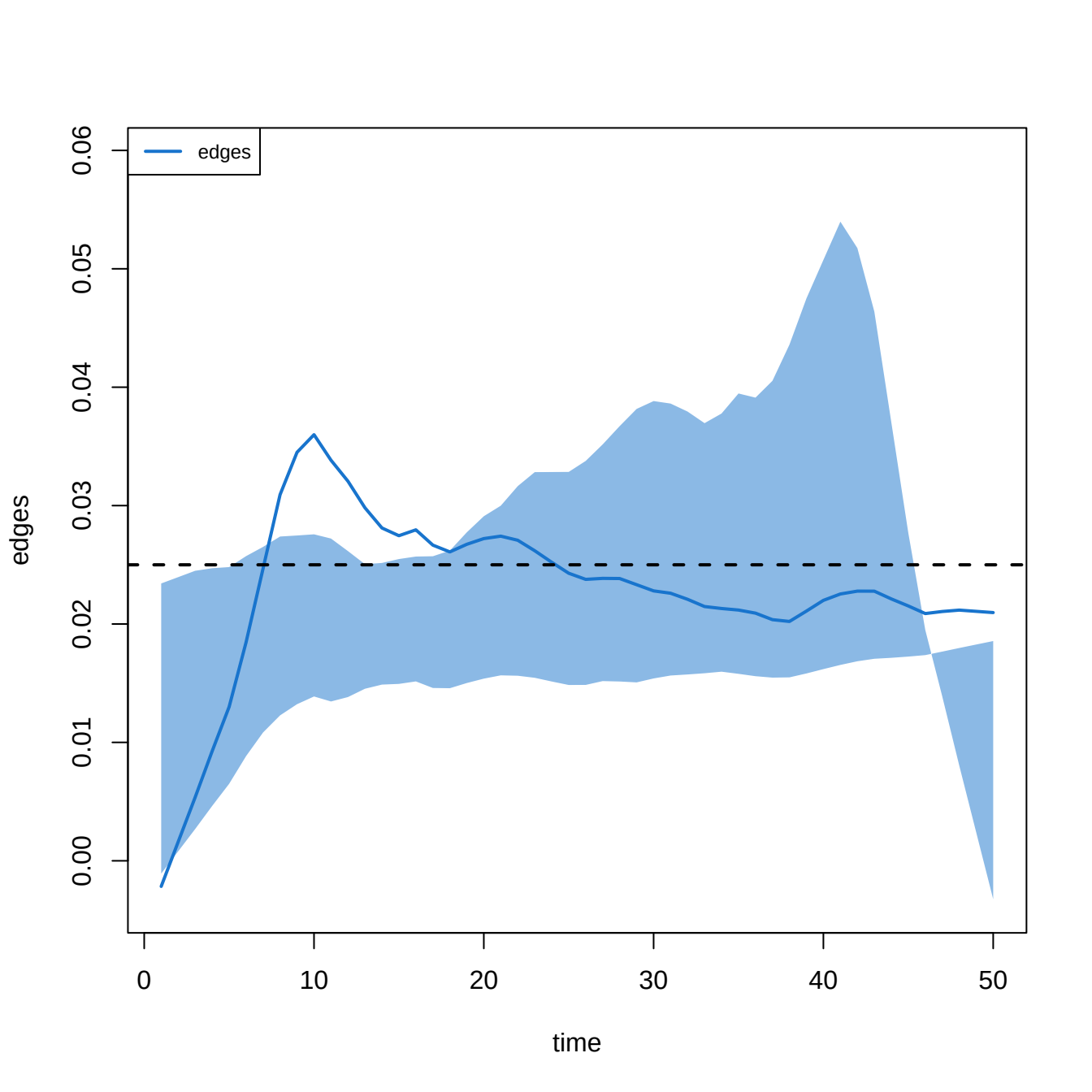
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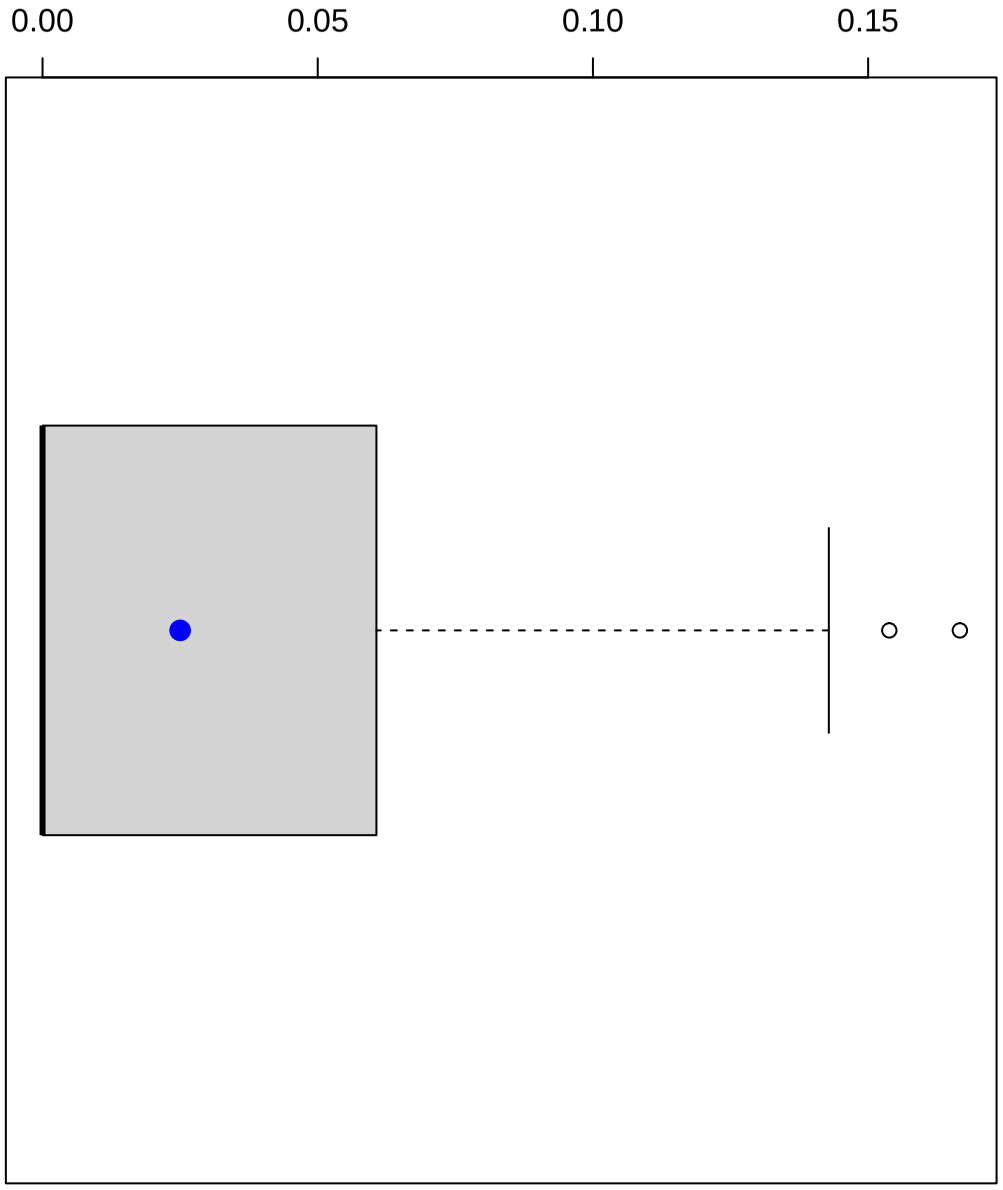
0.05
0.04
0.03
0.02
0.01
0.00
edges
0
10
20
30
40
50
time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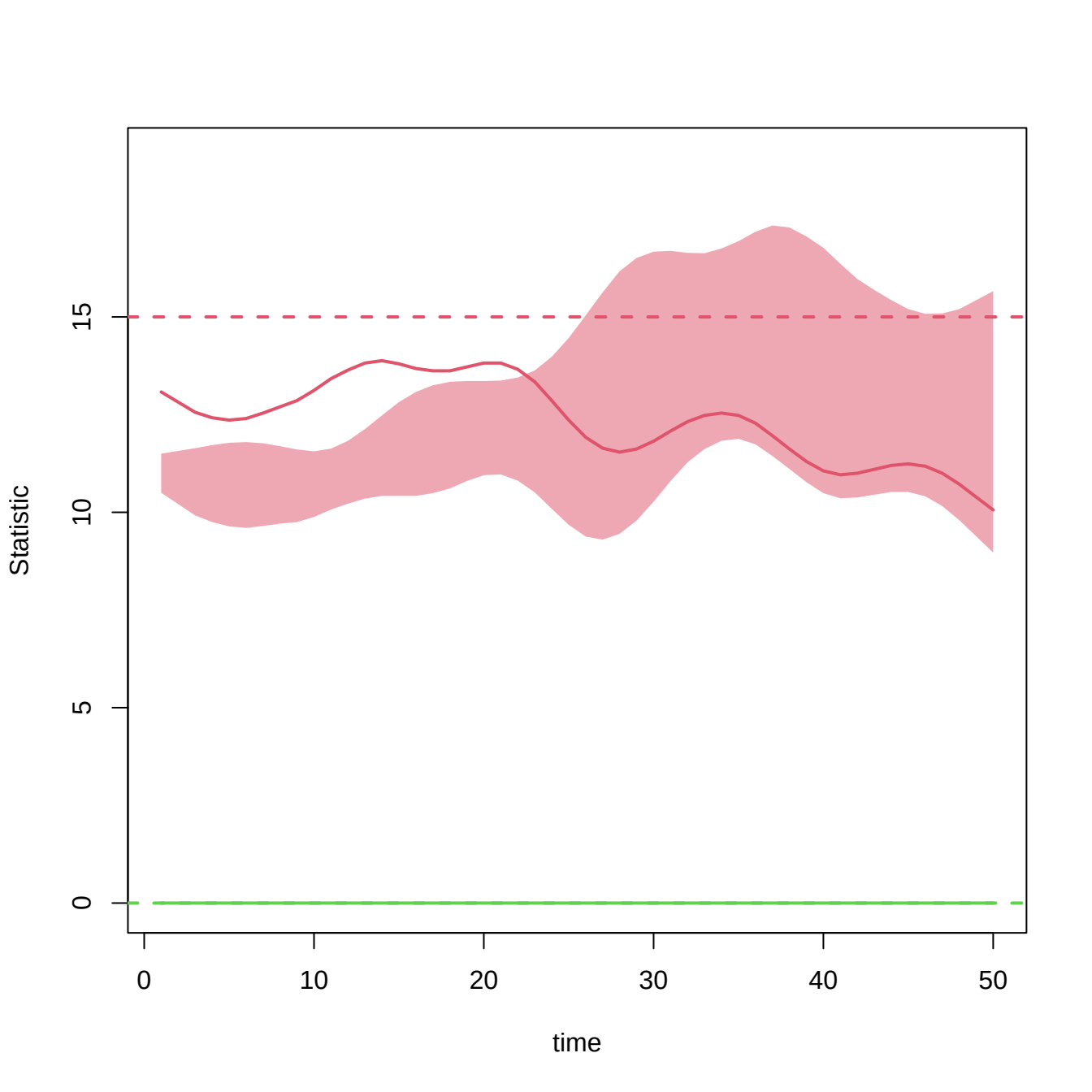
Statistic
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30
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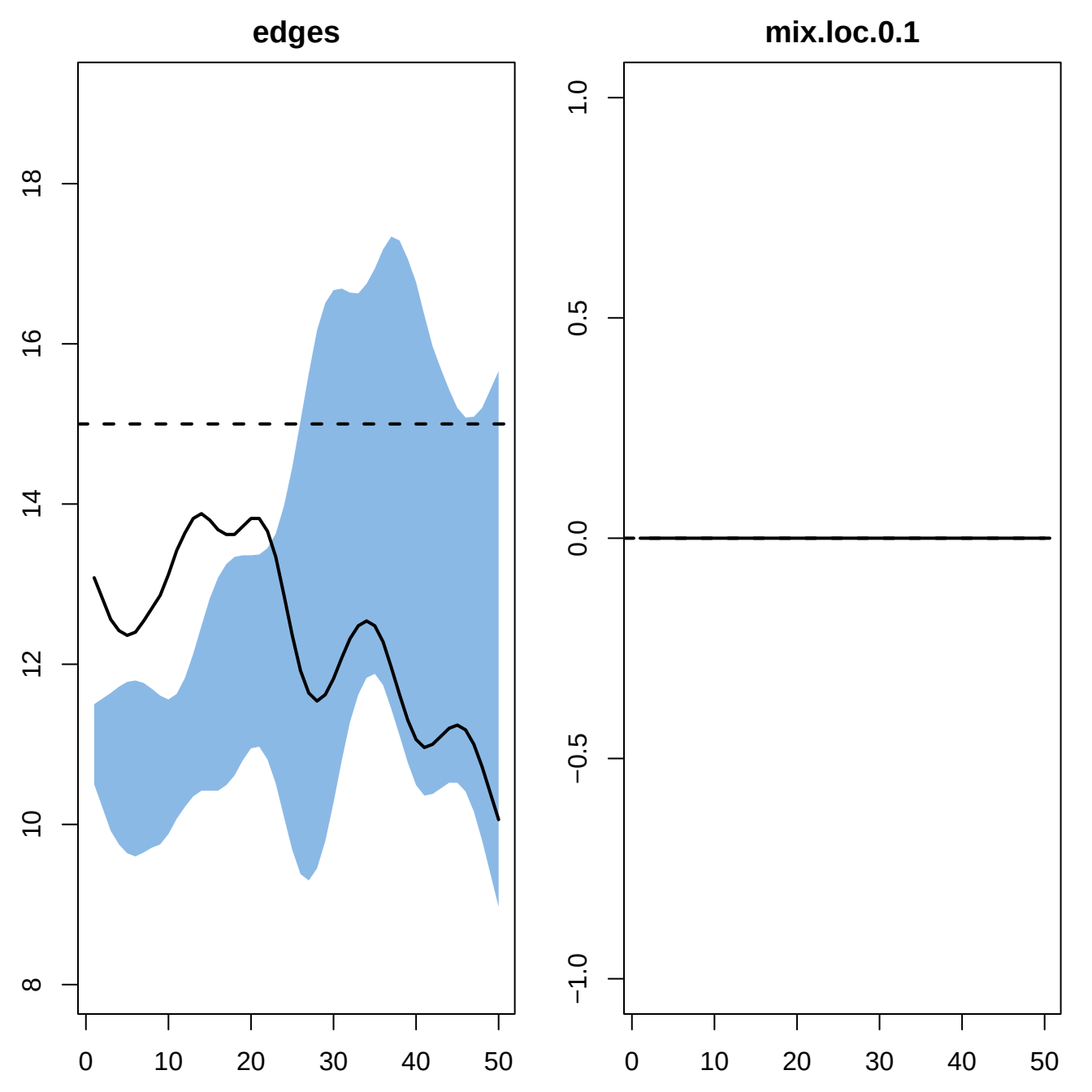
50
time


edges
mix.loc.0.1
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1.0
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20
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40
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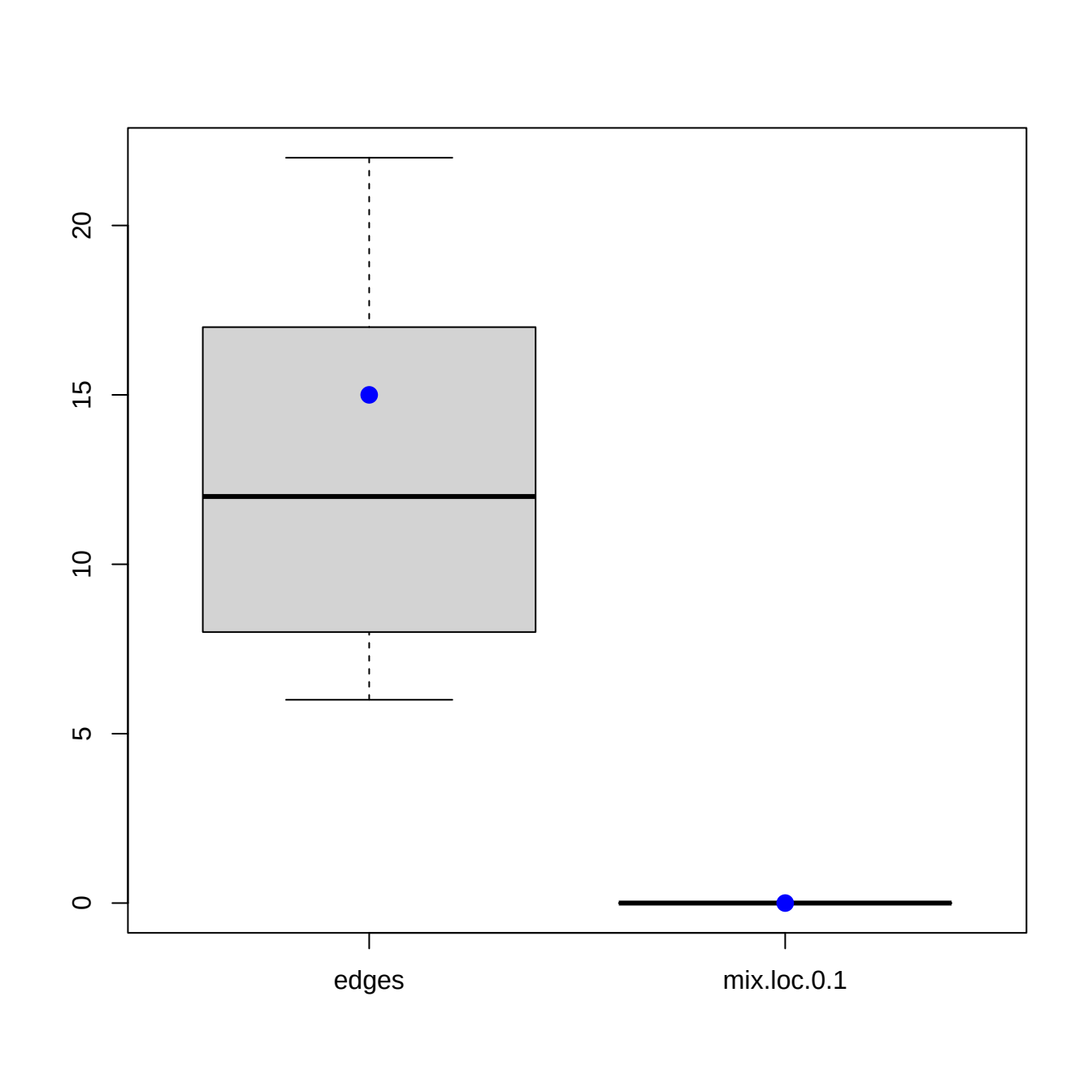
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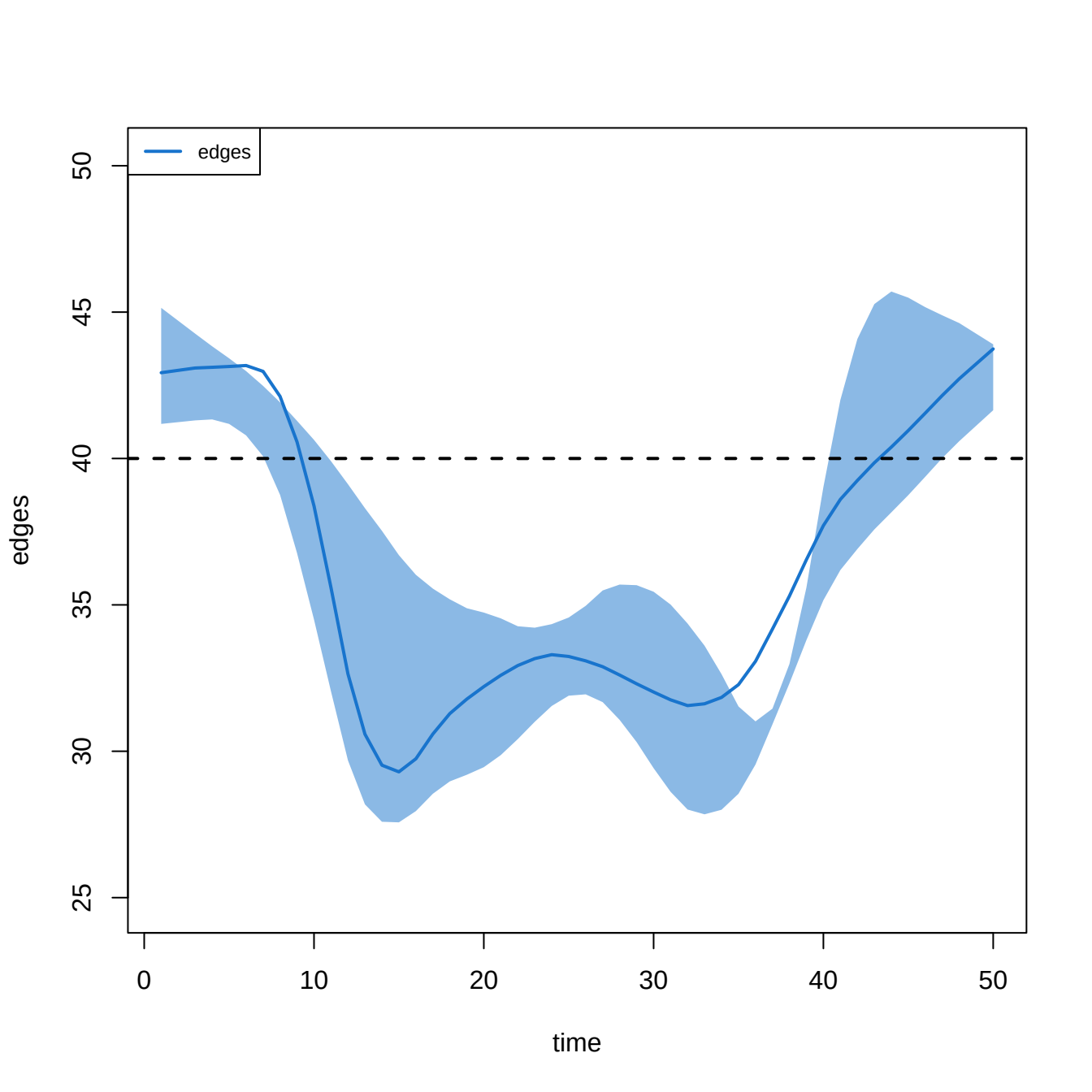
edges
mix.loc.0.1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30
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edges
0
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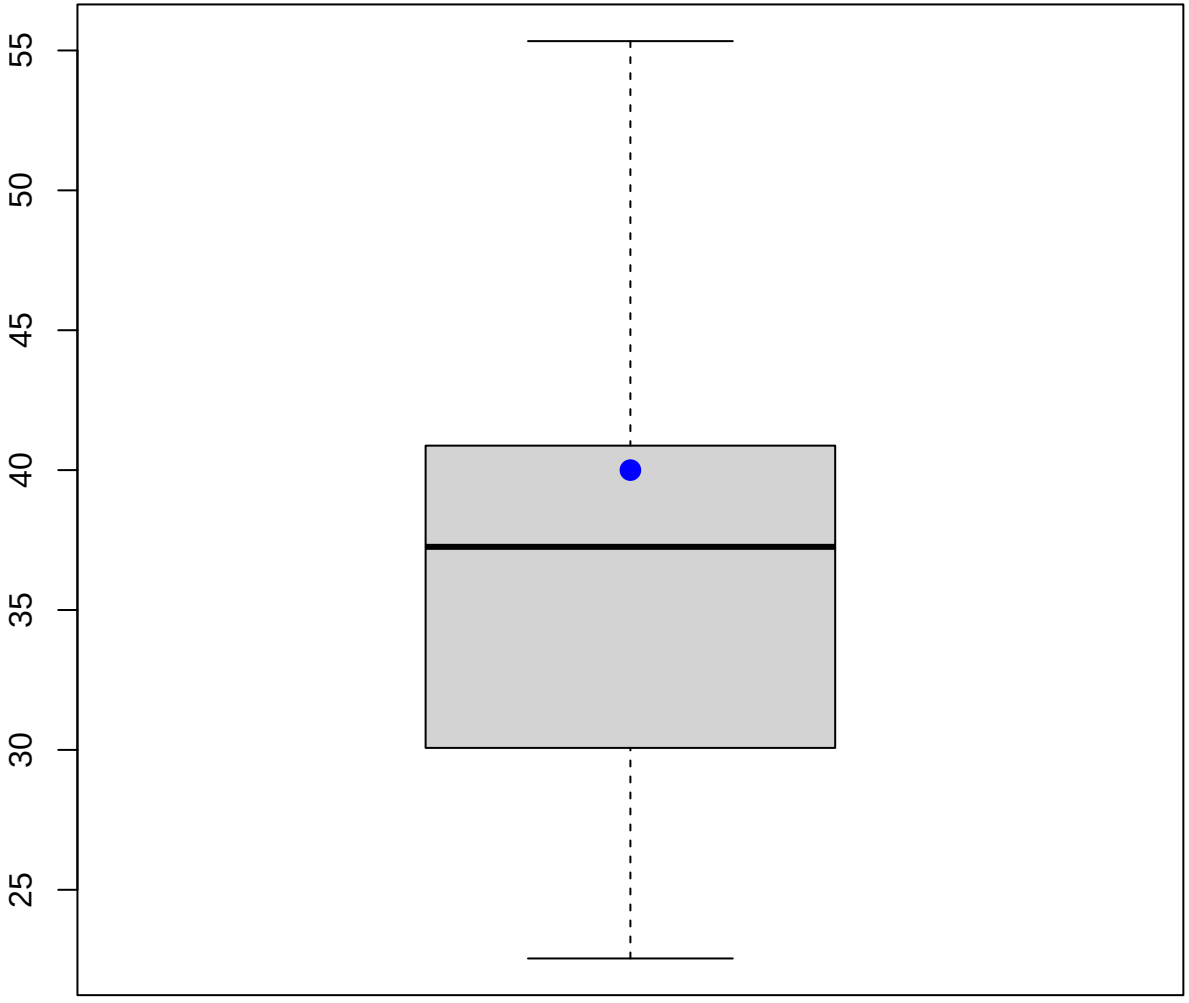
30
40
50
time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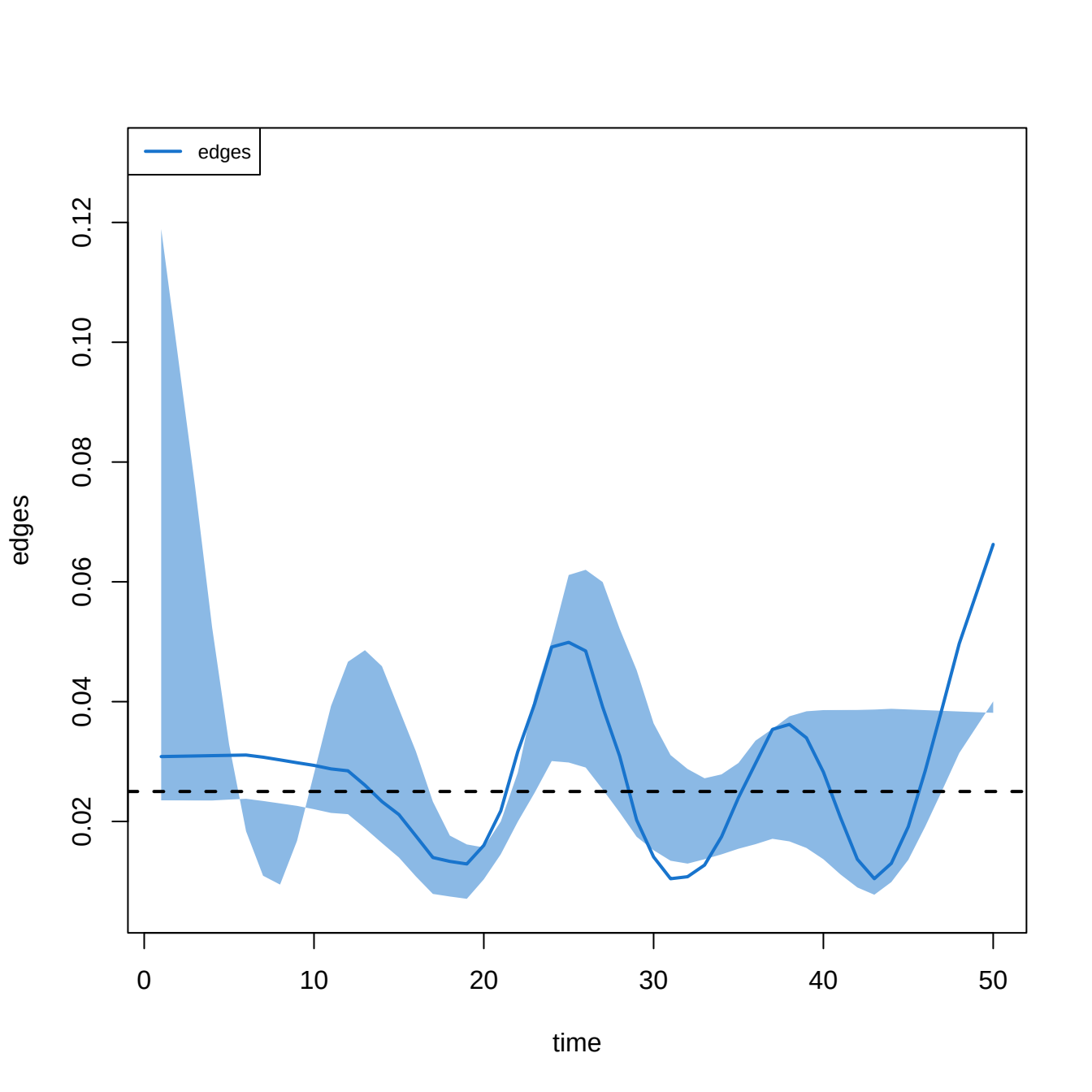
edges
edges
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0.04
0.06
0.08
0.10
0.12
0
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30
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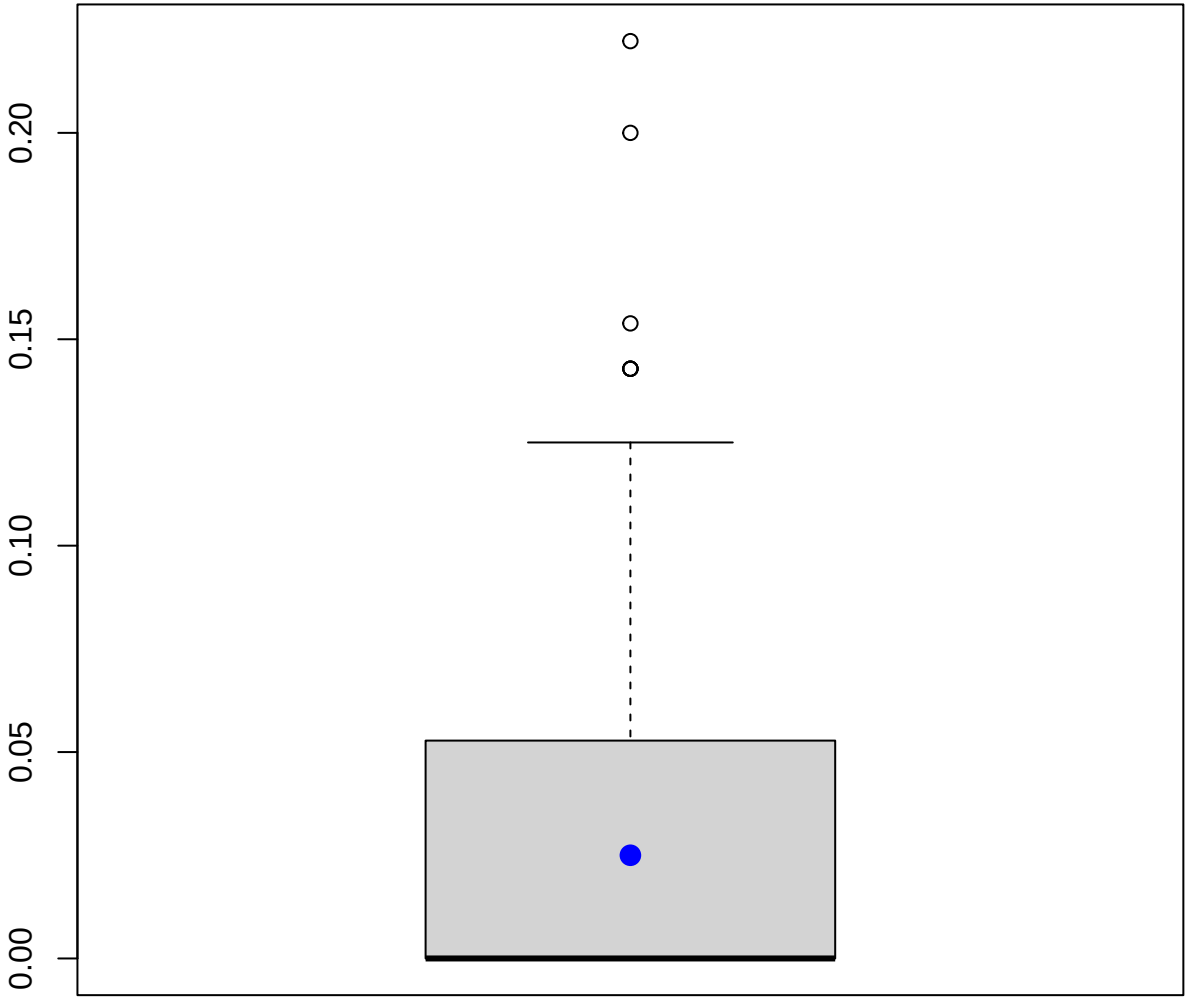
50
time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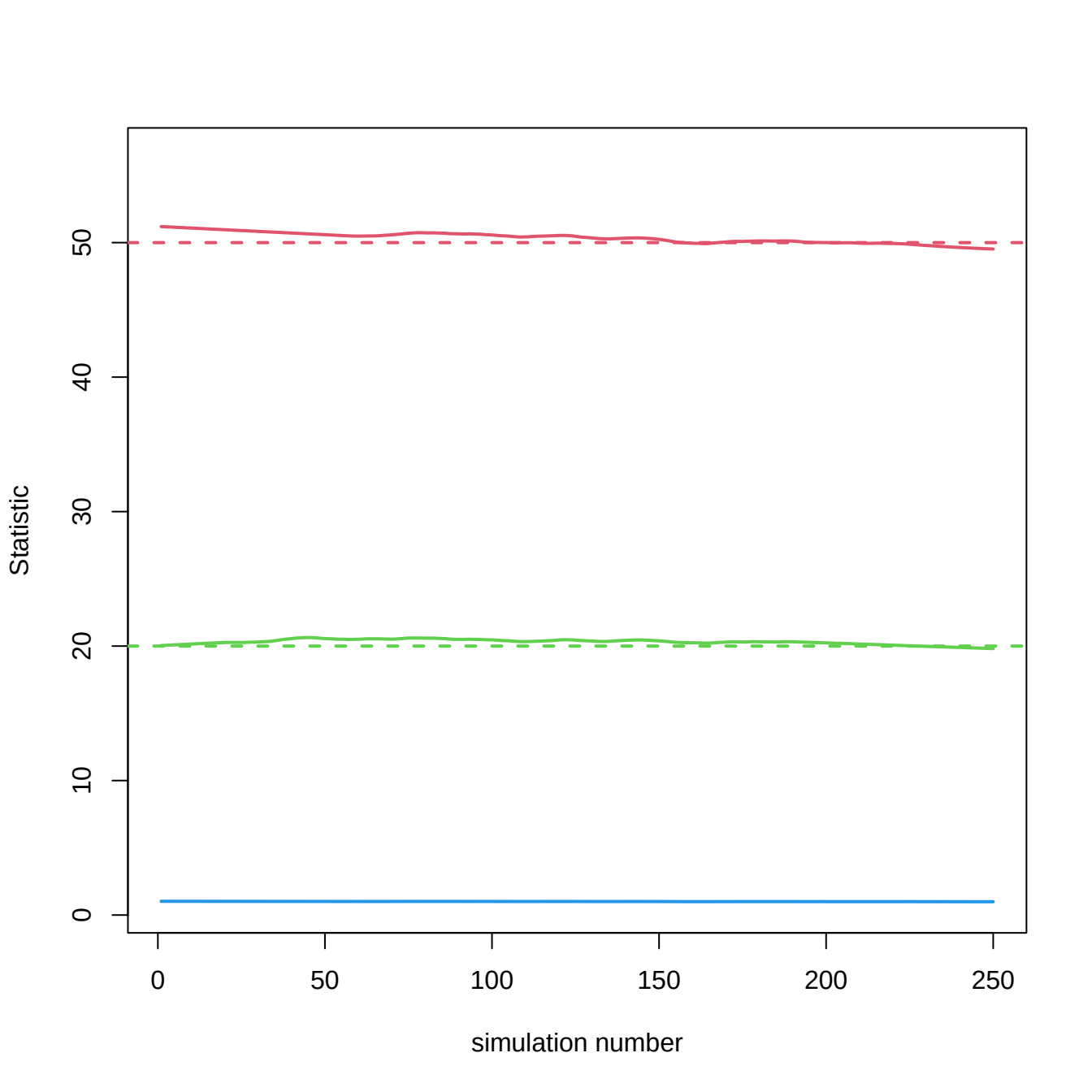
Statistic
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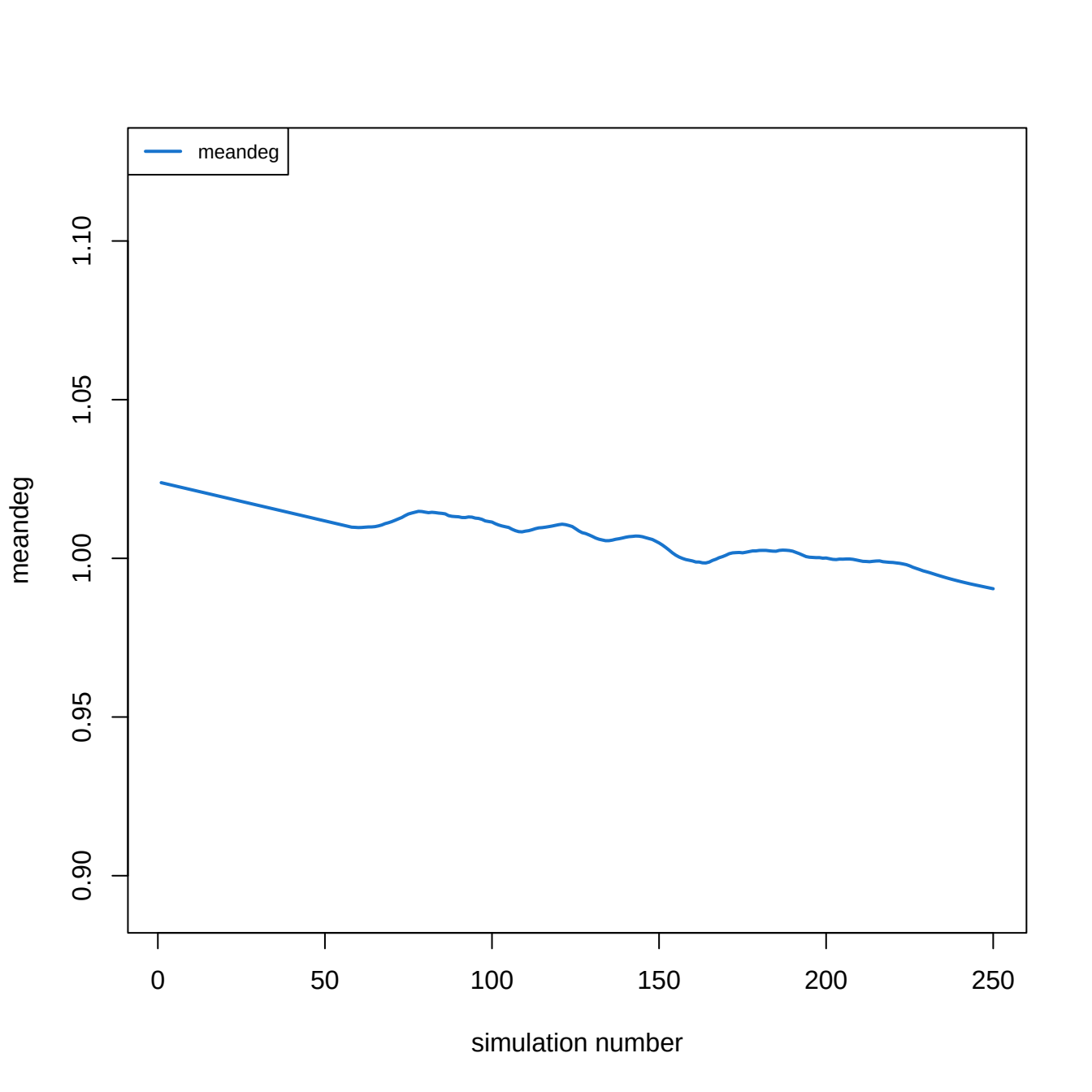
0
50
100
150
200
250
simulation number


meandeg
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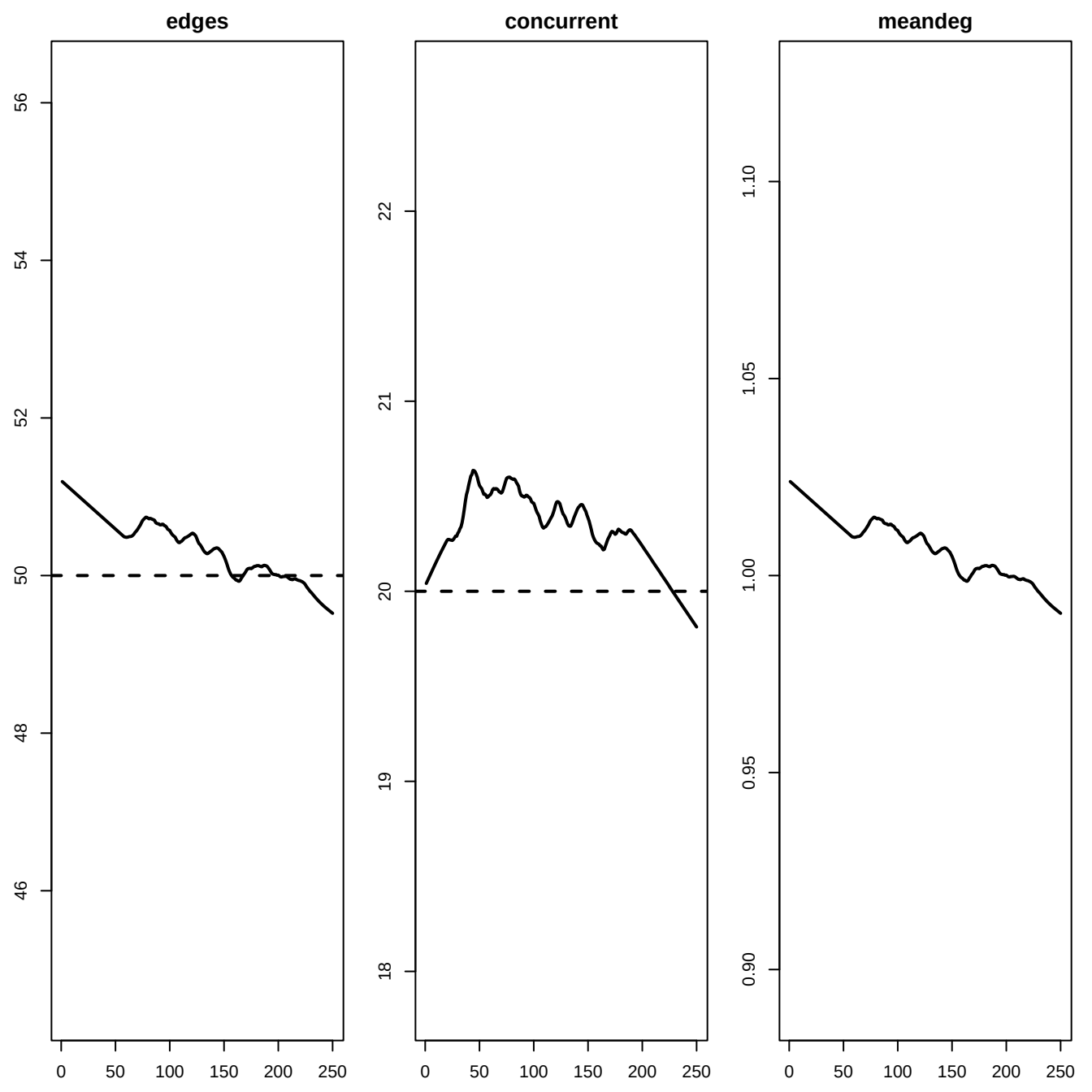
1.05
1.00
0.95
0.90
meandeg
0
50
100
150
200
250
simulation number


edges
concurrent
meandeg
56
54
52
50
48
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19
18
1.10
1.05
1.00
0.95
0.90
0
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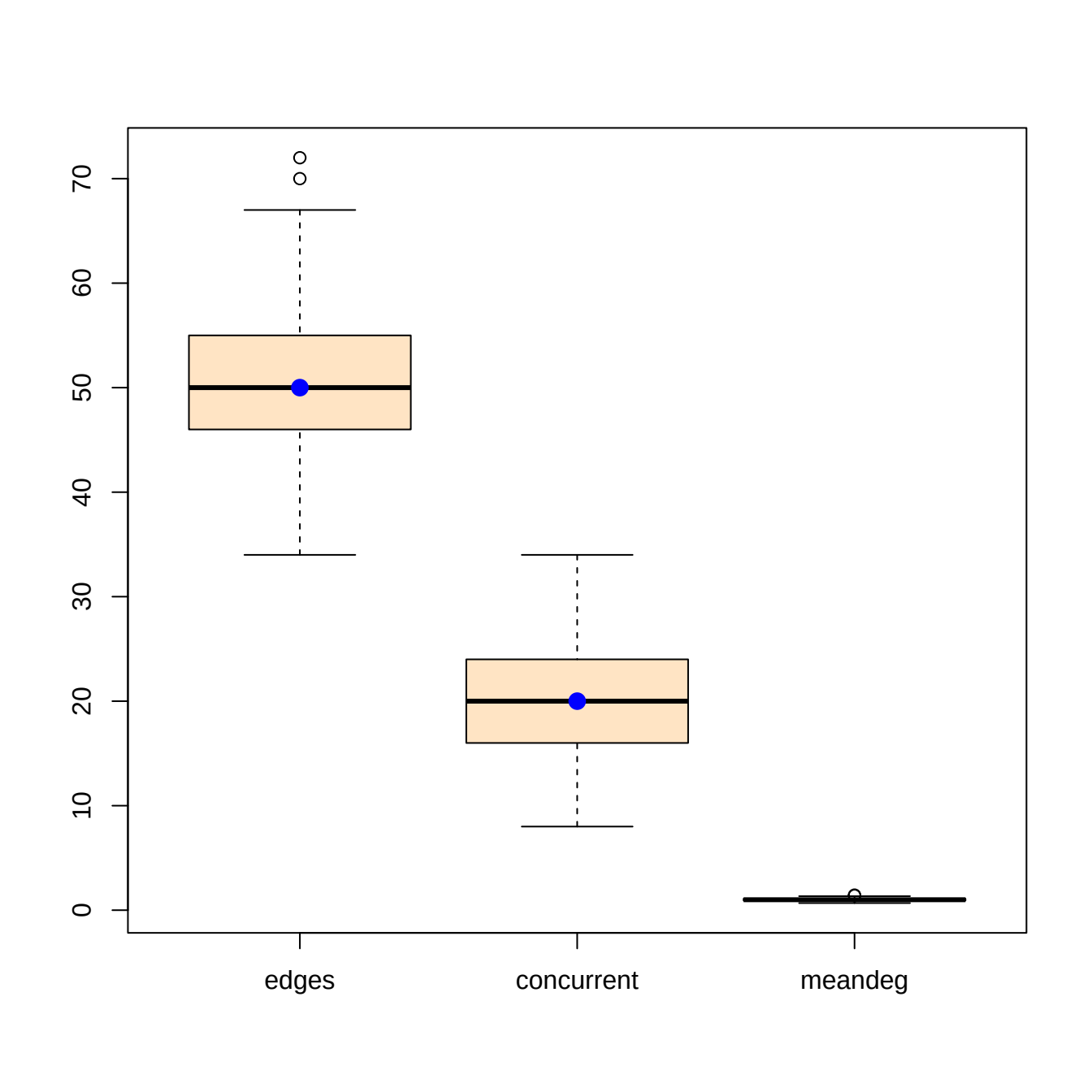
100
150
200
250


0
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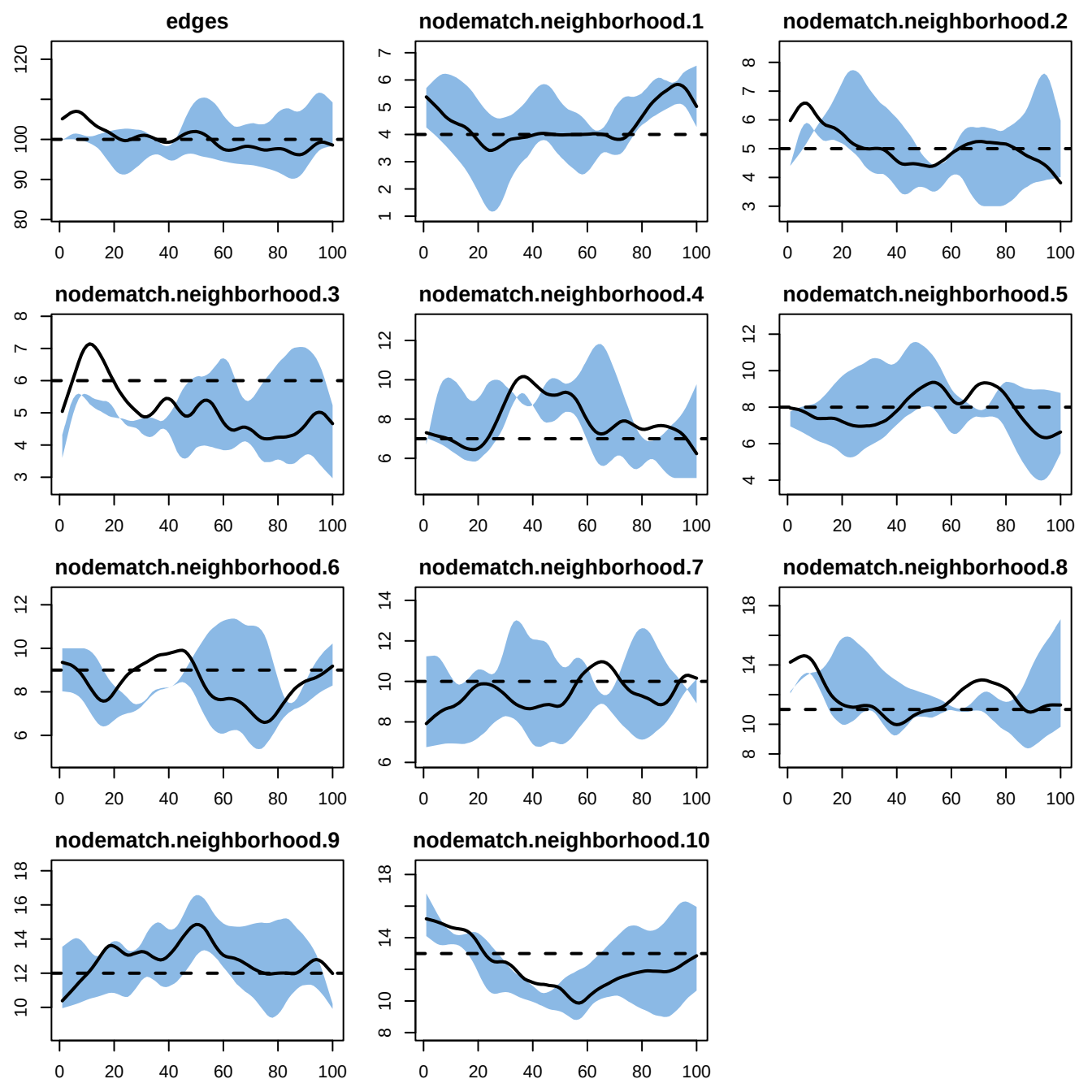
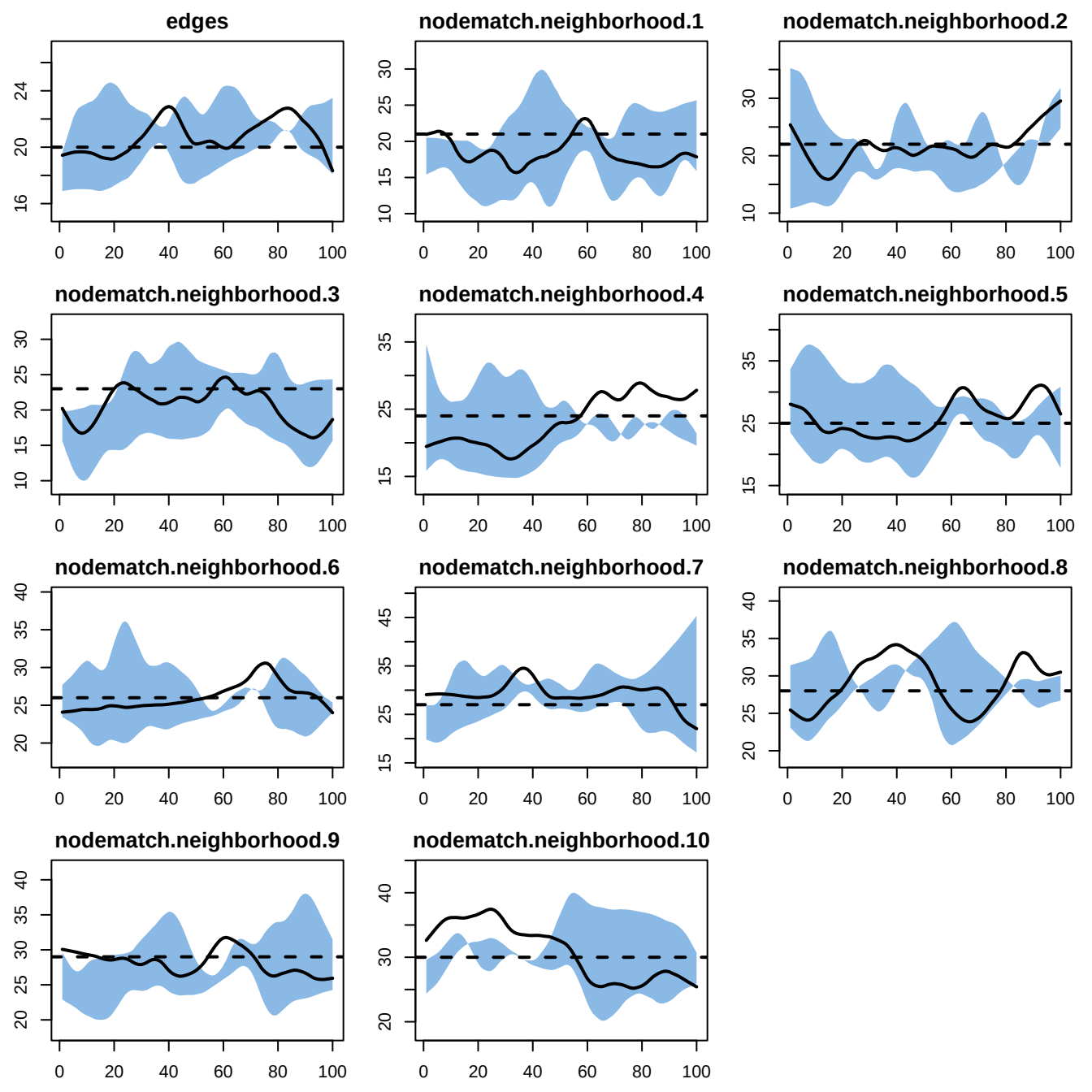
30
40
50
60
70
edges
concurrent
meandeg


edges
nodematch.neighborhood.1
nodematch.neighborhood.2
nodematch.neighborhood.3
nodematch.neighborhood.4
nodematch.neighborhood.5
nodematch.neighborhood.6
nodematch.neighborhood.7
nodematch.neighborhood.8
nodematch.neighborhood.9
nodematch.neighborhood.10


edges
nodematch.neighborhood.1
nodematch.neighborhood.2
nodematch.neighborhood.3
nodematch.neighborhood.4
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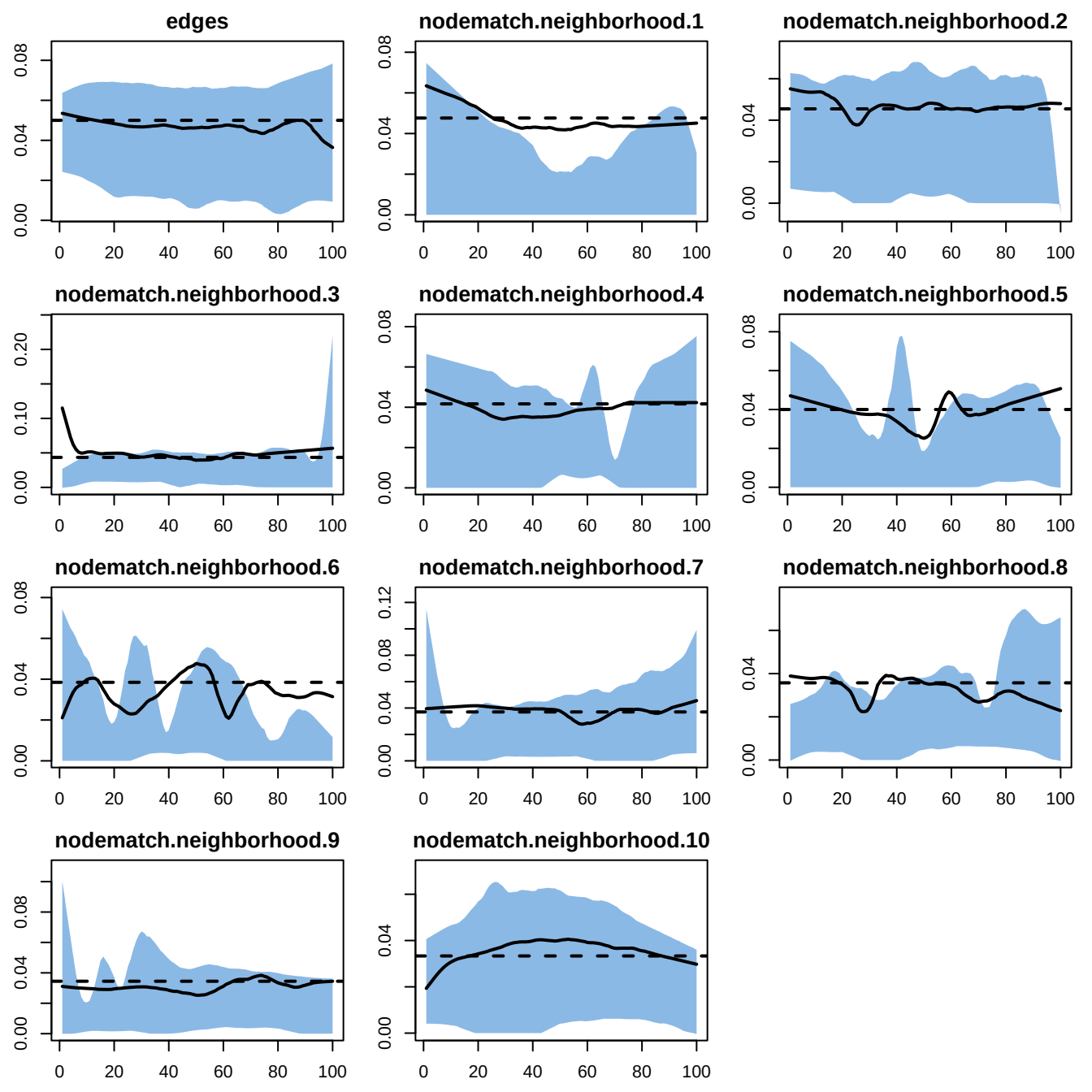
nodematch.neighborhood.8
nodematch.neighborhood.9
nodematch.neighborhood.10


edges
nodematch.neighborhood.1
nodematch.neighborhood.2
nodematch.neighborhood.3
nodematch.neighborhood.4
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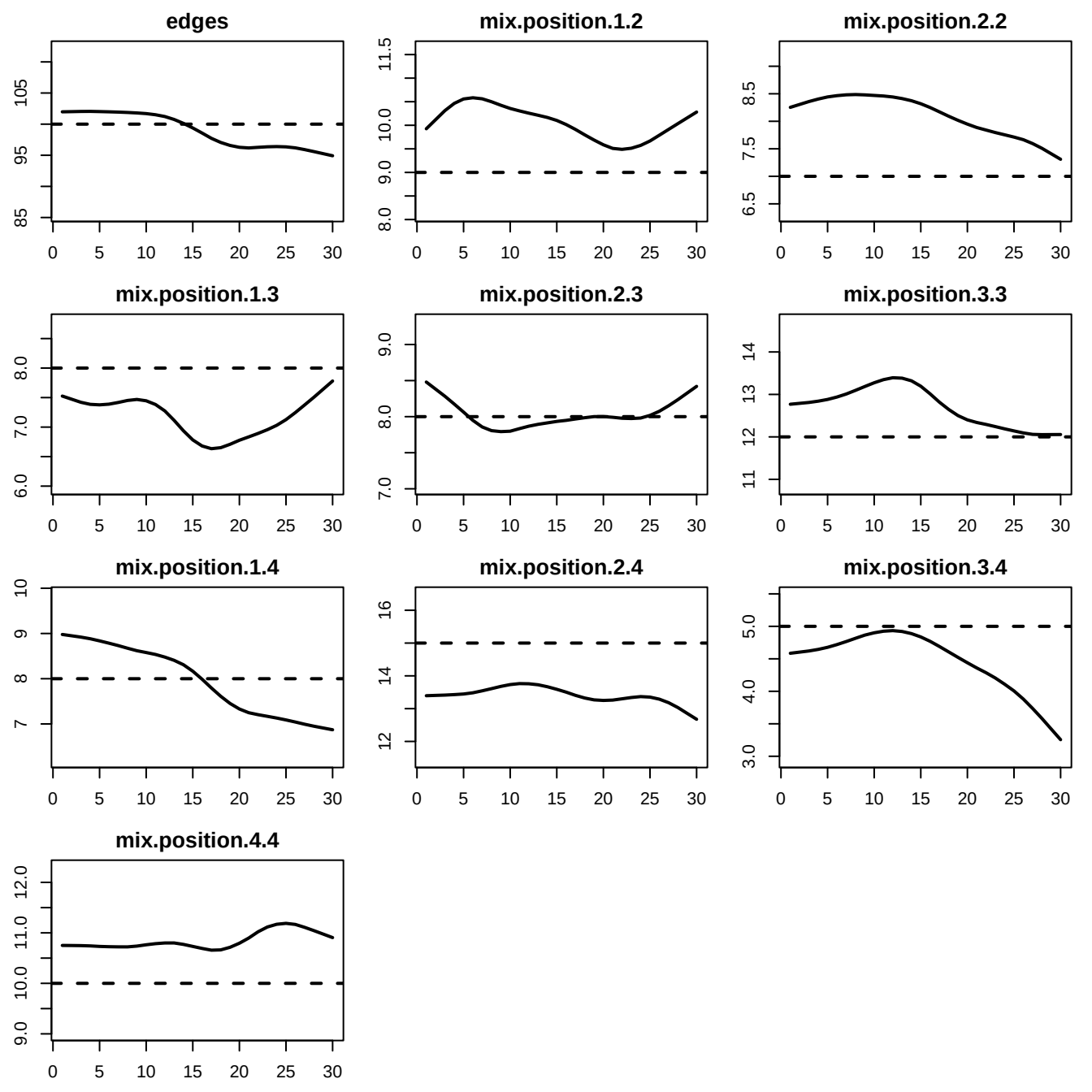
nodematch.neighborhood.9
nodematch.neighborhood.10


edges
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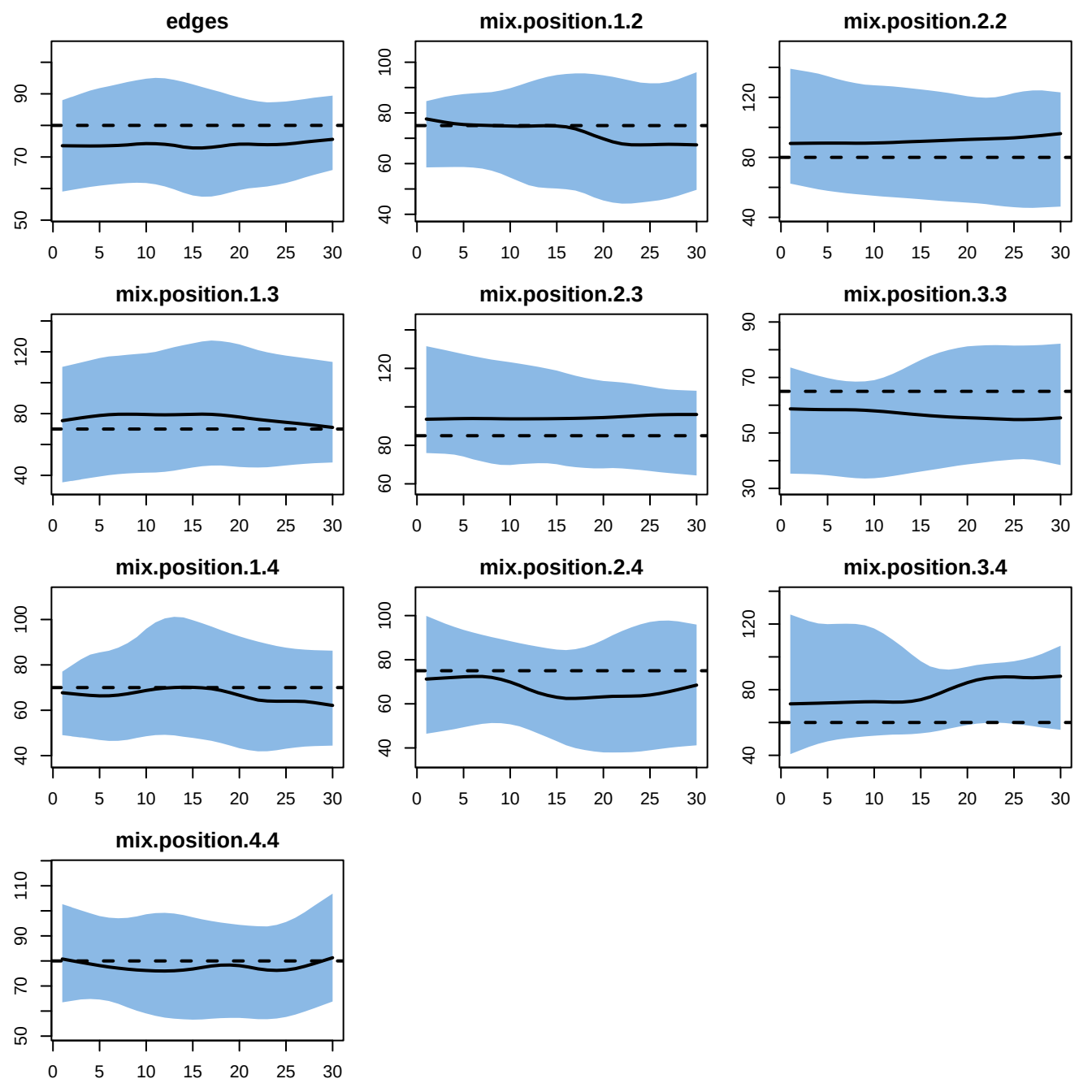
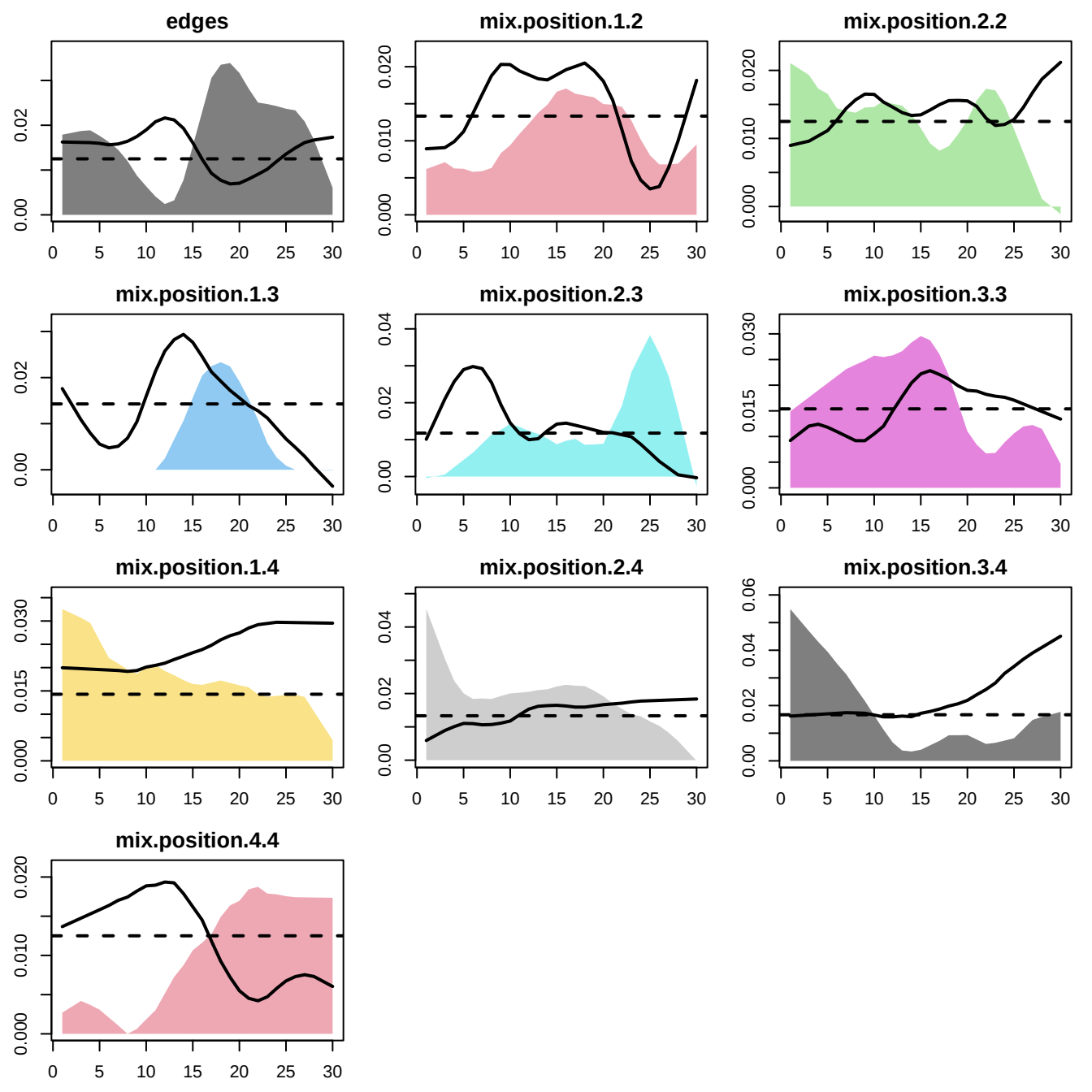
mix.position.2.2
mix.position.1.3
mix.position.2.3
mix.position.3.3
mix.position.1.4
mix.position.2.4
mix.position.3.4
mix.position.4.4


edges
mix.position.1.2
mix.position.2.2
mix.position.1.3
mix.position.2.3
mix.position.3.3
mix.position.1.4
mix.position.2.4
mix.position.3.4
mix.position.4.4


edges
mix.position.1.2
mix.position.2.2
mix.position.1.3
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mix.position.3.3
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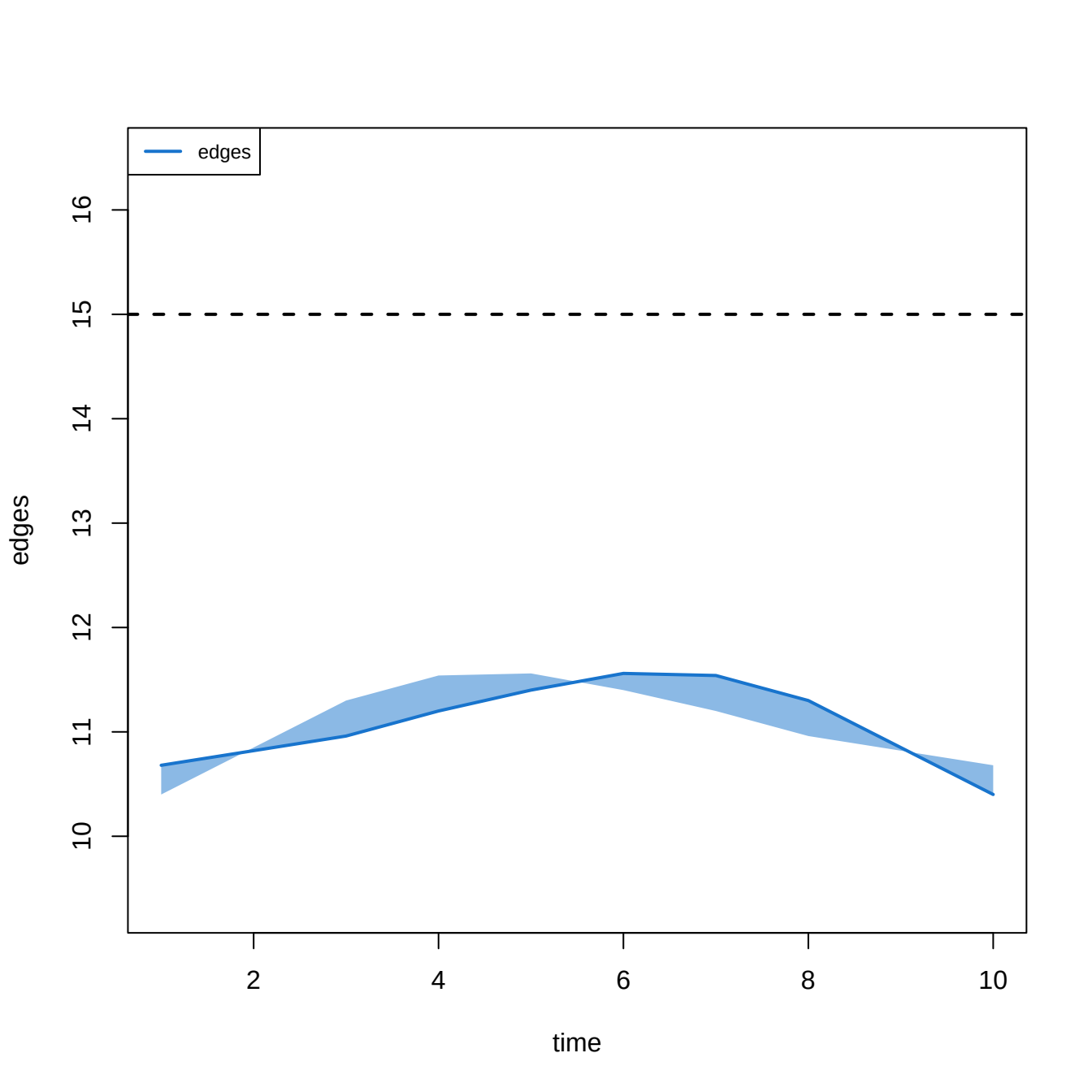
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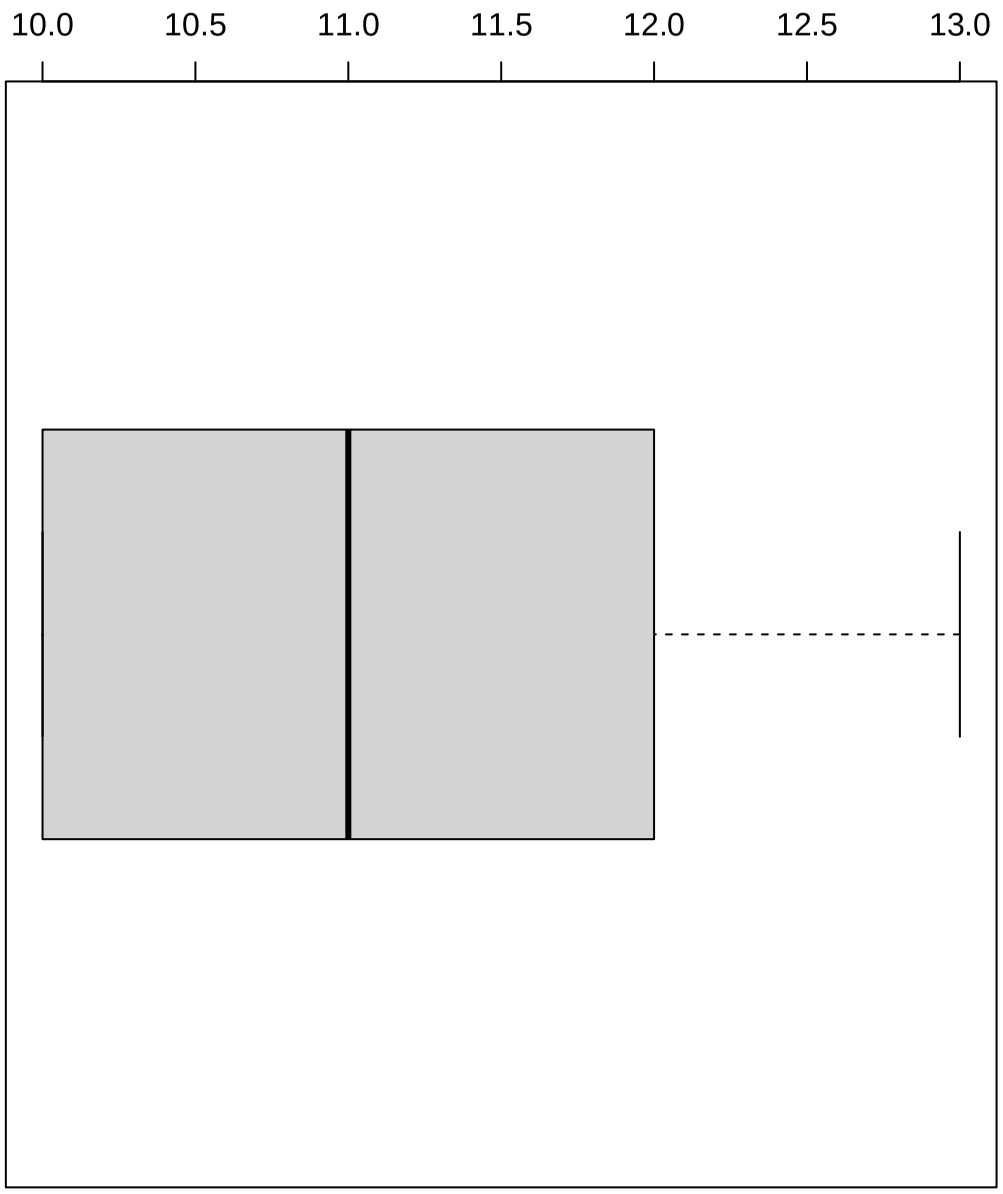
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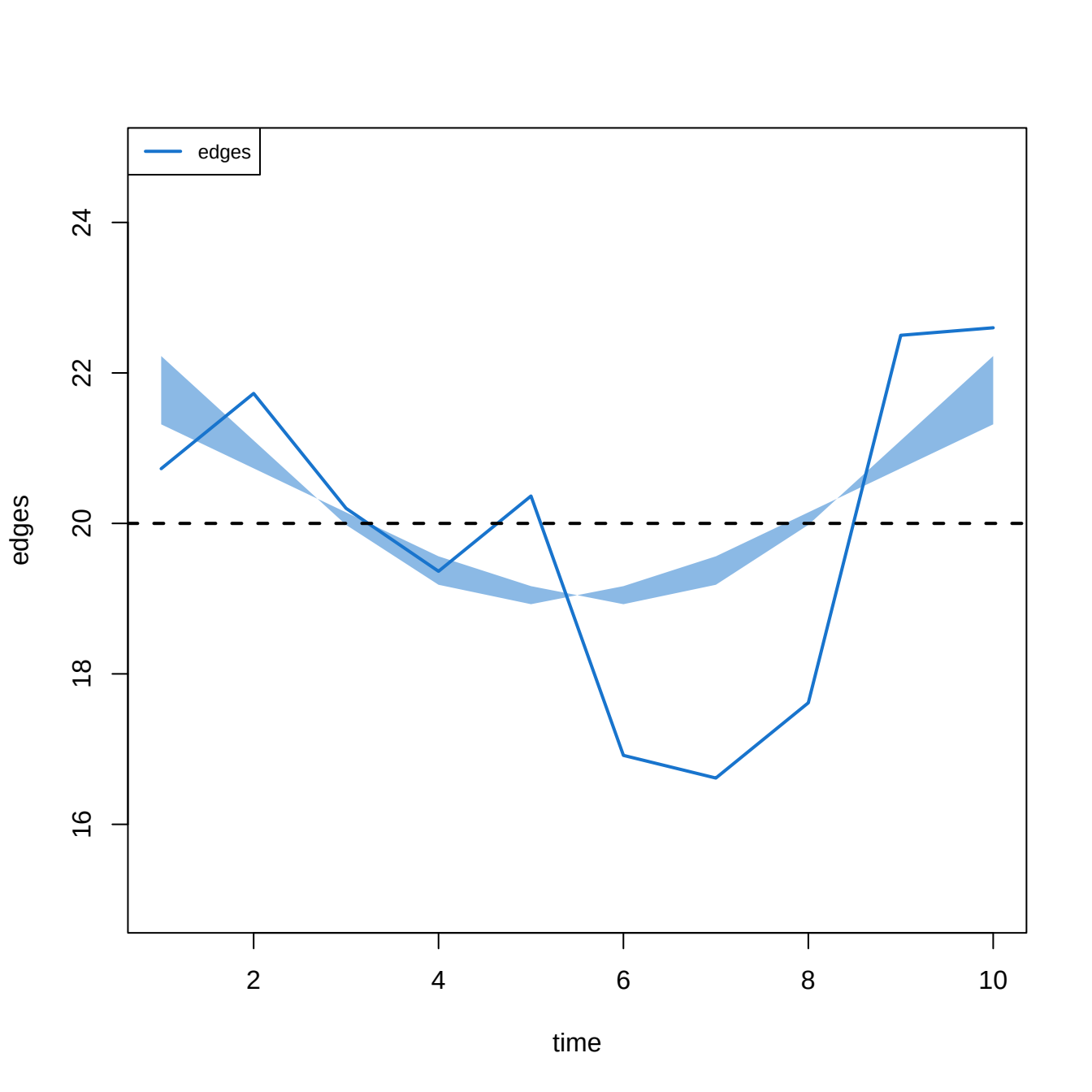
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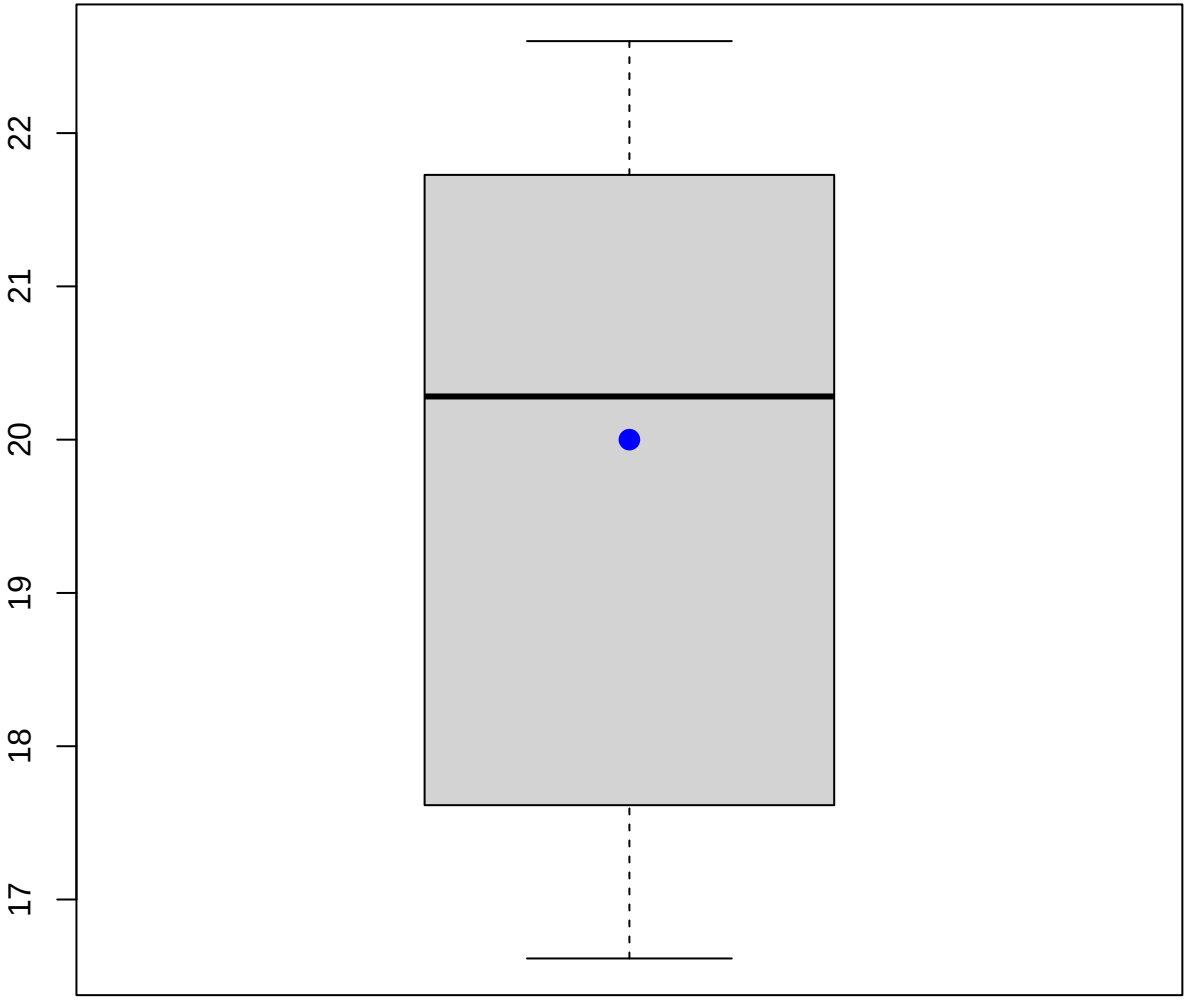
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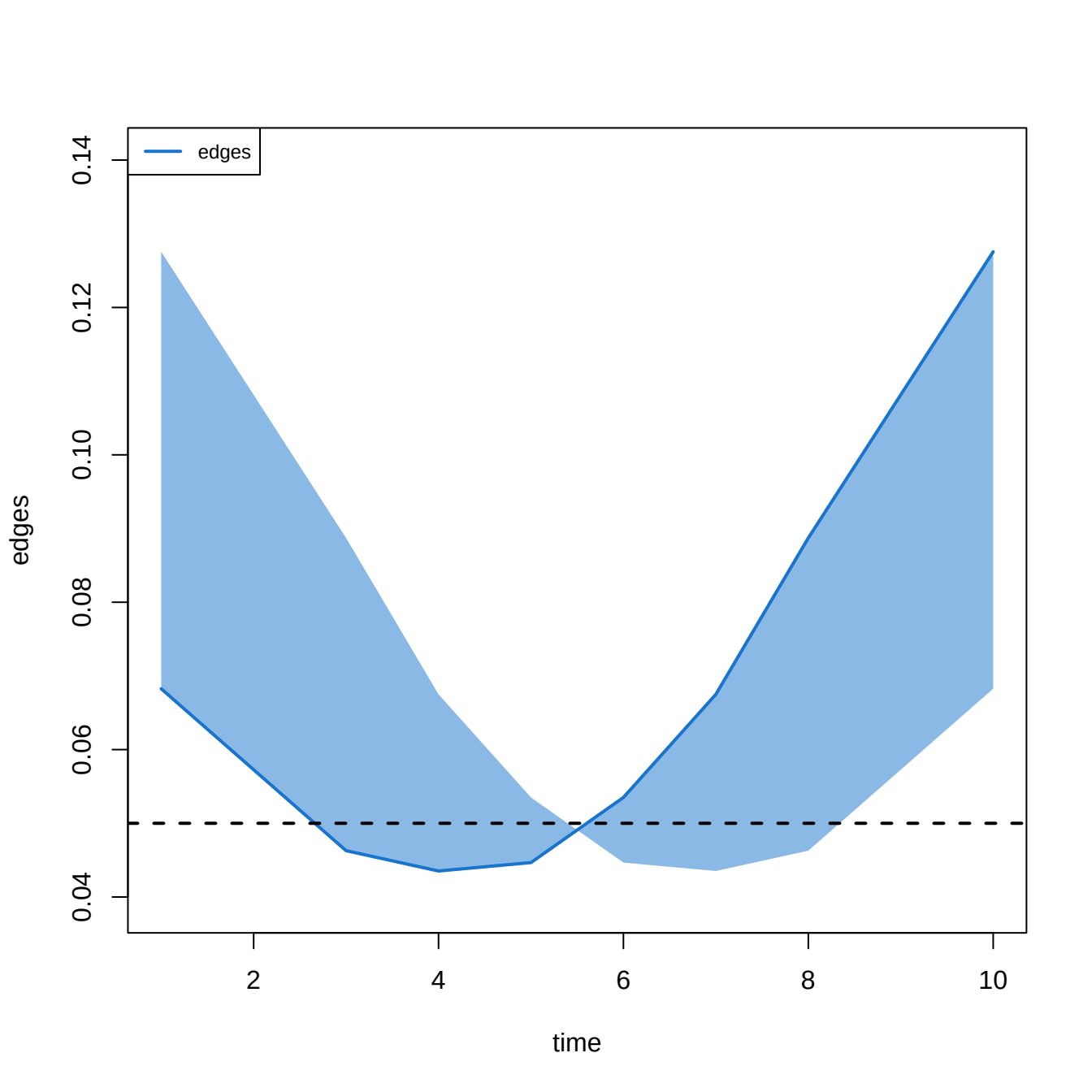
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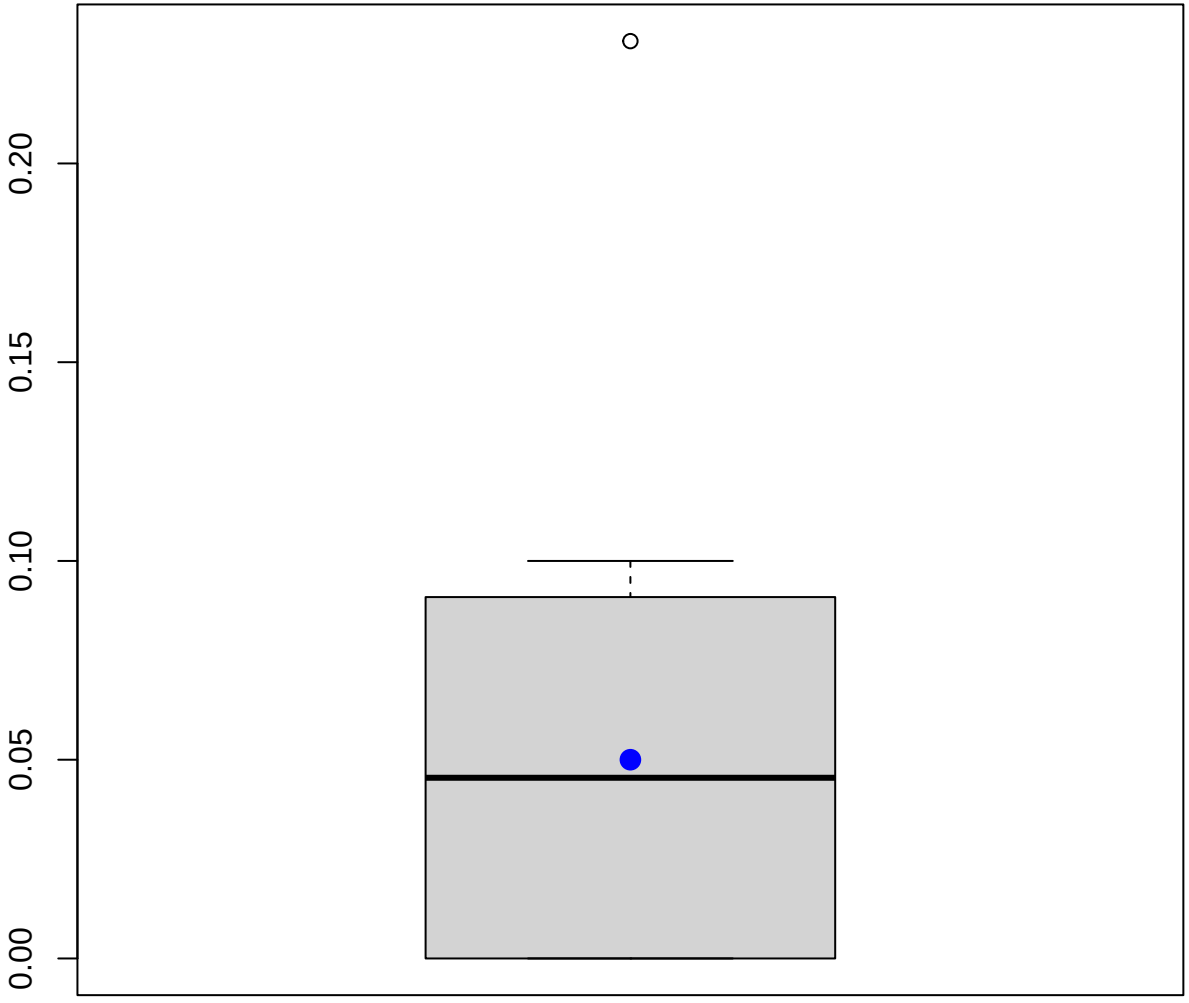
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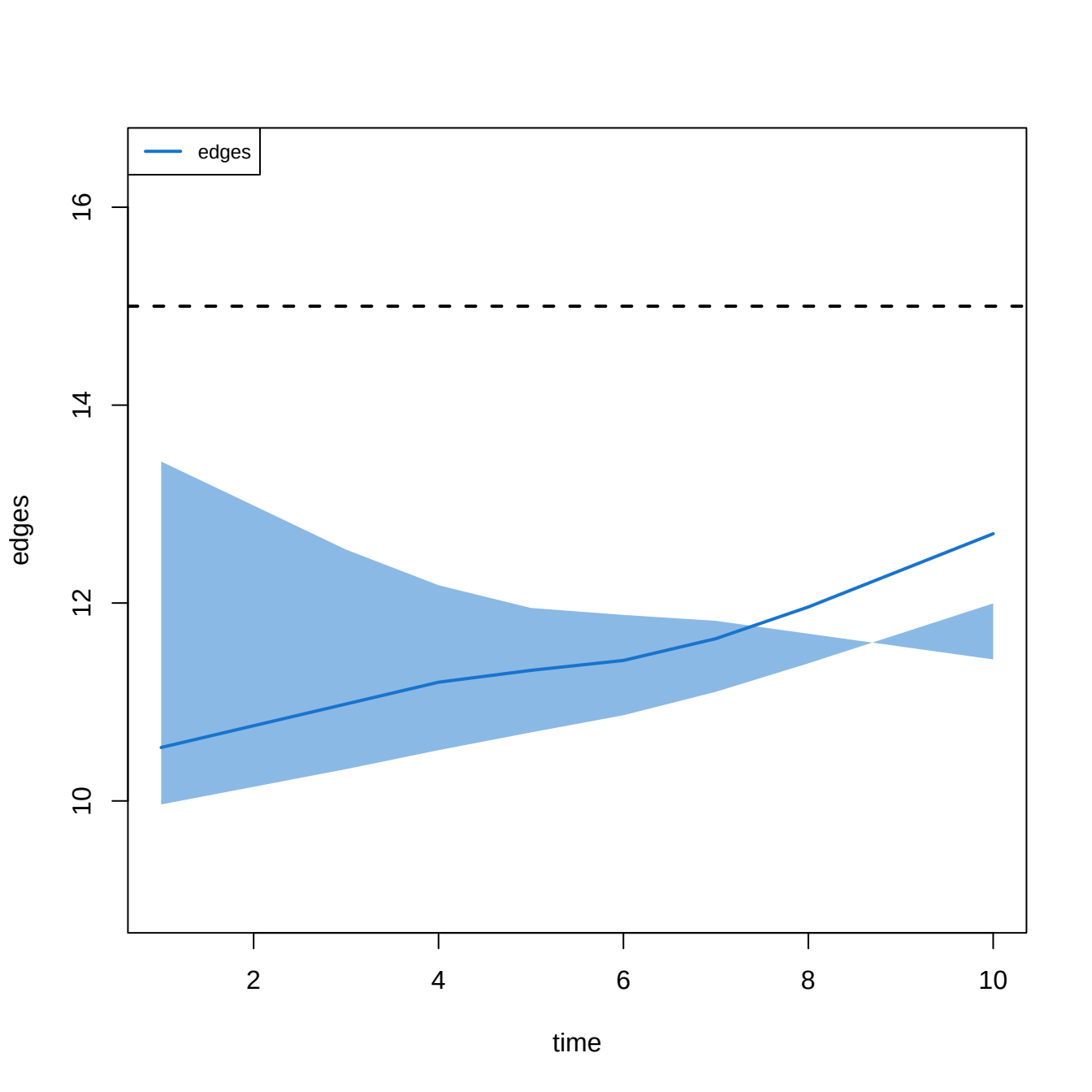
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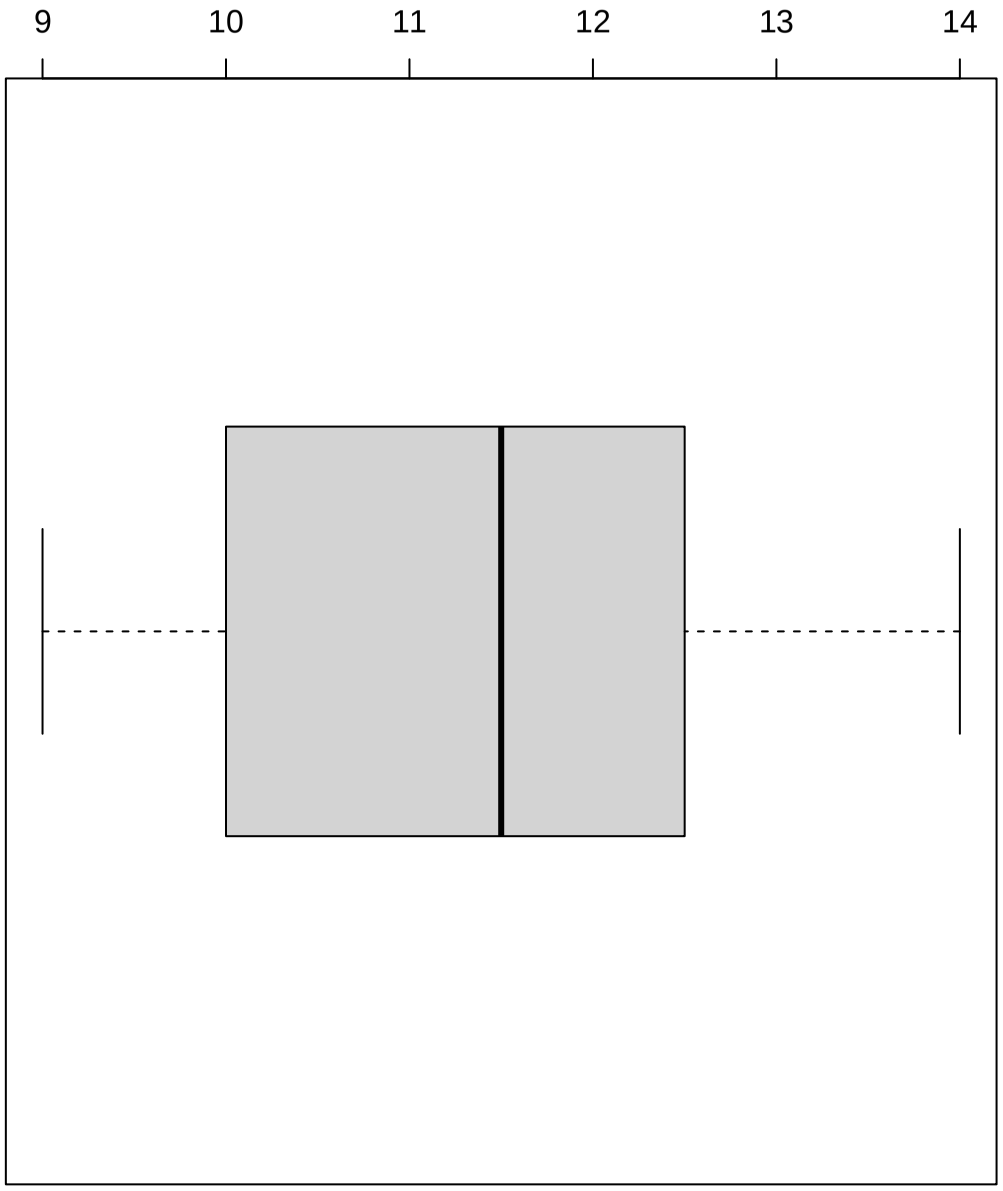
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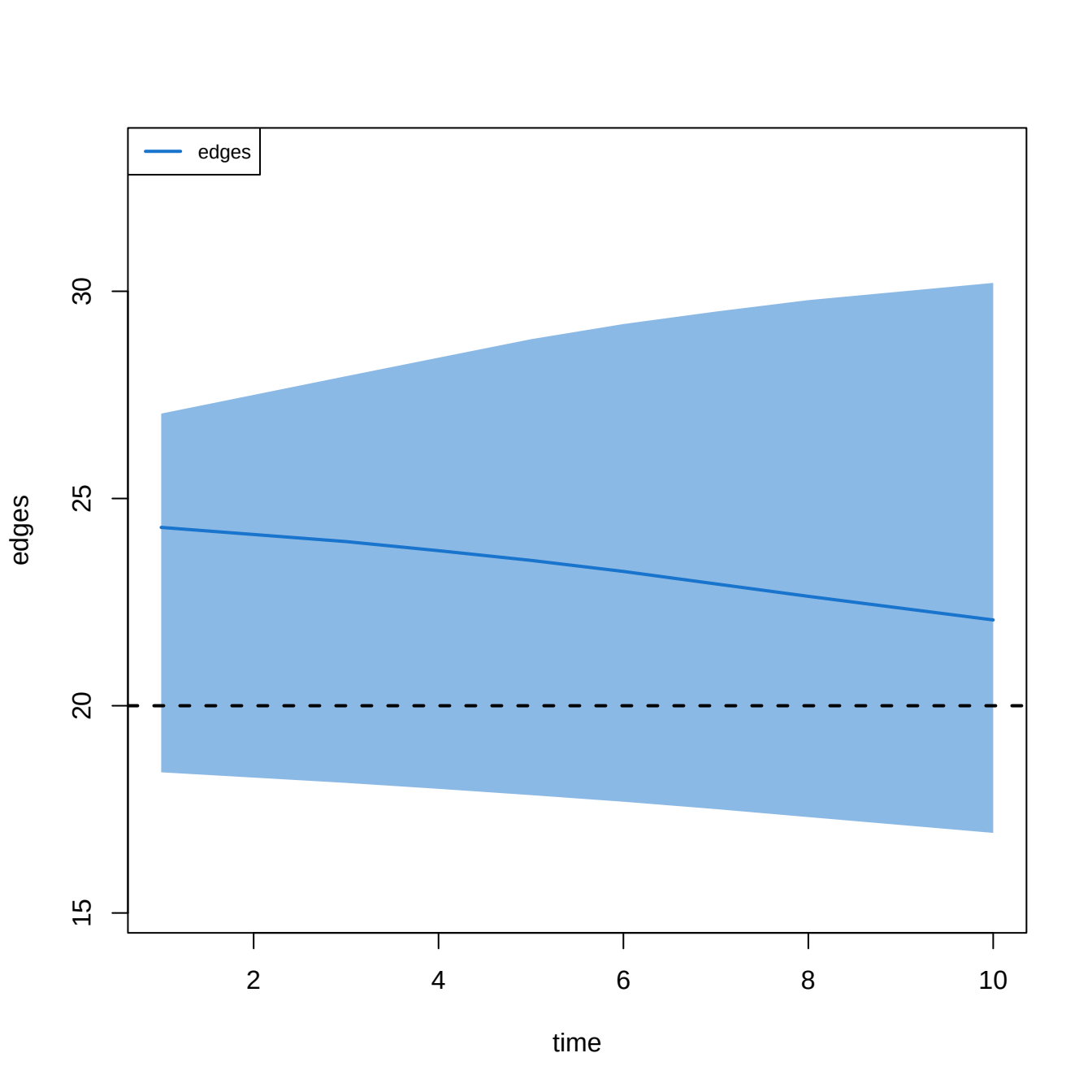
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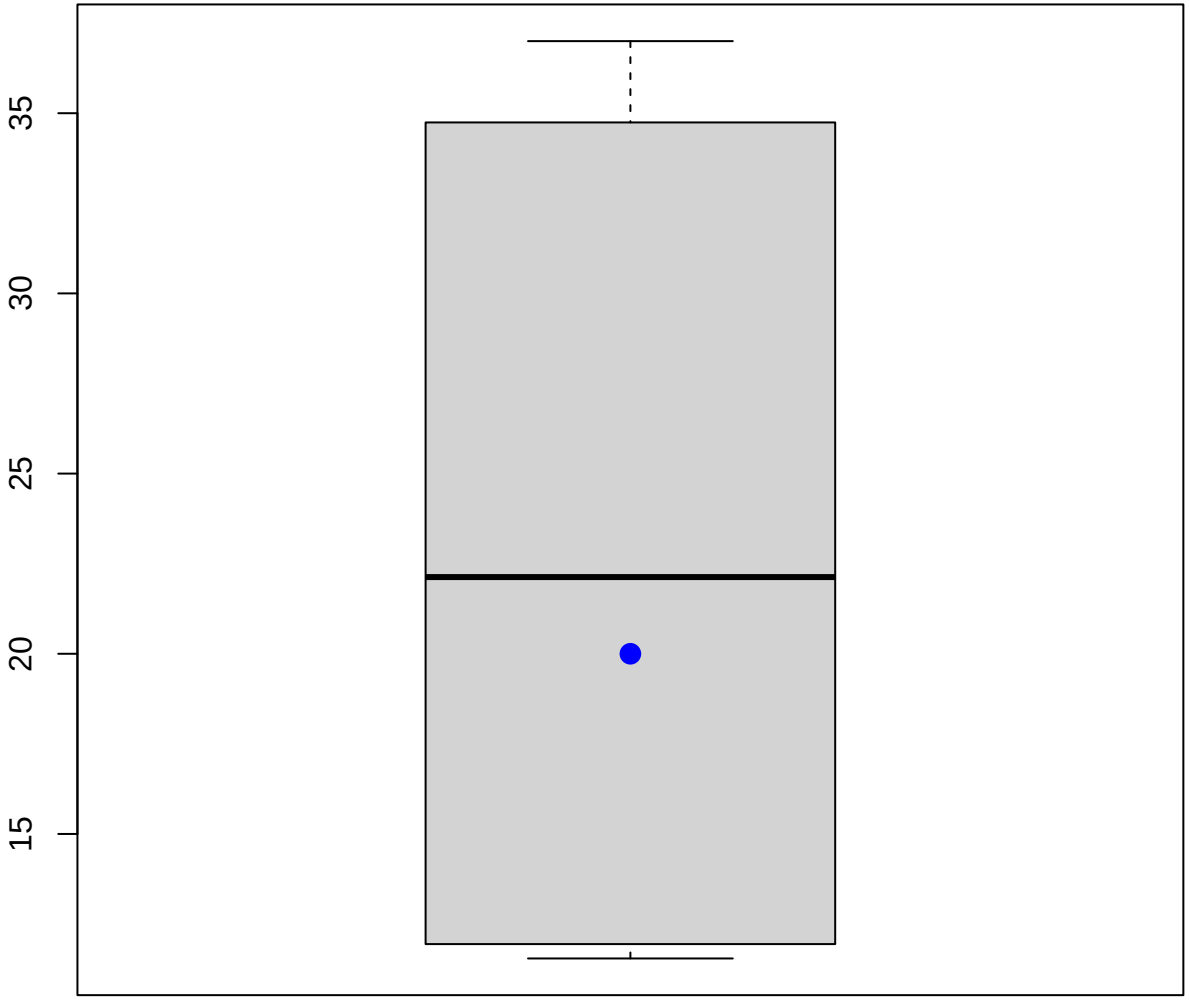
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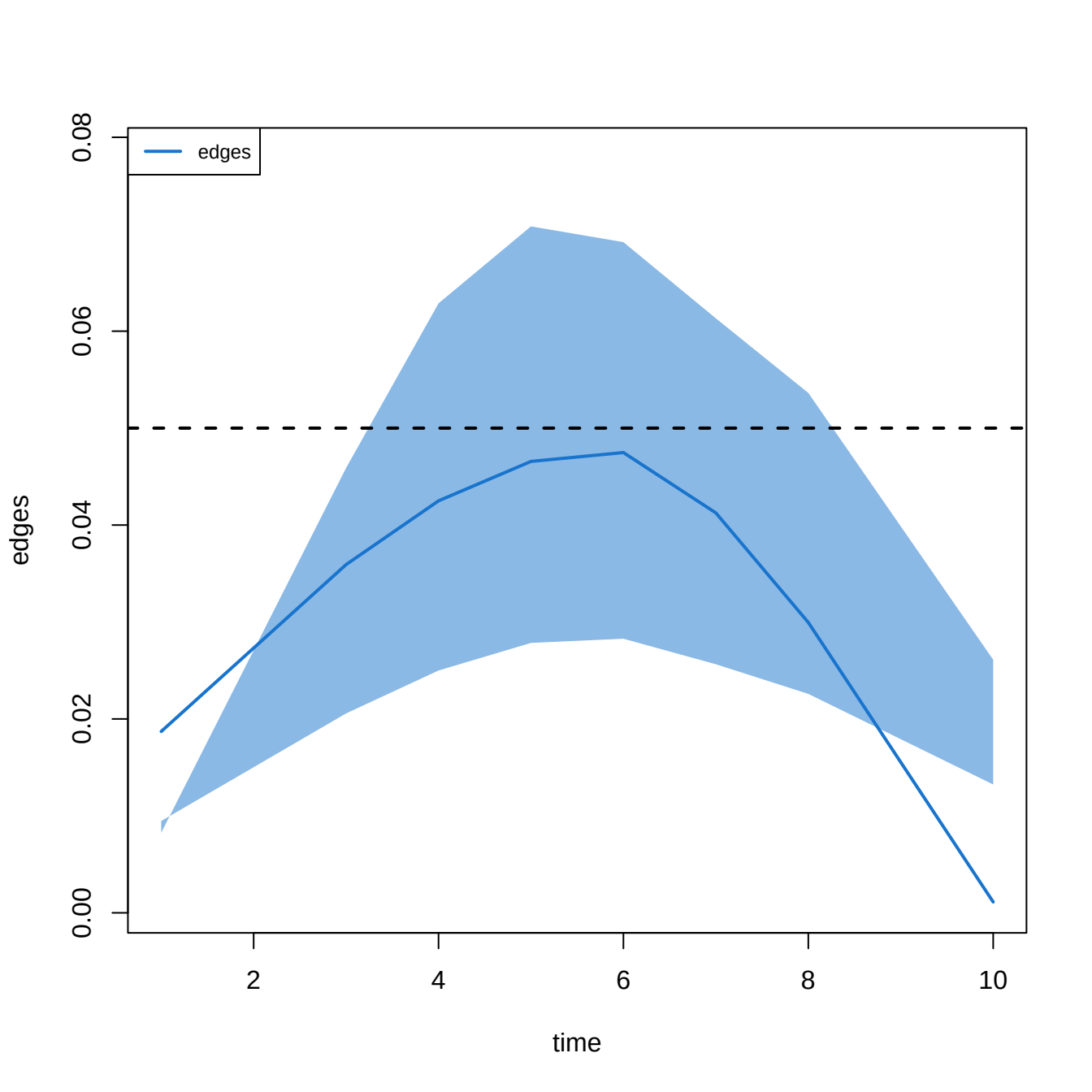
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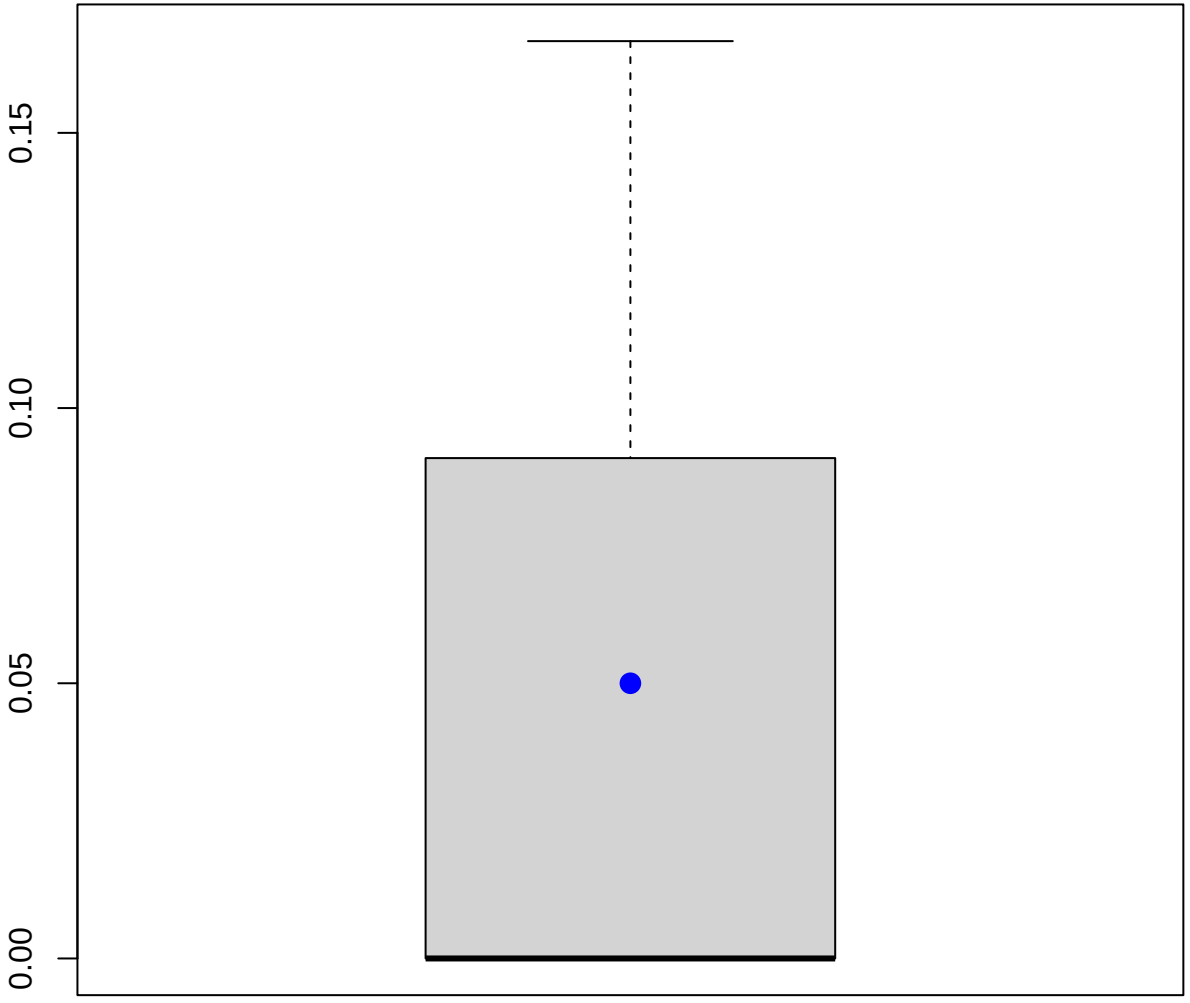
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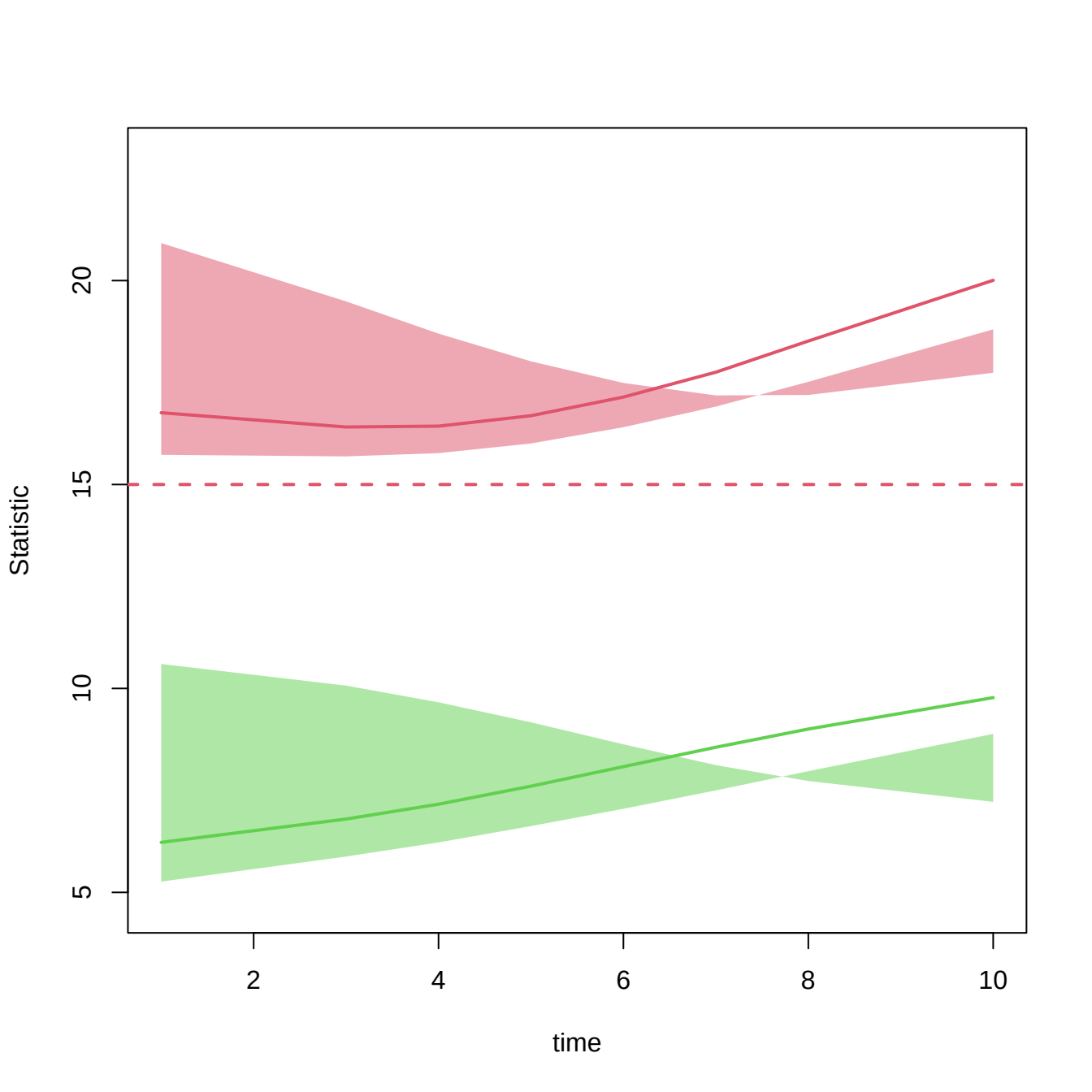
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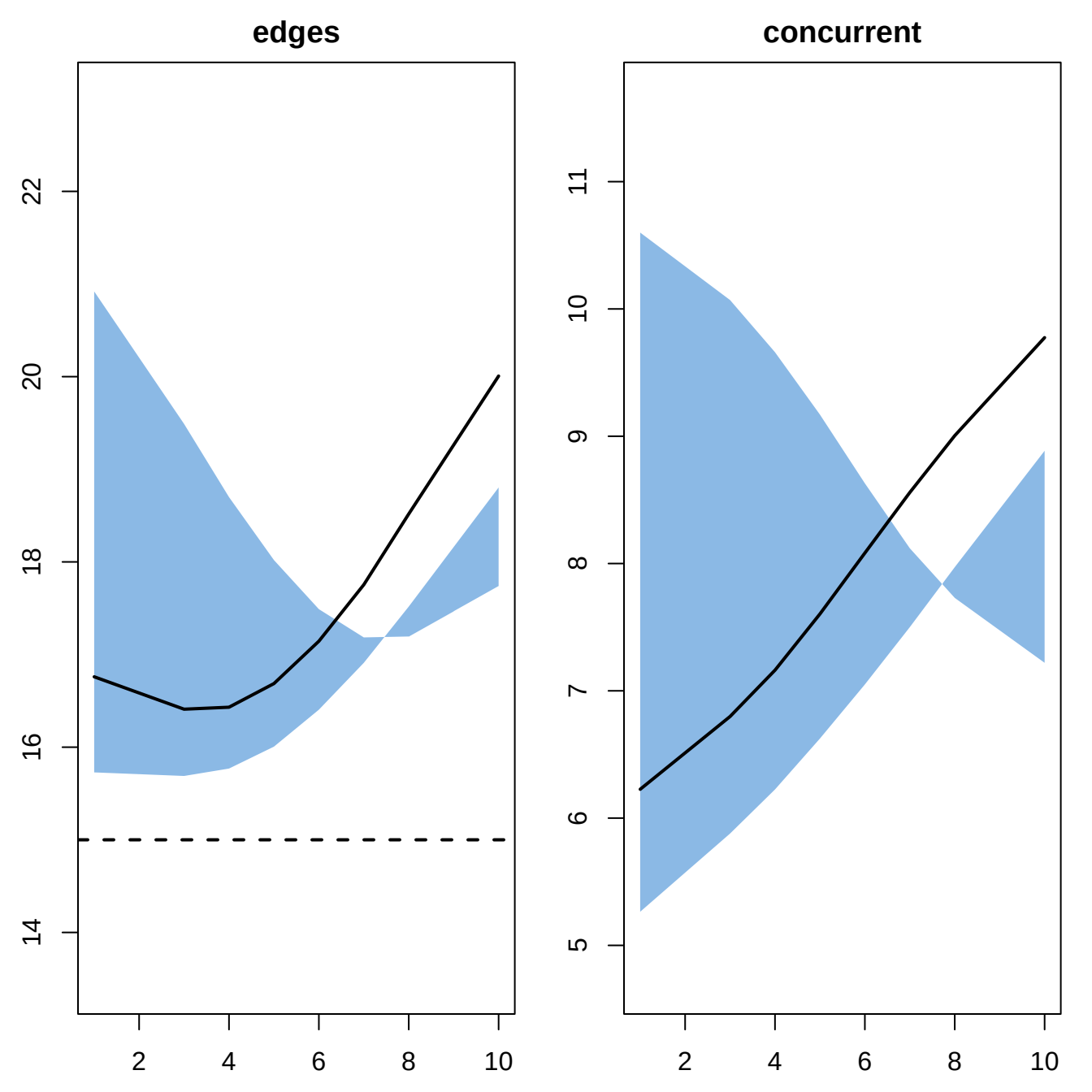
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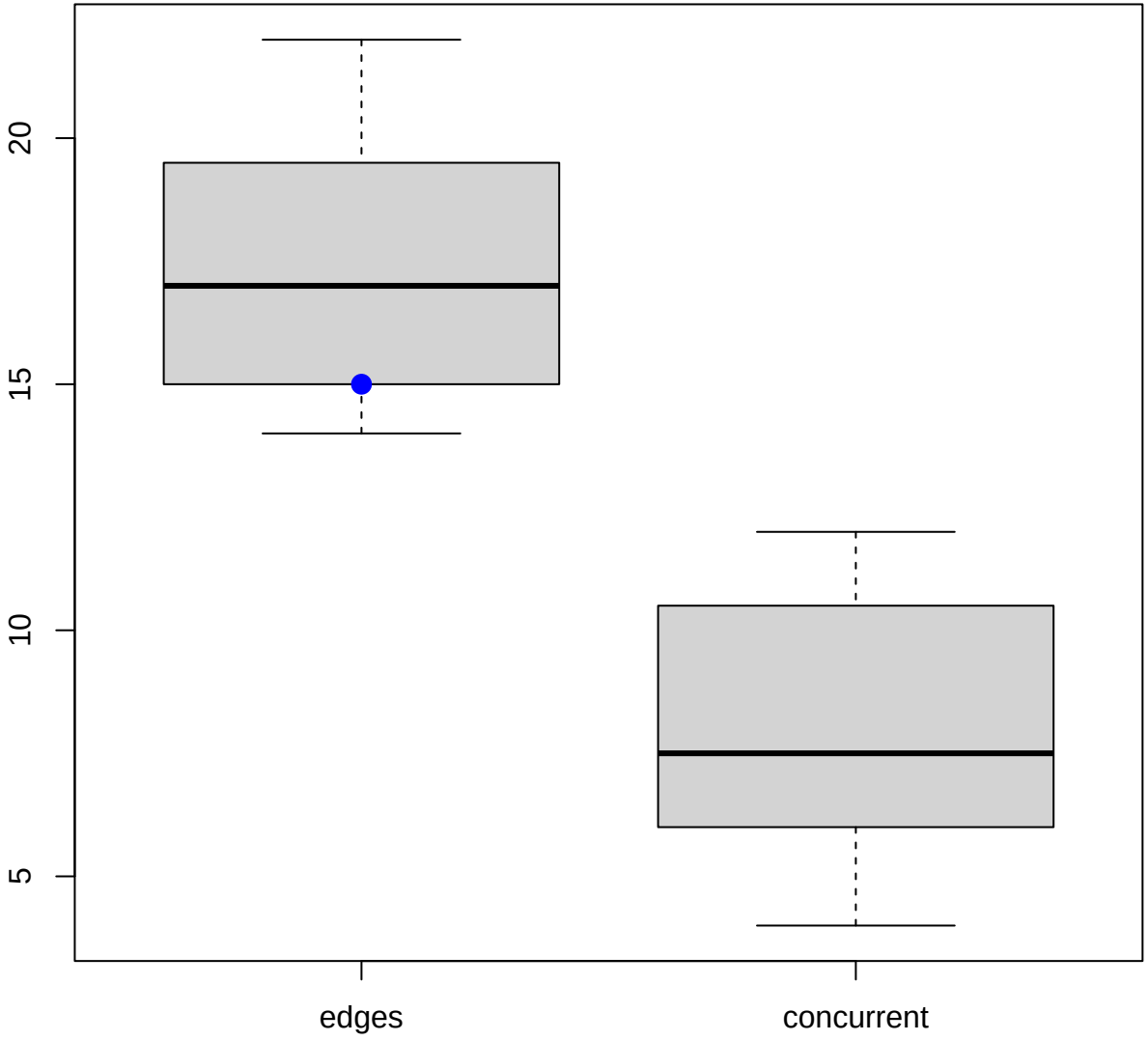
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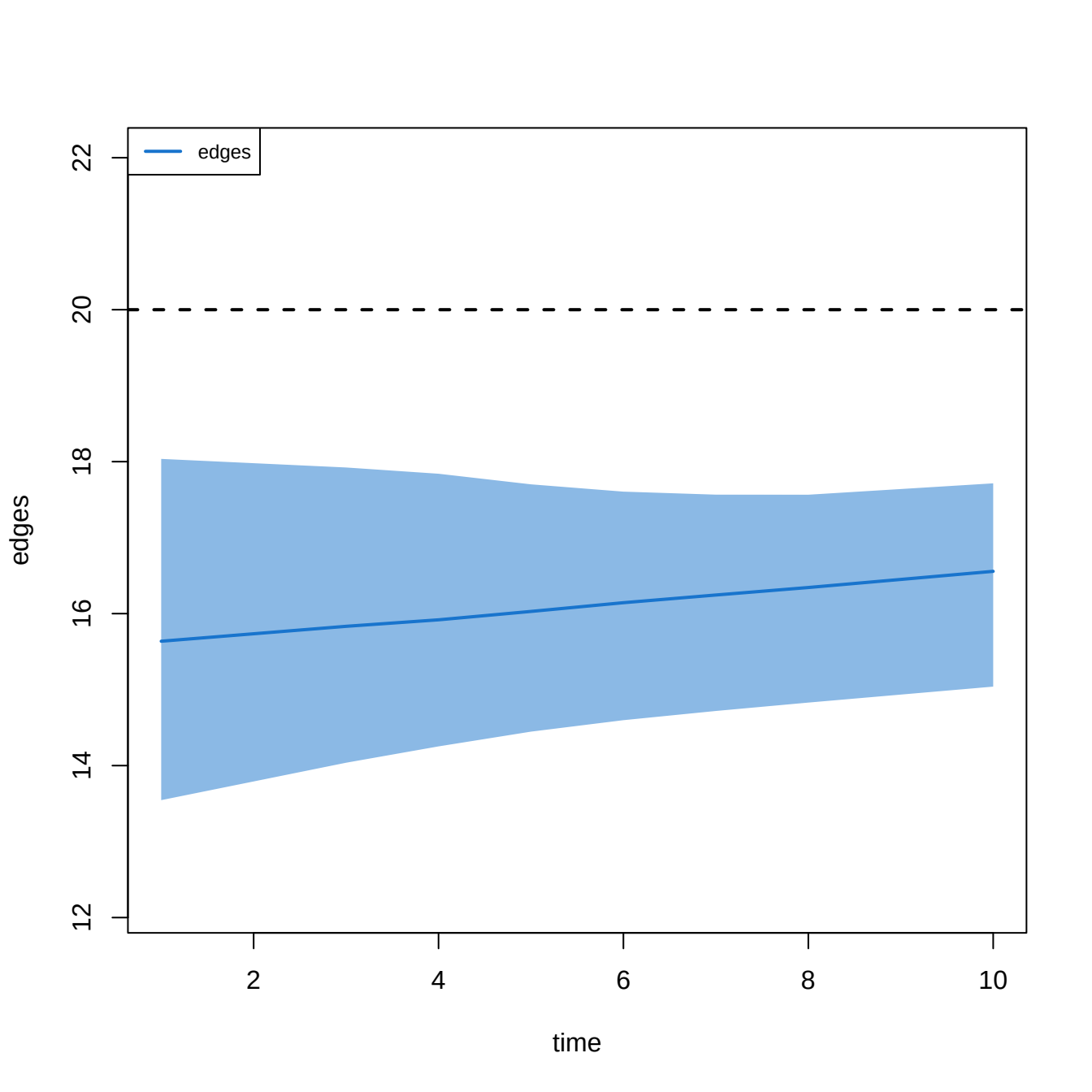
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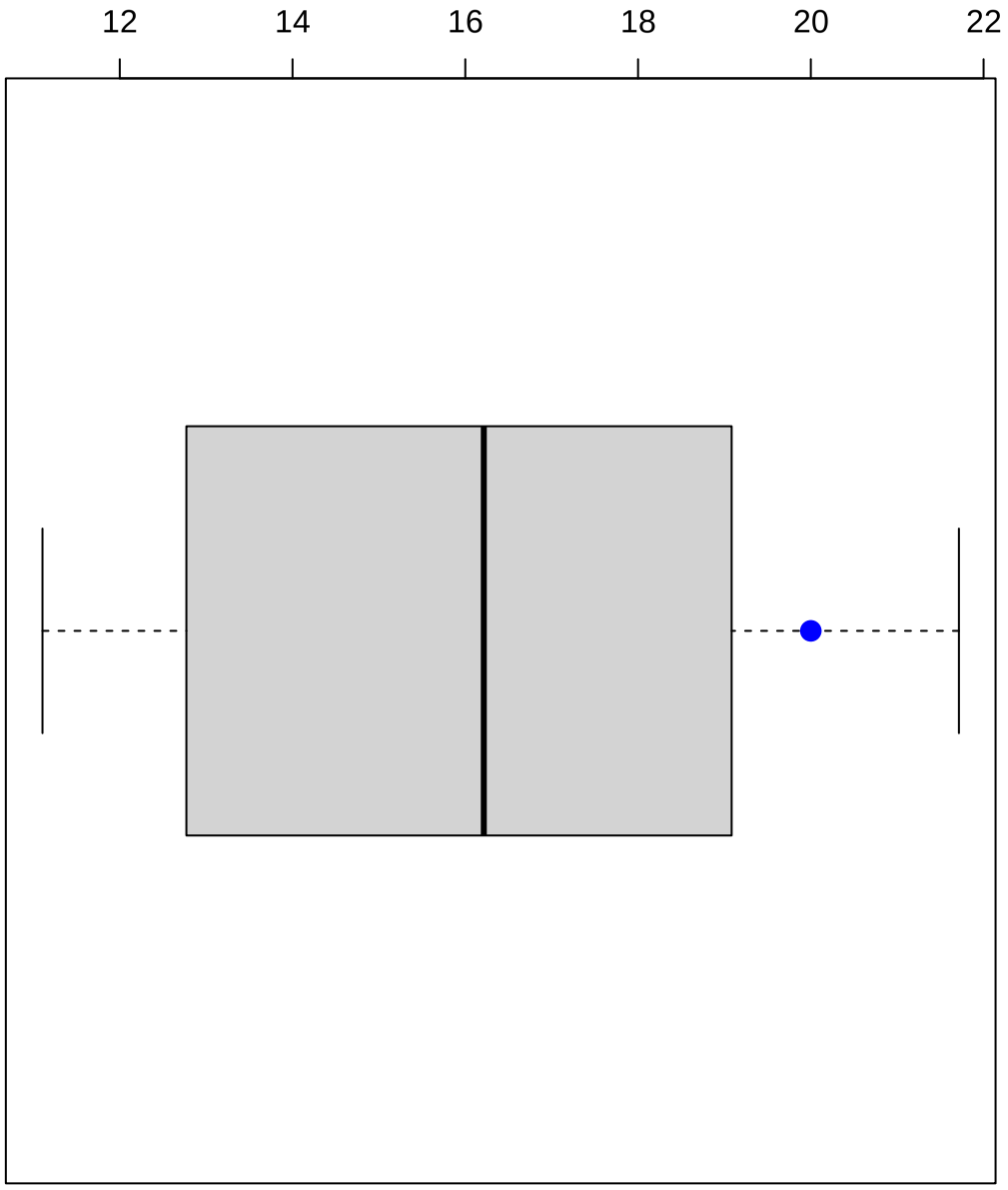
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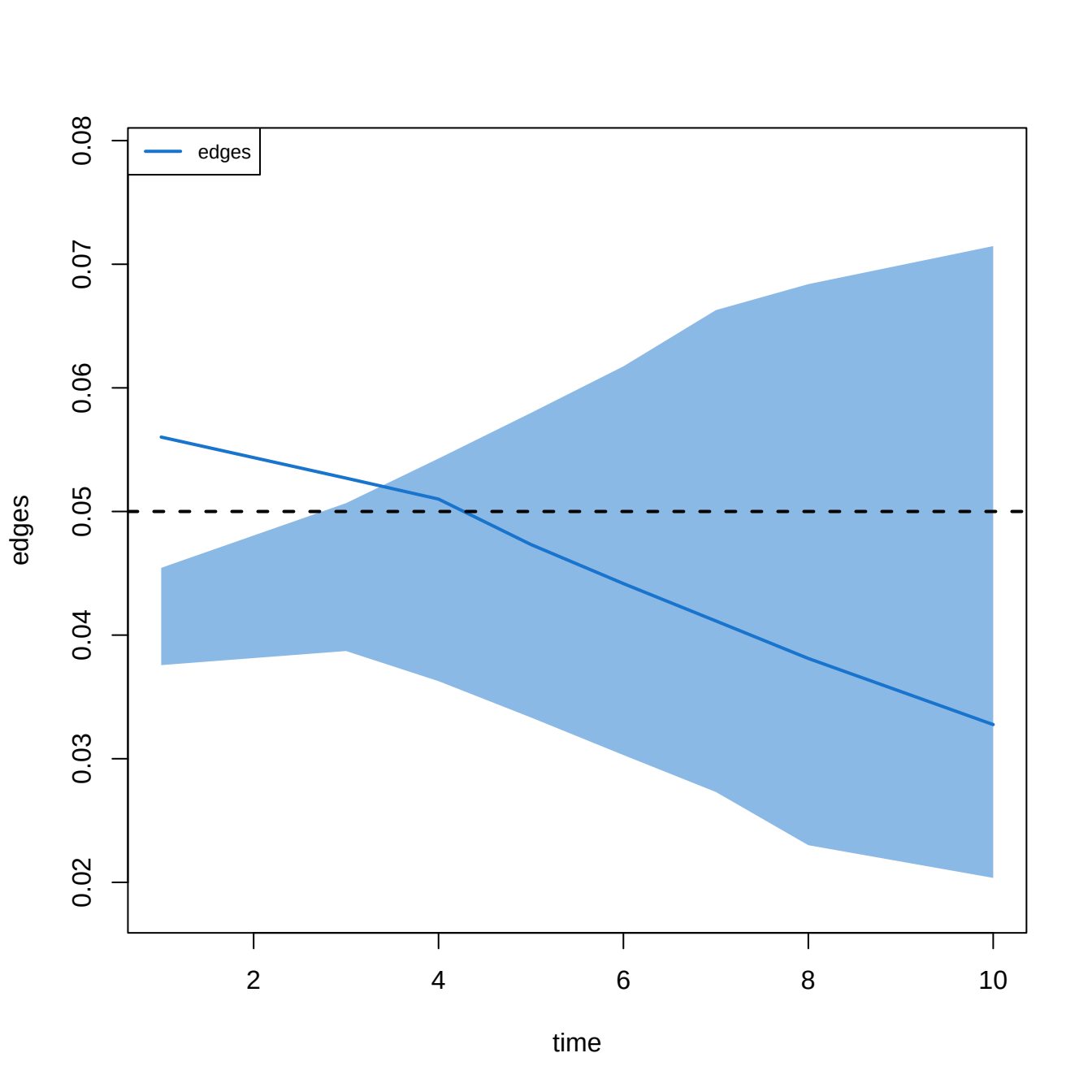
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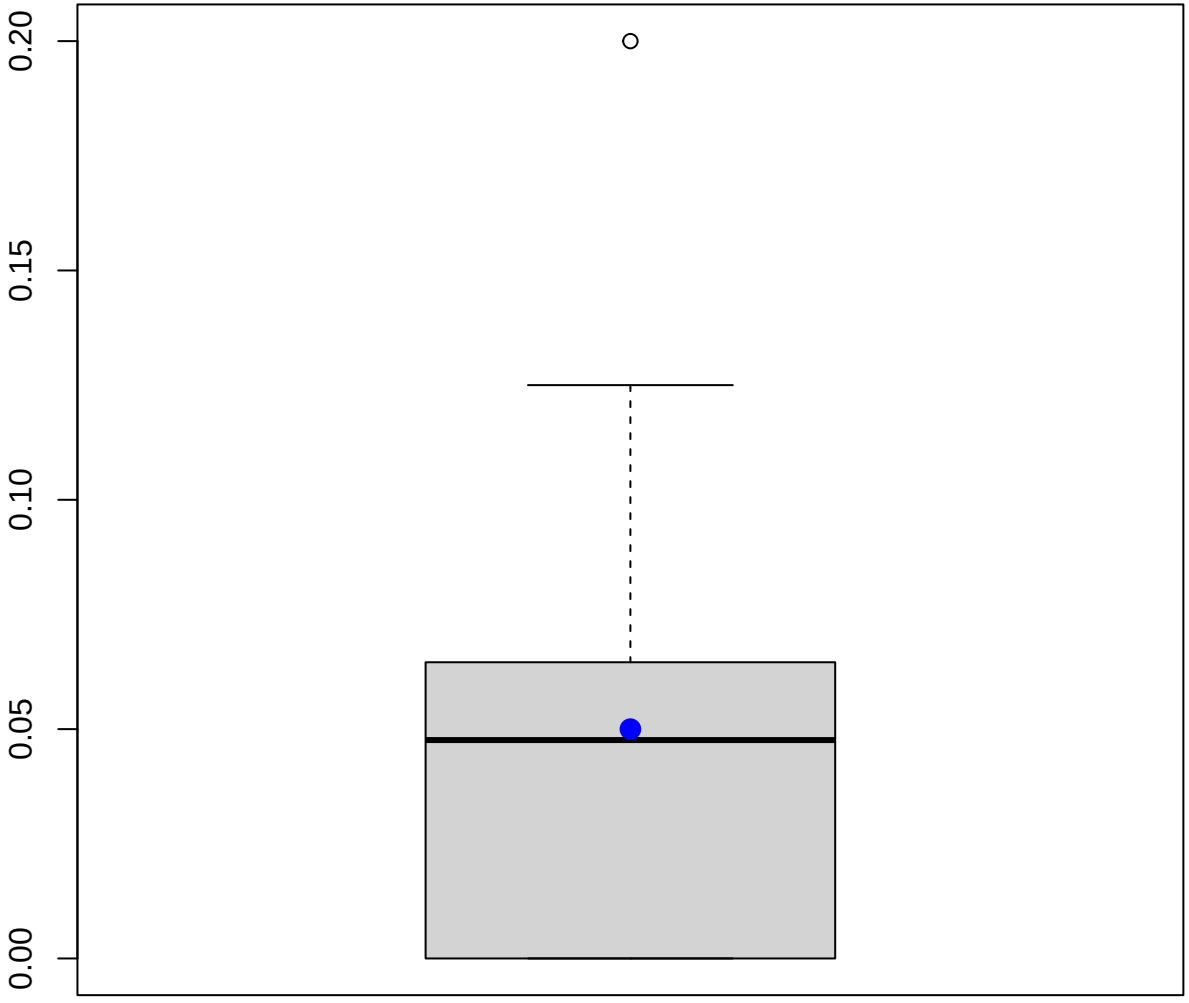
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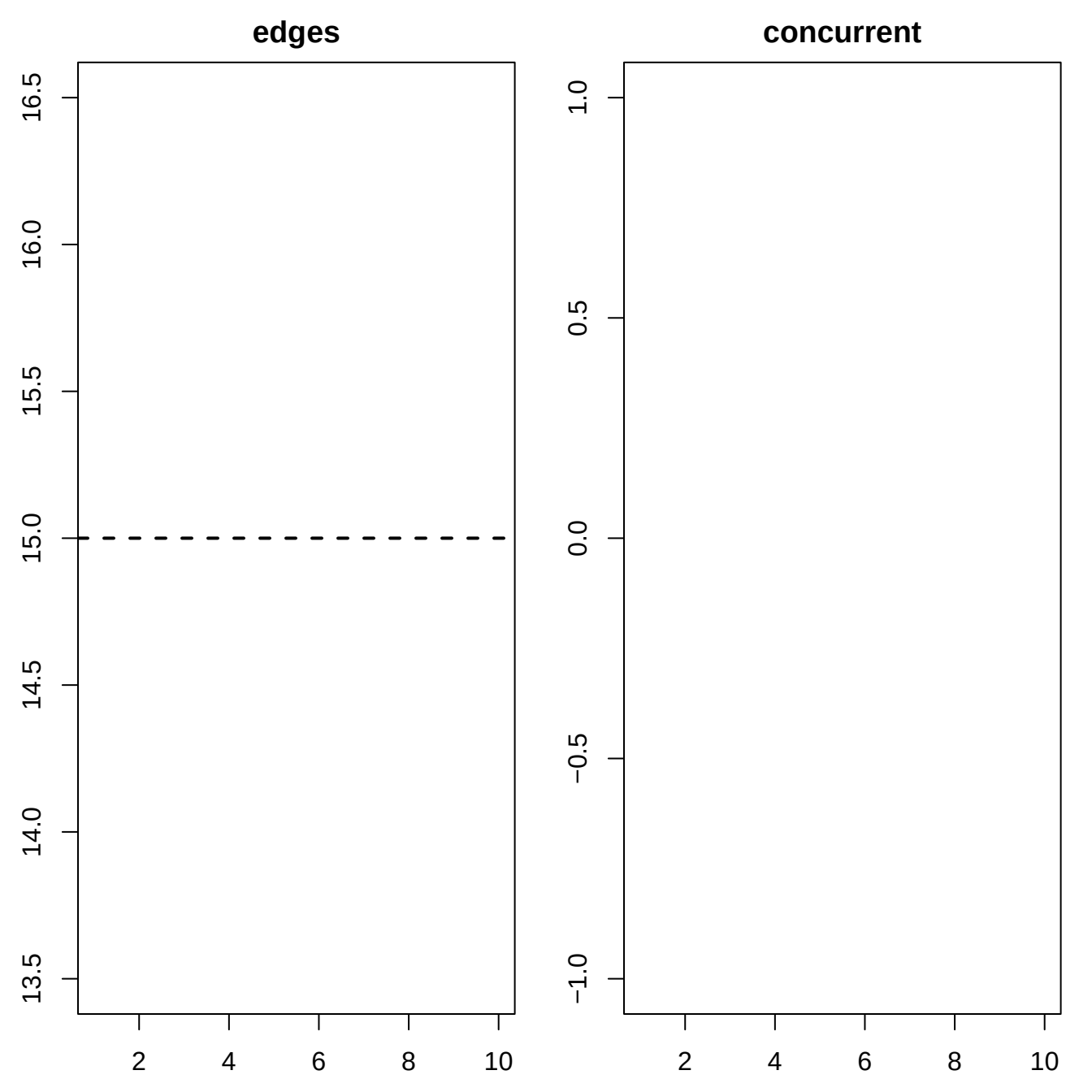
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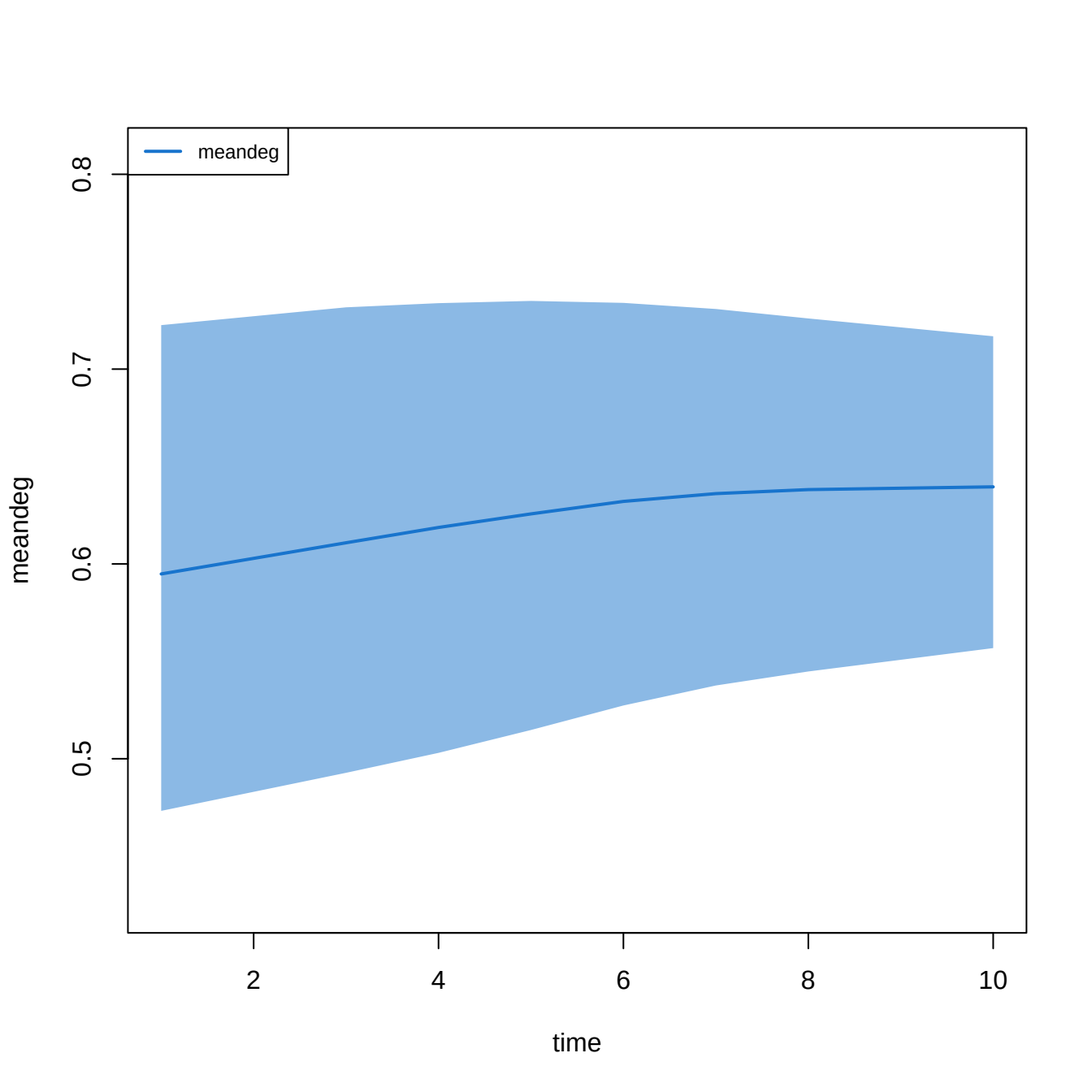
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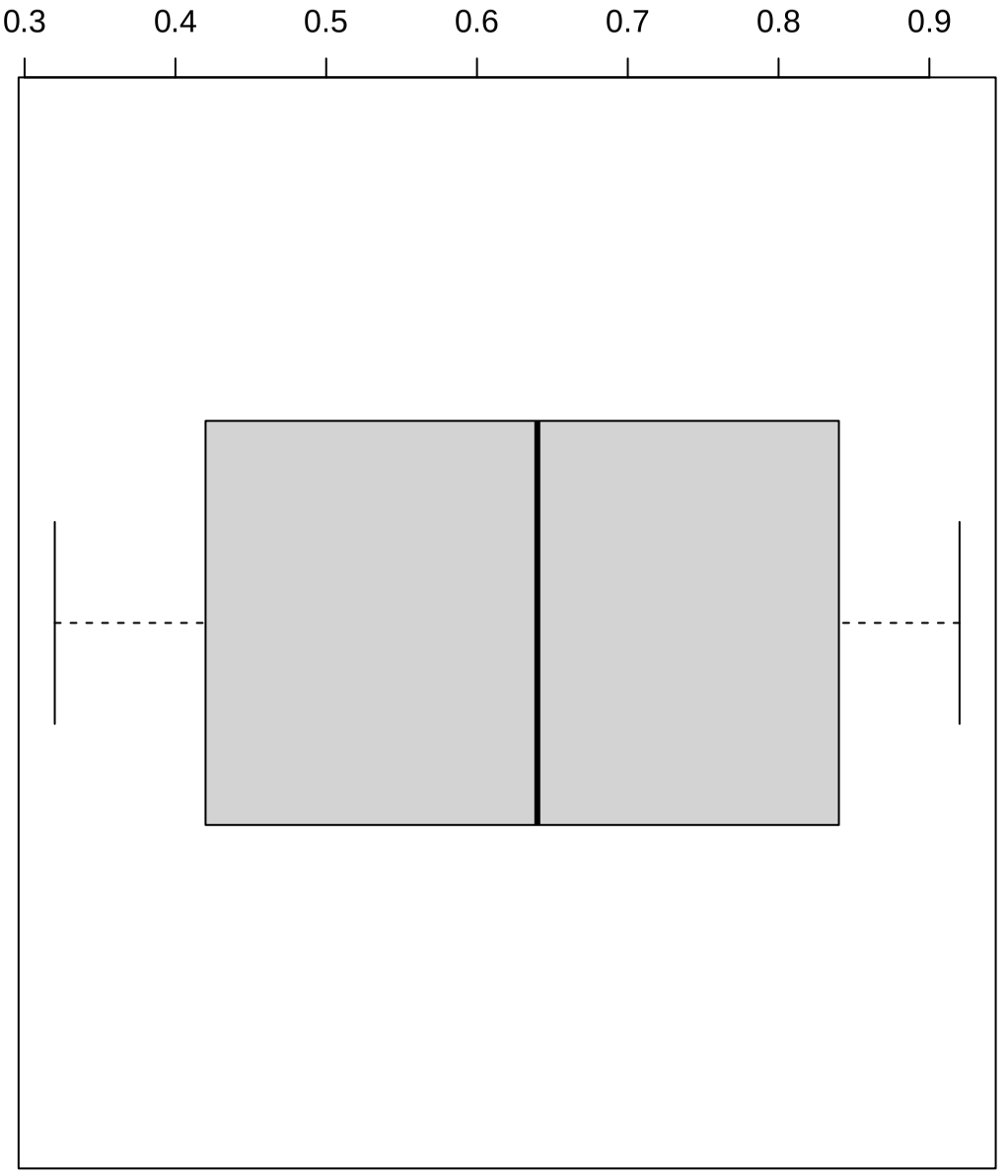
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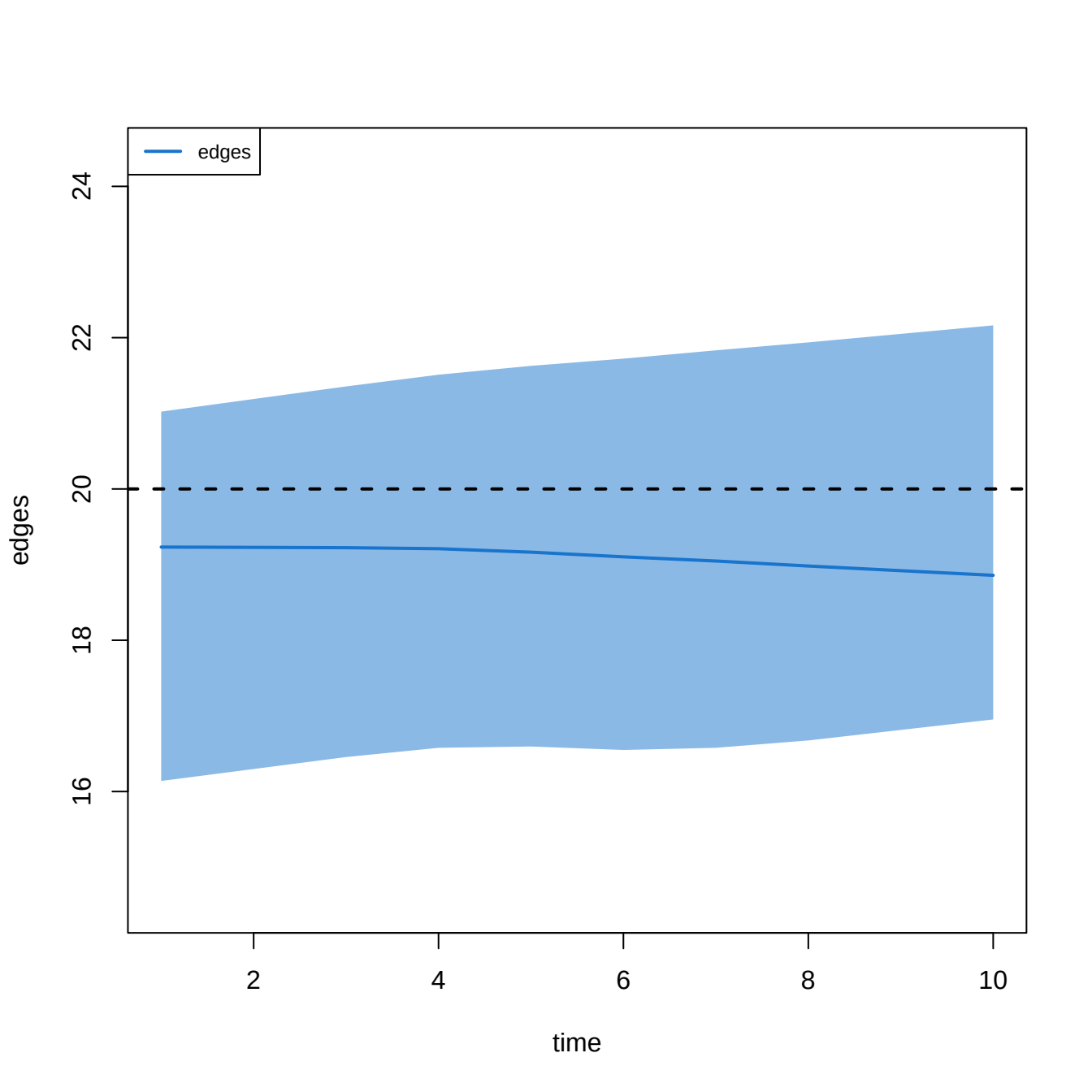
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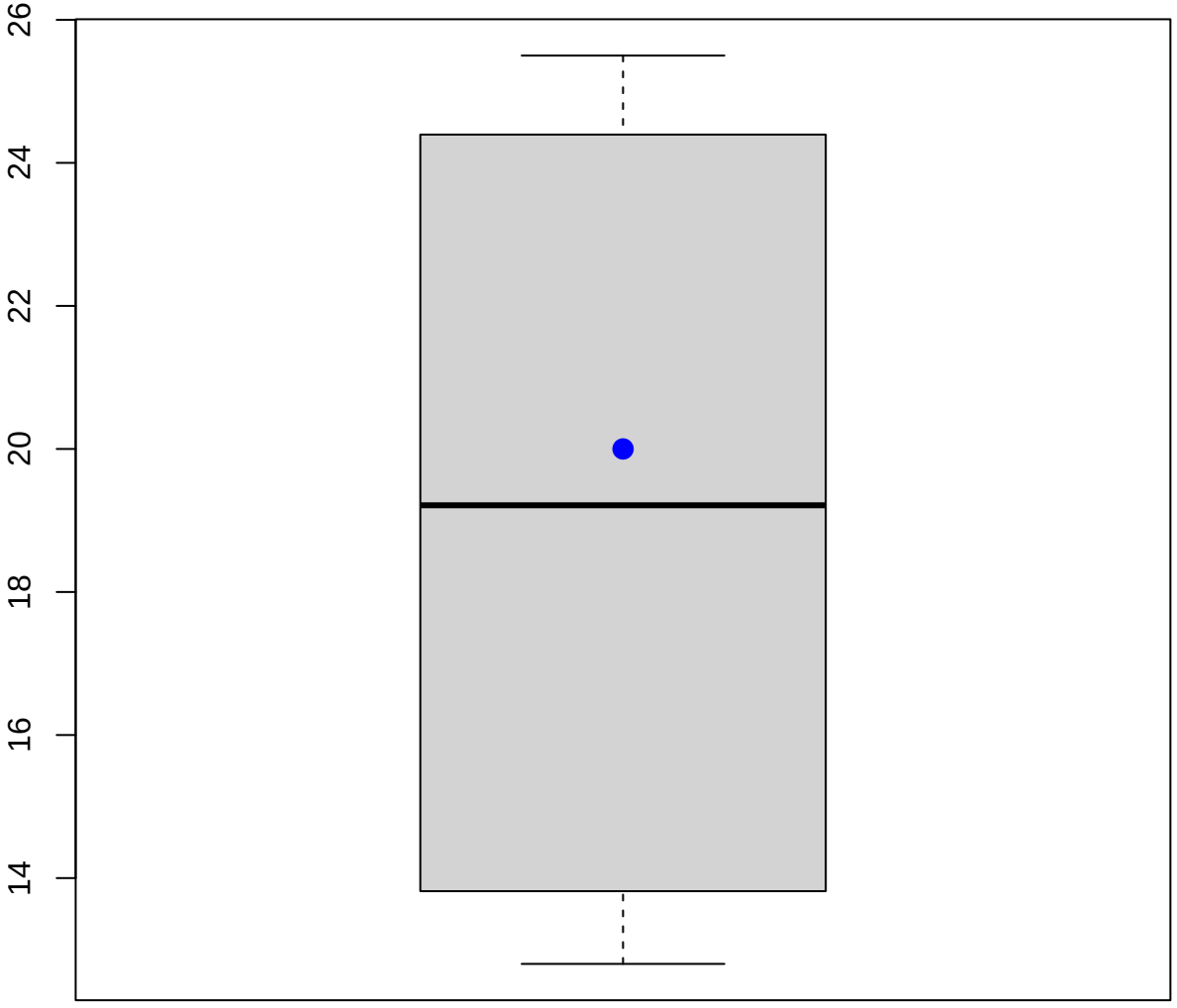
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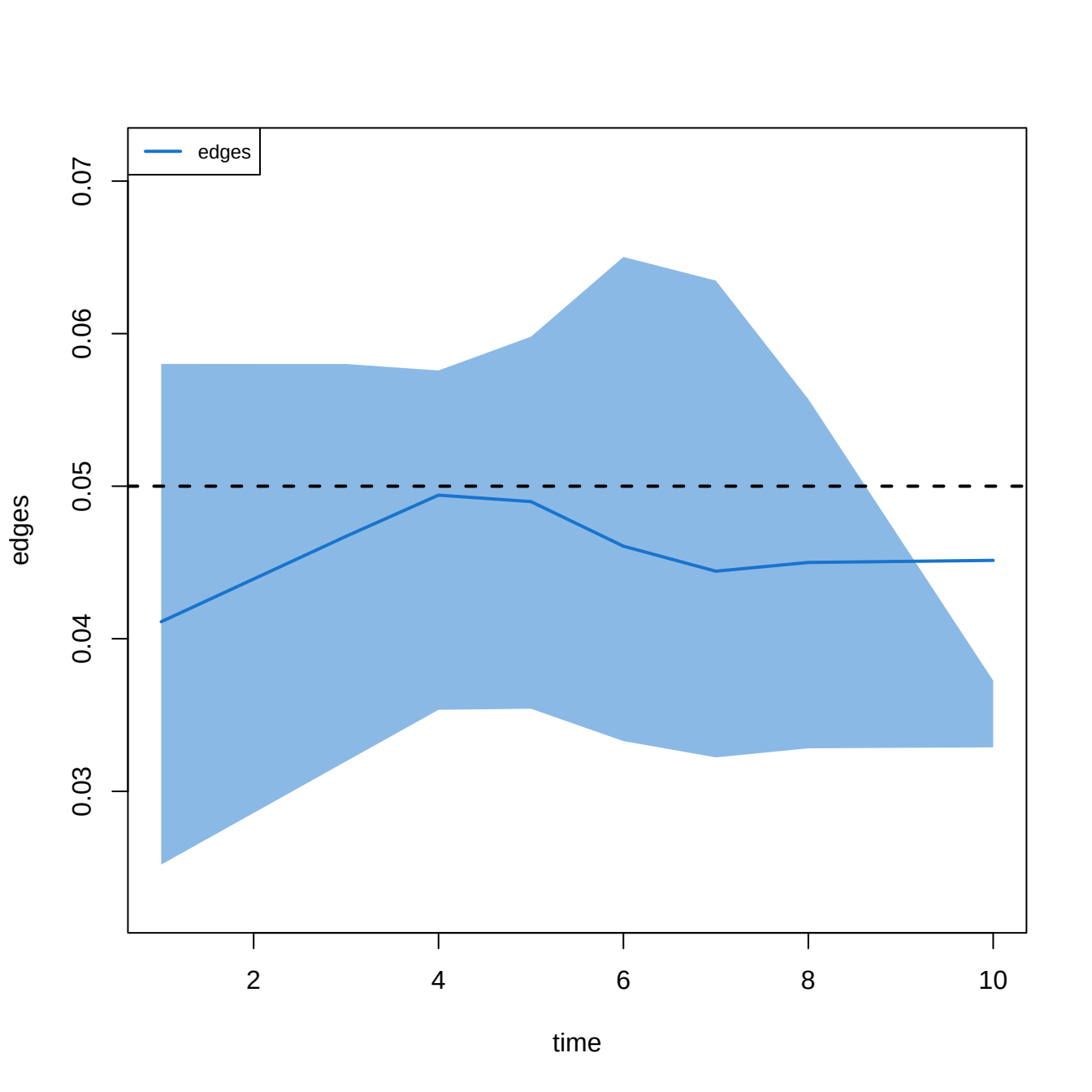
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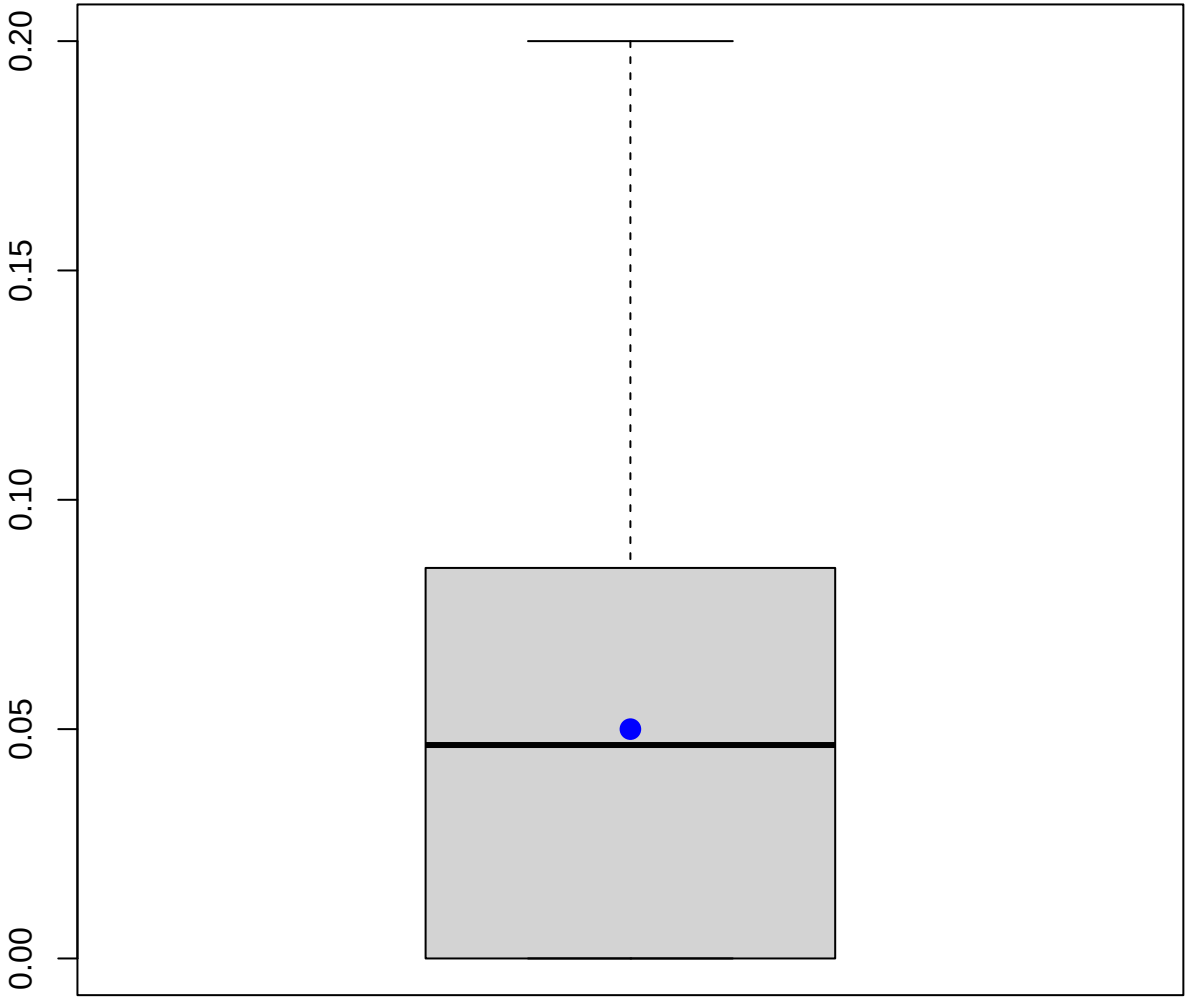
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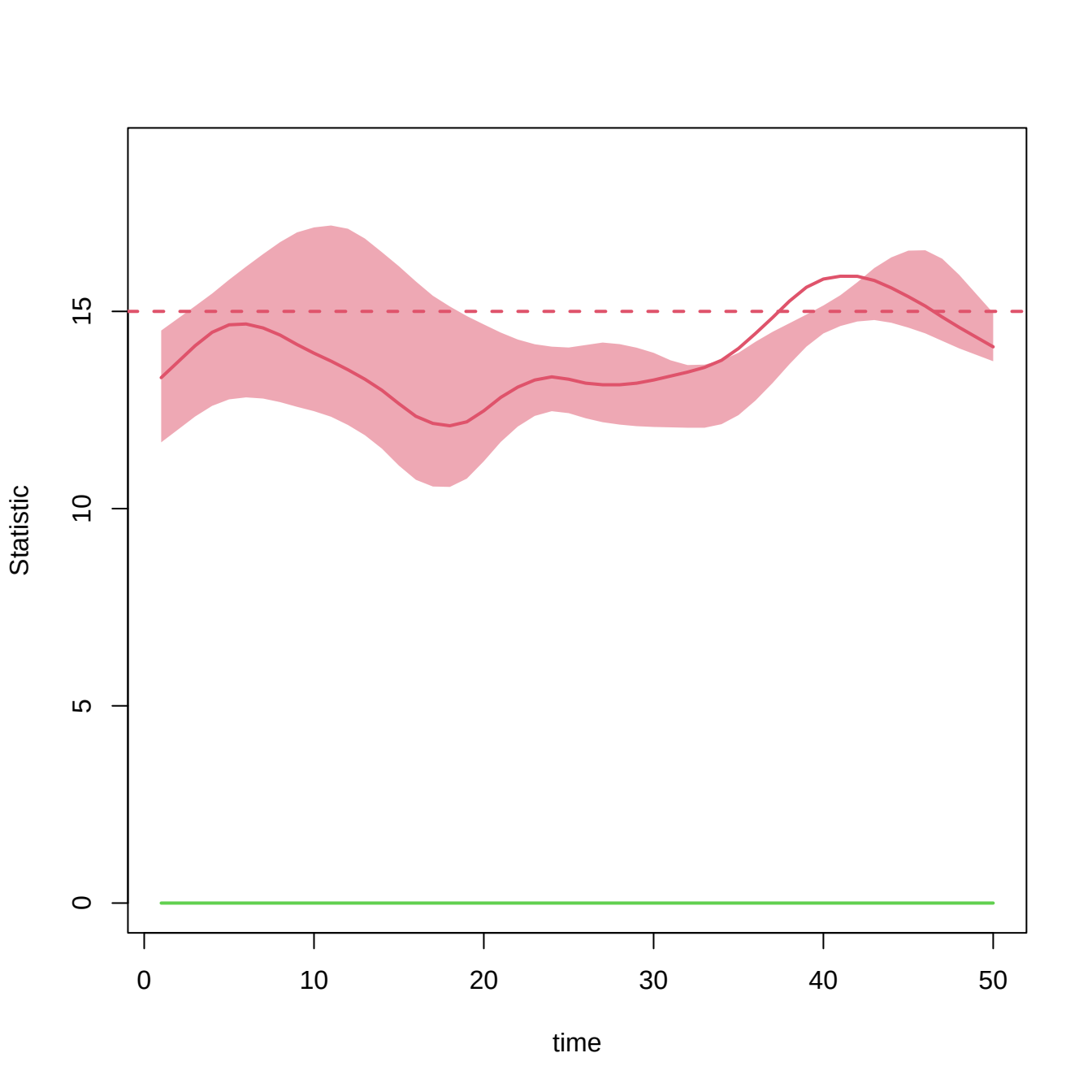
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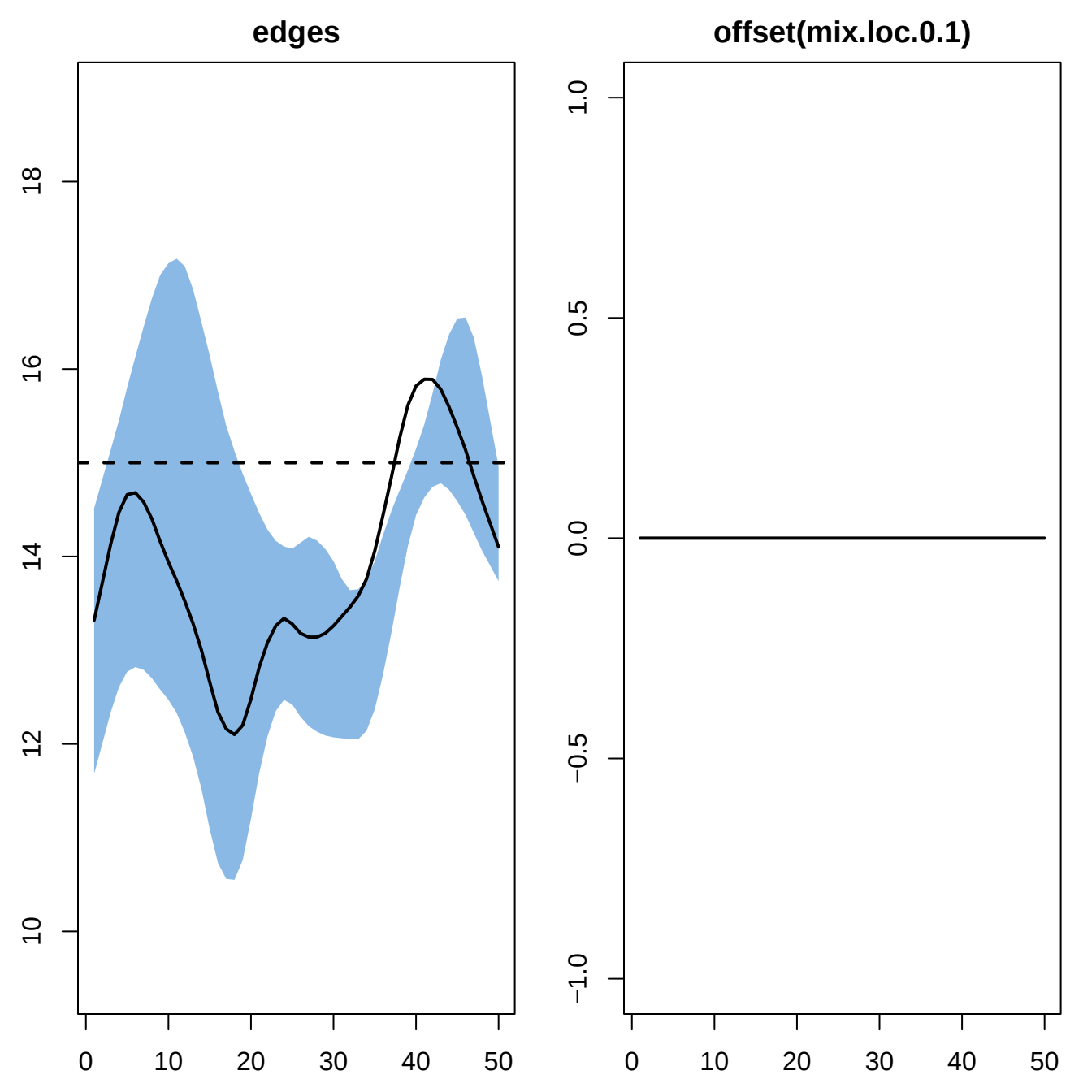
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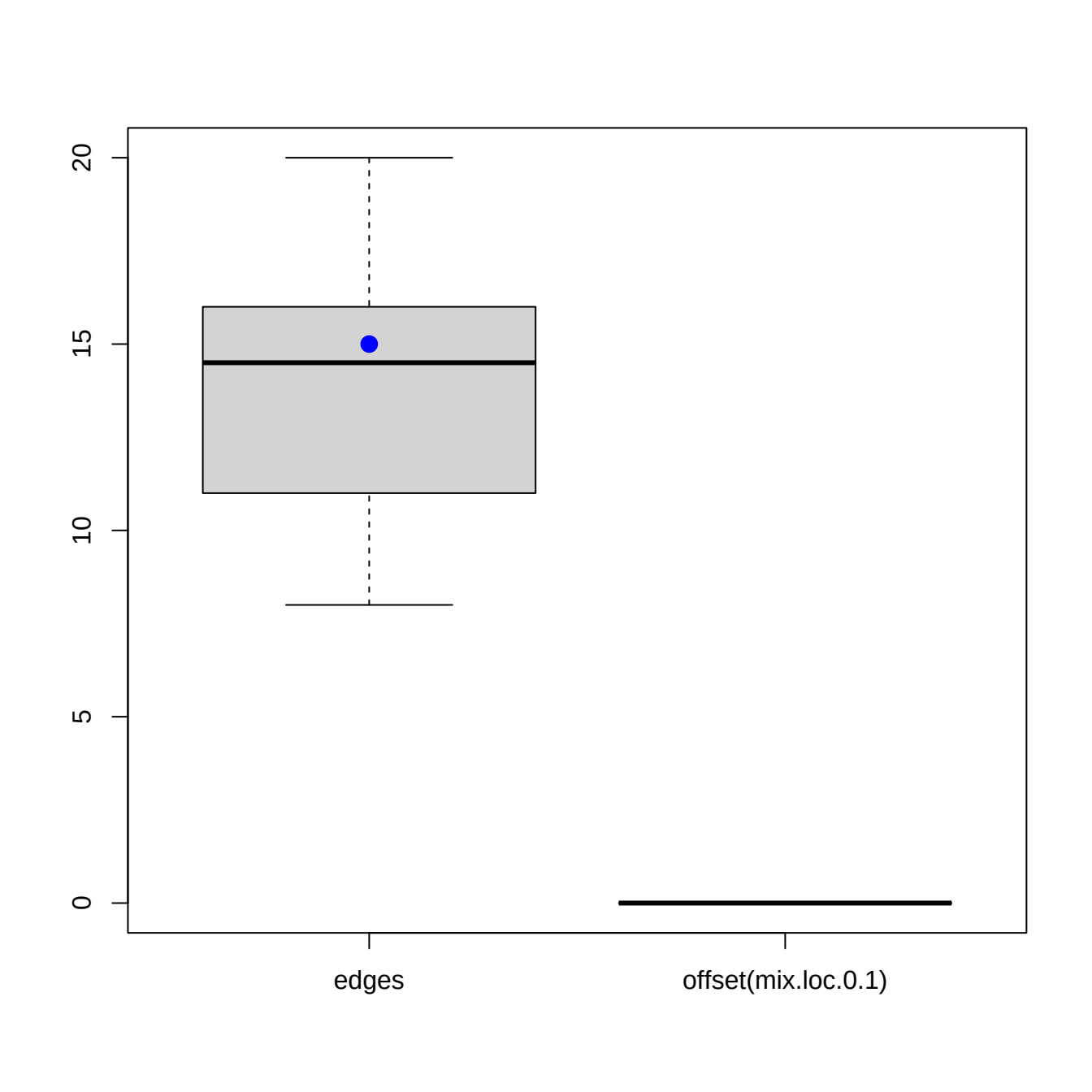
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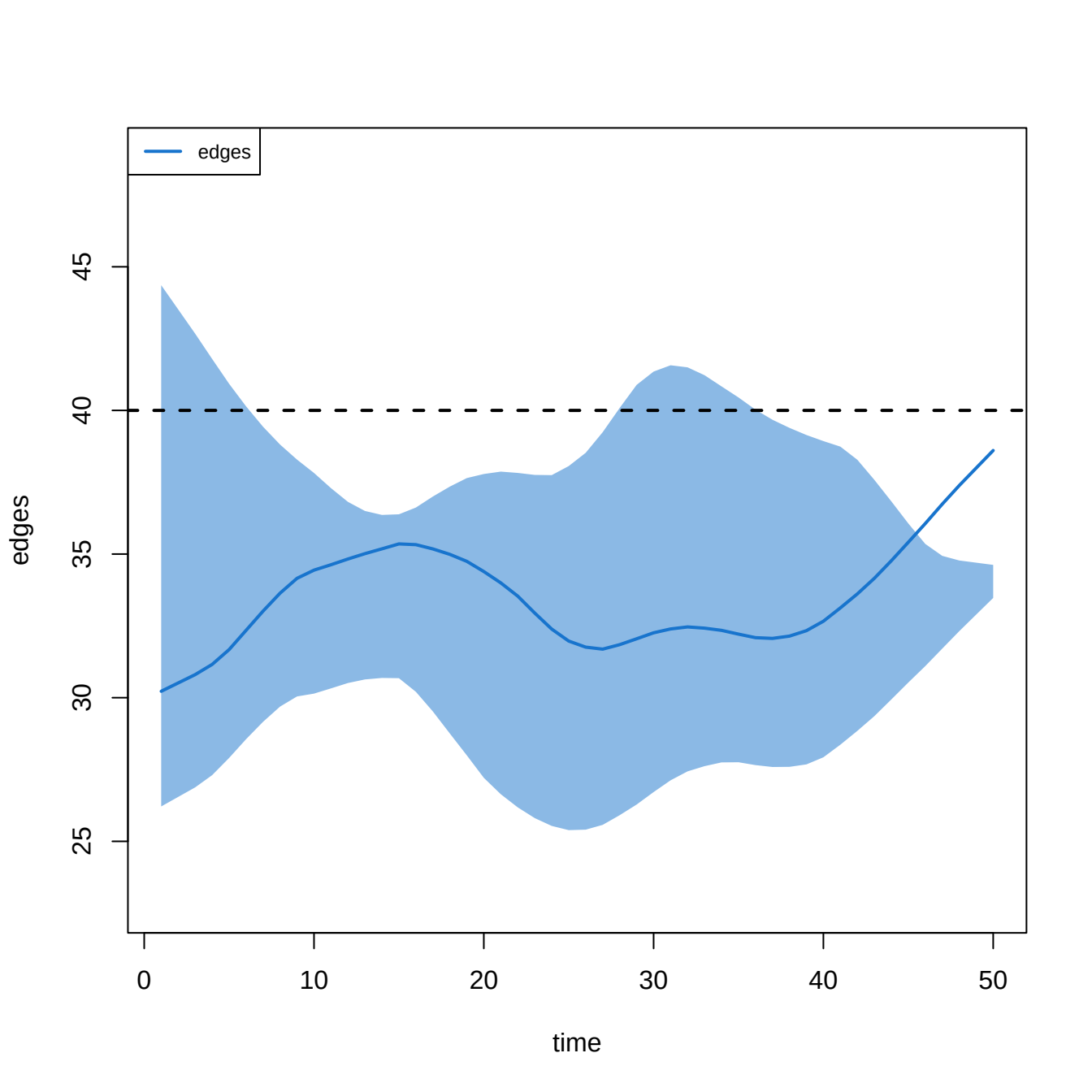
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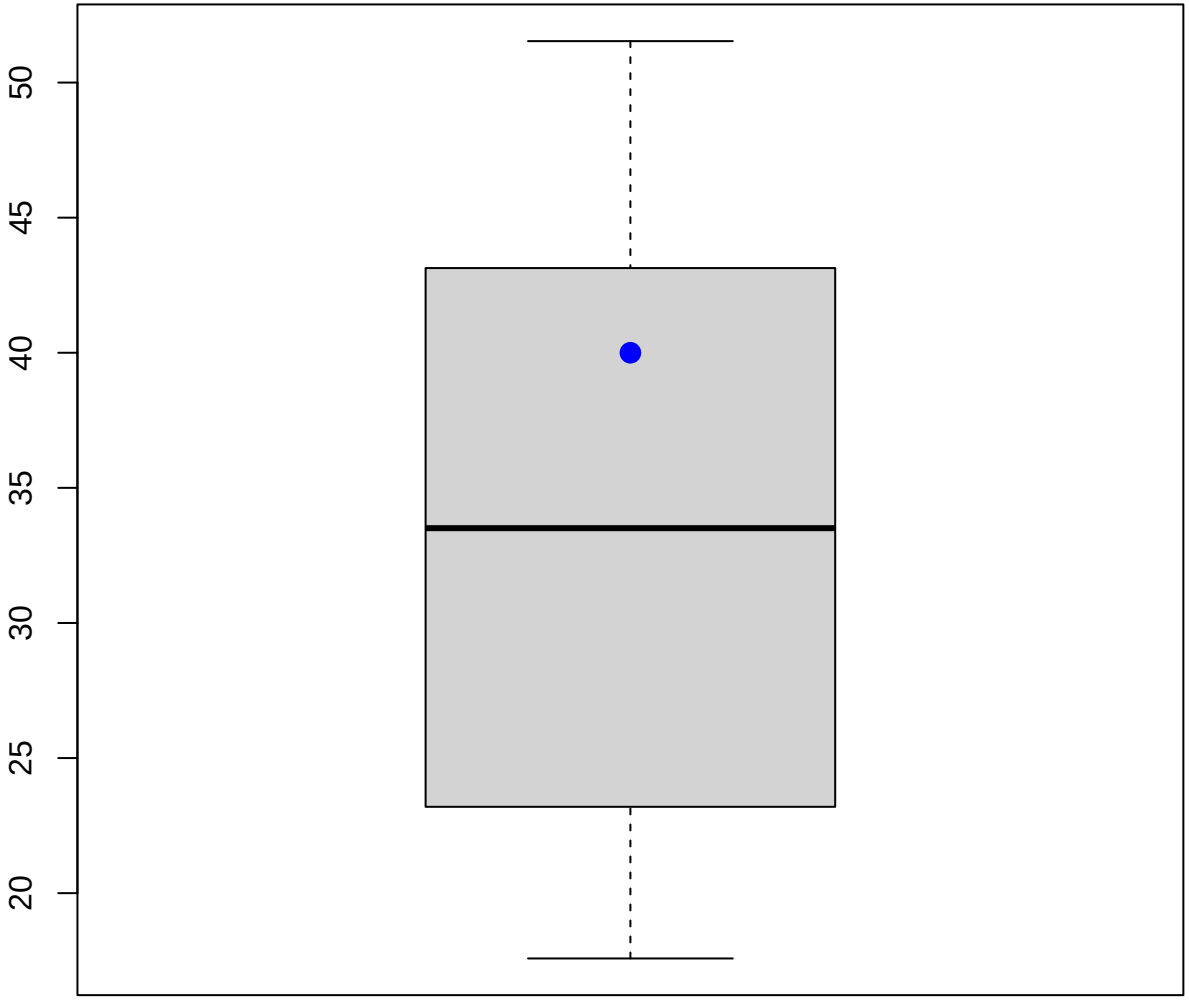
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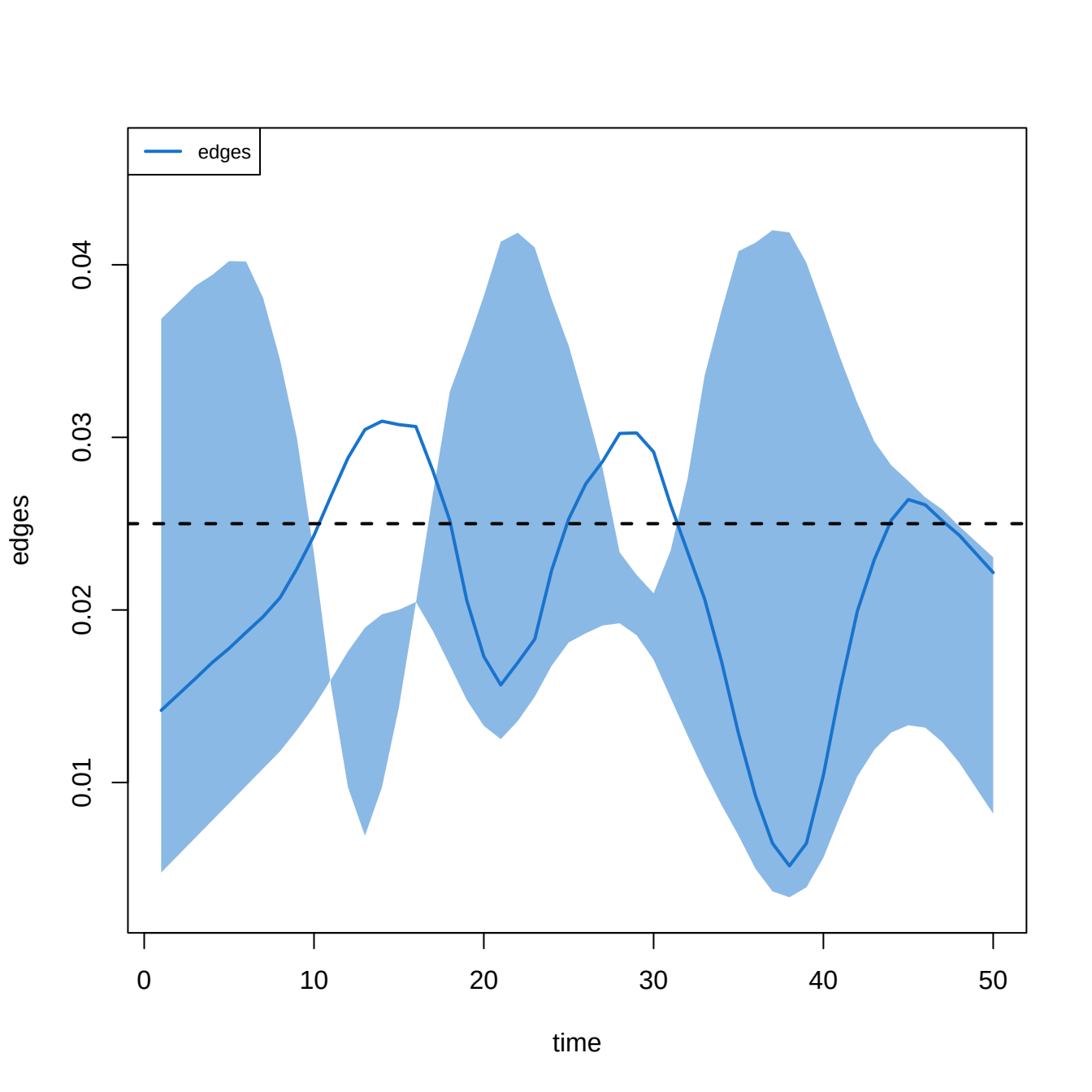
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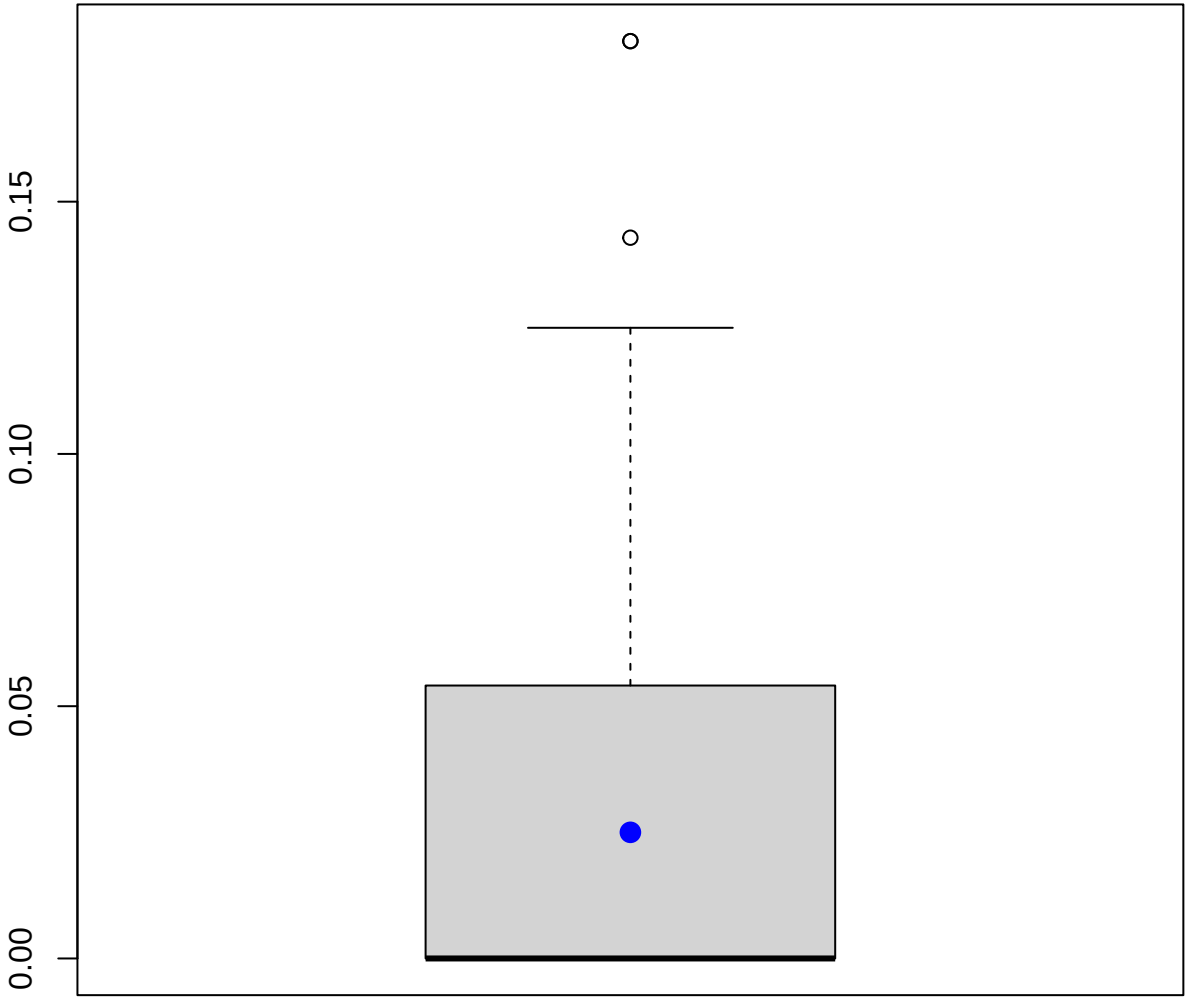
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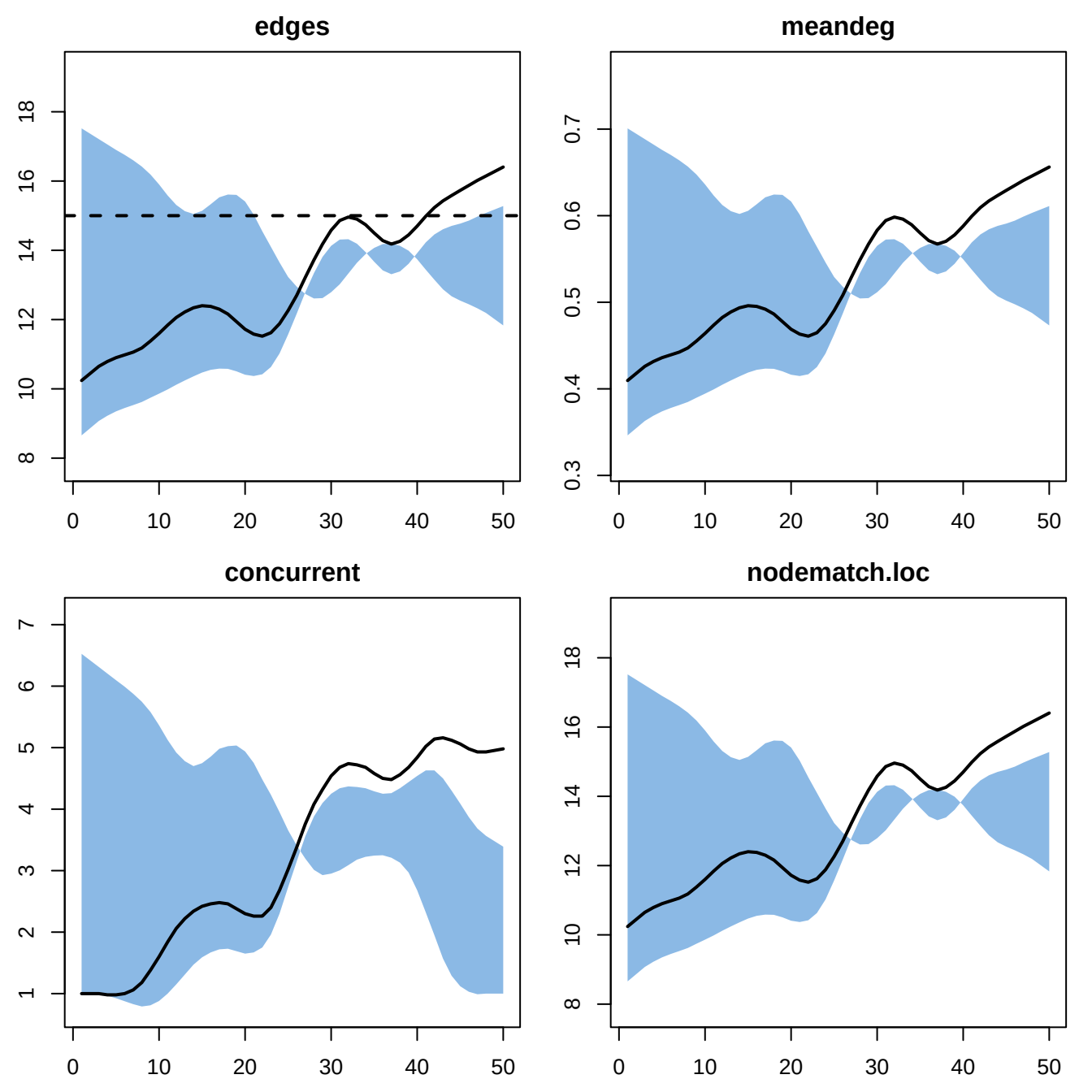
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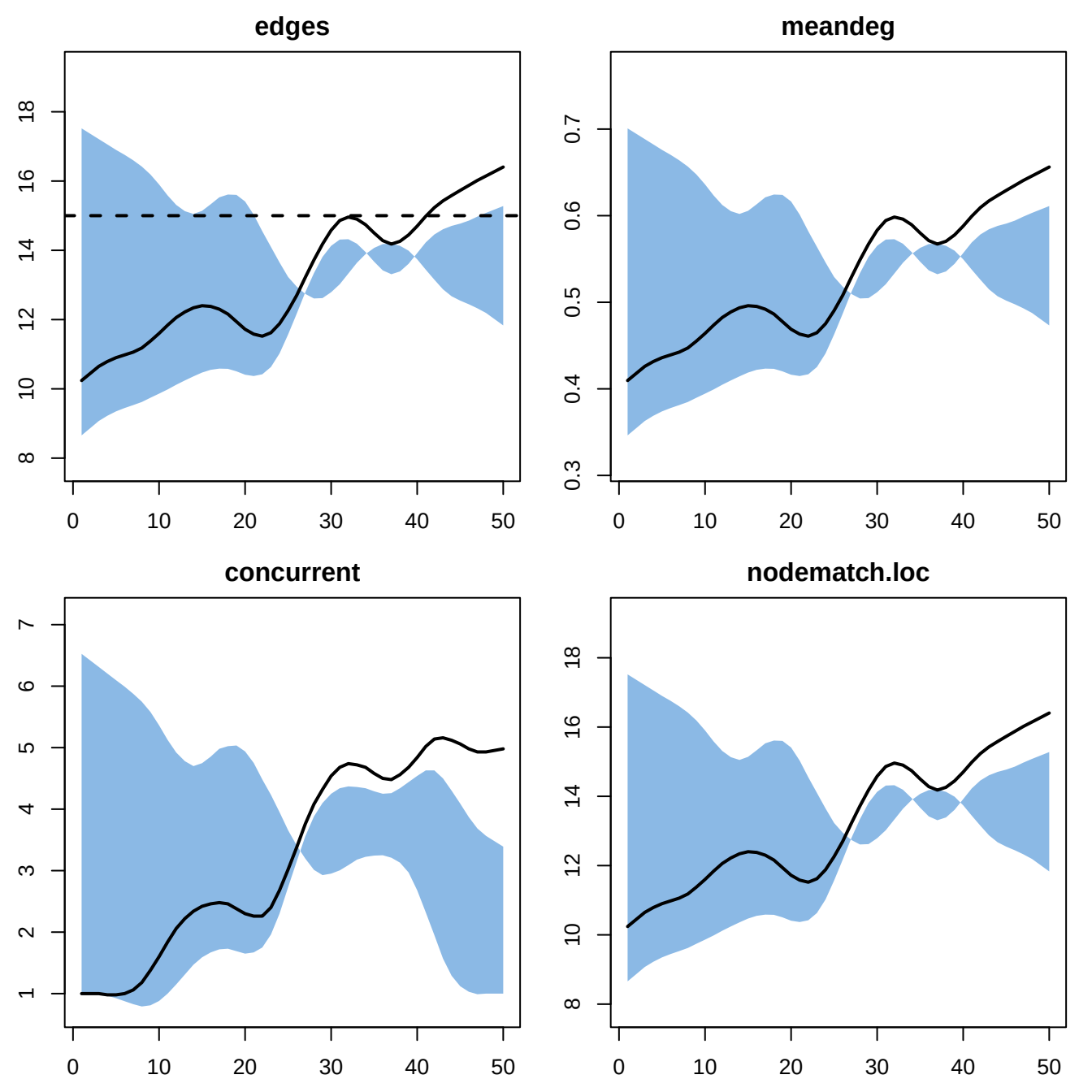
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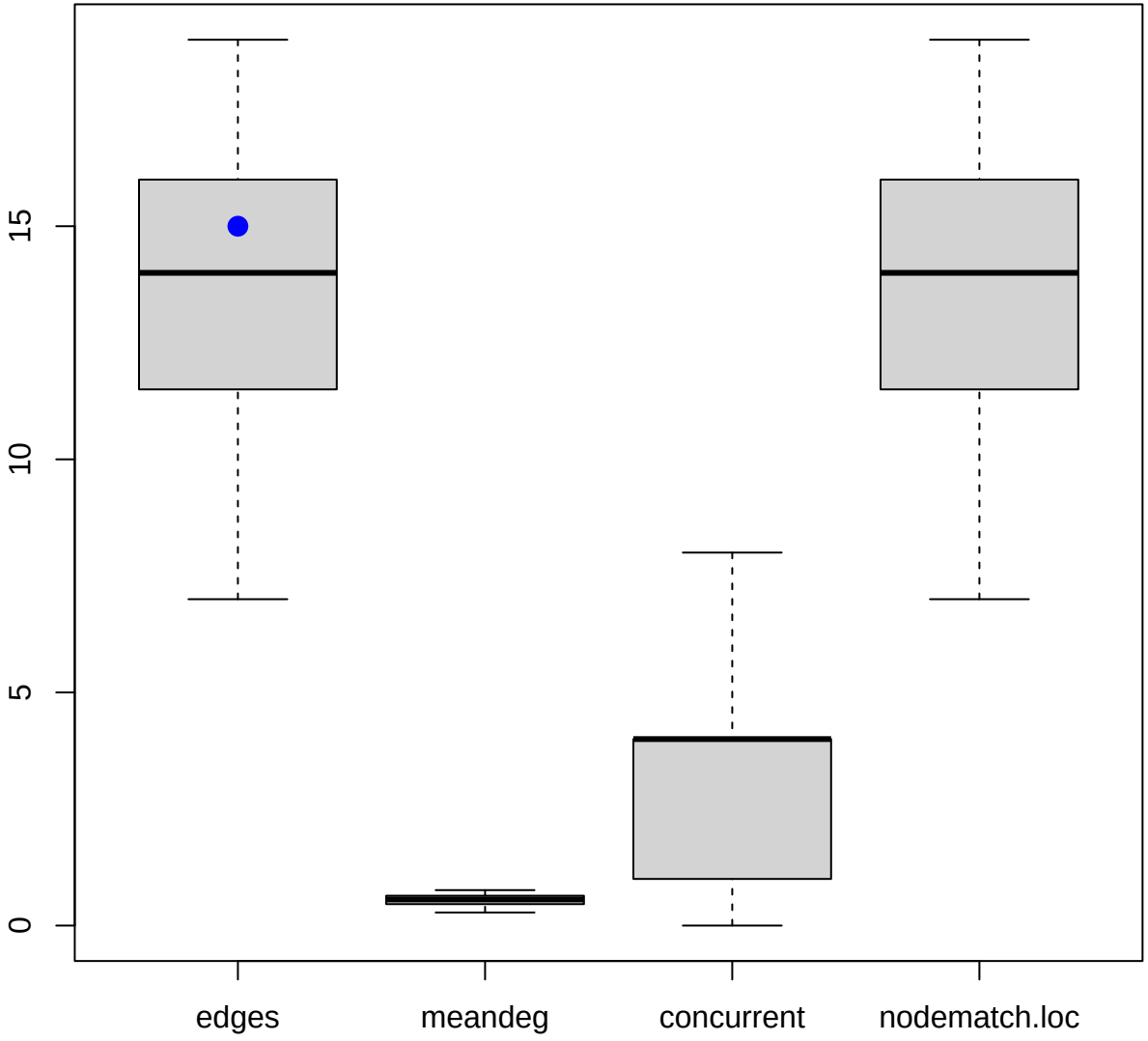
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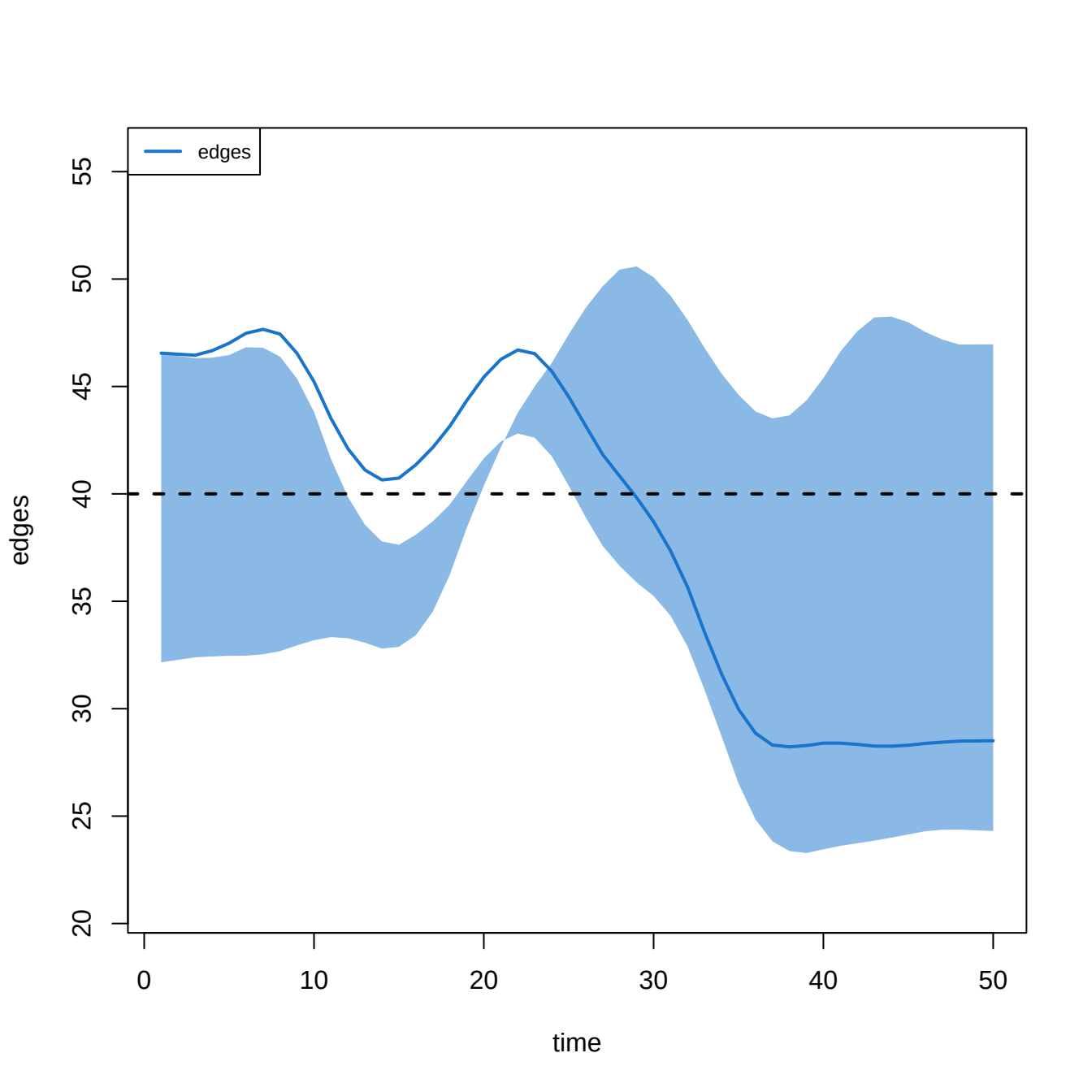
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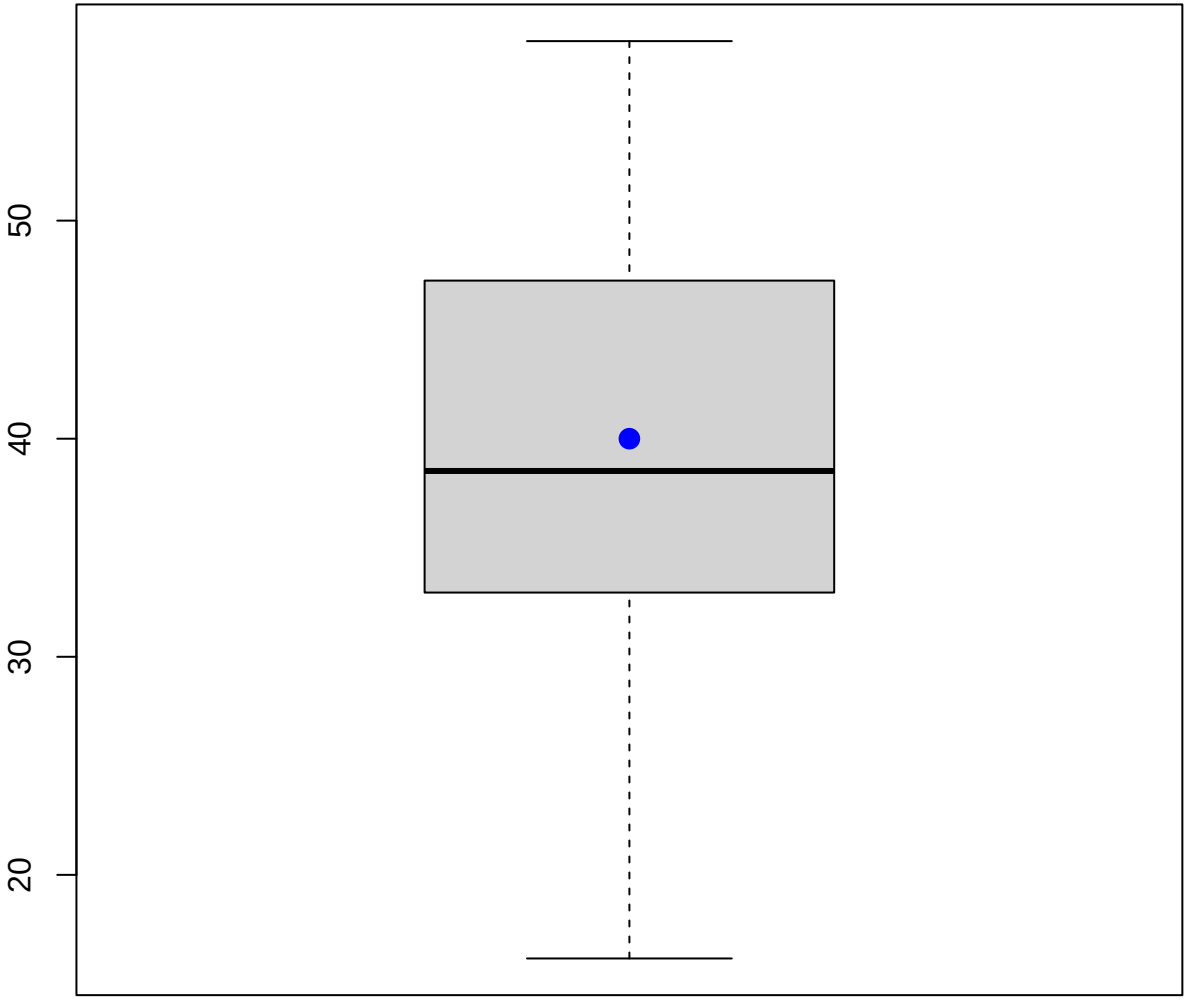
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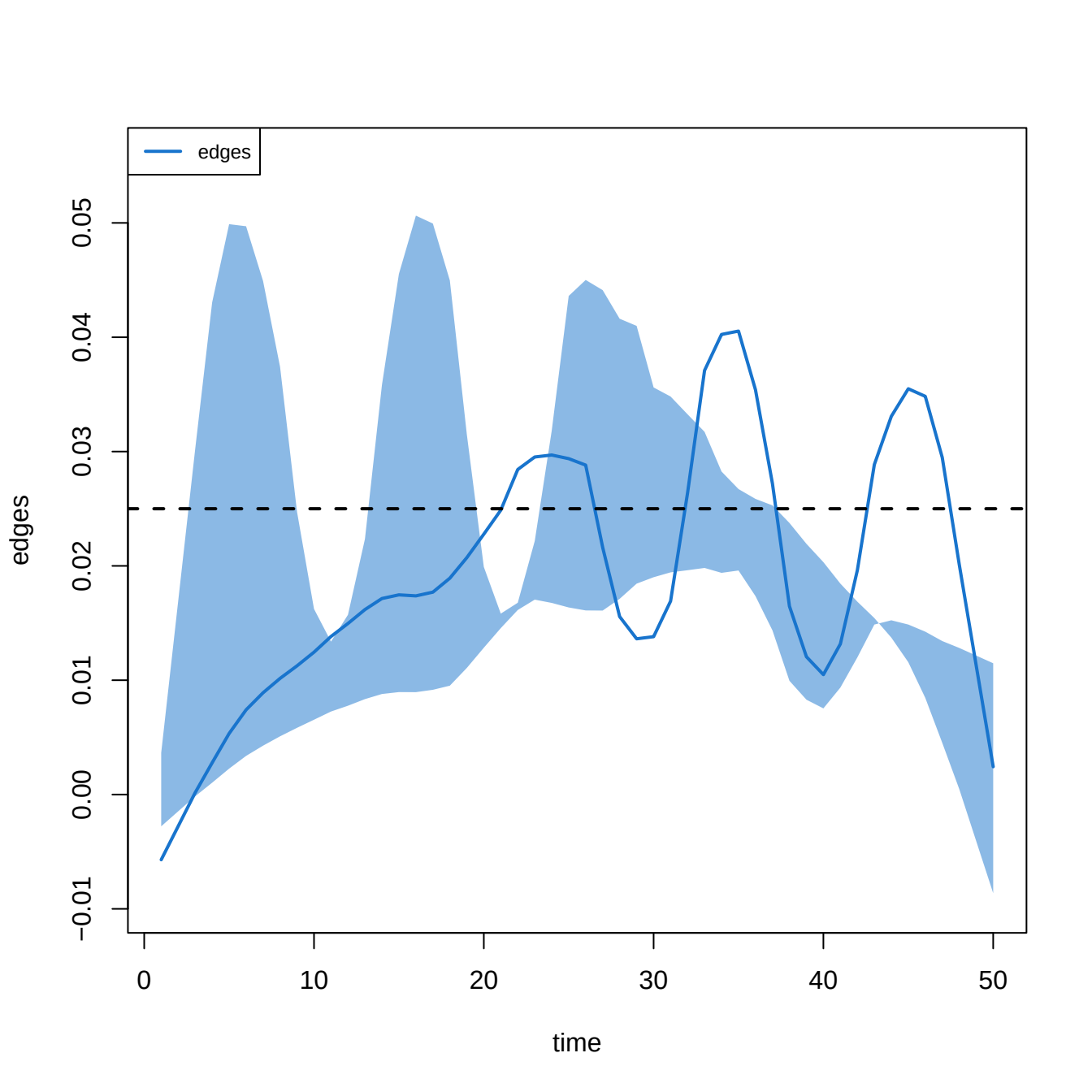
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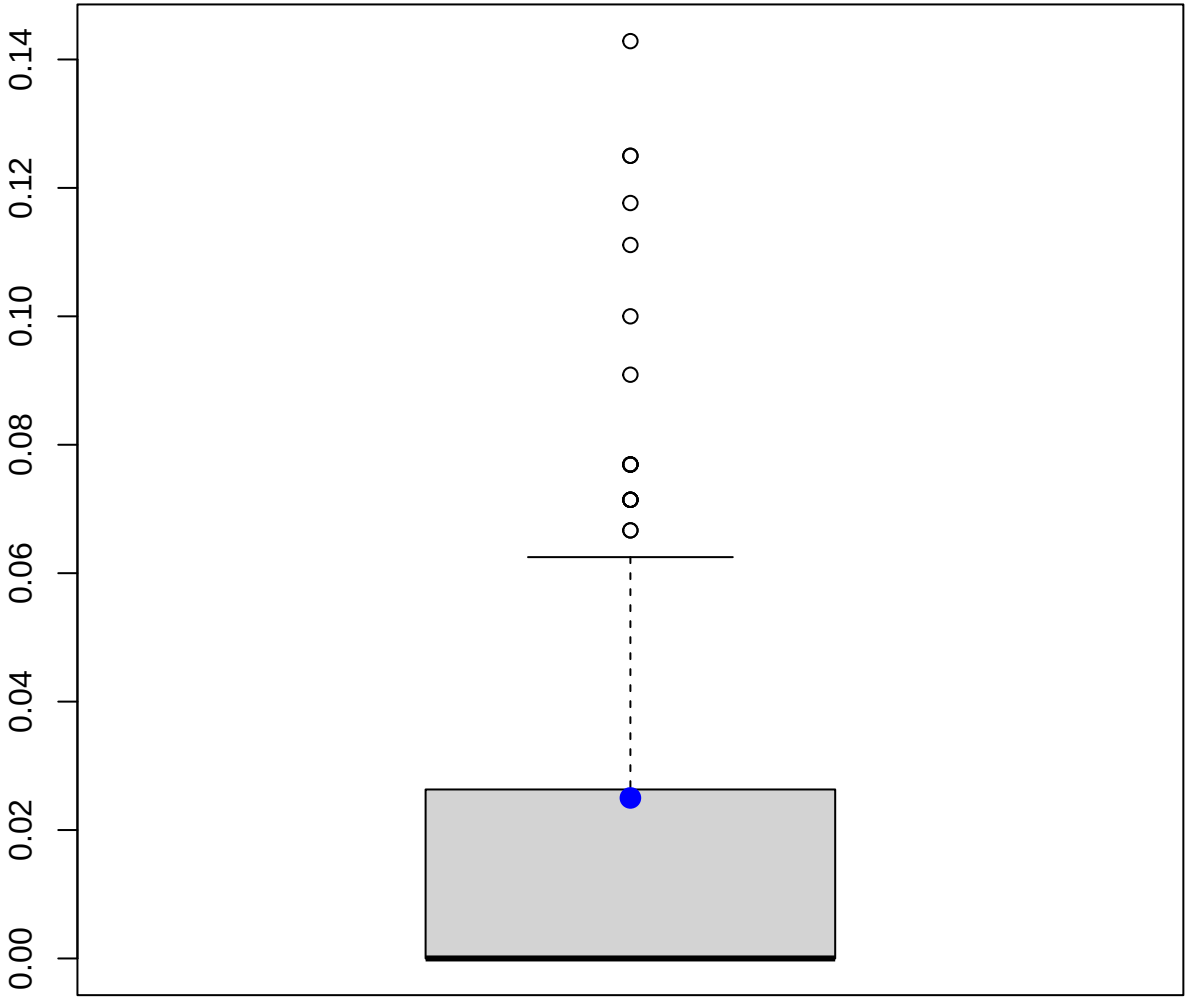
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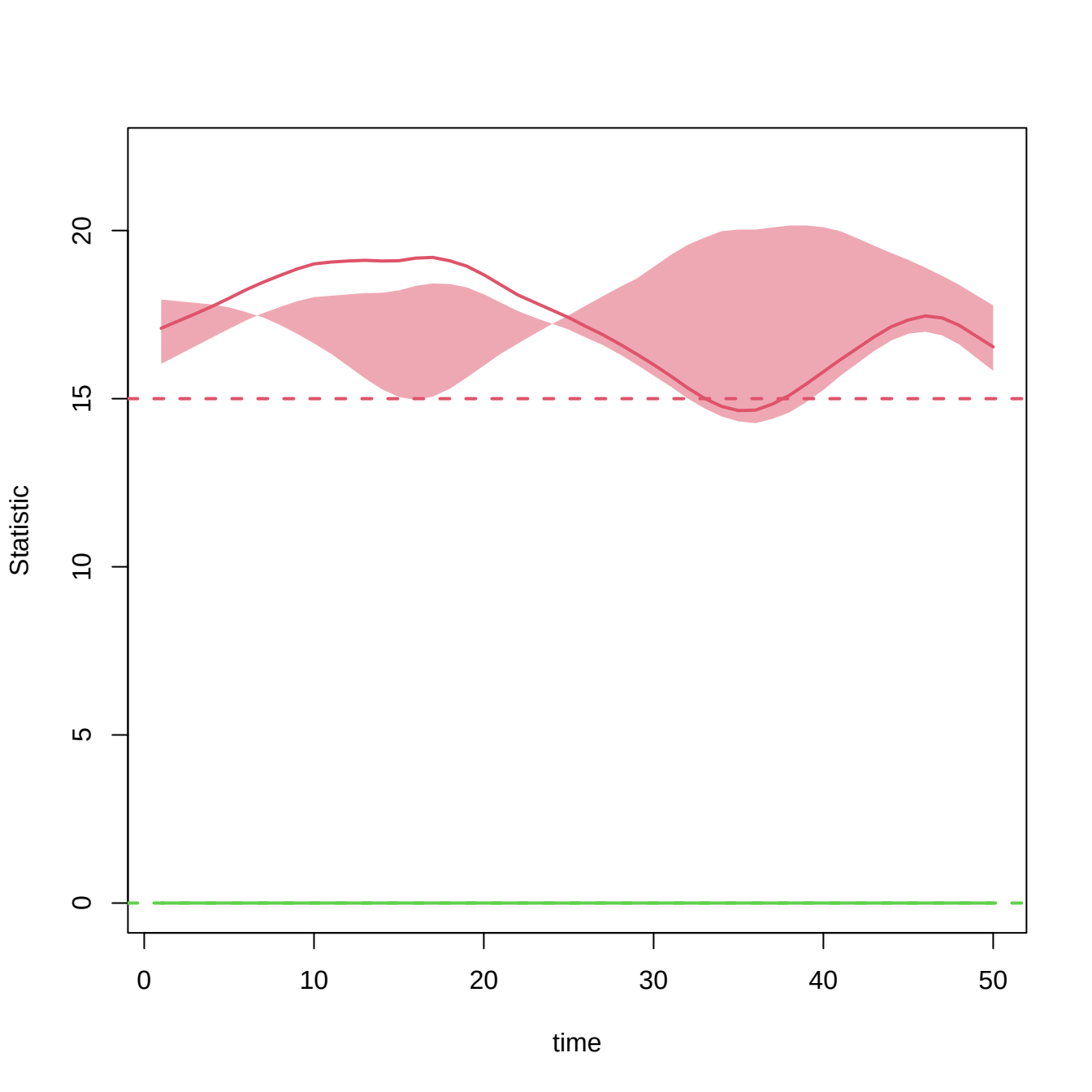
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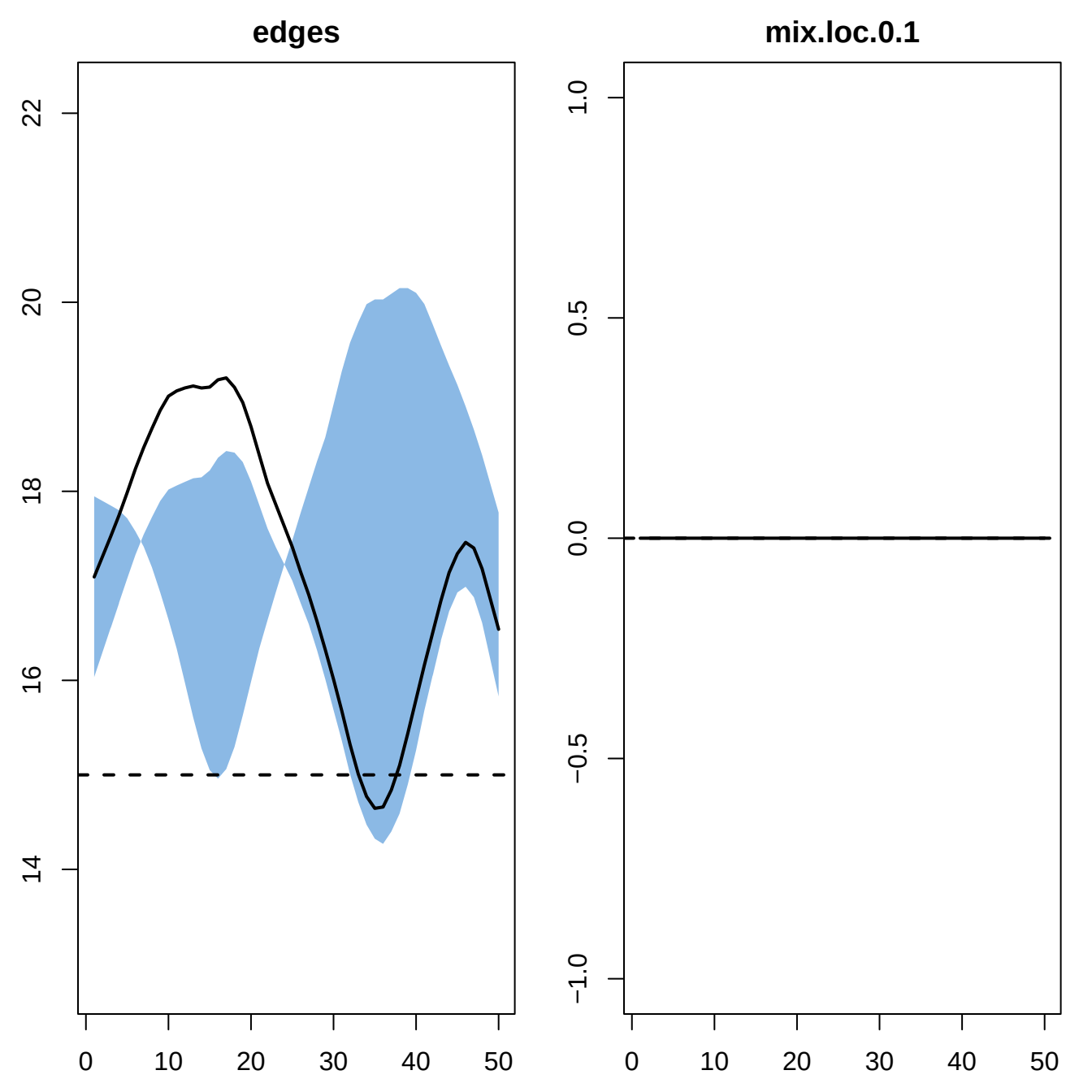
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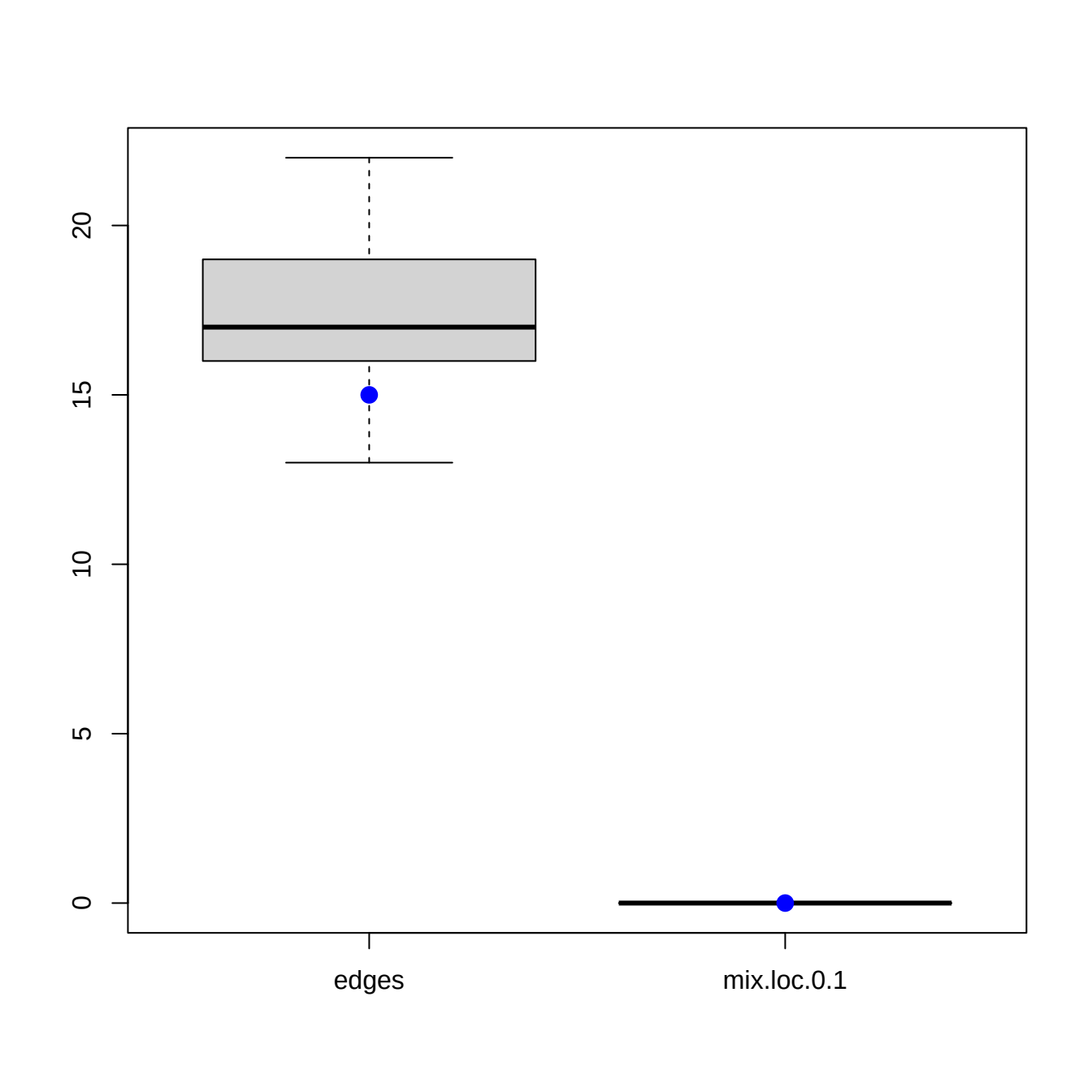
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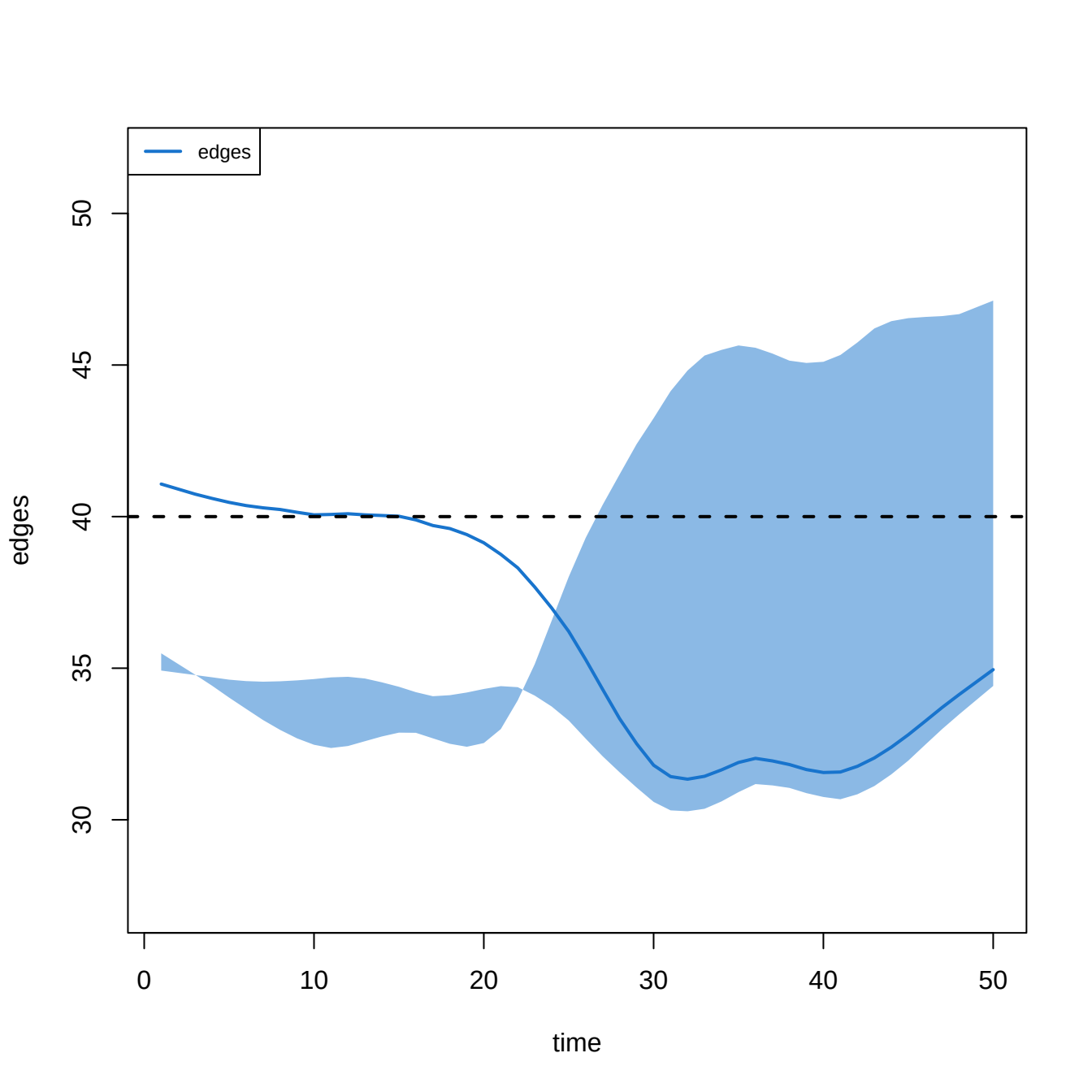
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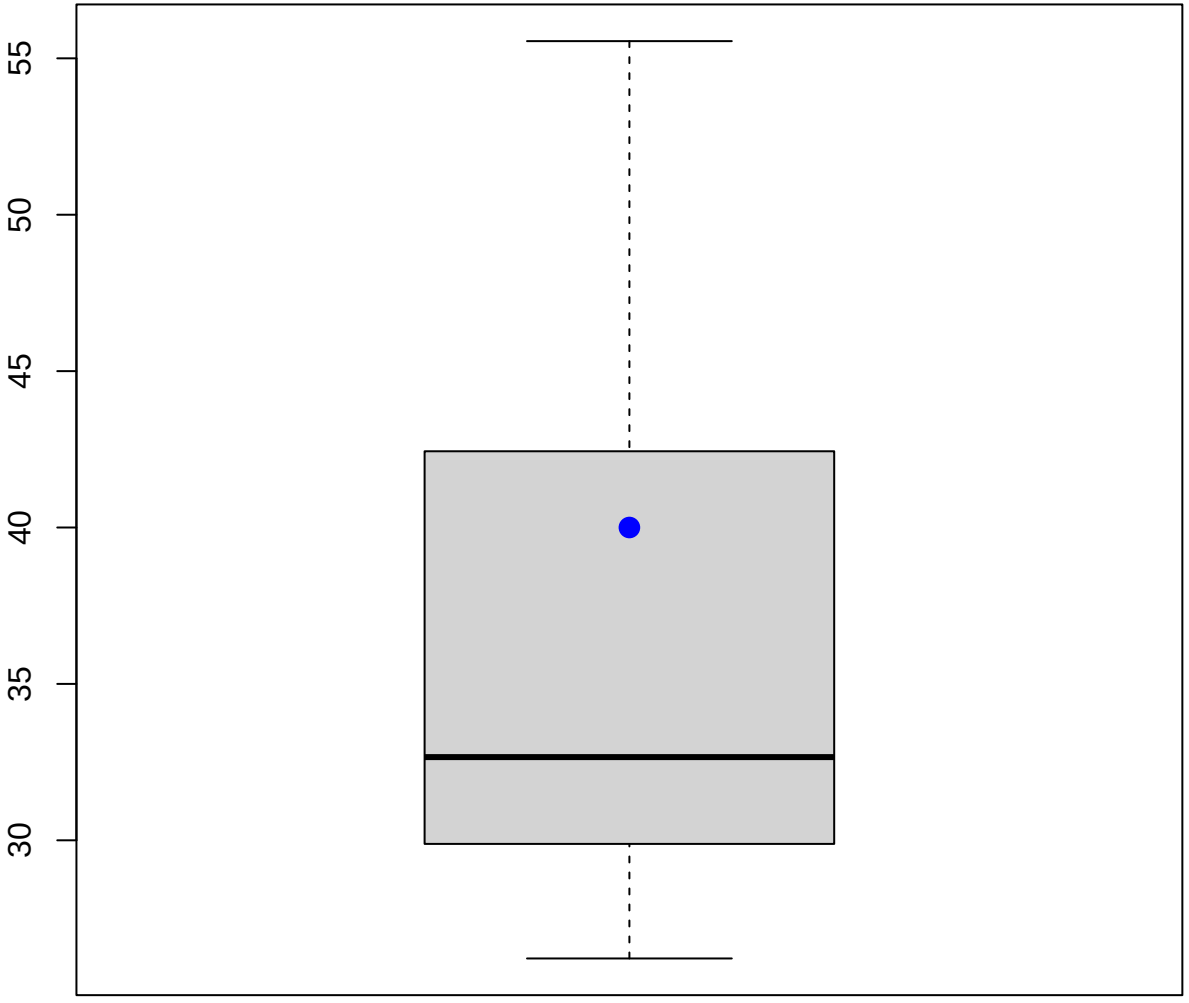
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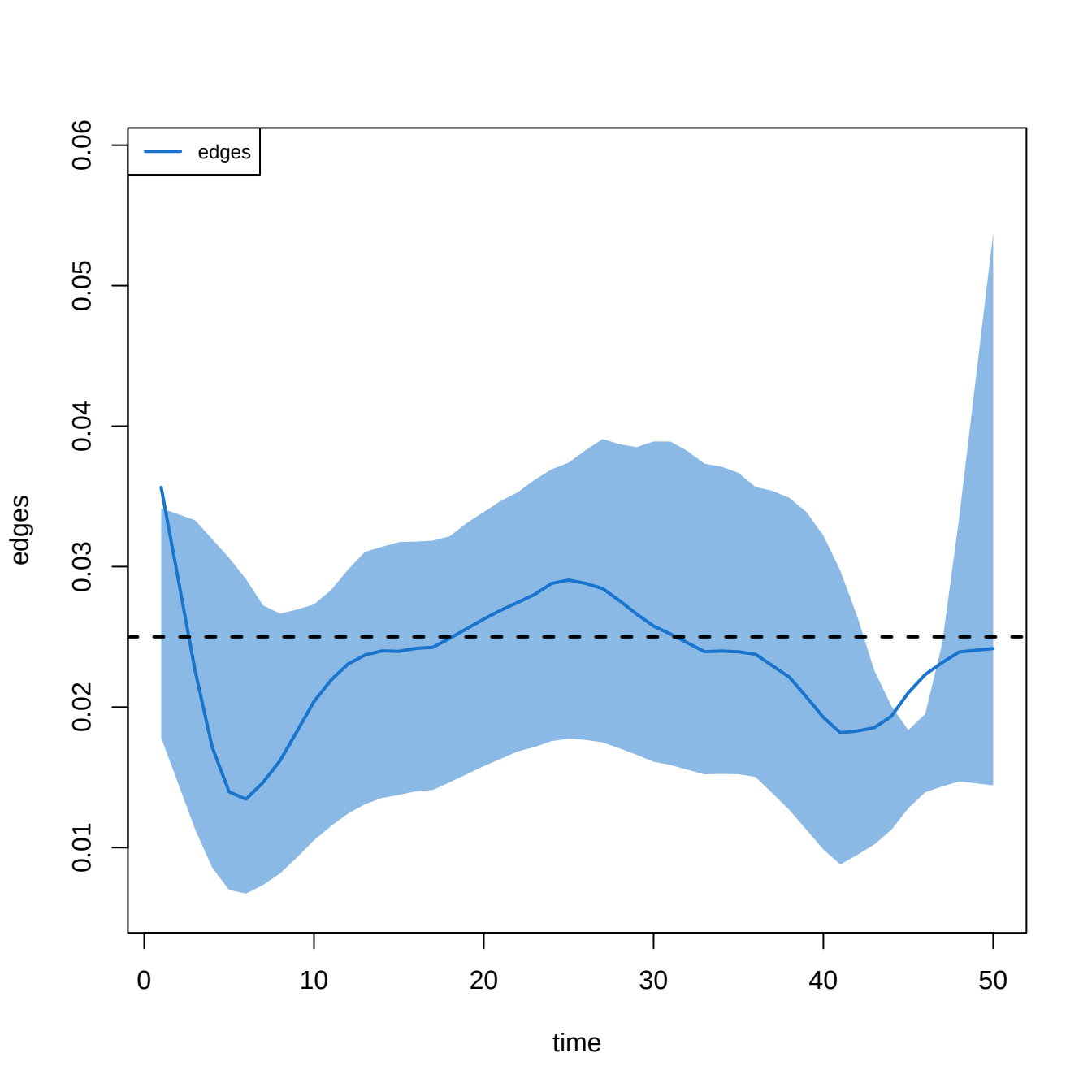
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0.04
0.03
0.02
0.01
edges
0
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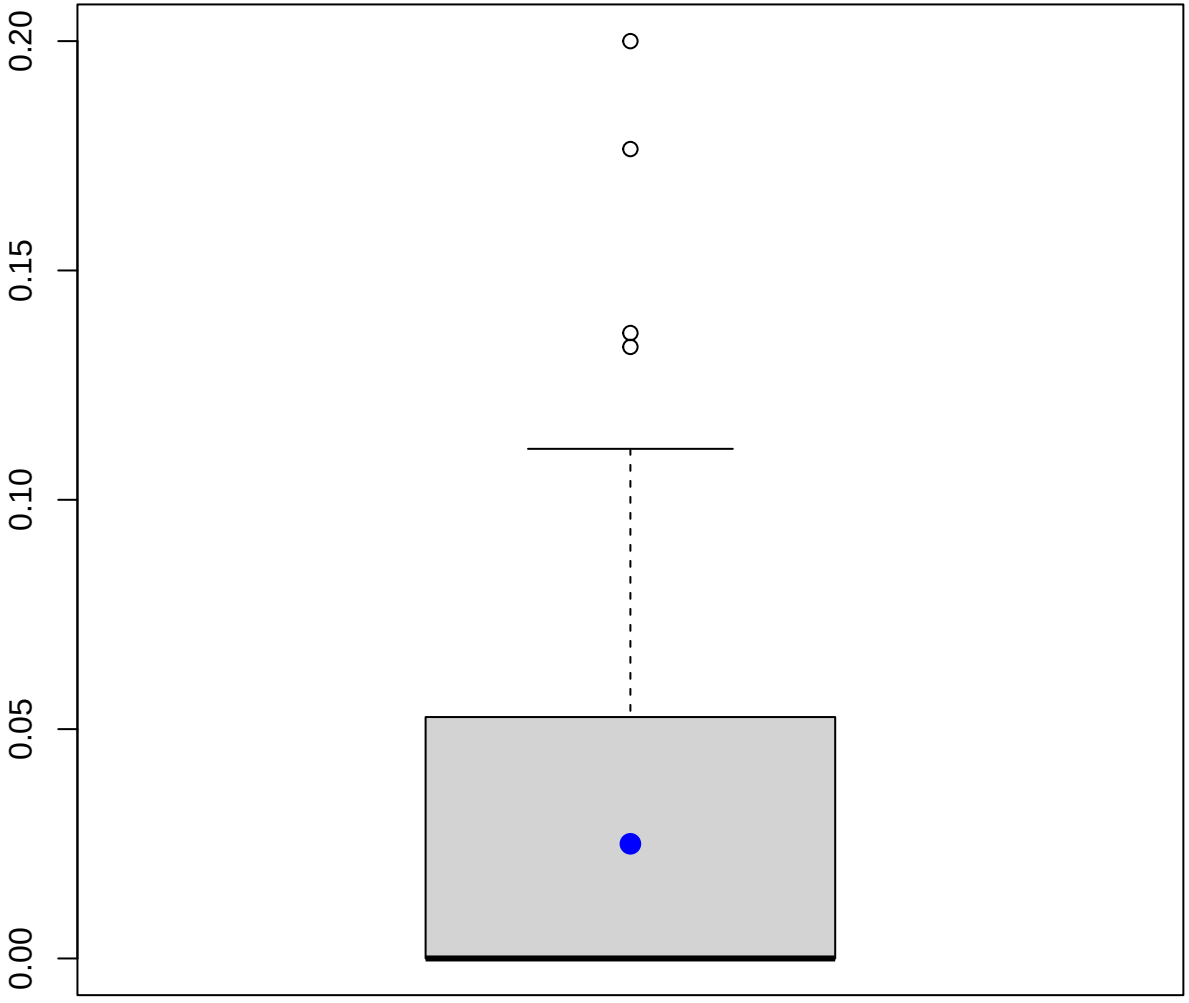
40
50
time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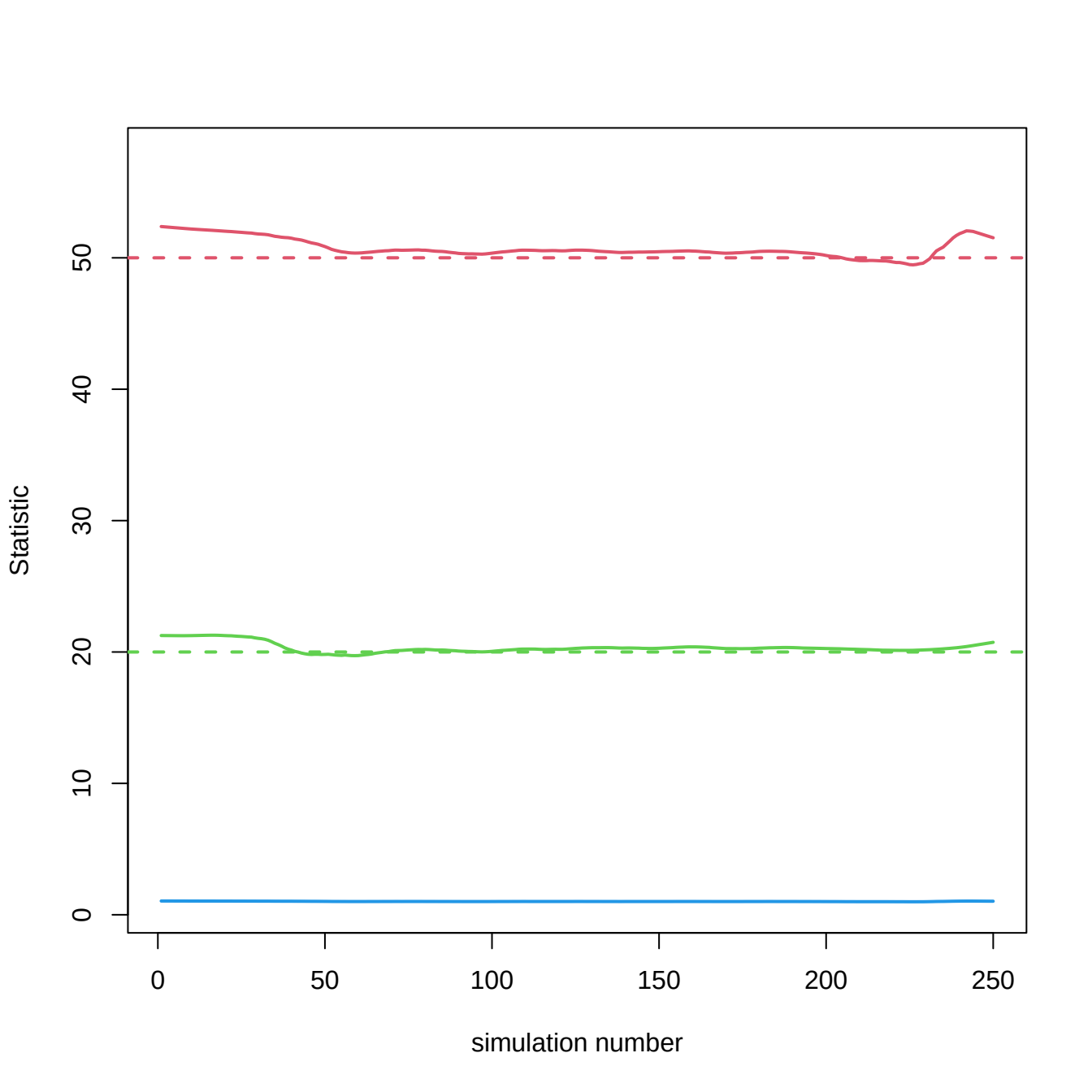
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100
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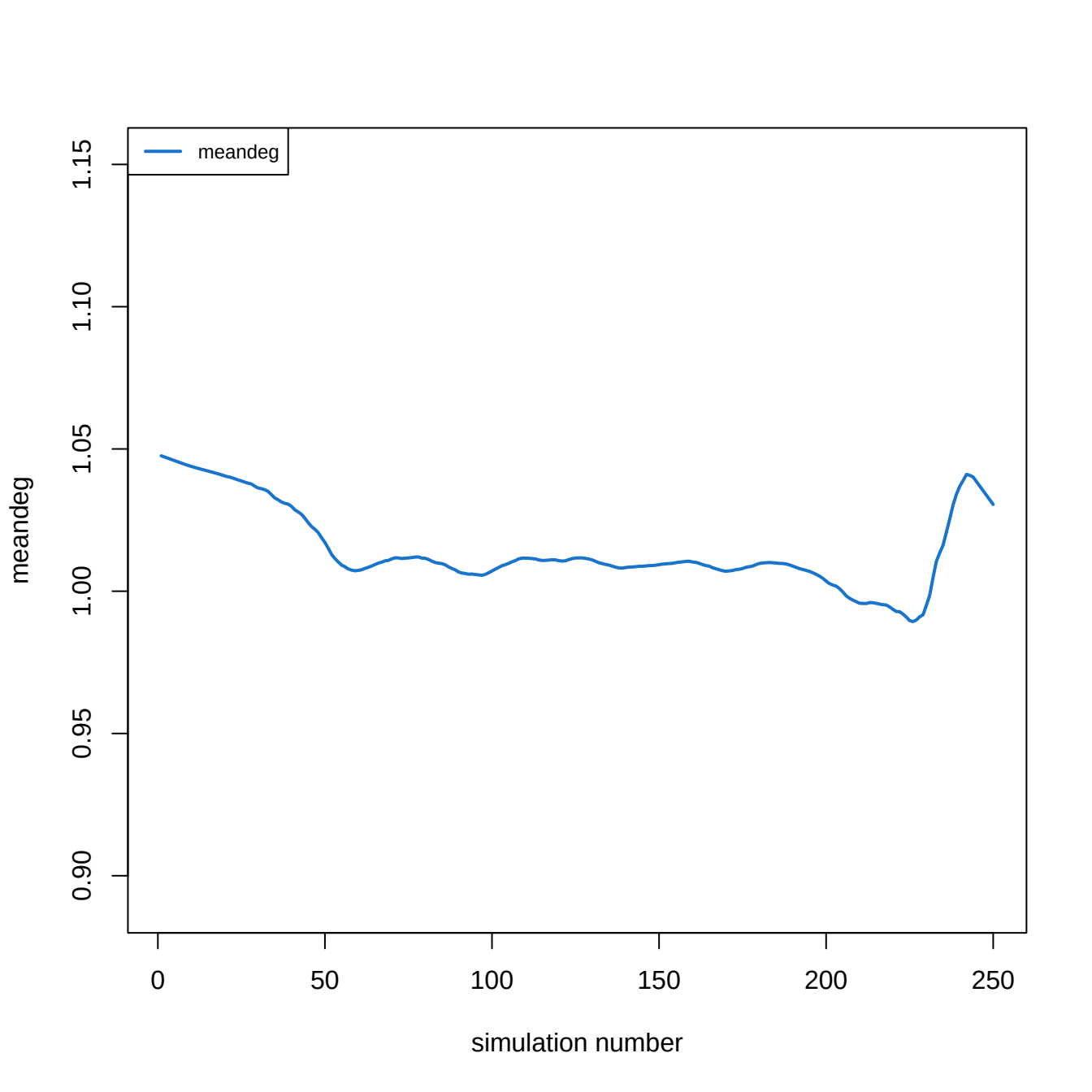
200
250
simulation number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0.90
meandeg
0
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200
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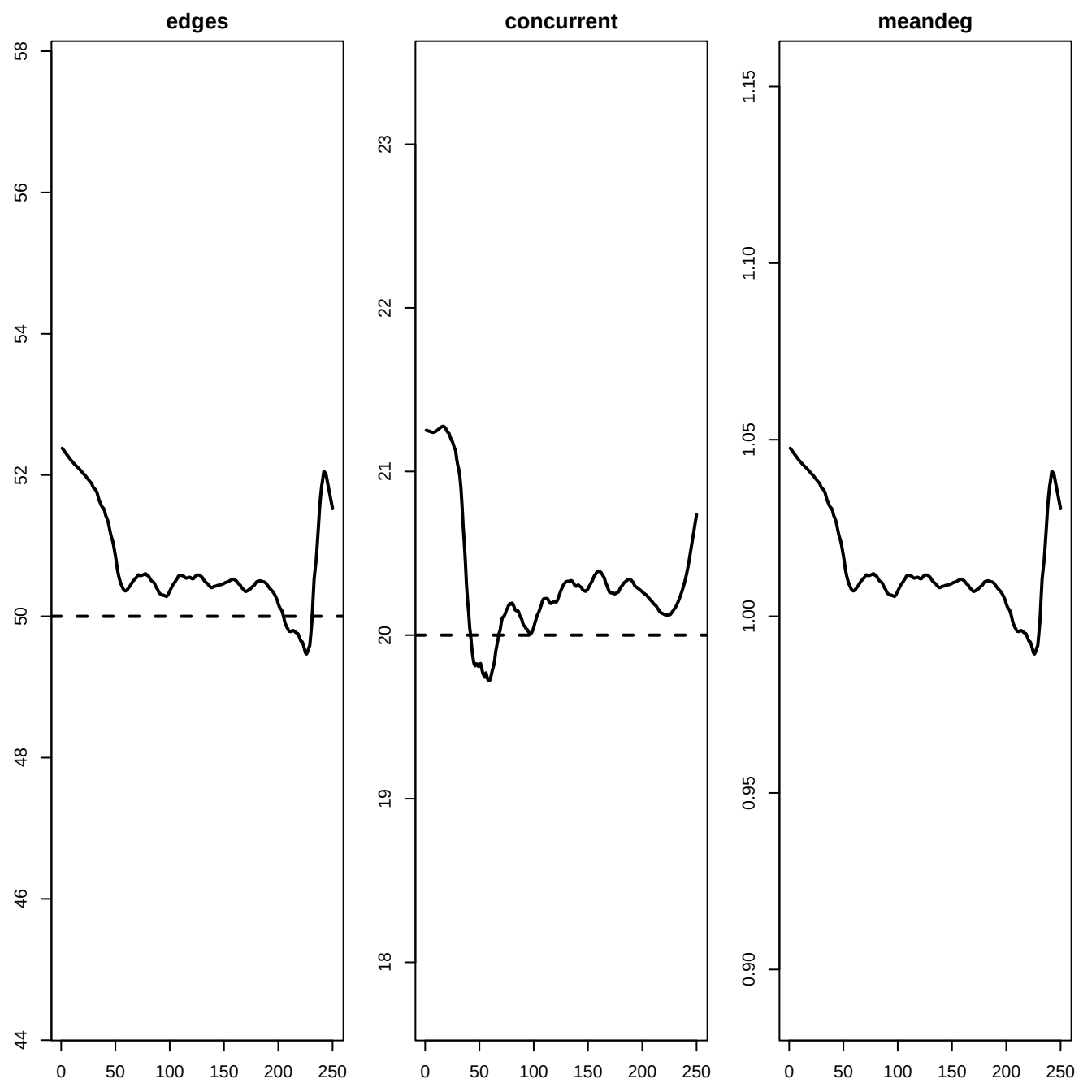
simulation number


edges
concurrent
meandeg
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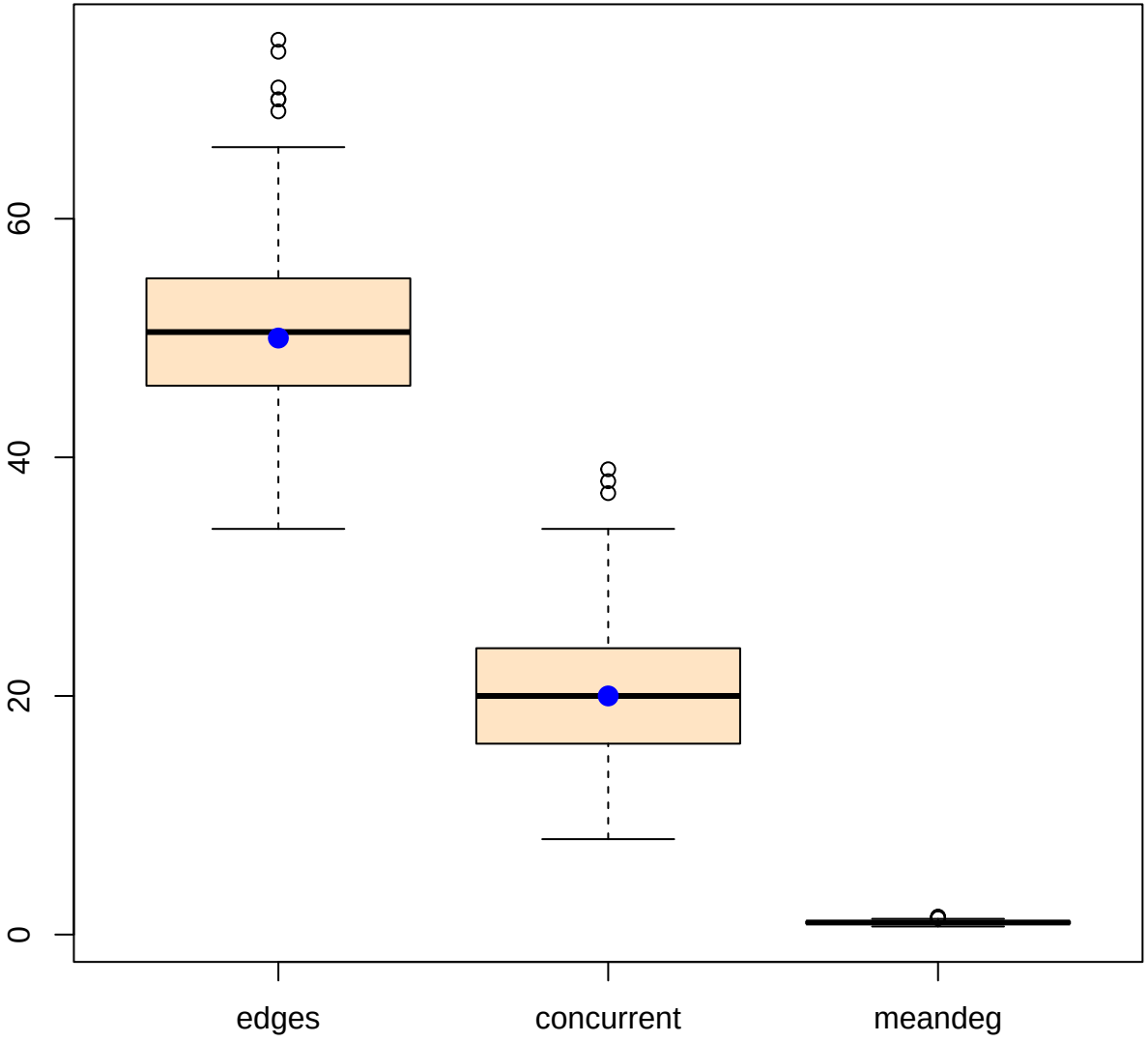
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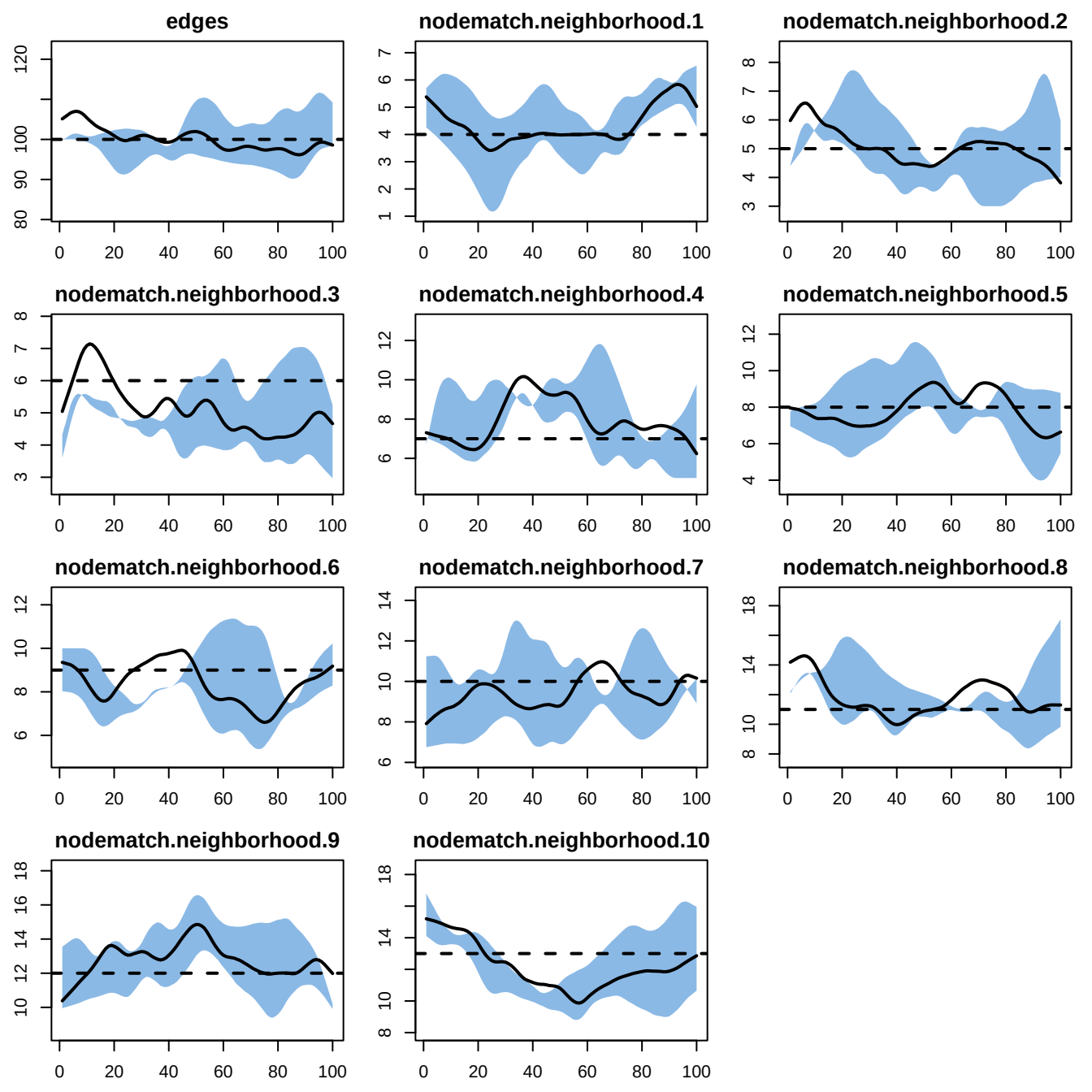
edges
concurrent
meandeg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nodematch.neighborhood.2
nodematch.neighborhood.3
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nodematch.neighborhood.8
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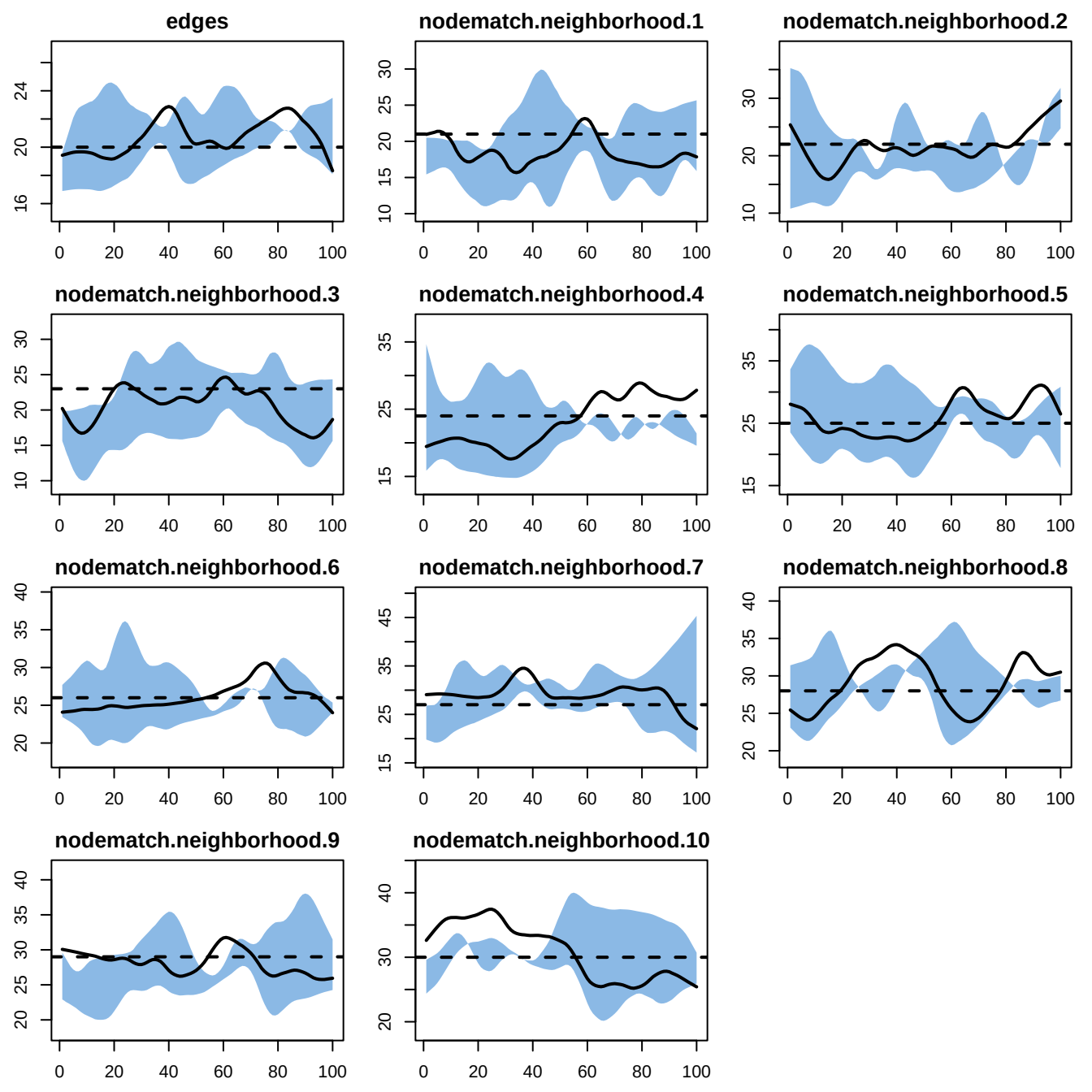
edges
nodematch.neighborhood.1
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nodematch.neighborhood.9
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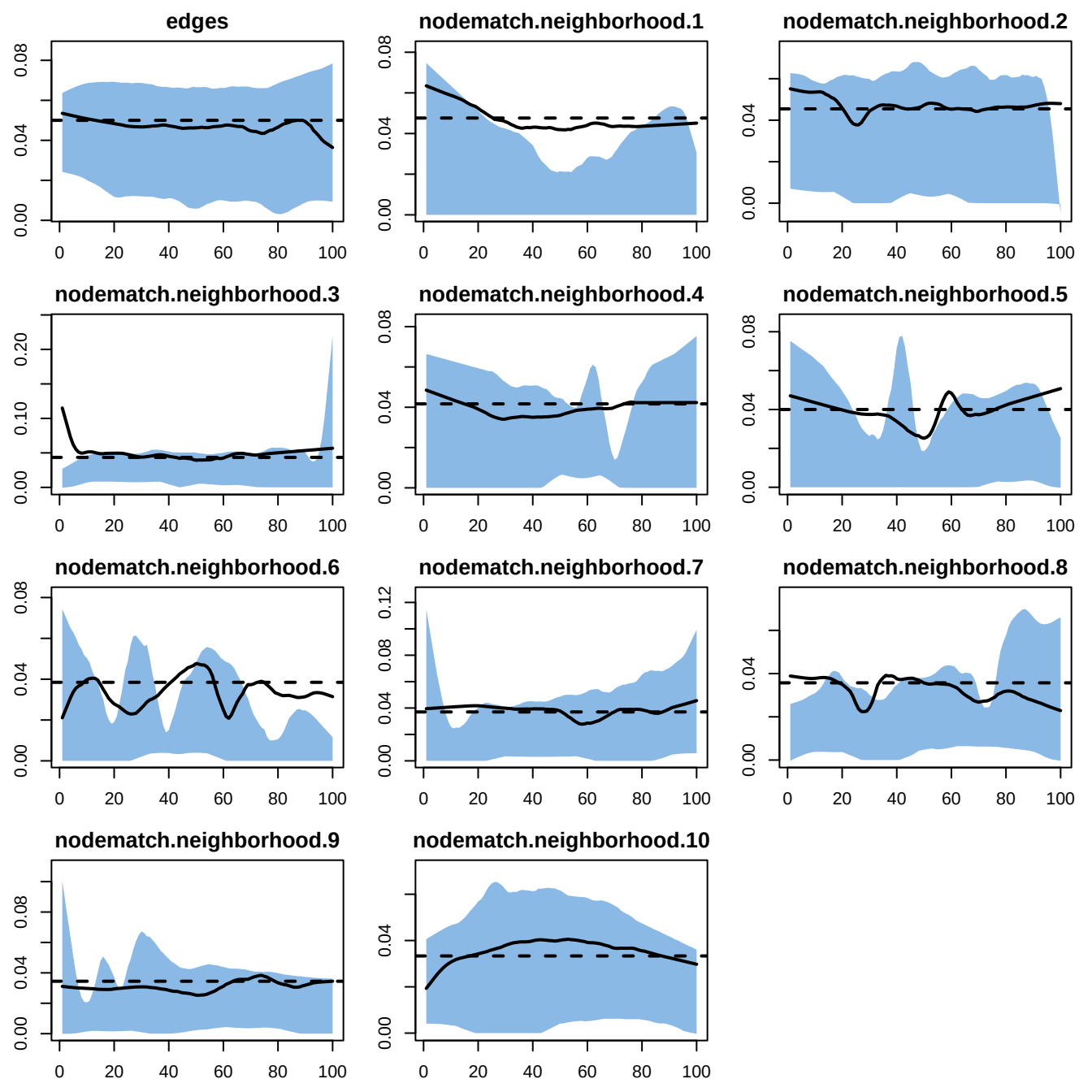
edges
nodematch.neighborhood.1
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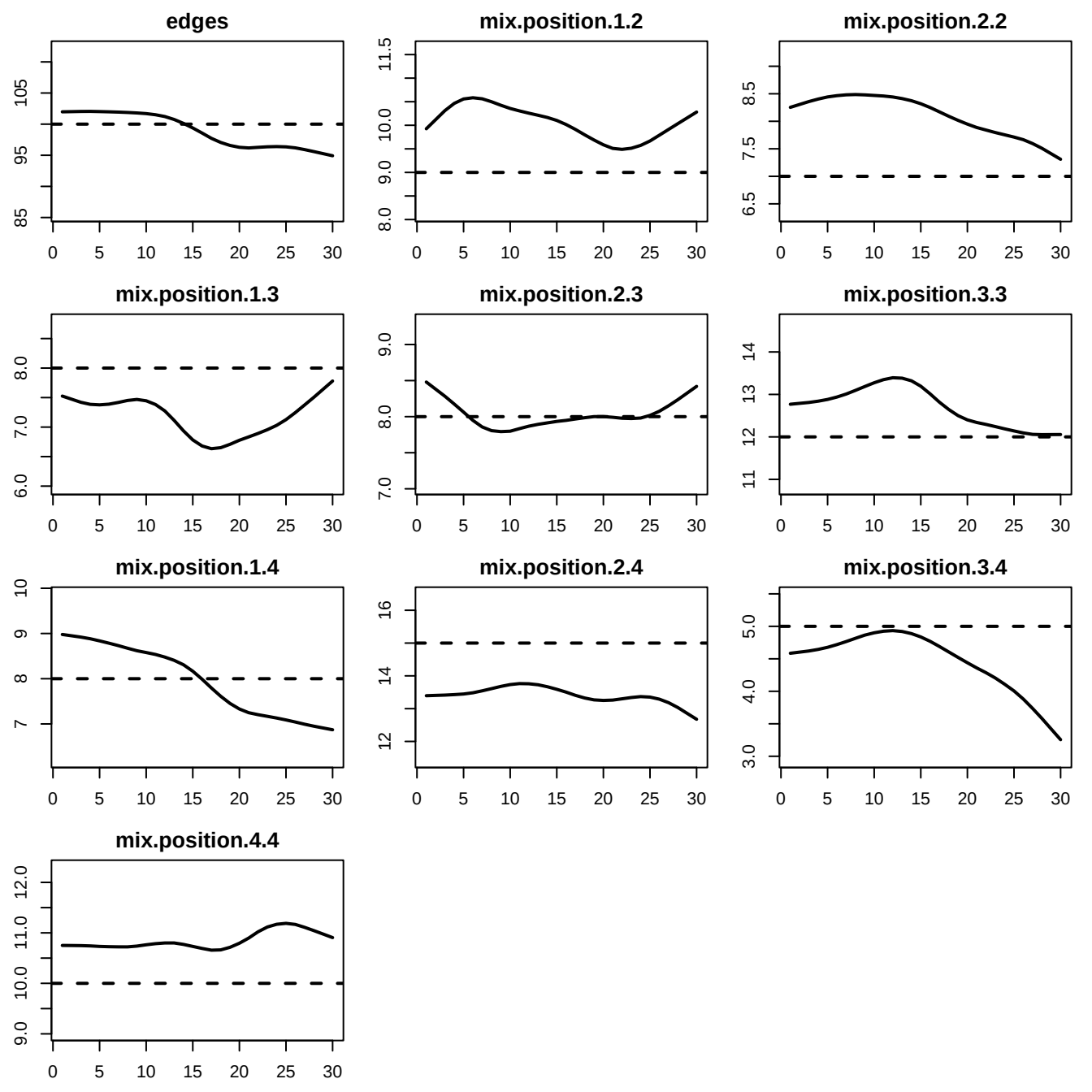
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mix.position.2.2
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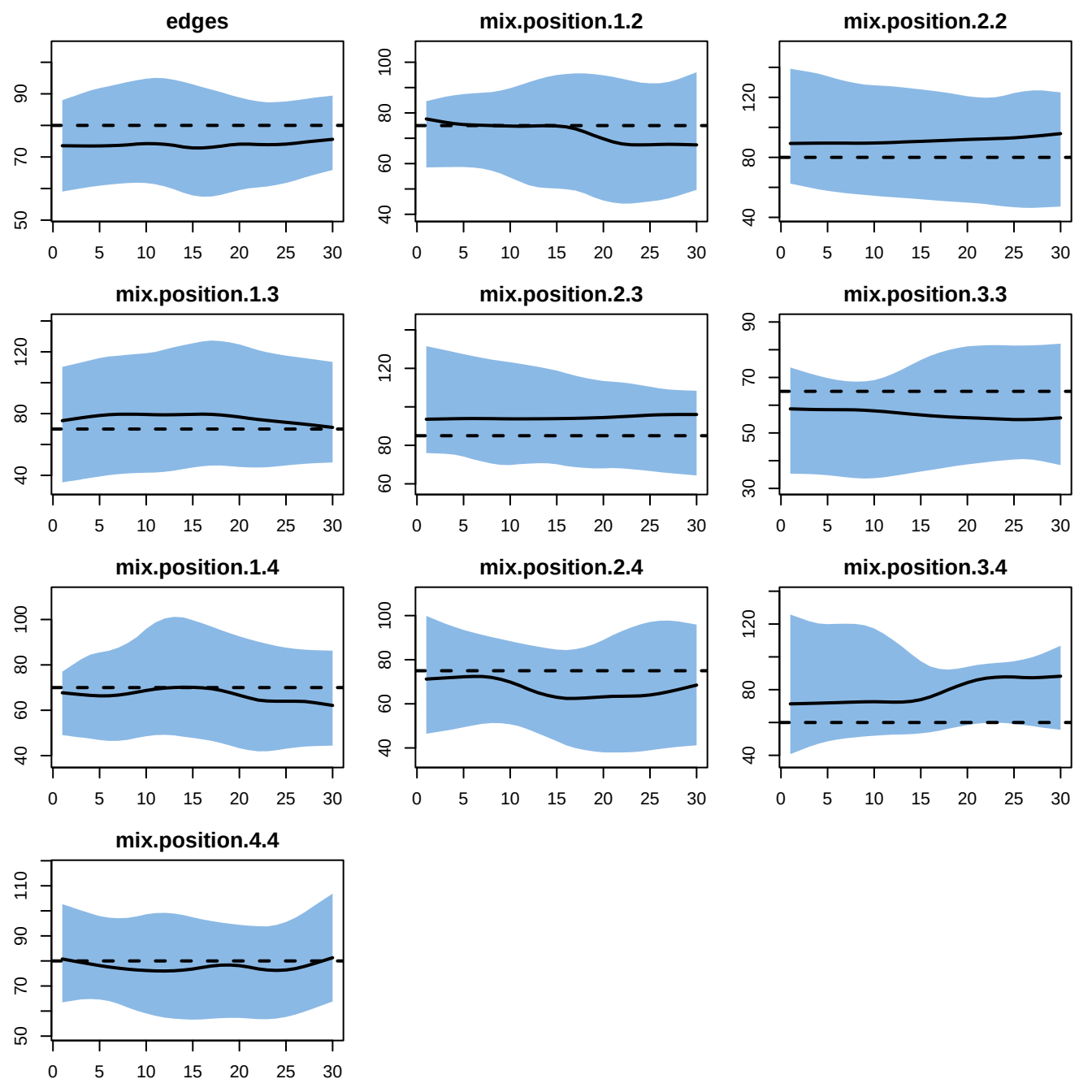
mix.position.3.3
mix.position.1.4
mix.position.2.4
mix.position.3.4
mix.position.4.4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mix.position.2.2
mix.position.1.3
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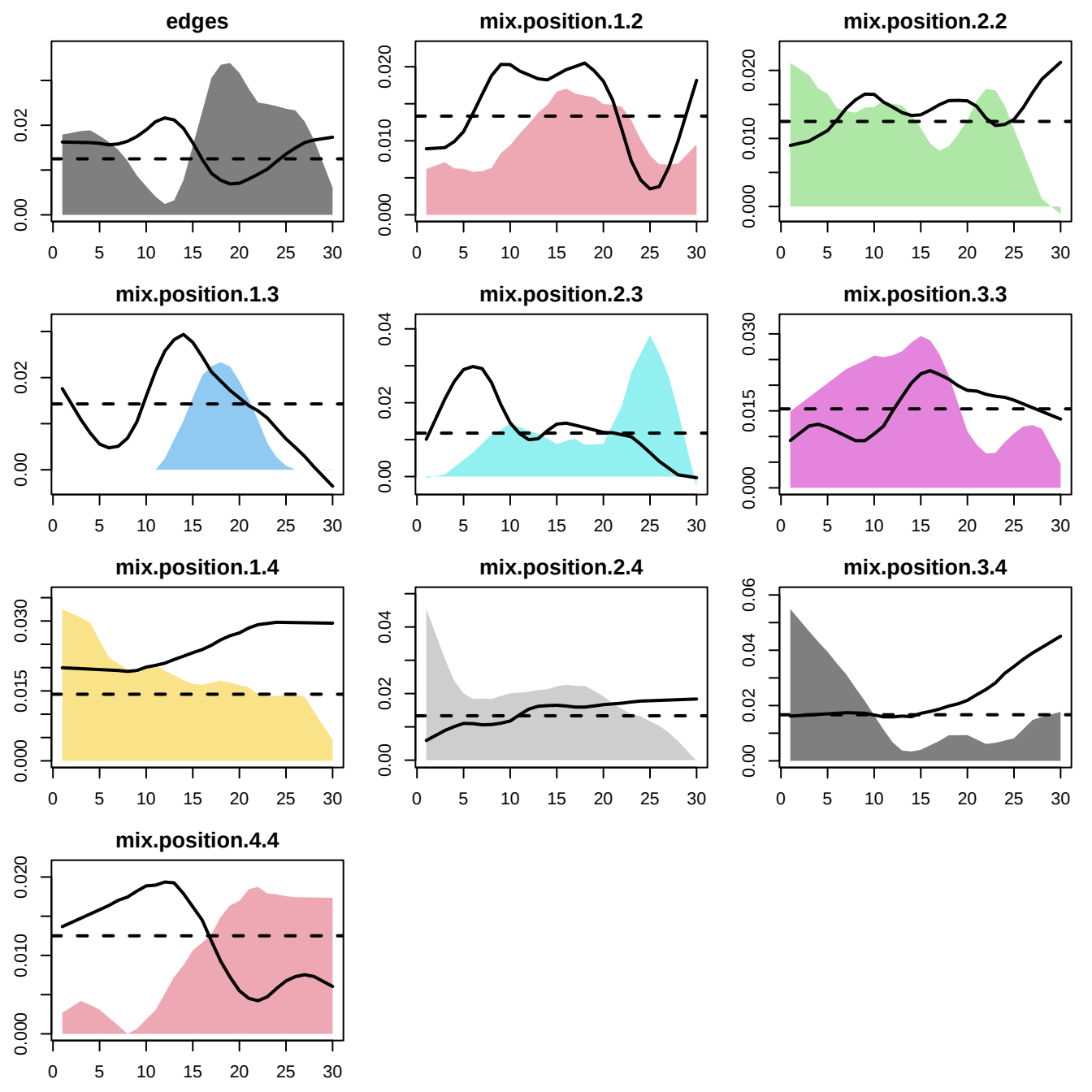
mix.position.3.3
mix.position.1.4
mix.position.2.4
mix.position.3.4
mix.position.4.4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mix.position.1.2
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mix.position.1.3
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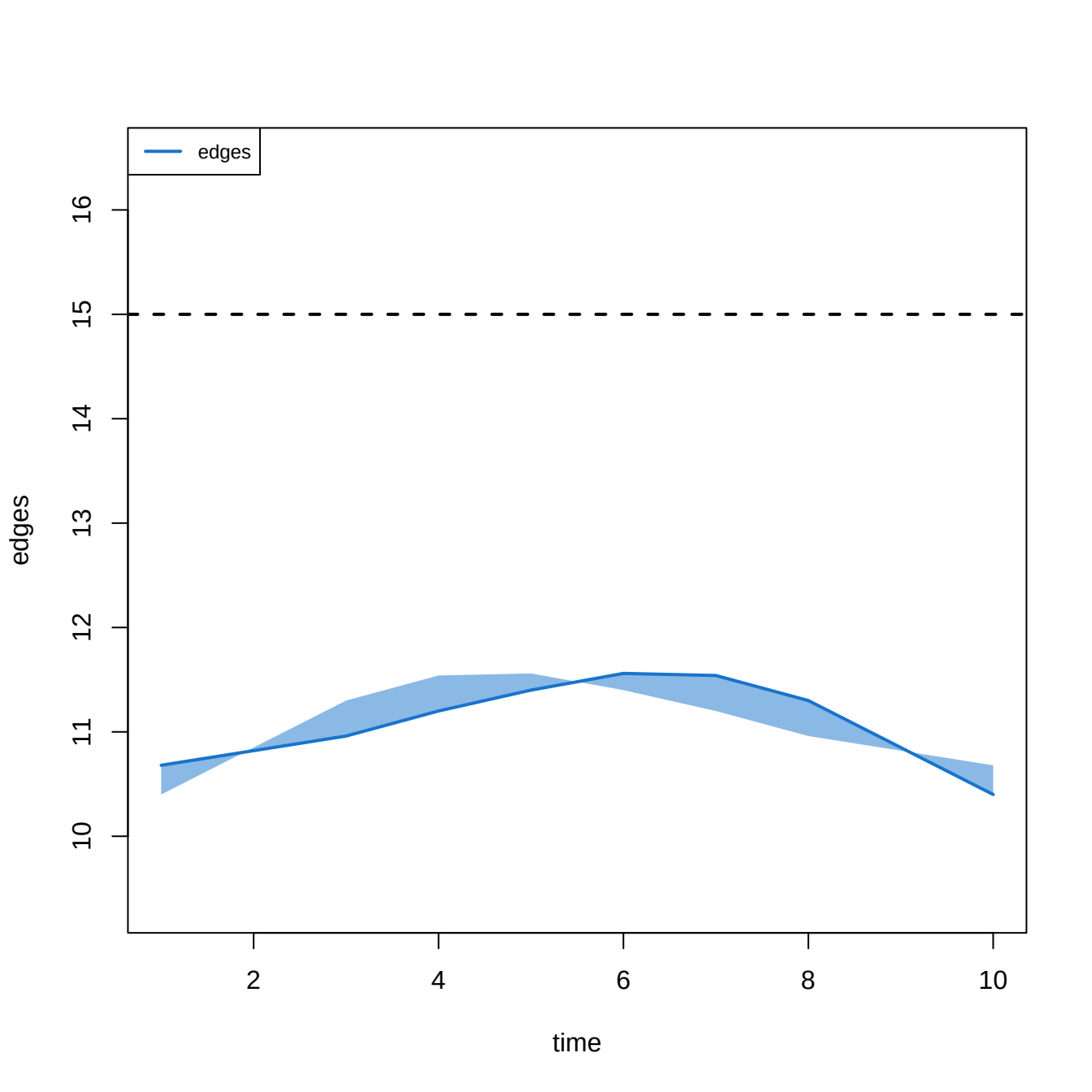
mix.position.3.3
mix.position.1.4
mix.position.2.4
mix.position.3.4
mix.position.4.4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edges
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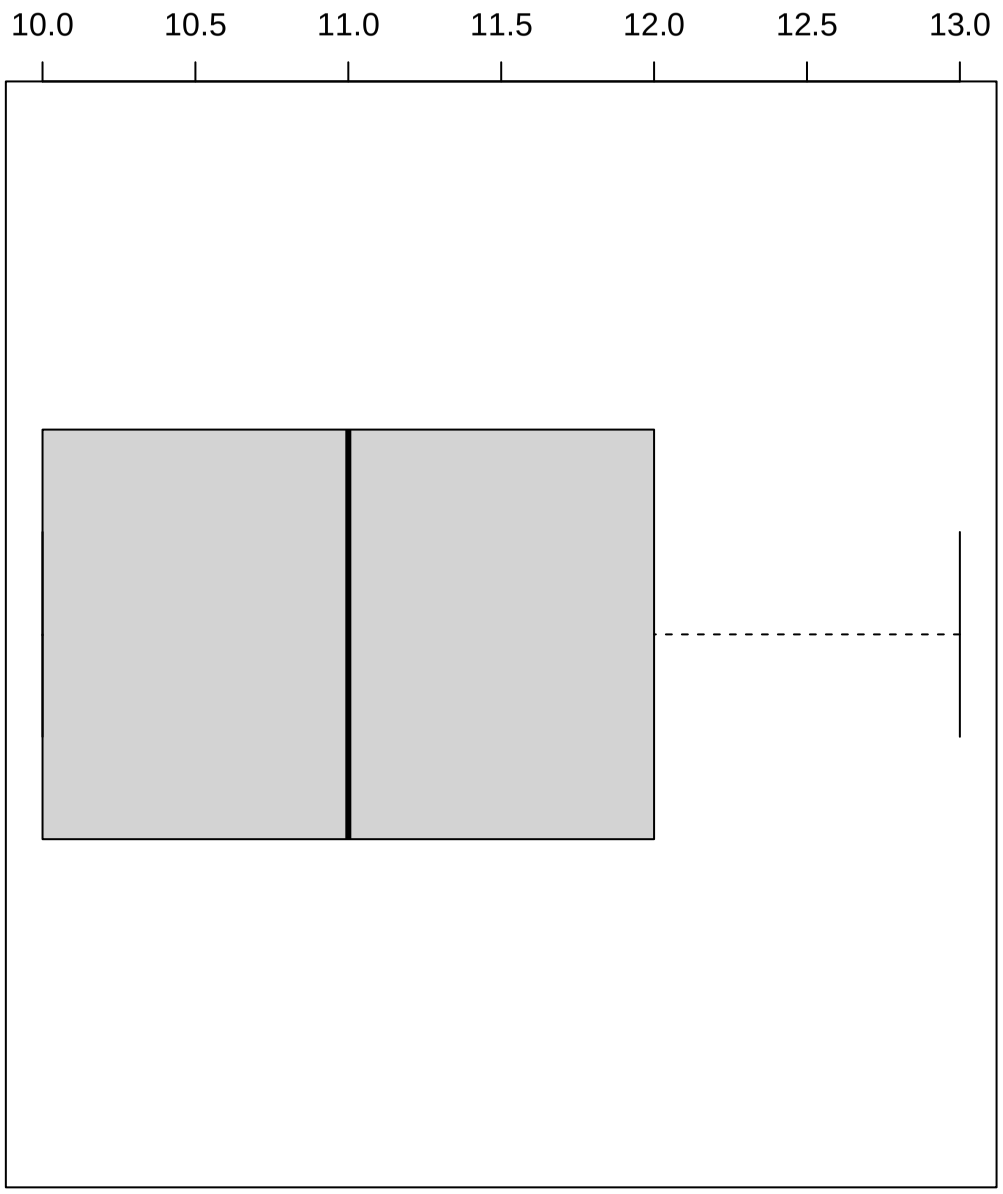
6
8
10
time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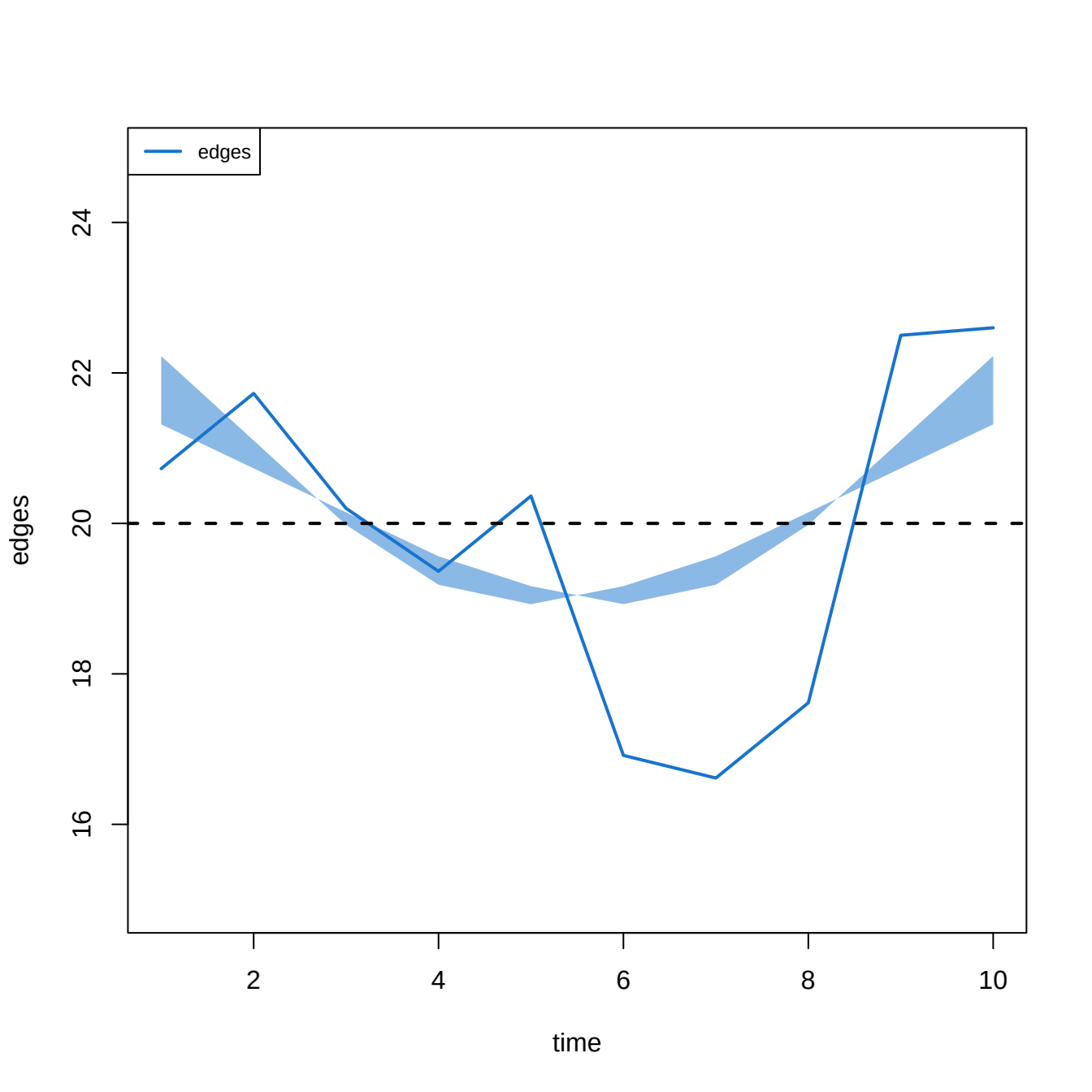
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edges
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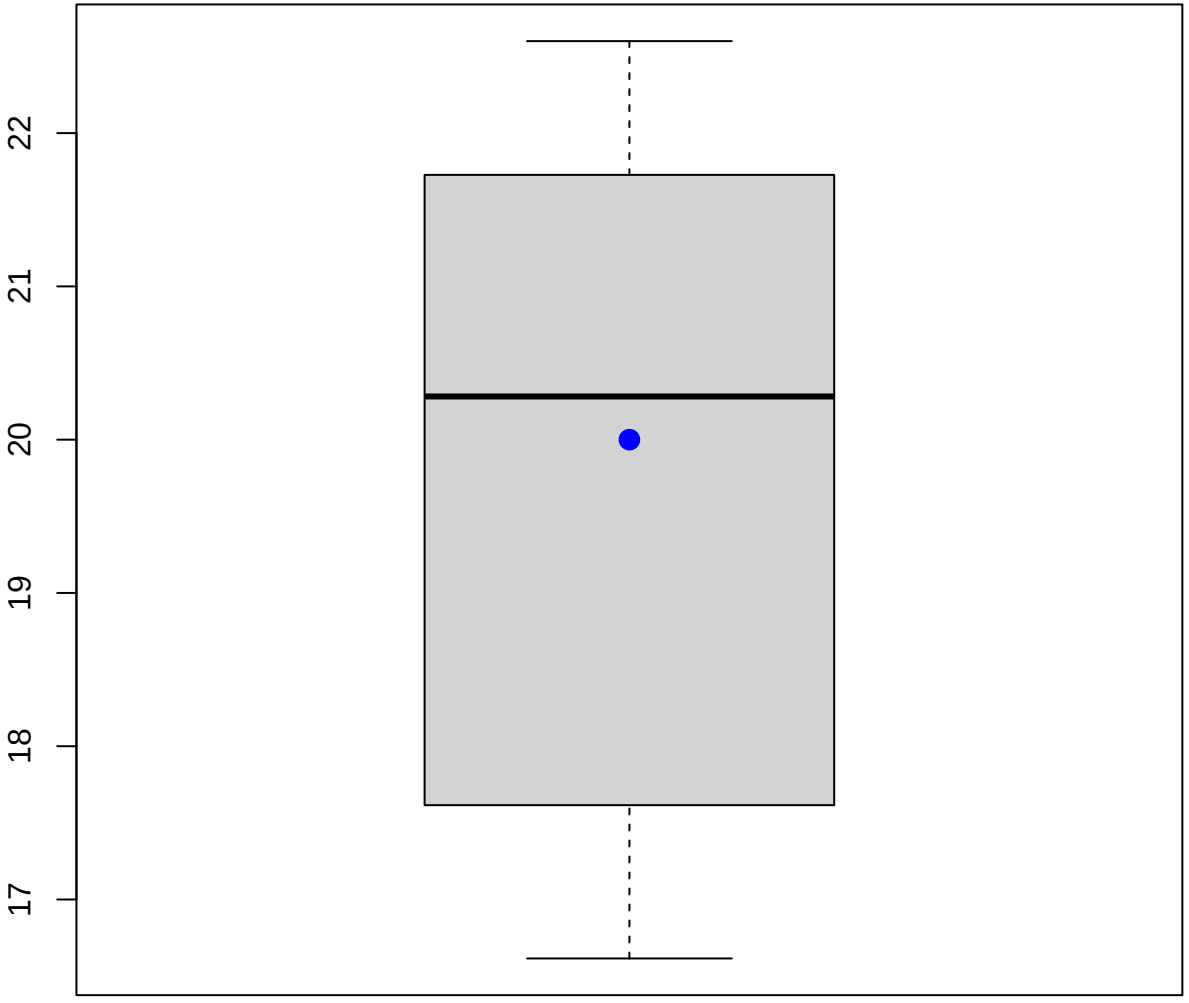
time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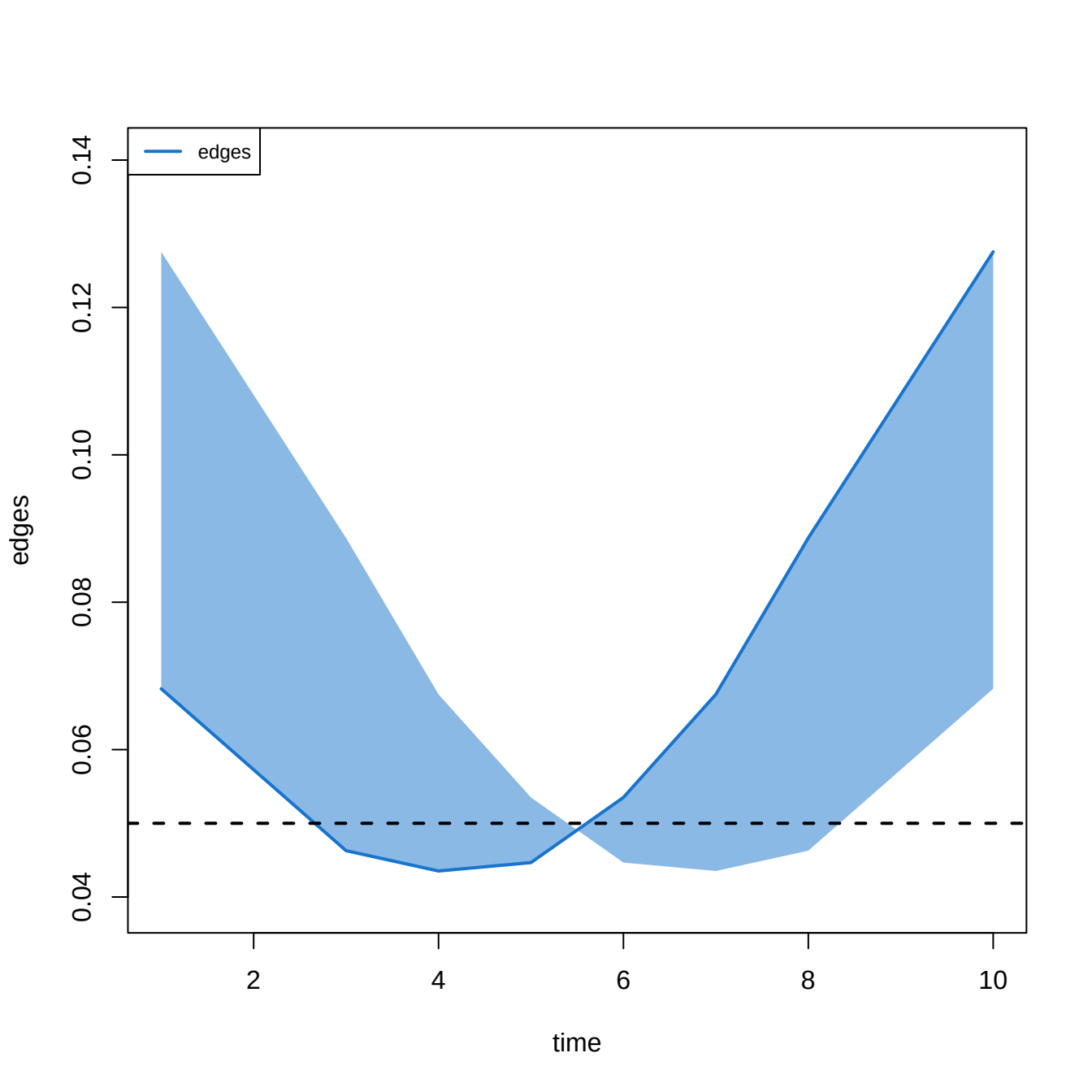
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edges
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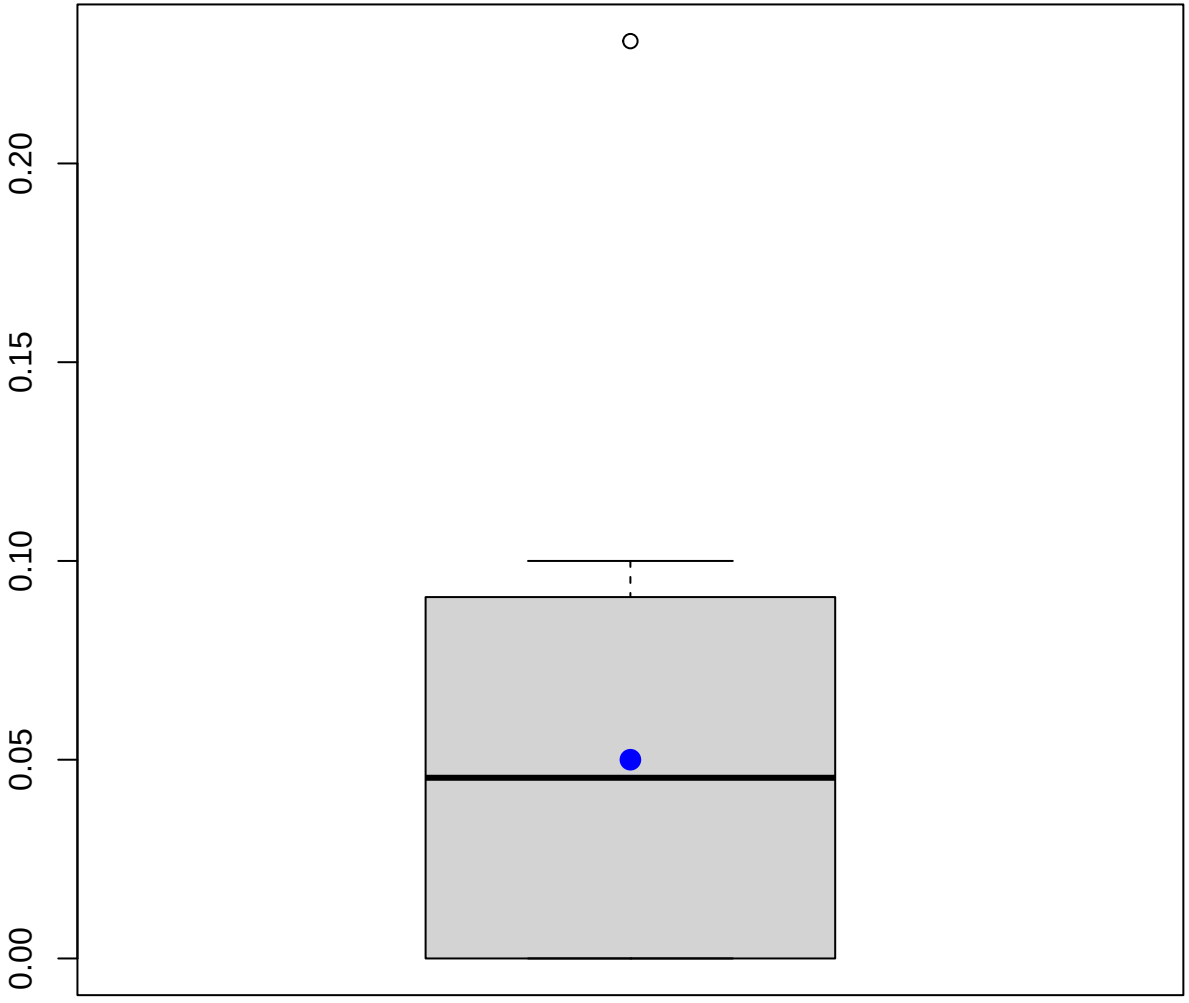
time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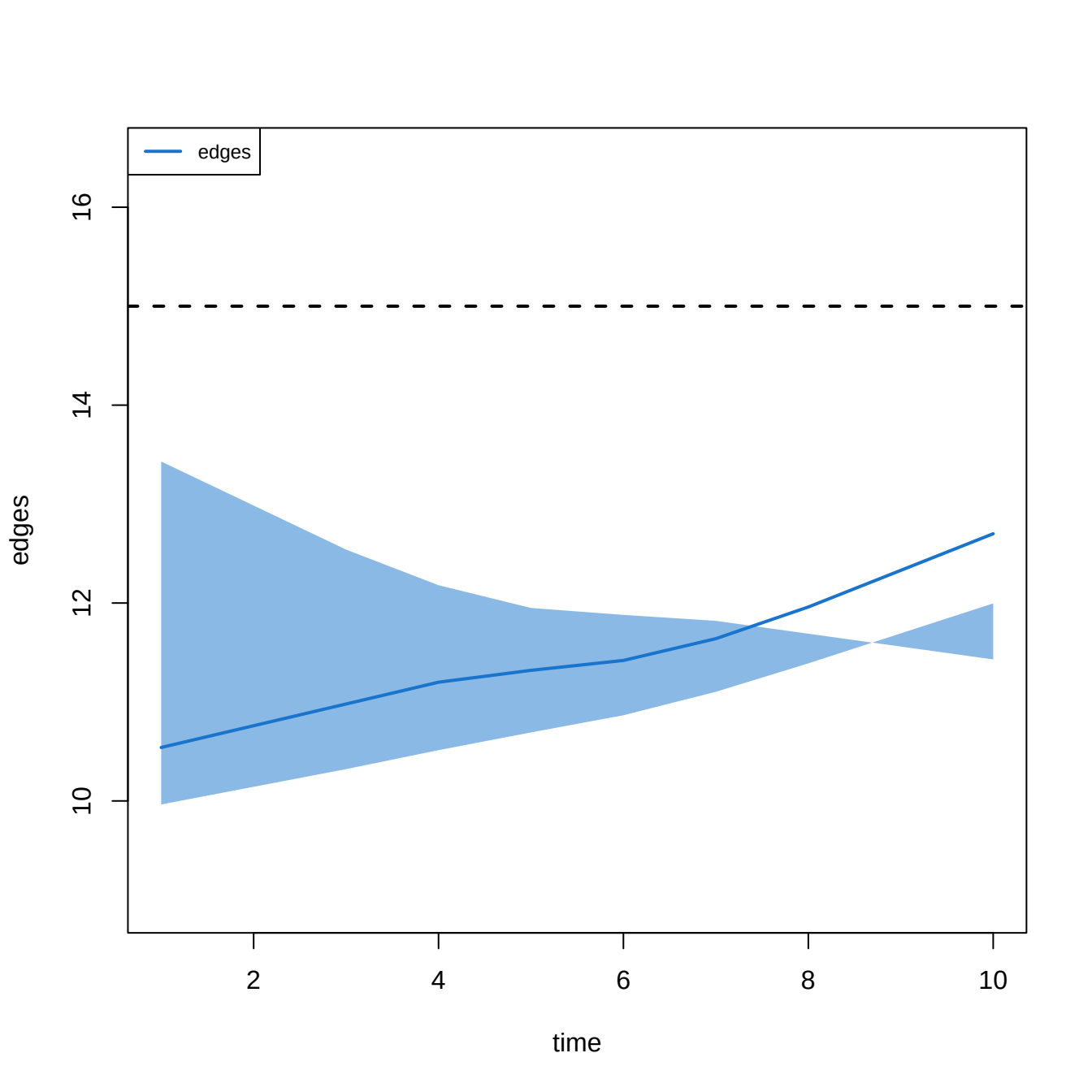
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edges
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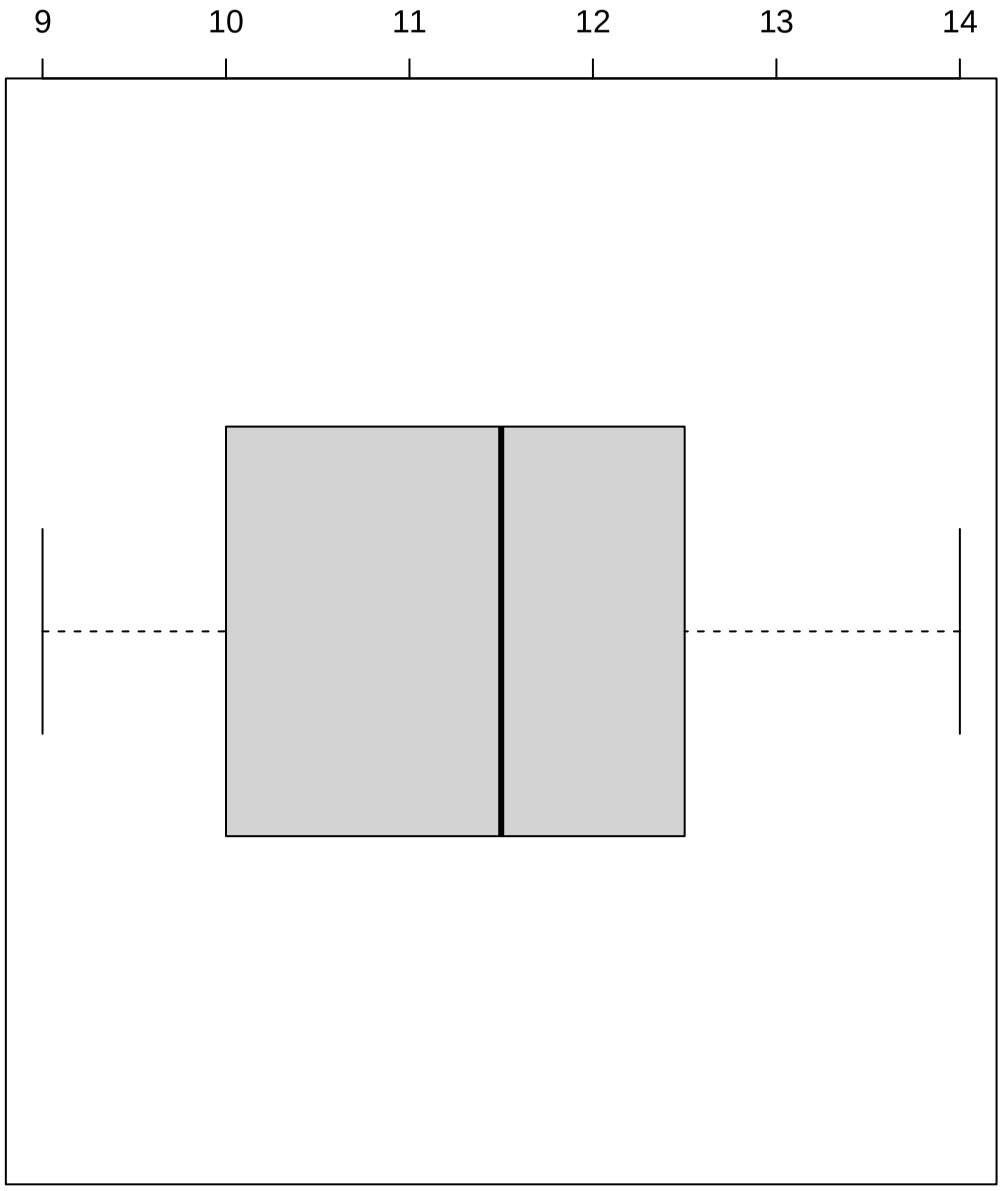
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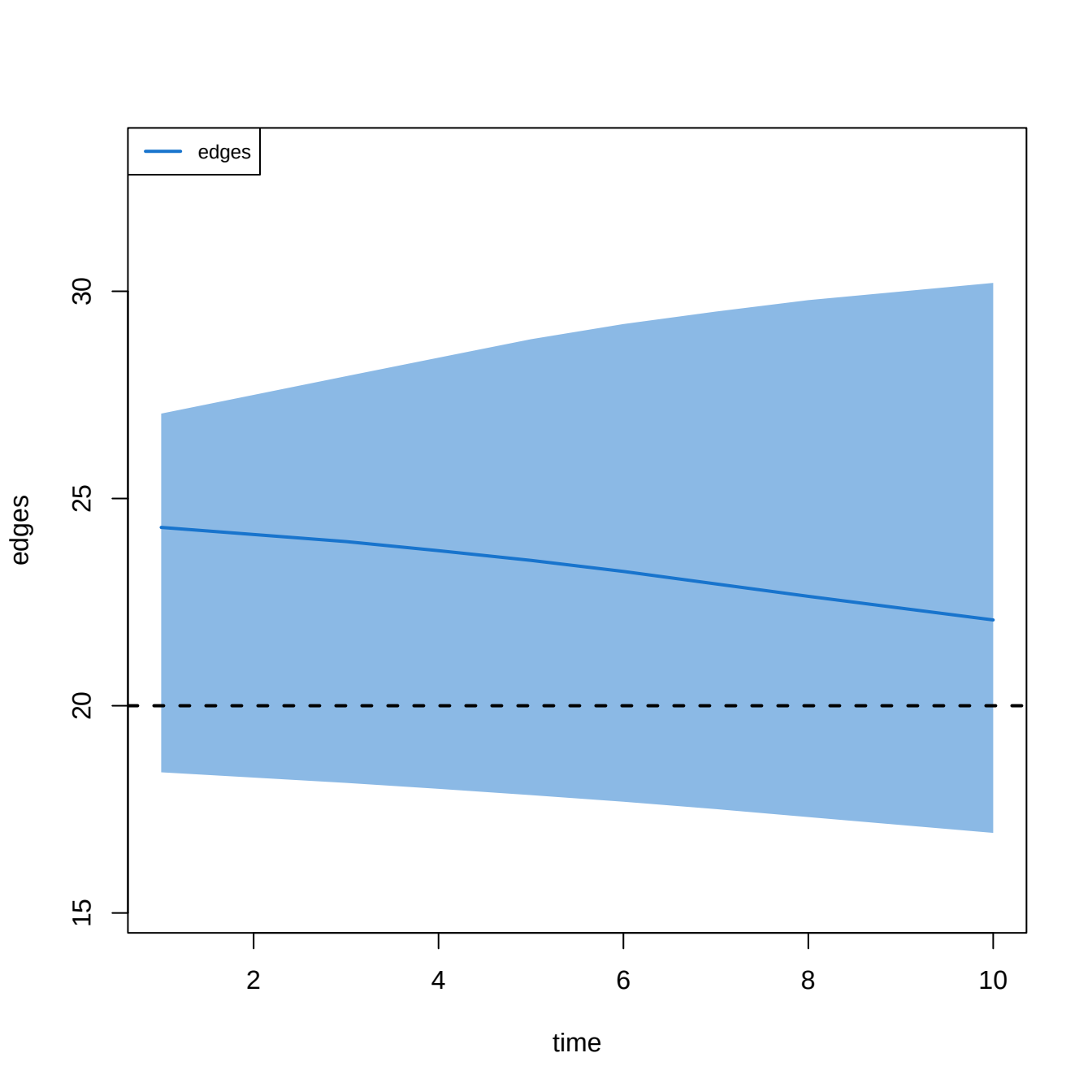
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edges
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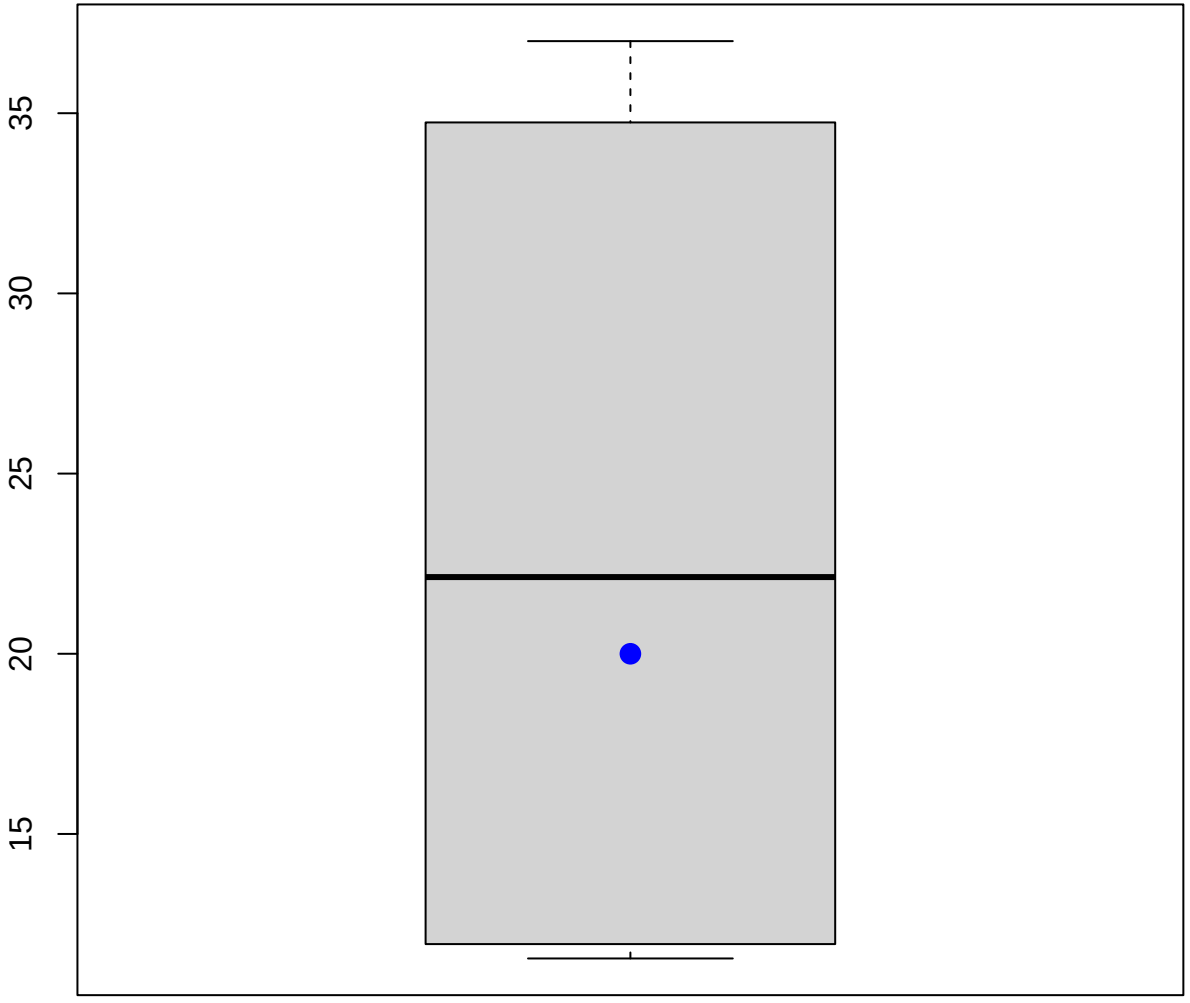
time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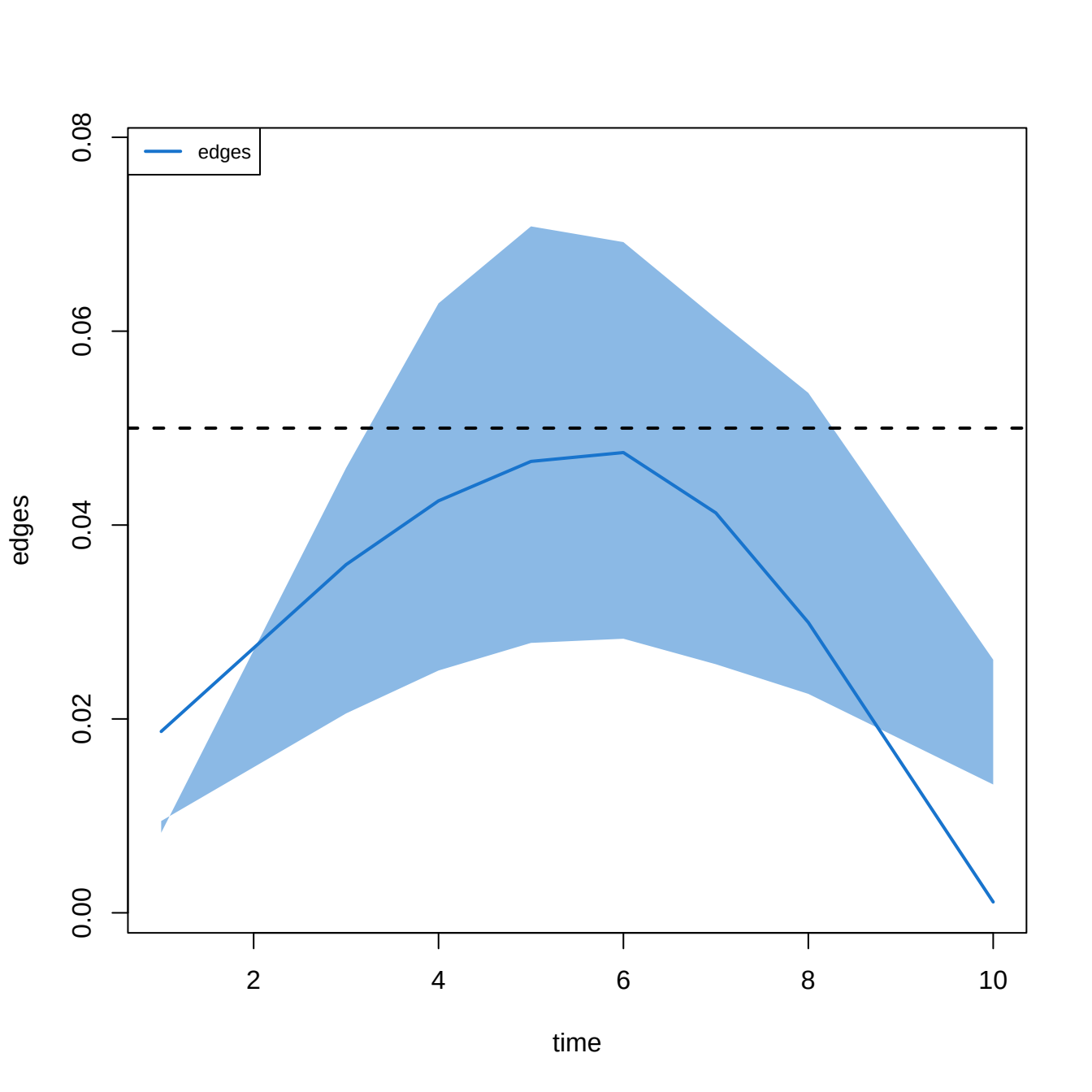
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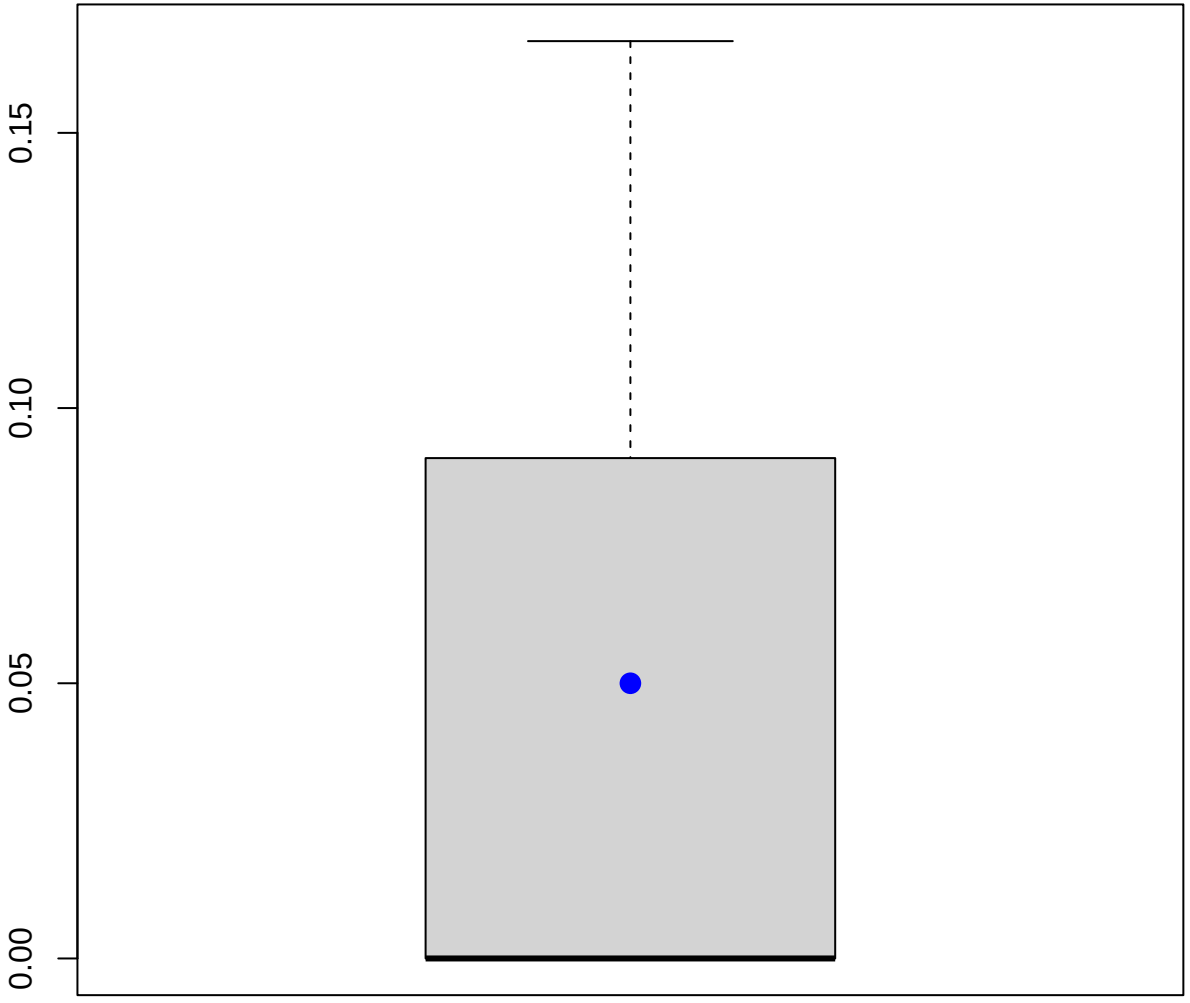
time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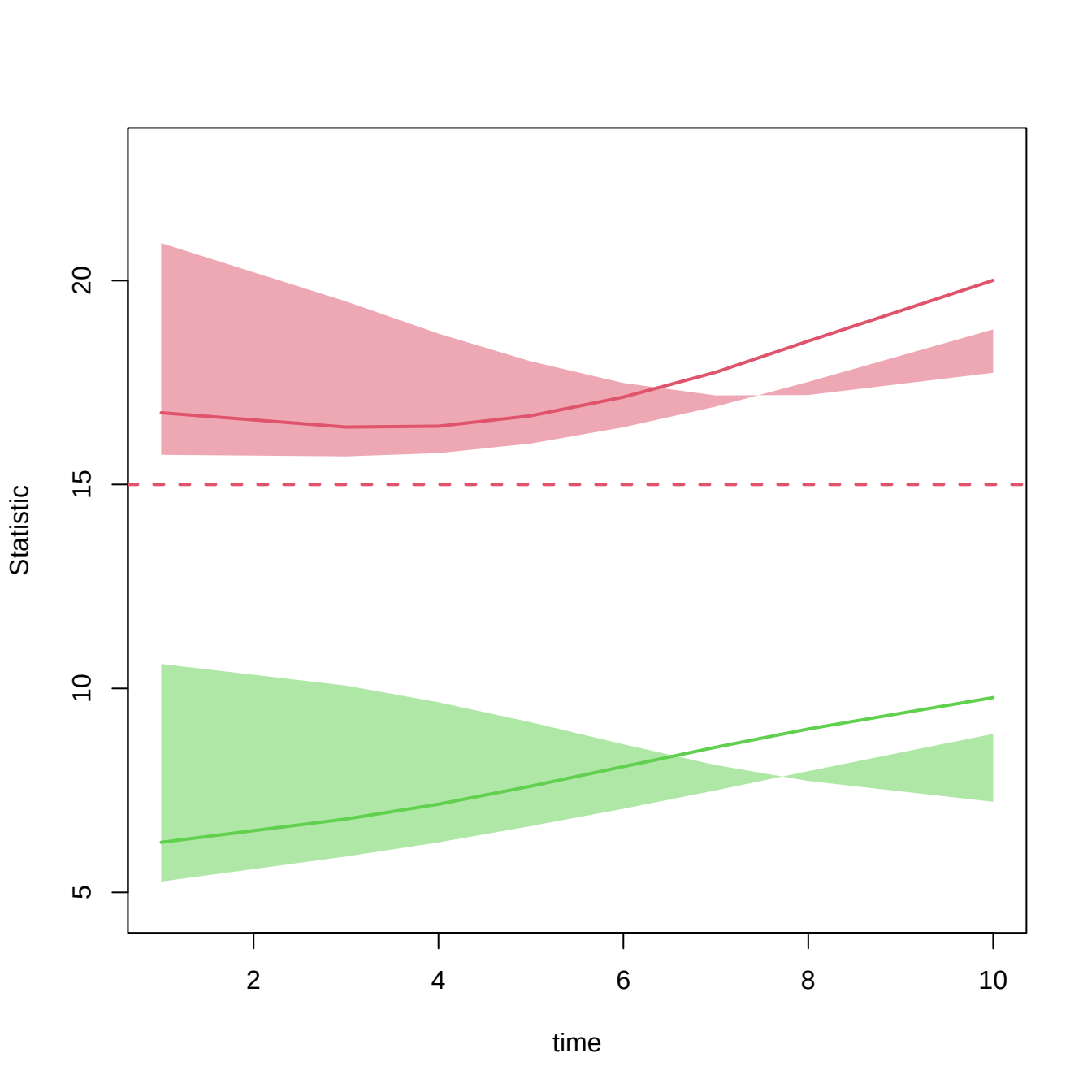
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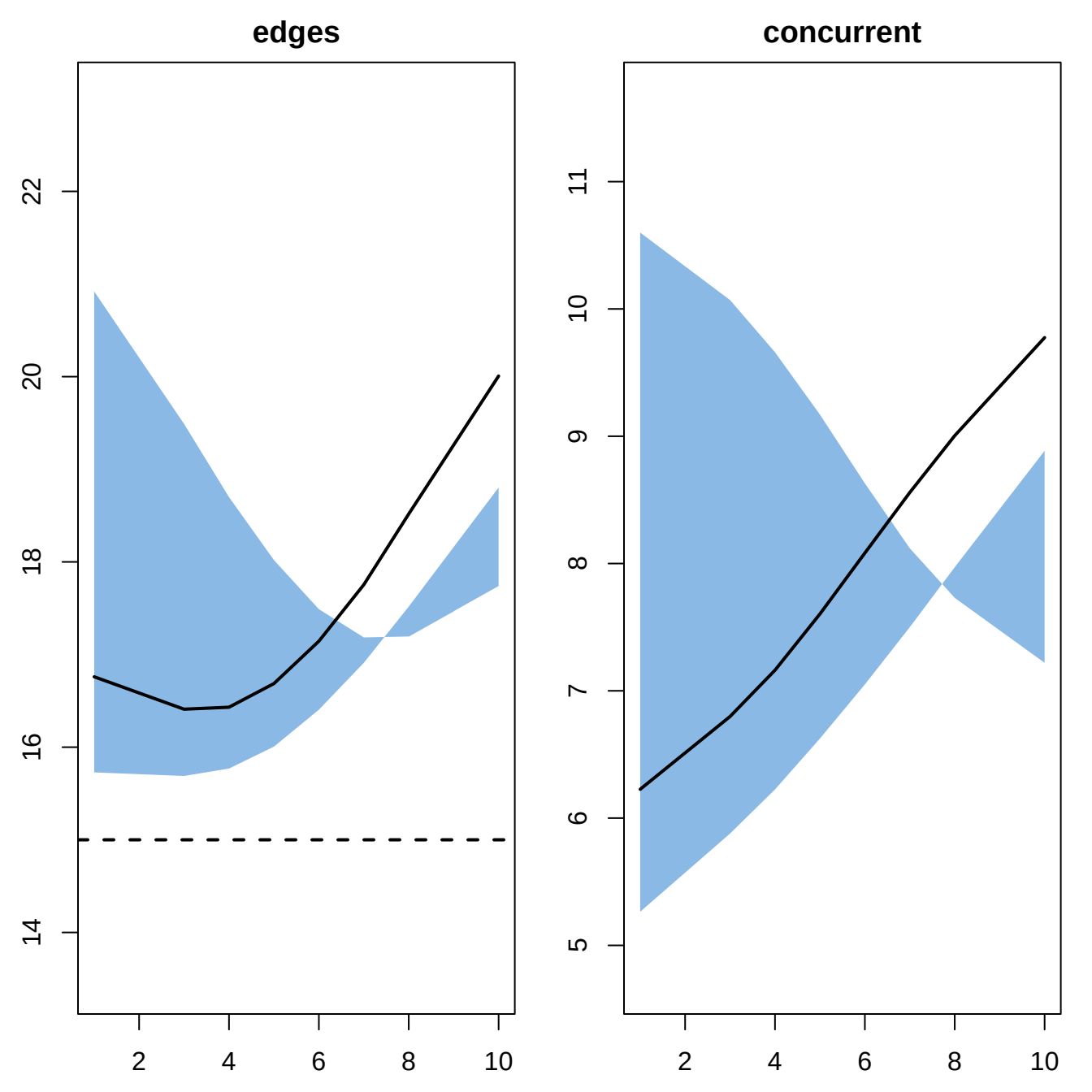
time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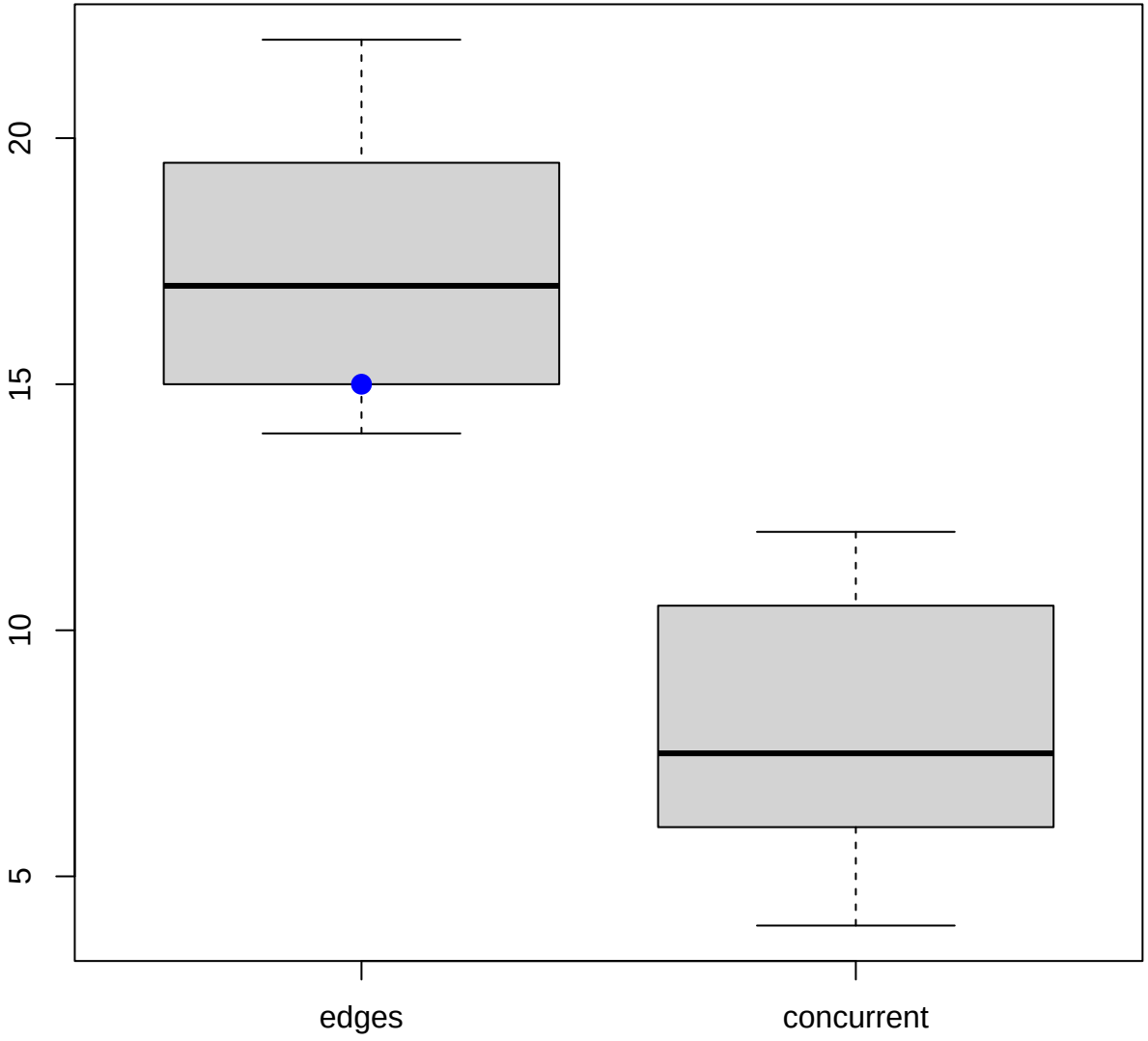
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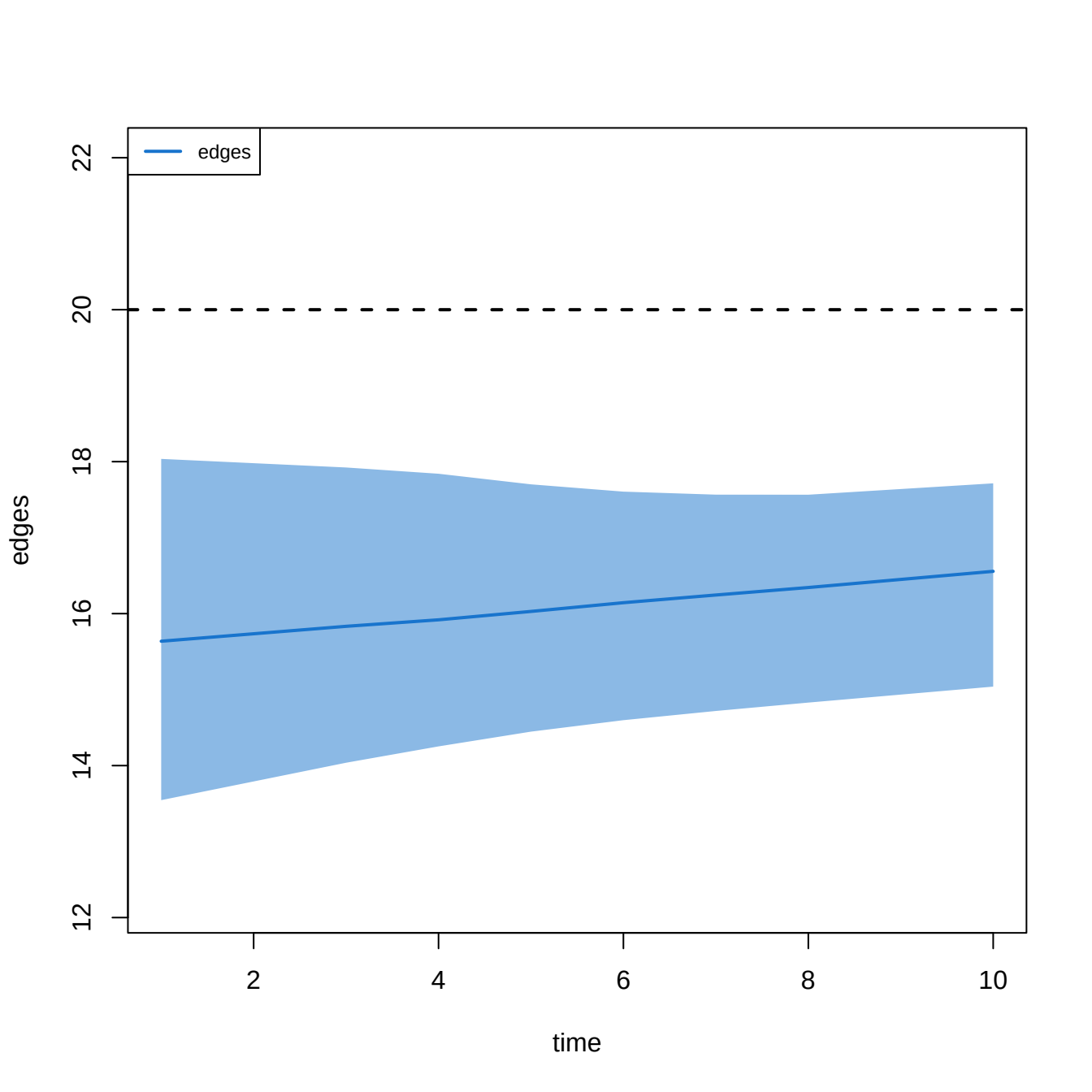
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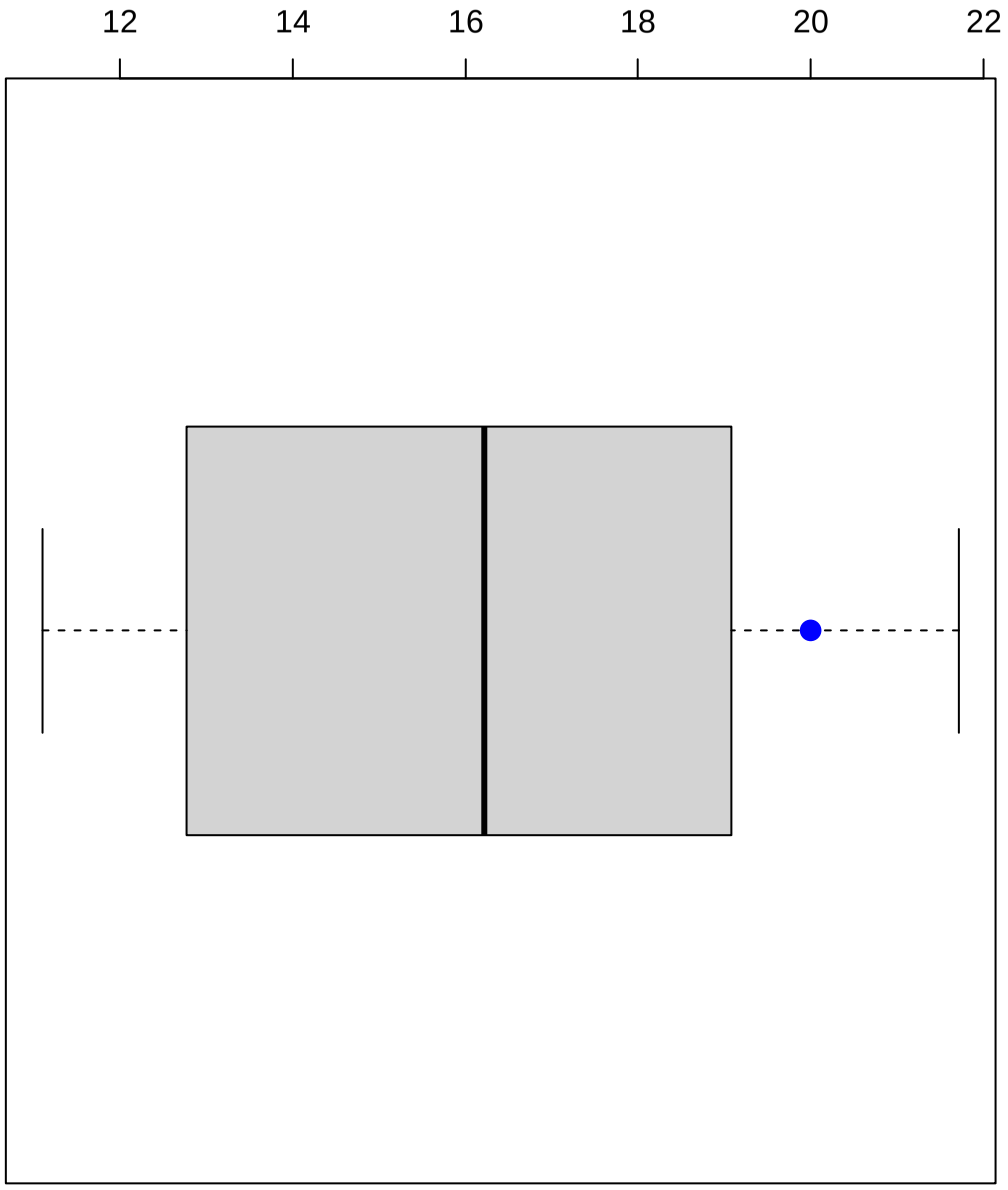
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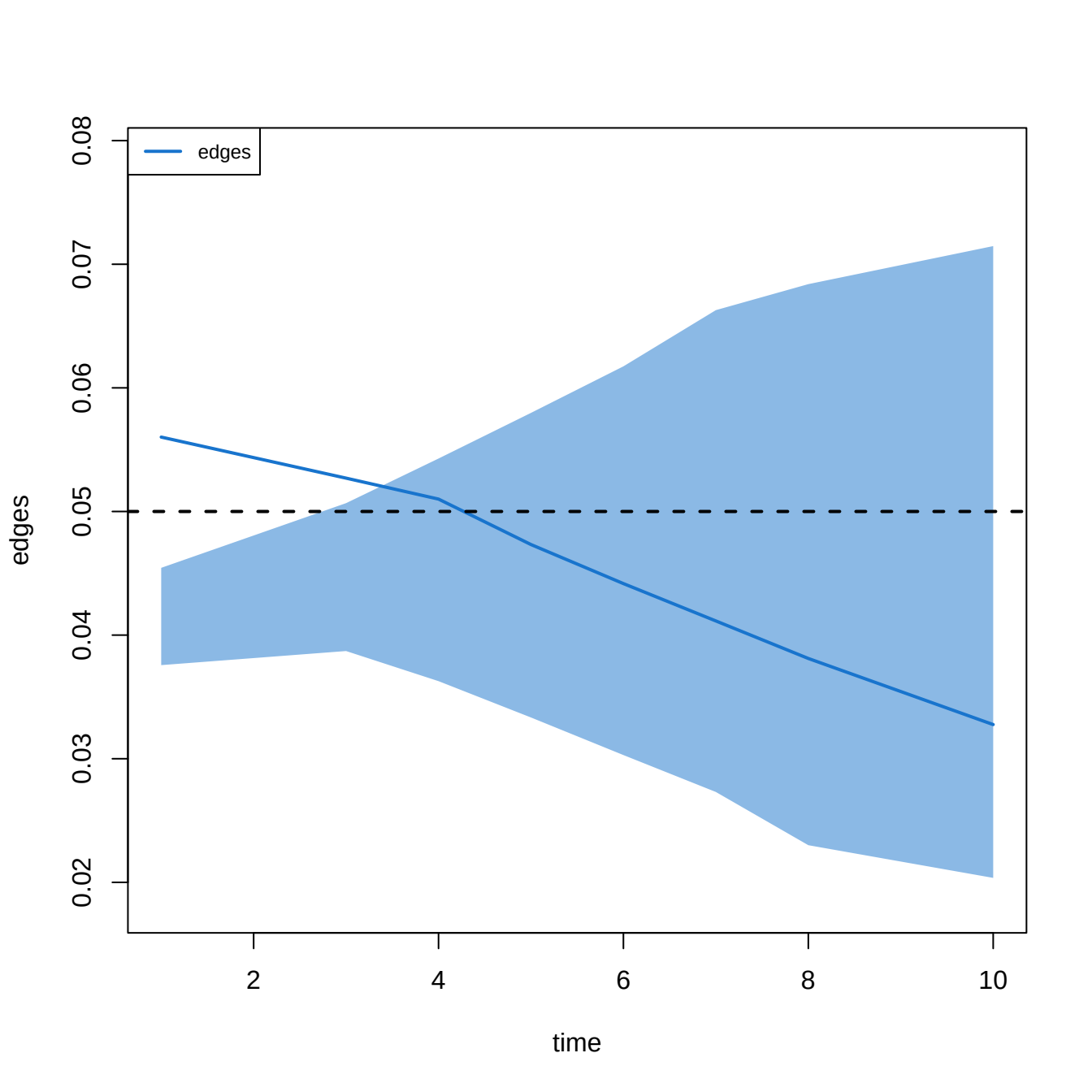
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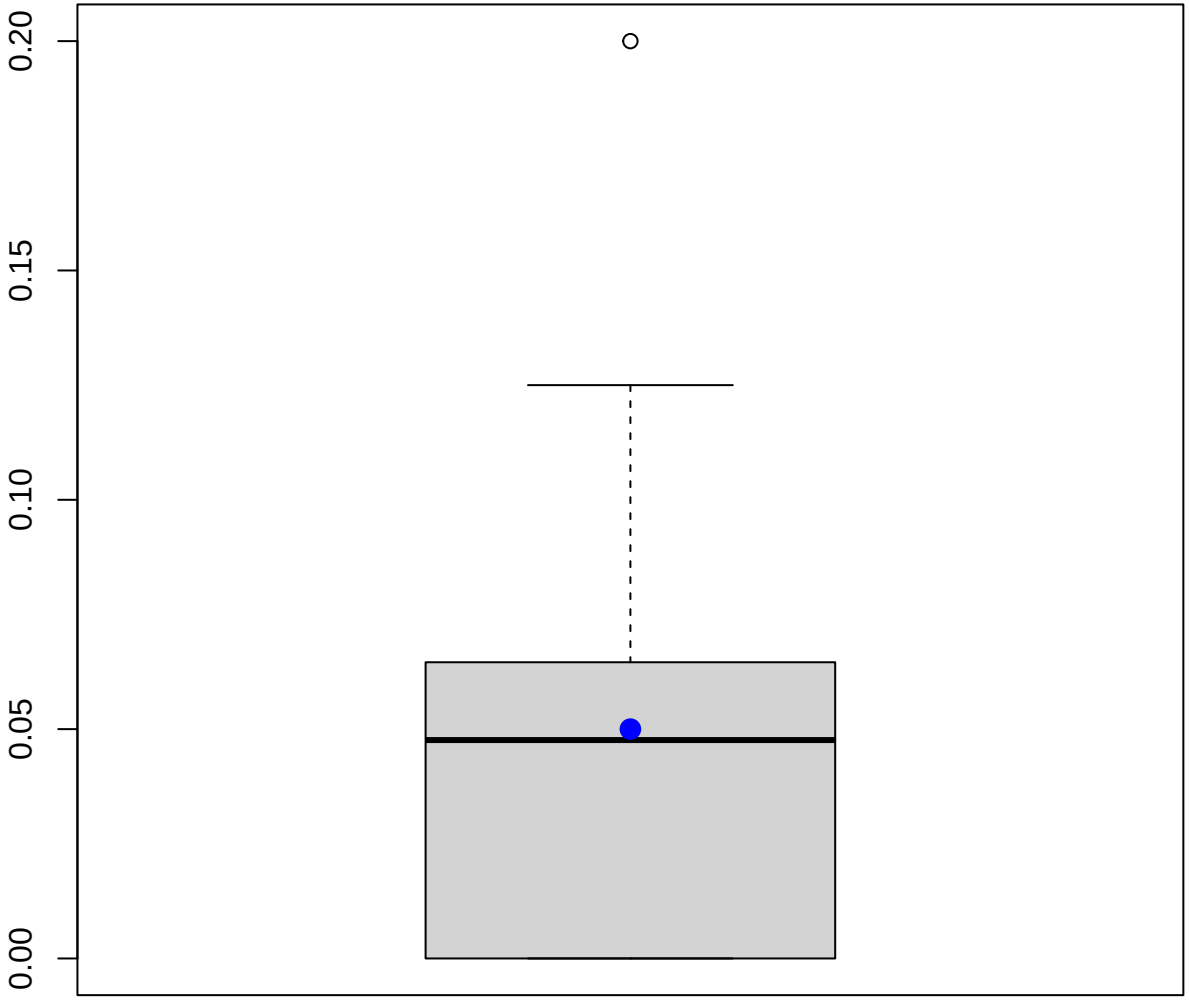
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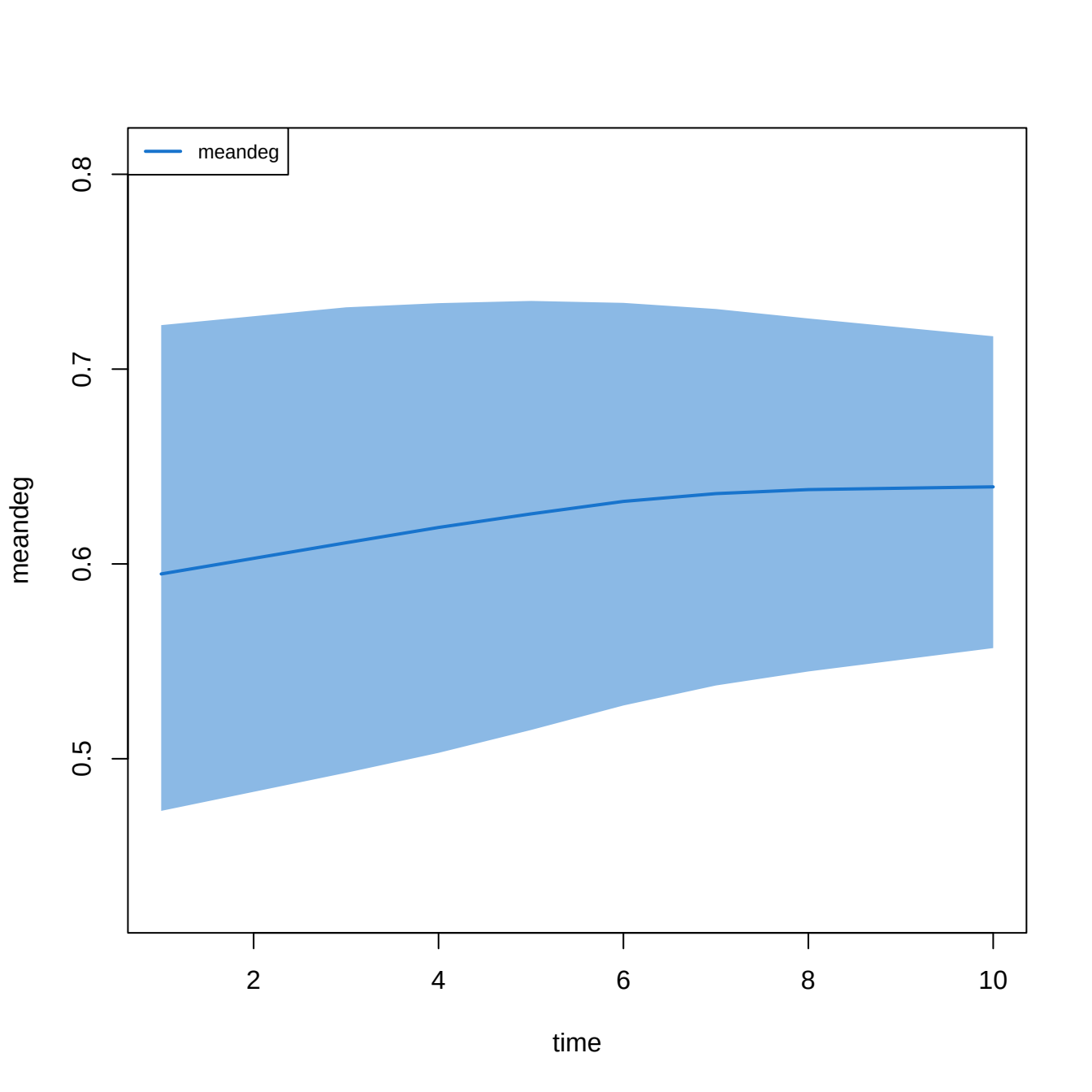
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meandeg
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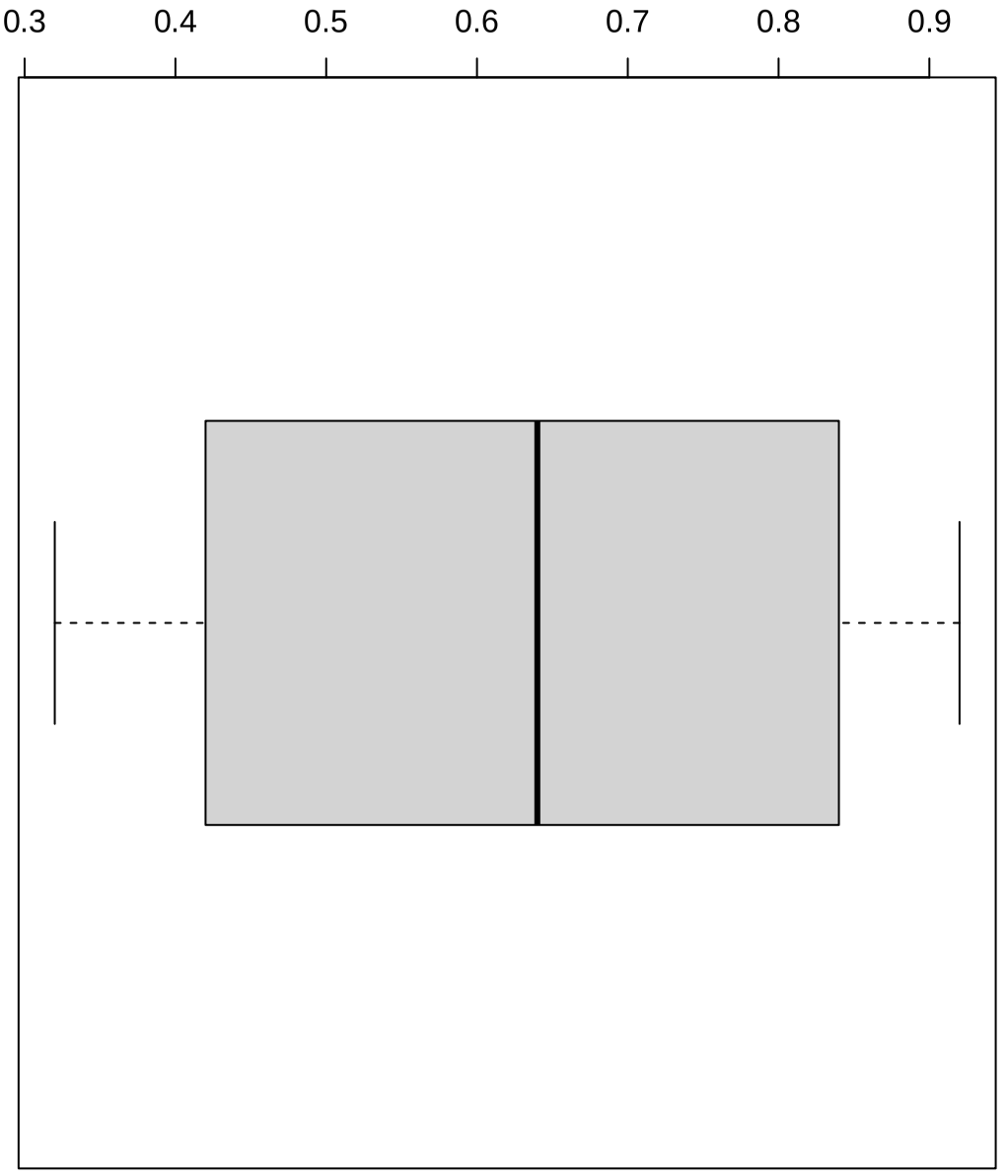
time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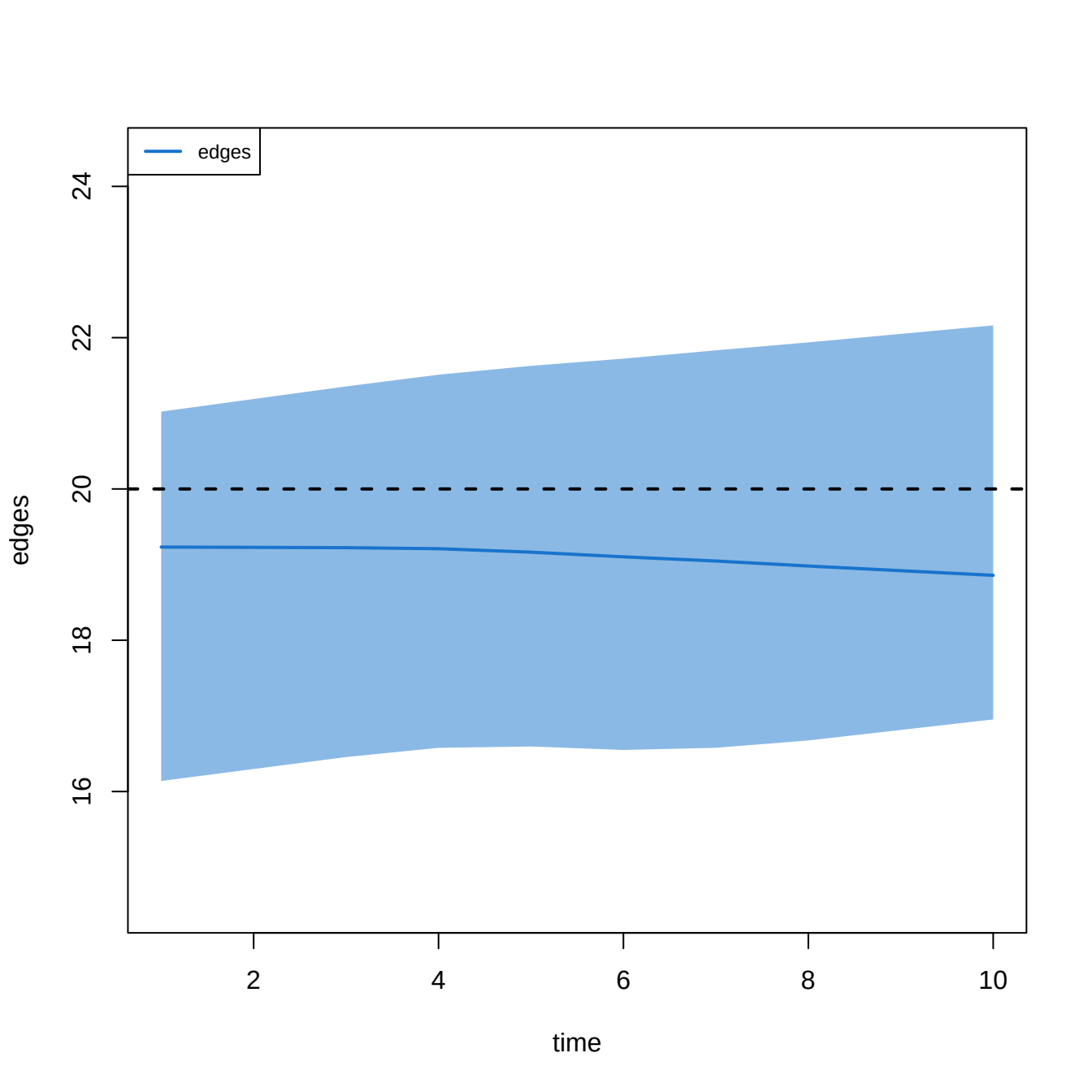
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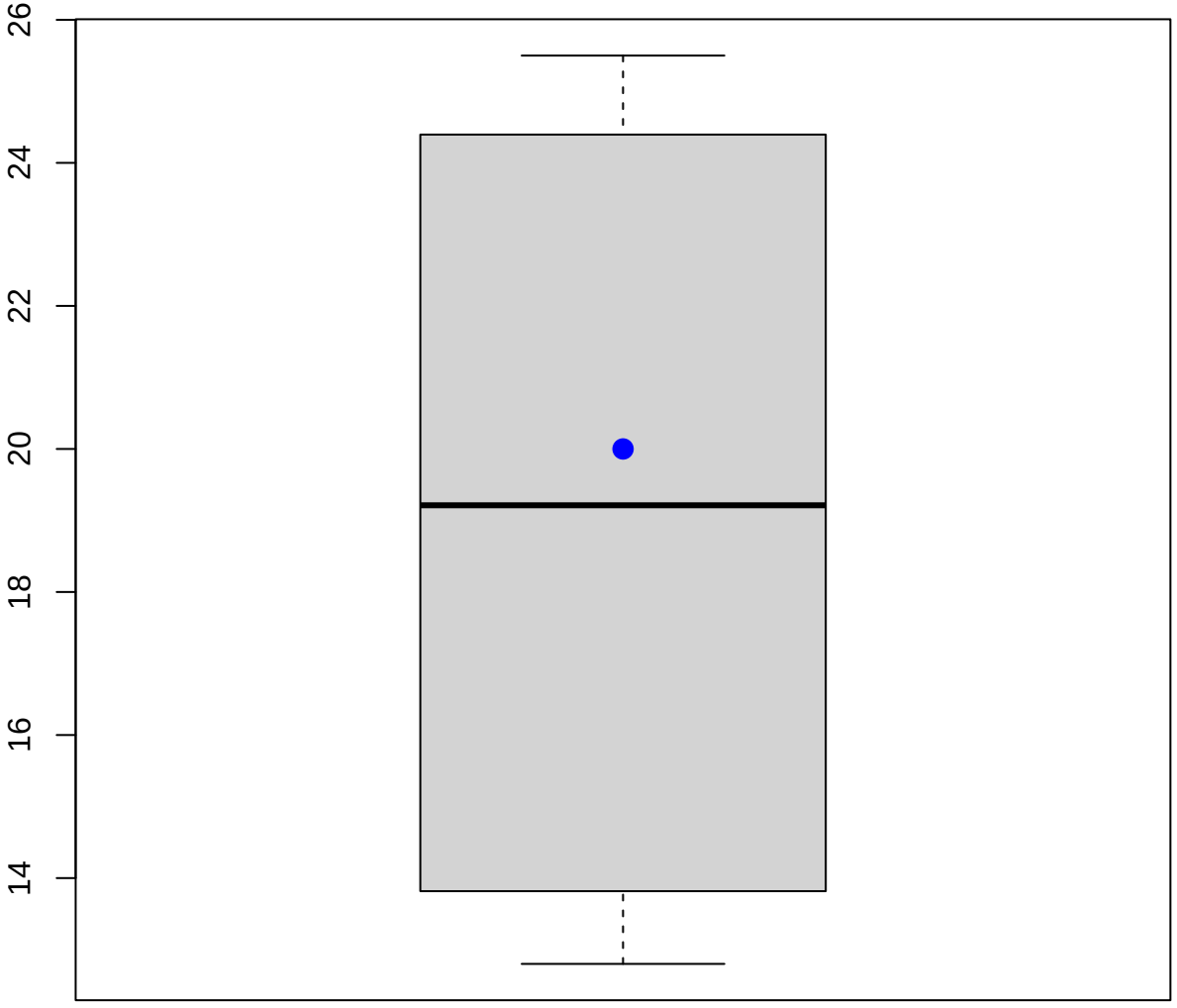
time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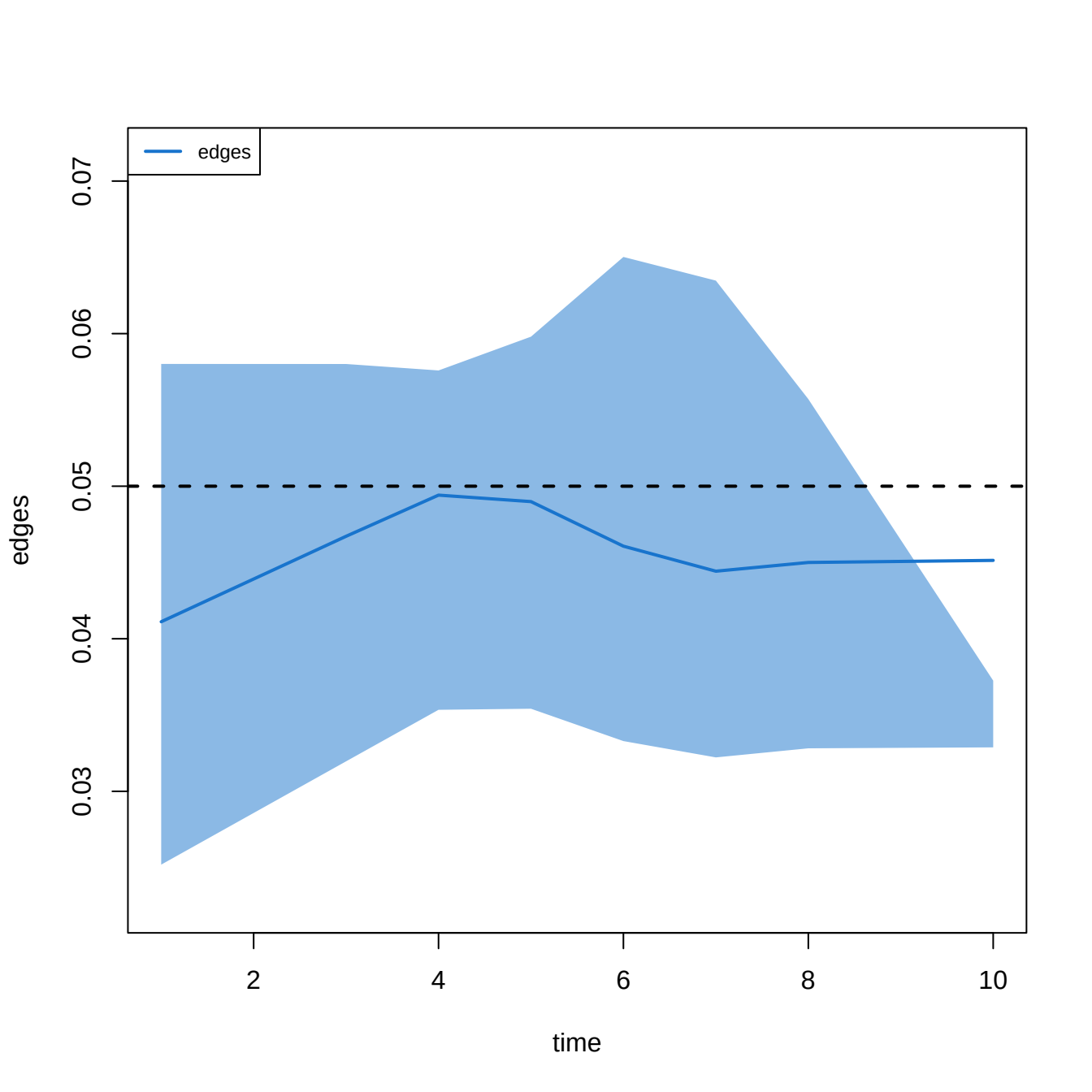
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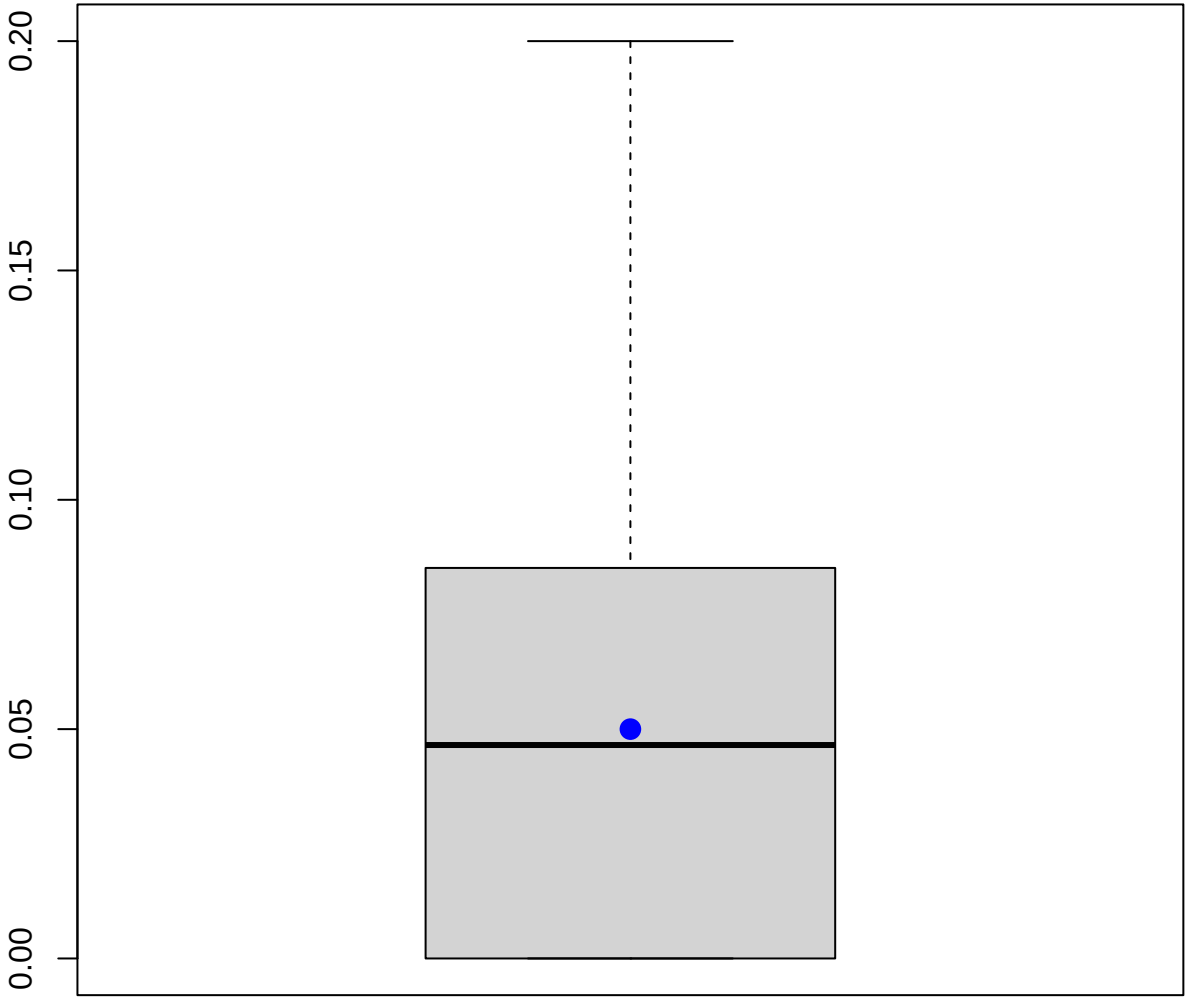
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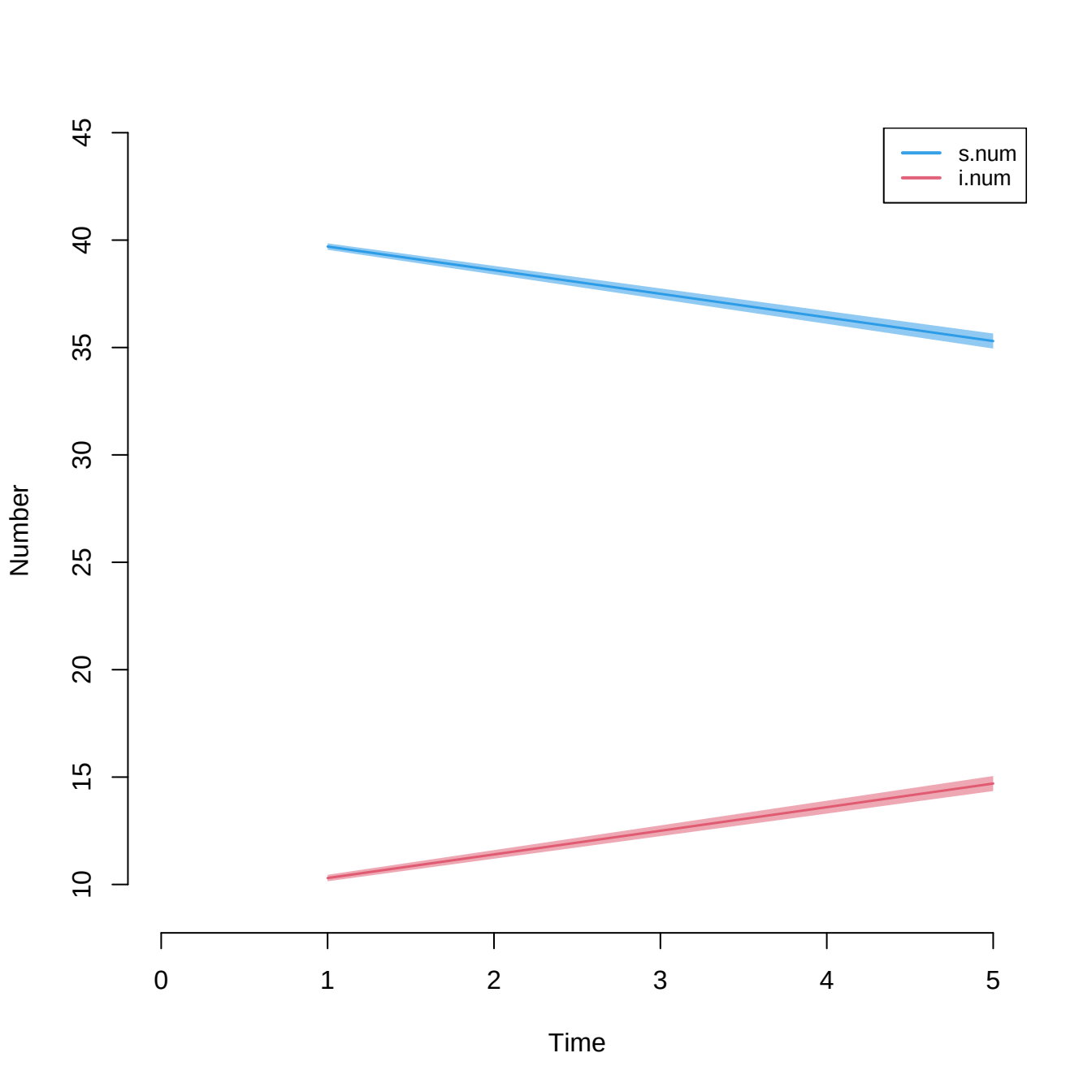
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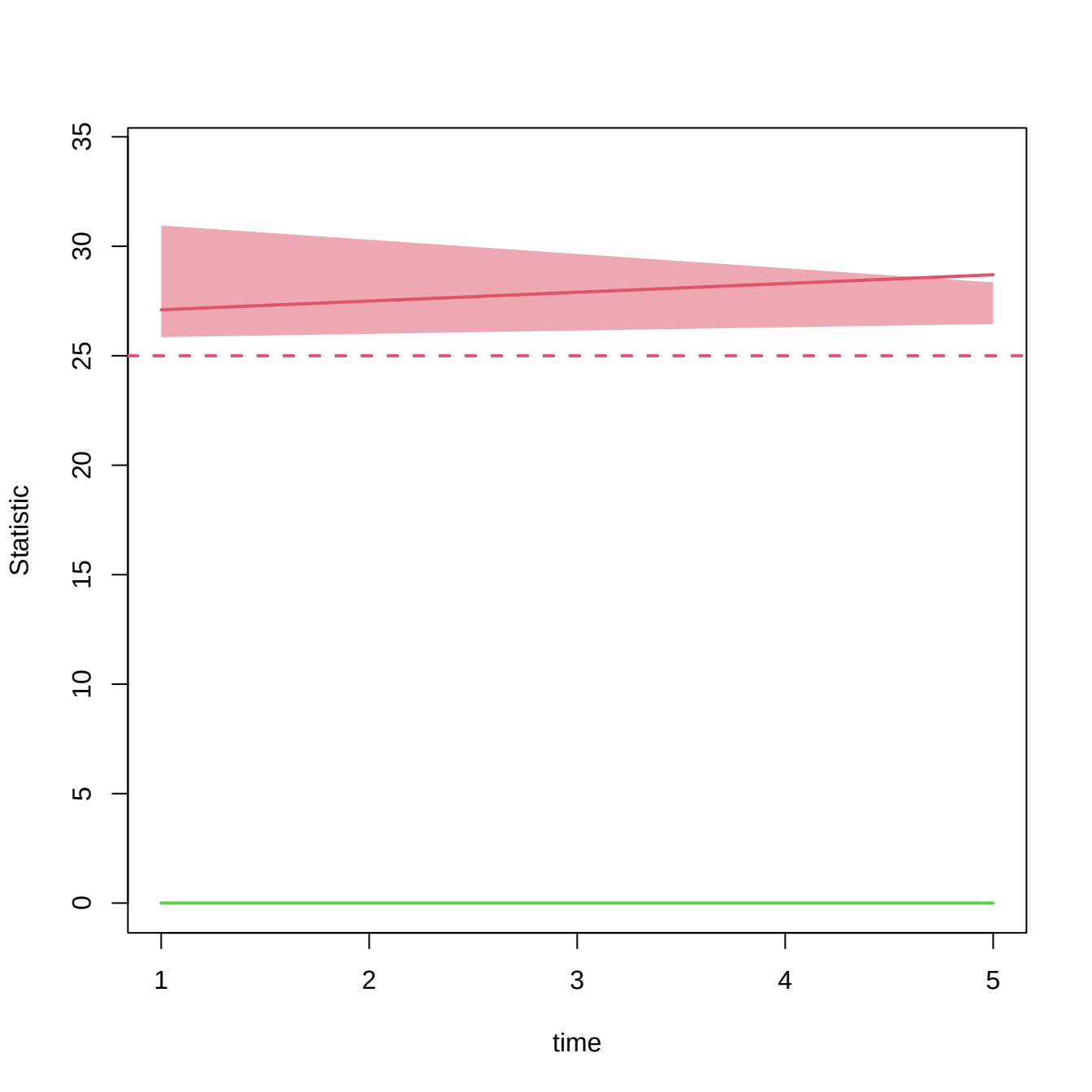
Time


Statistic
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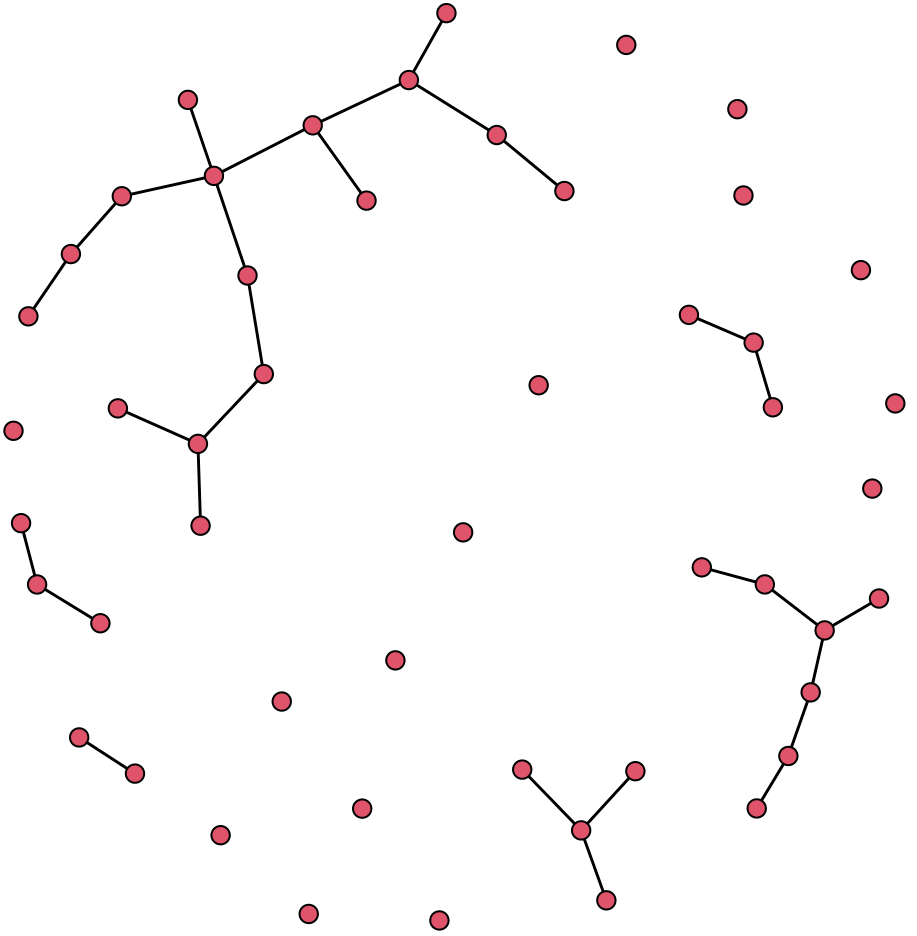
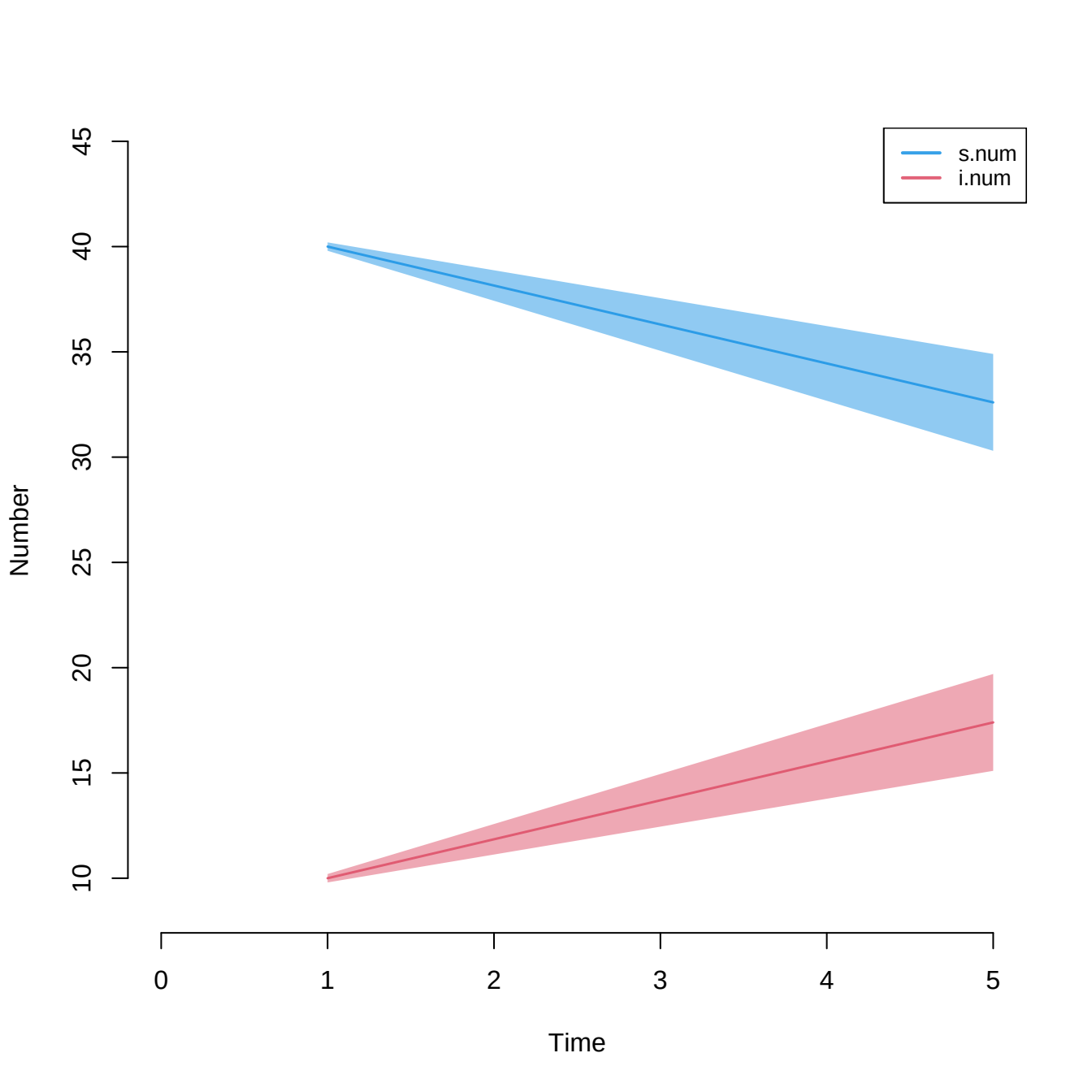
time

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i.num
Number
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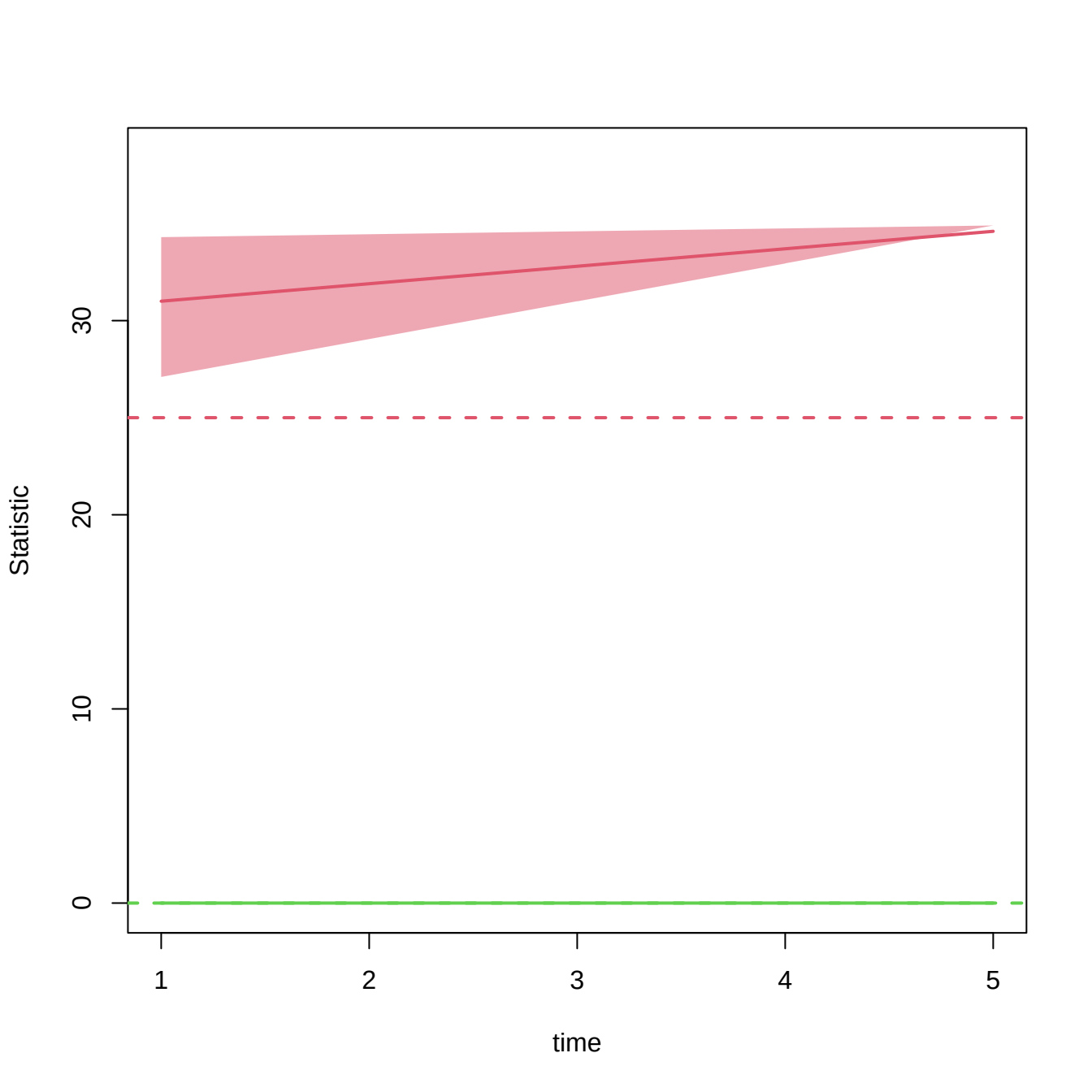
Time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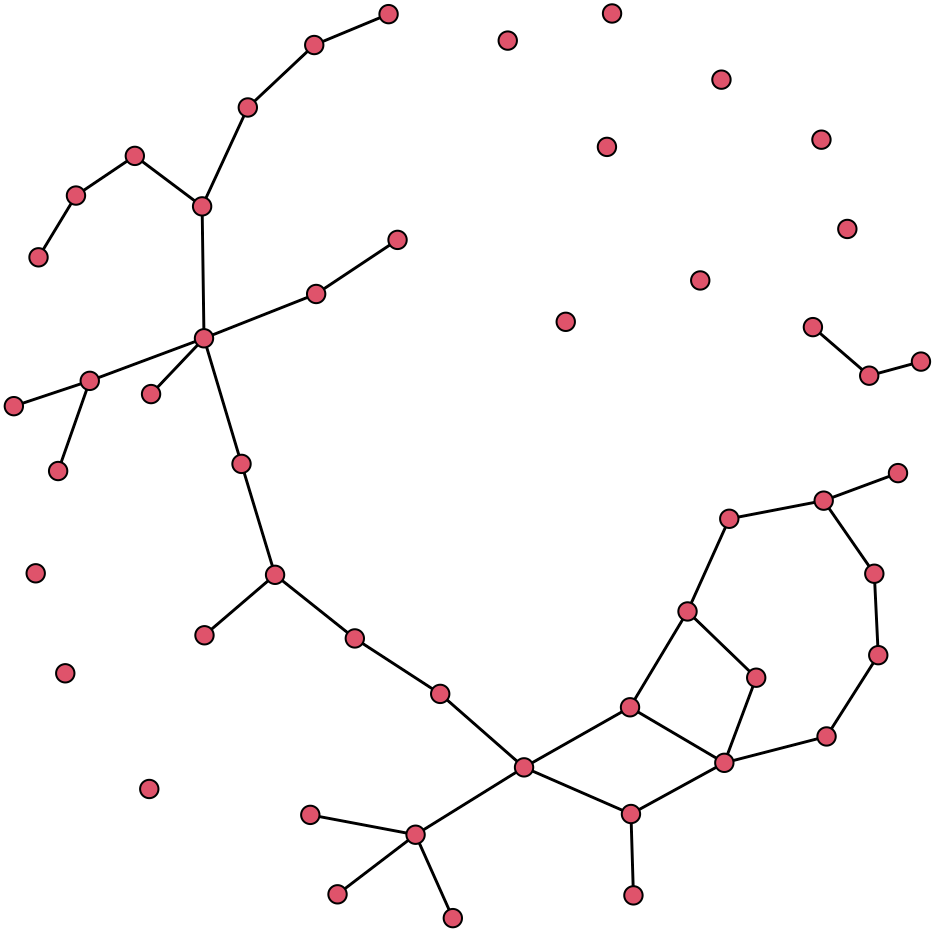
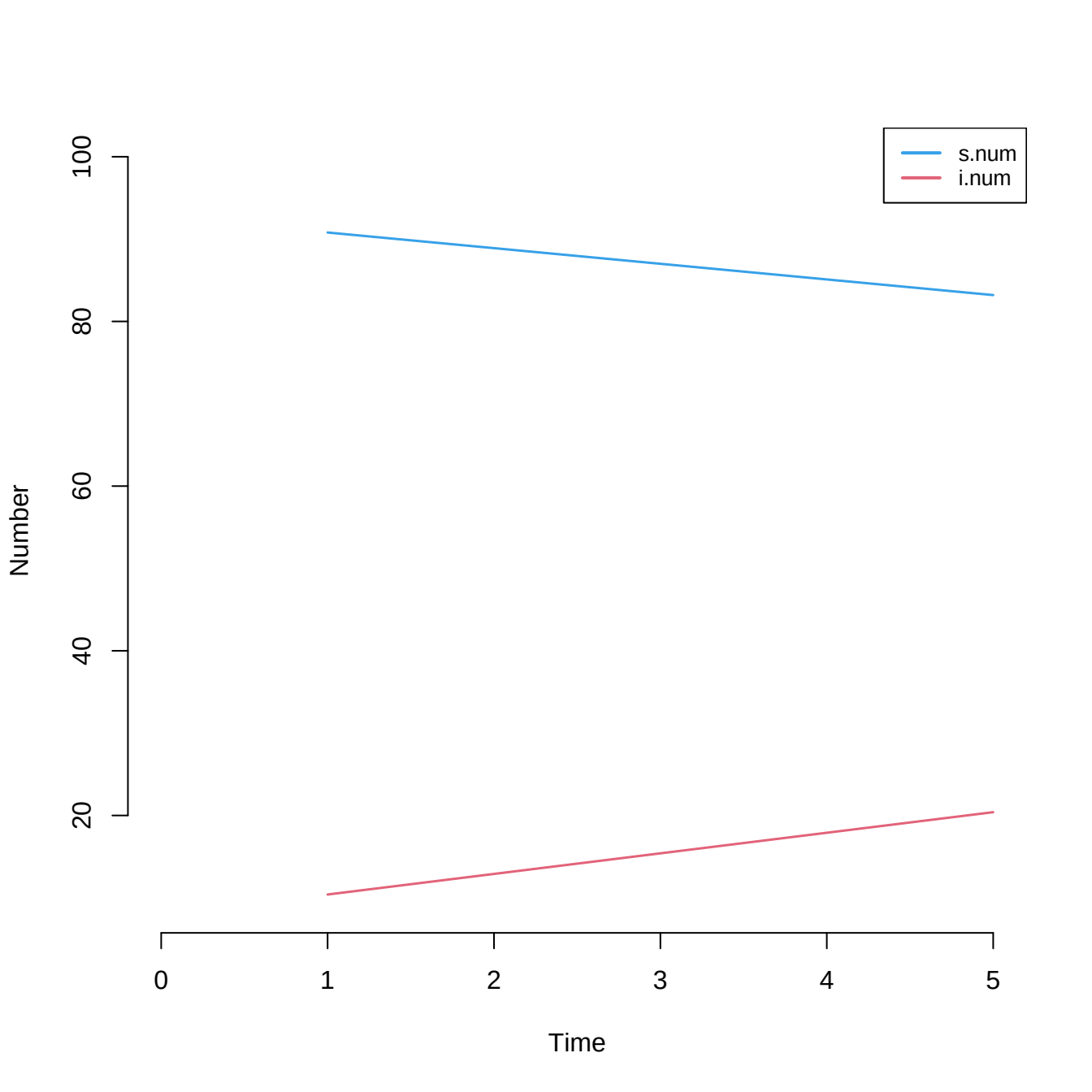
time

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i.num
Number
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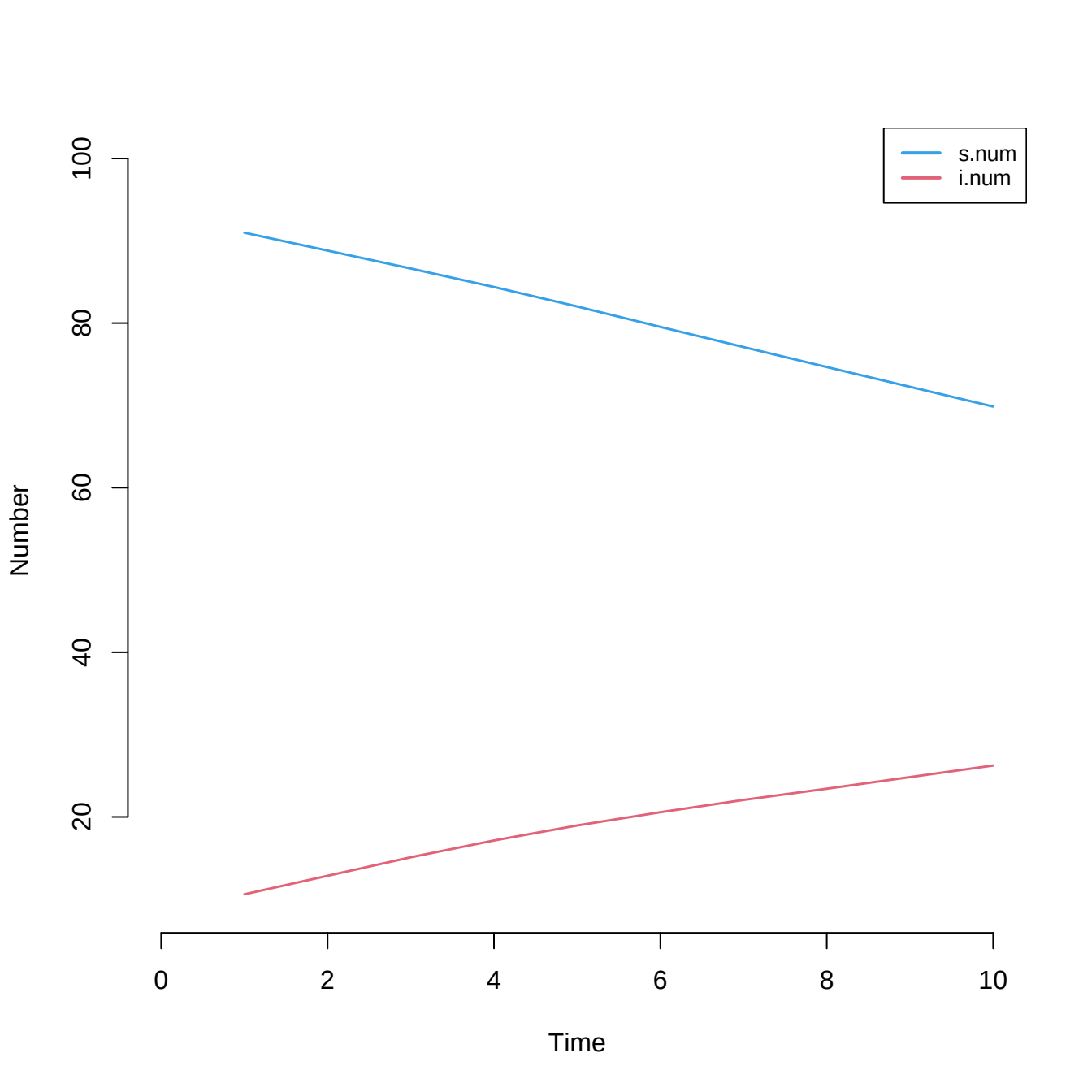
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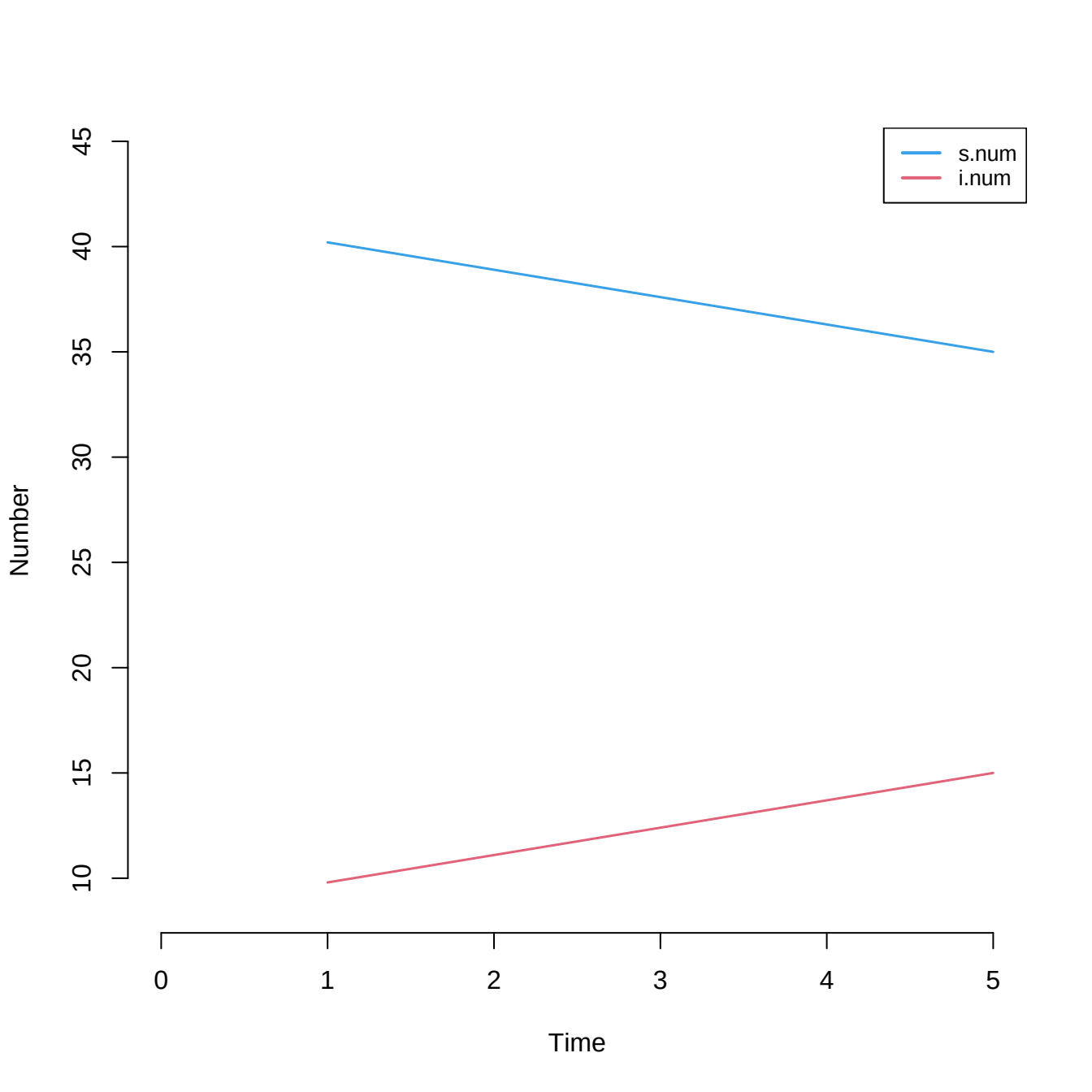
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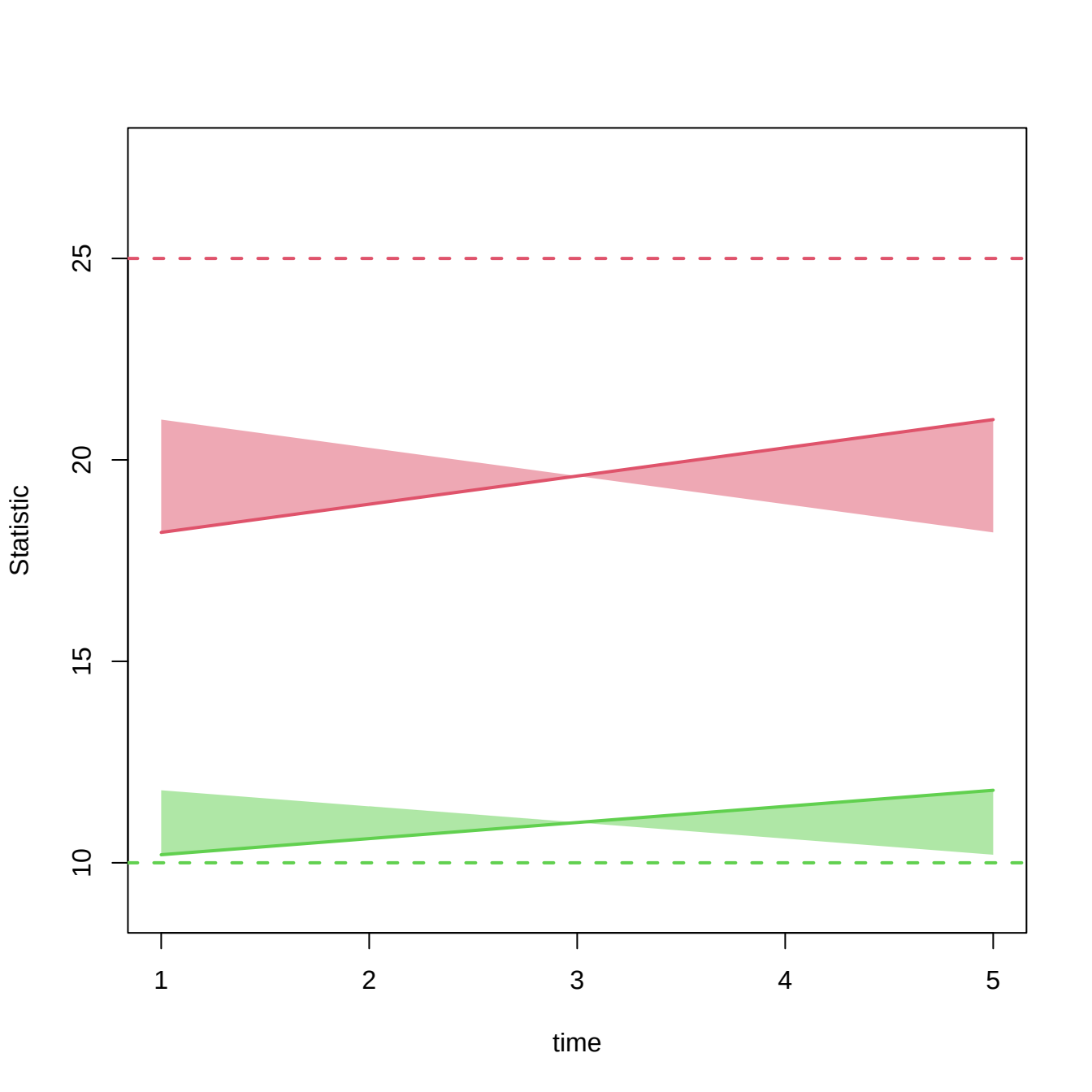
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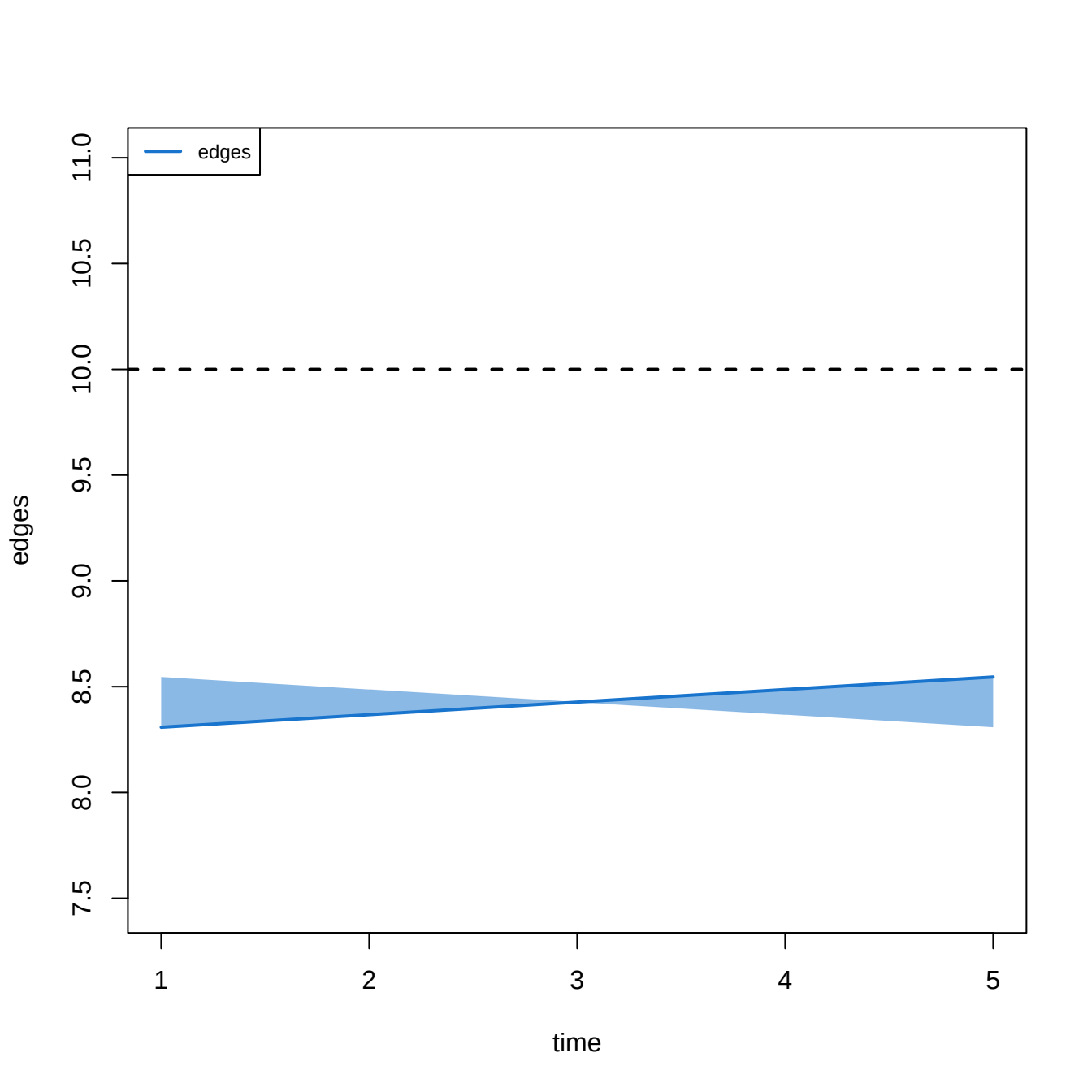
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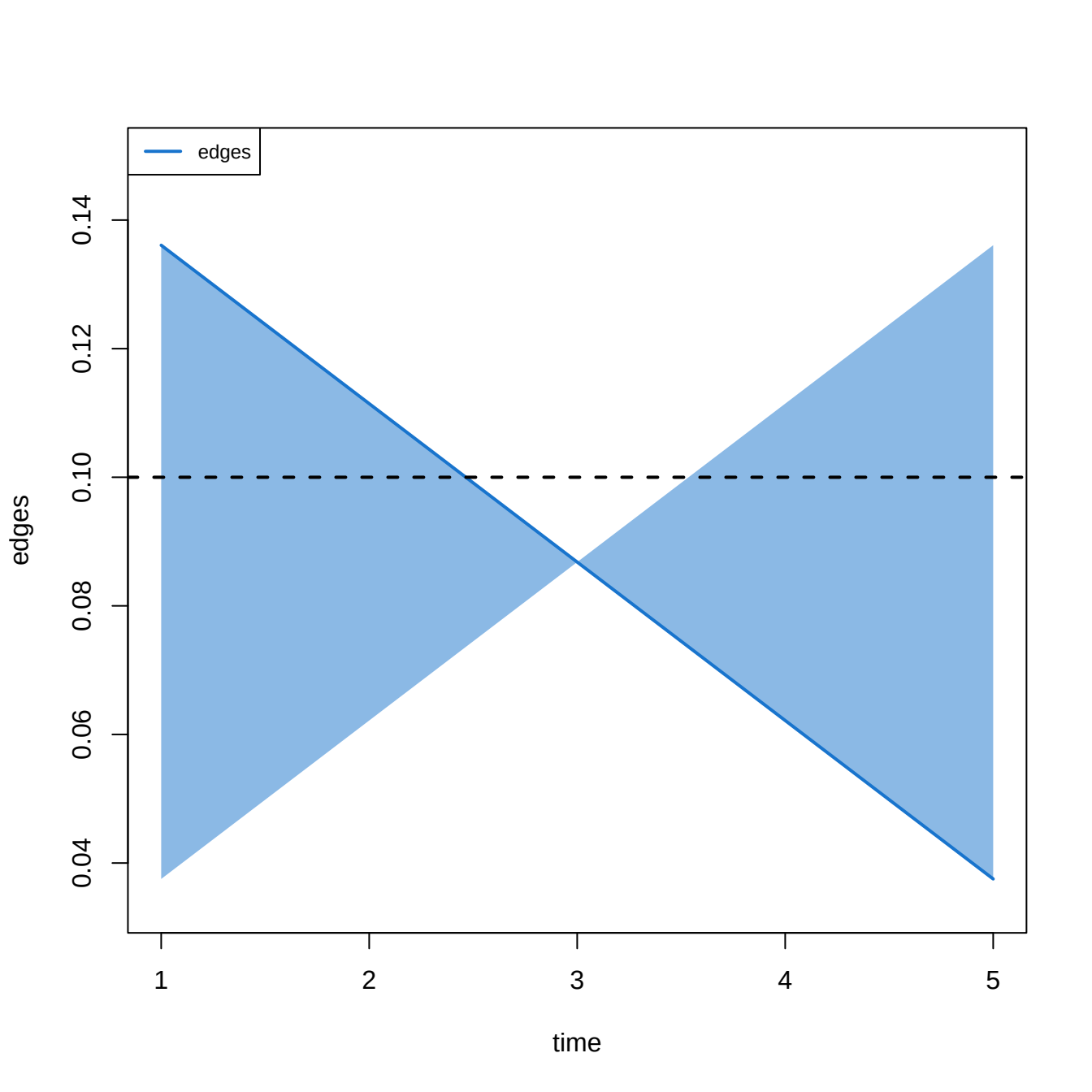
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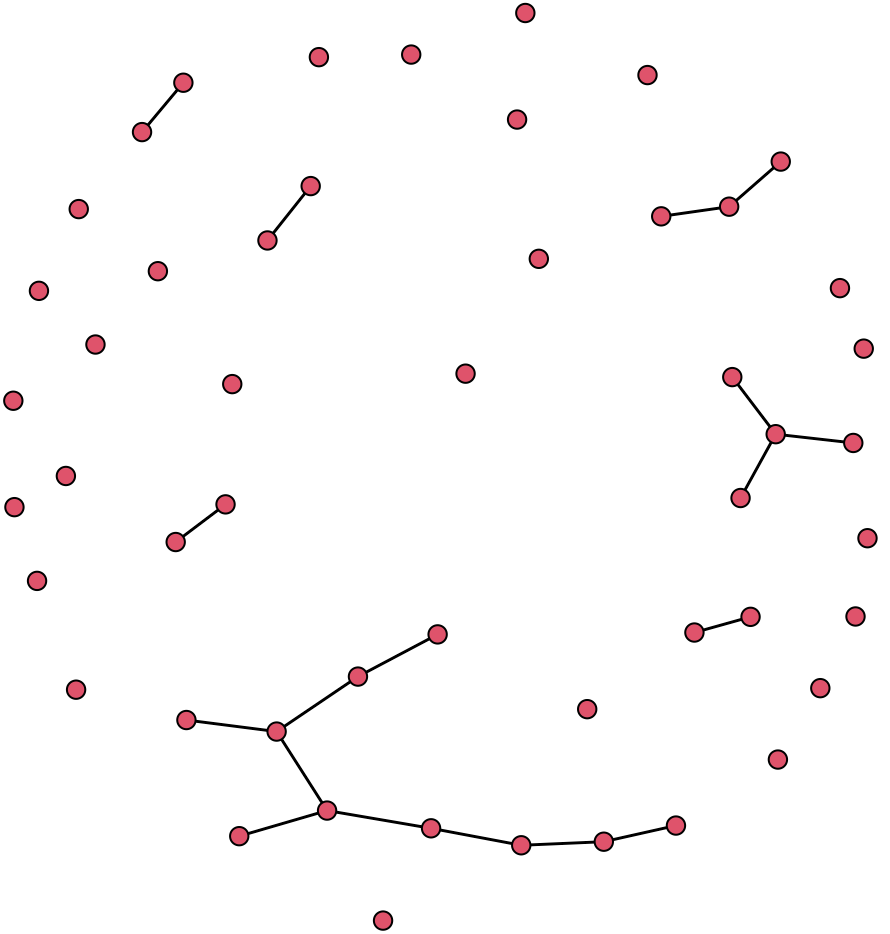

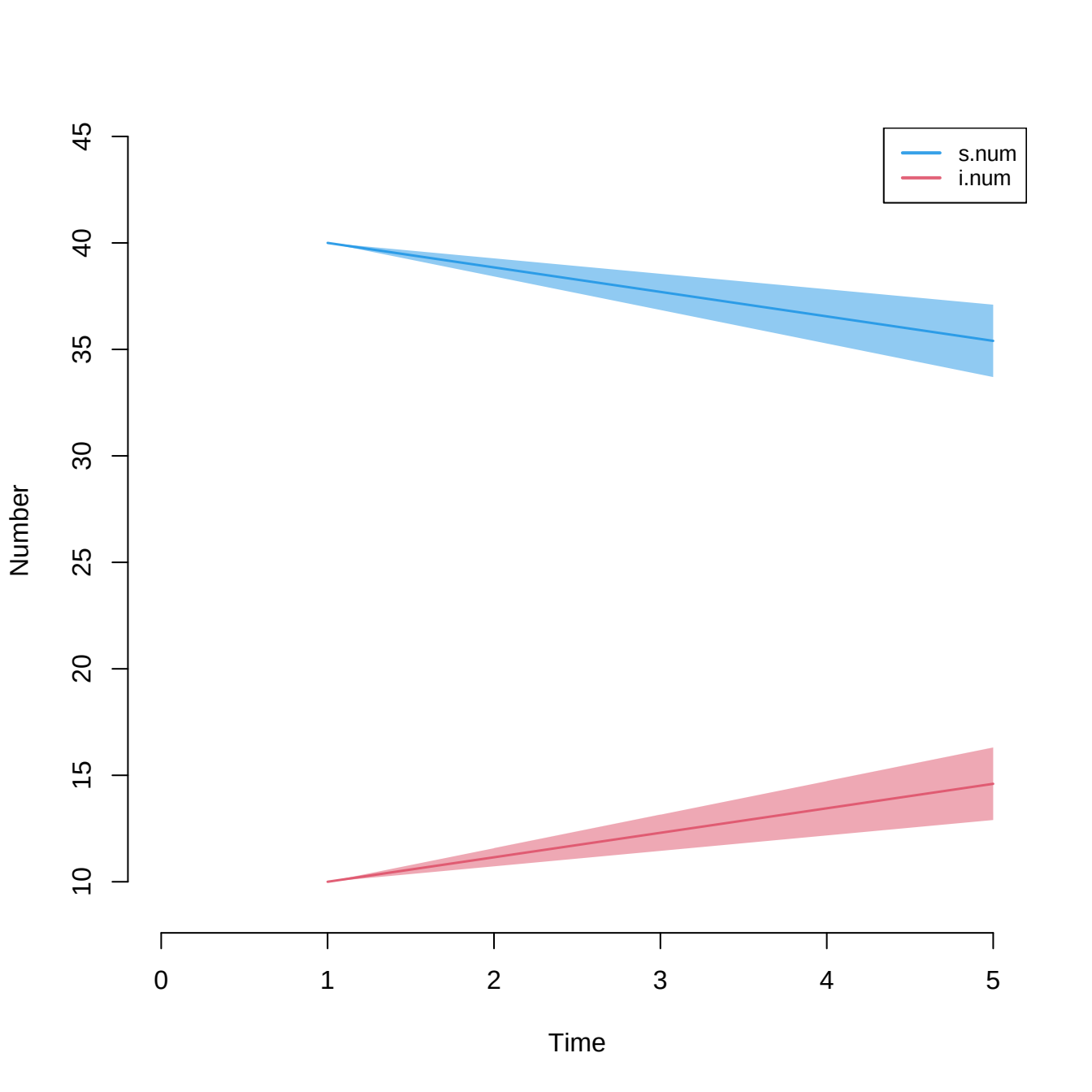
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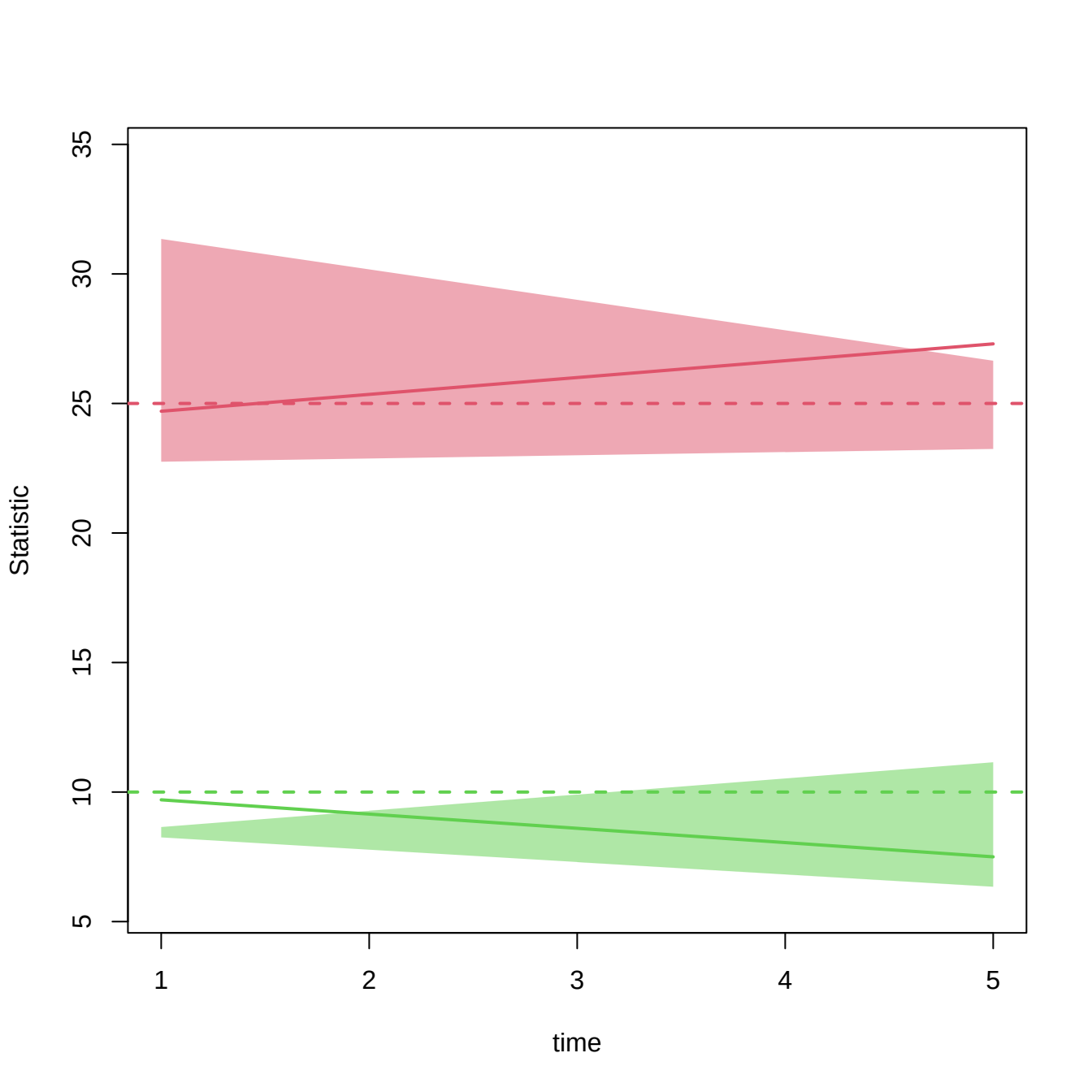
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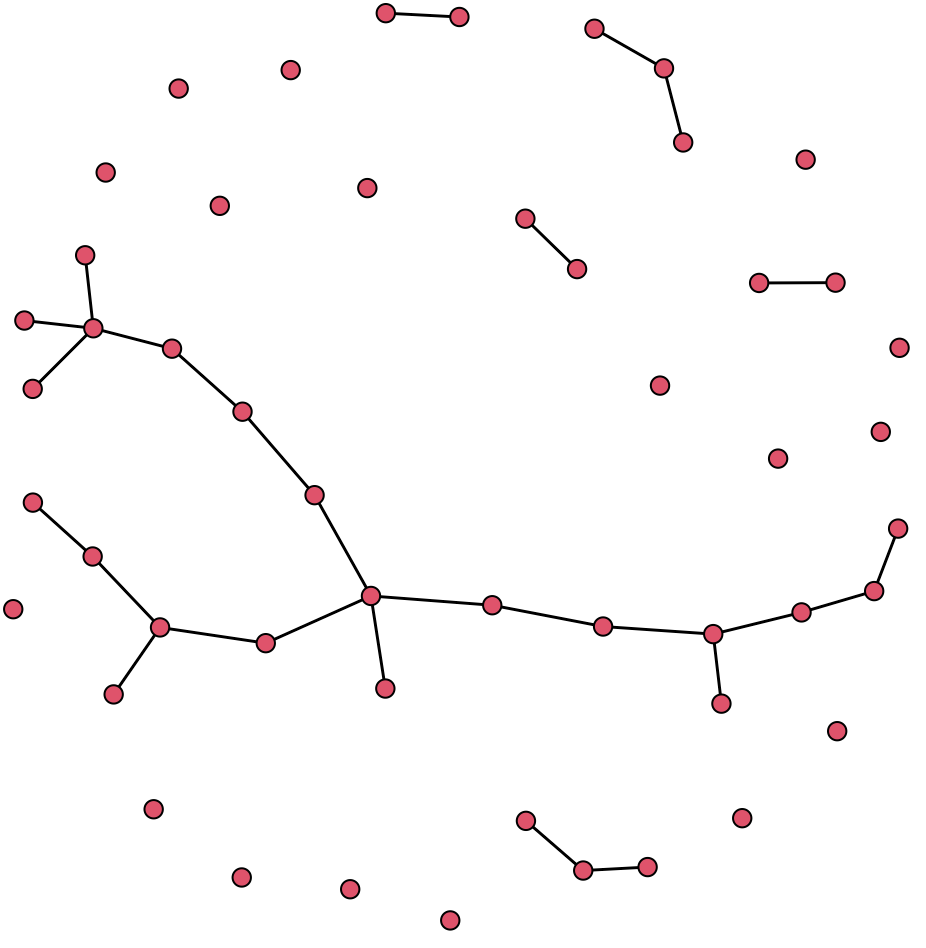

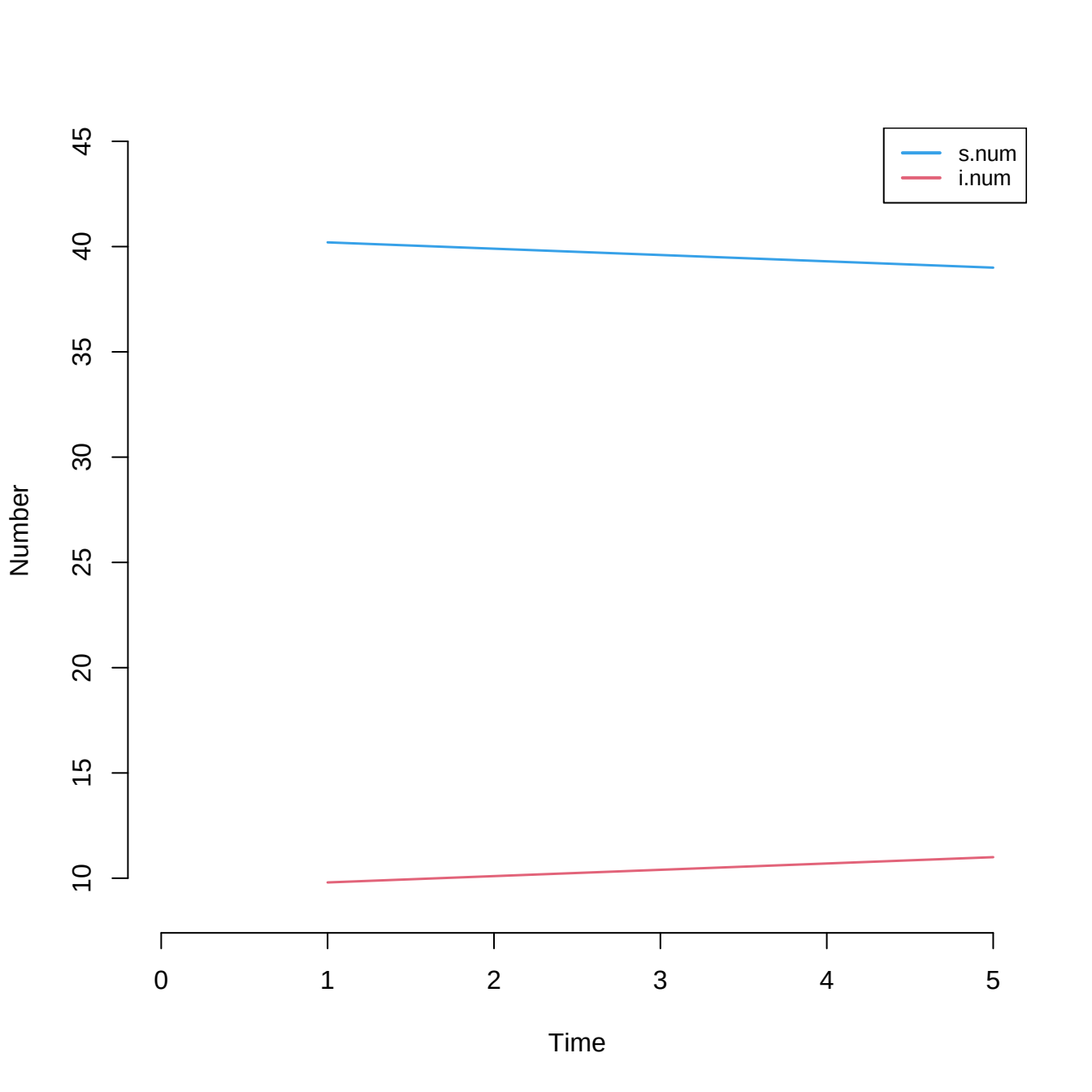
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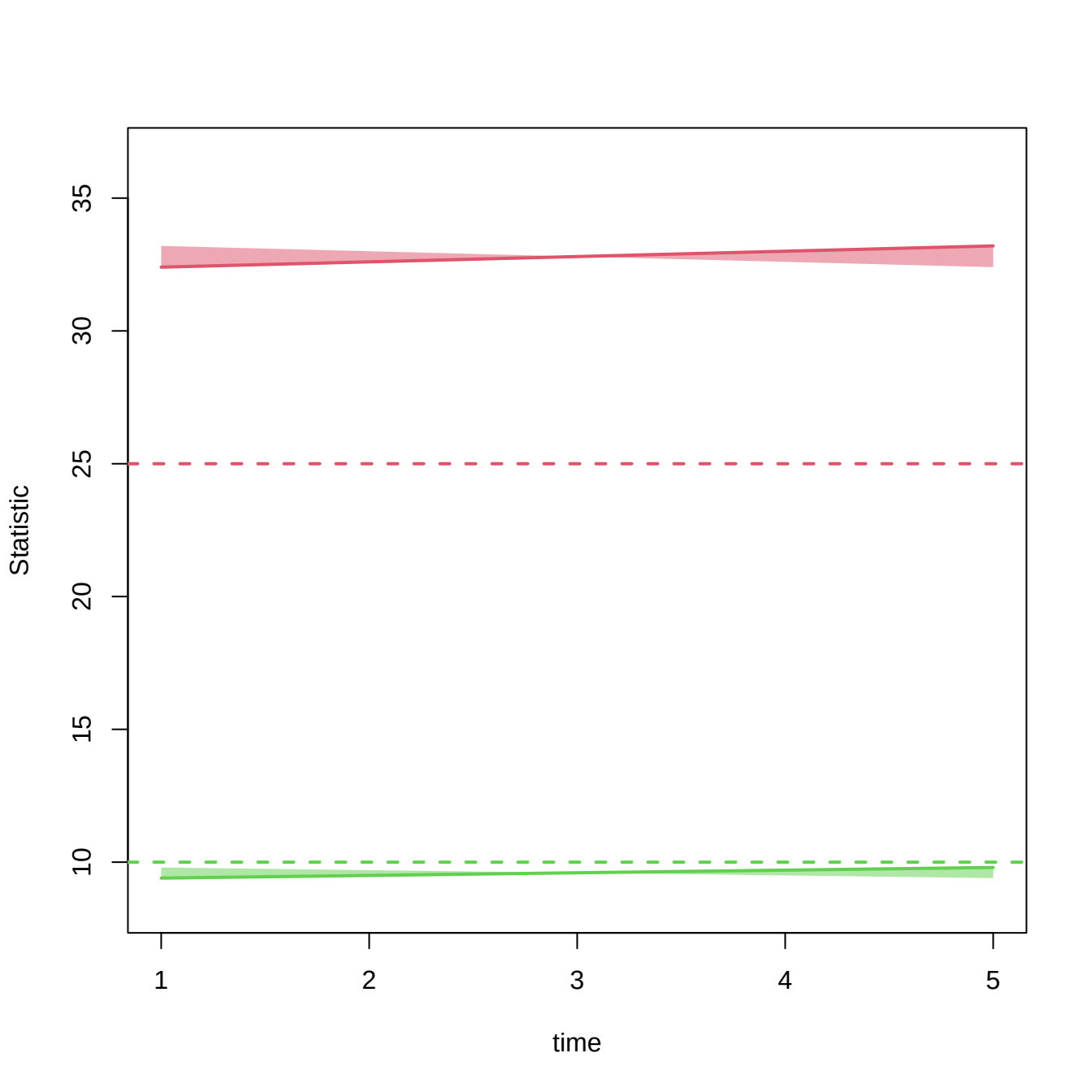
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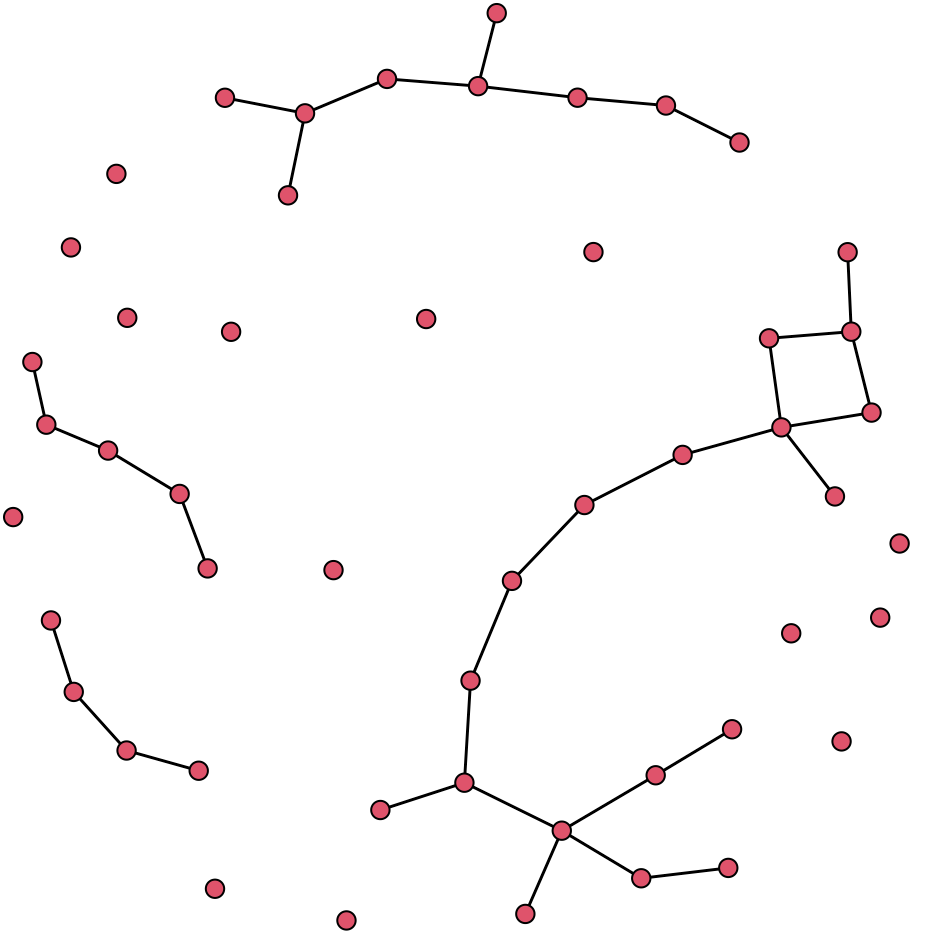

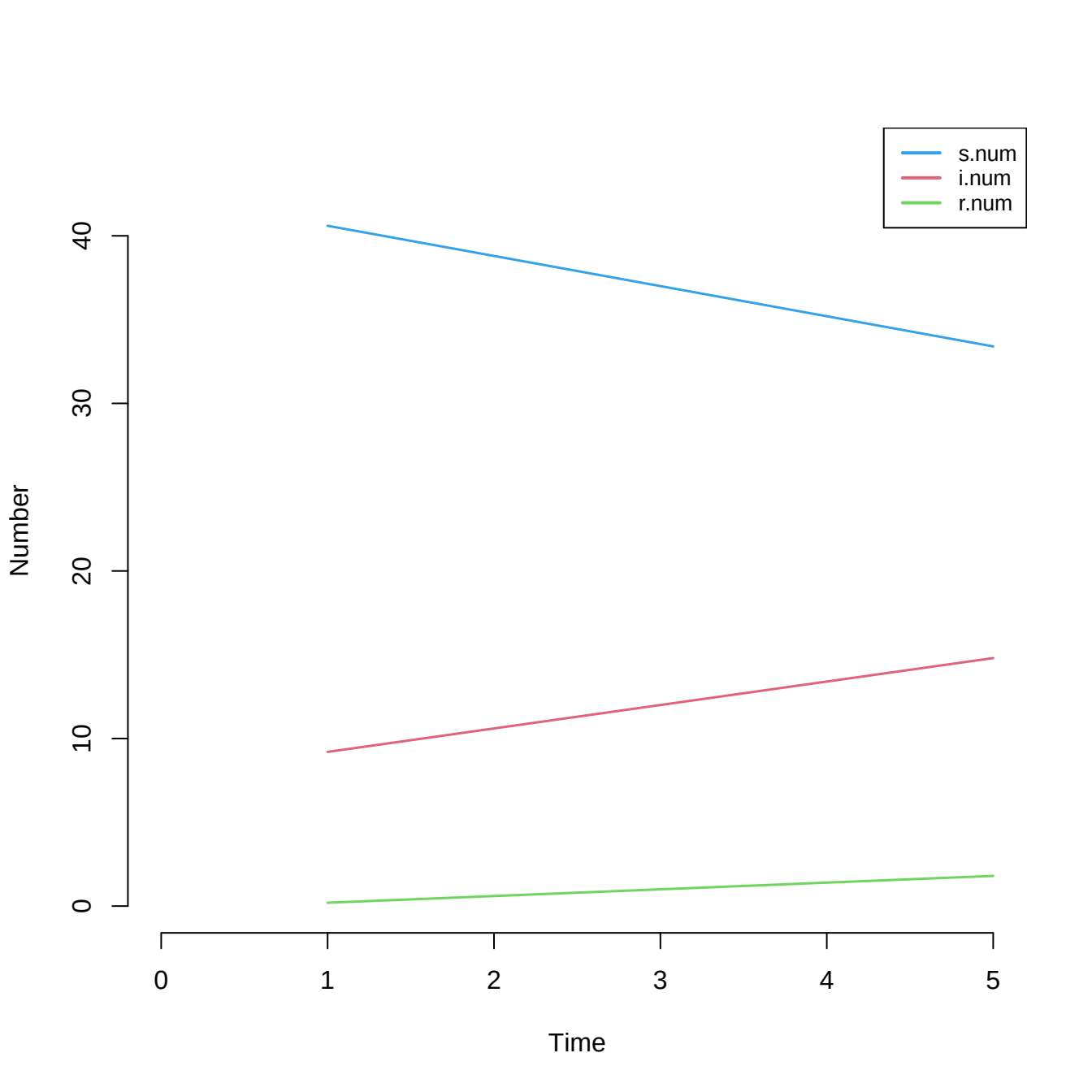
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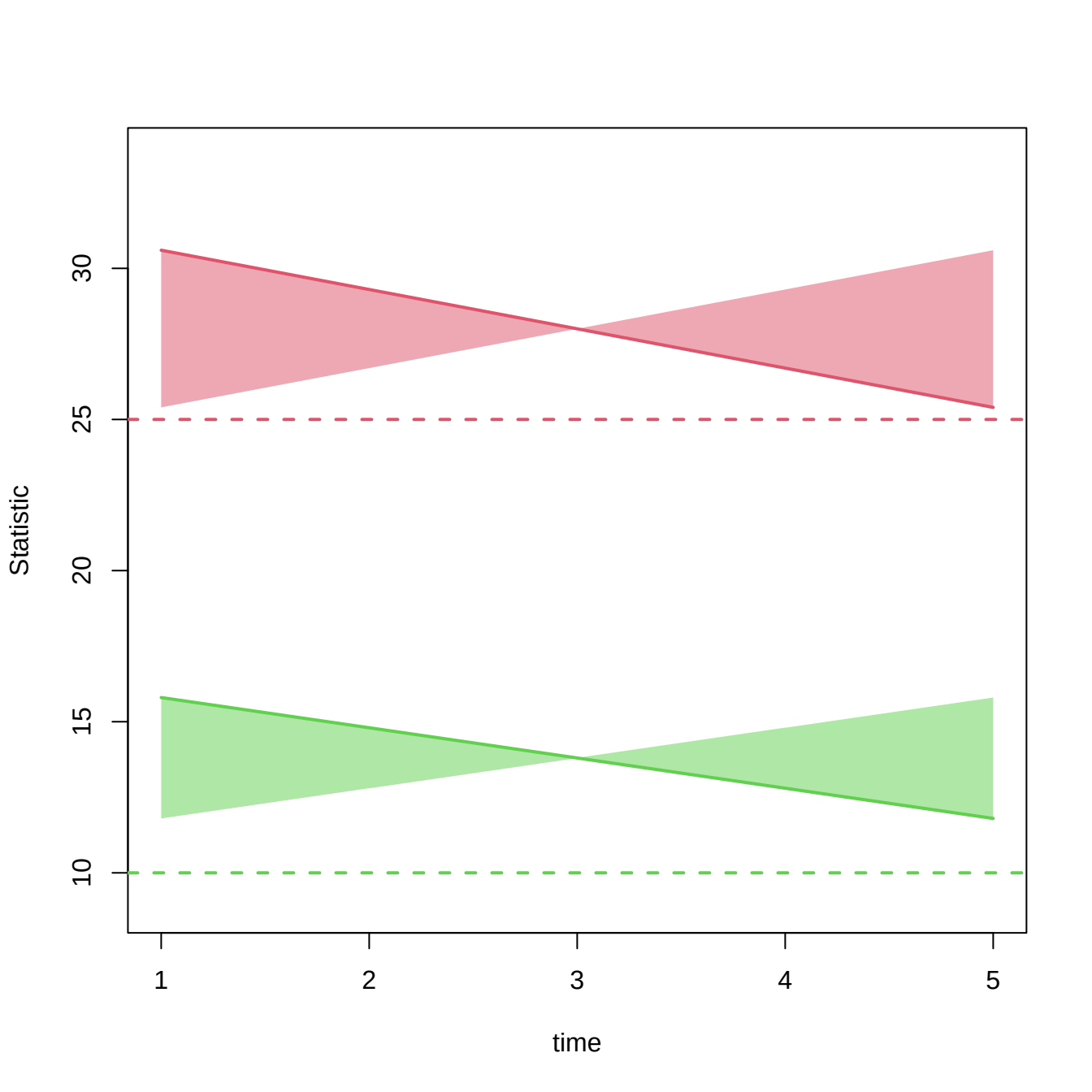
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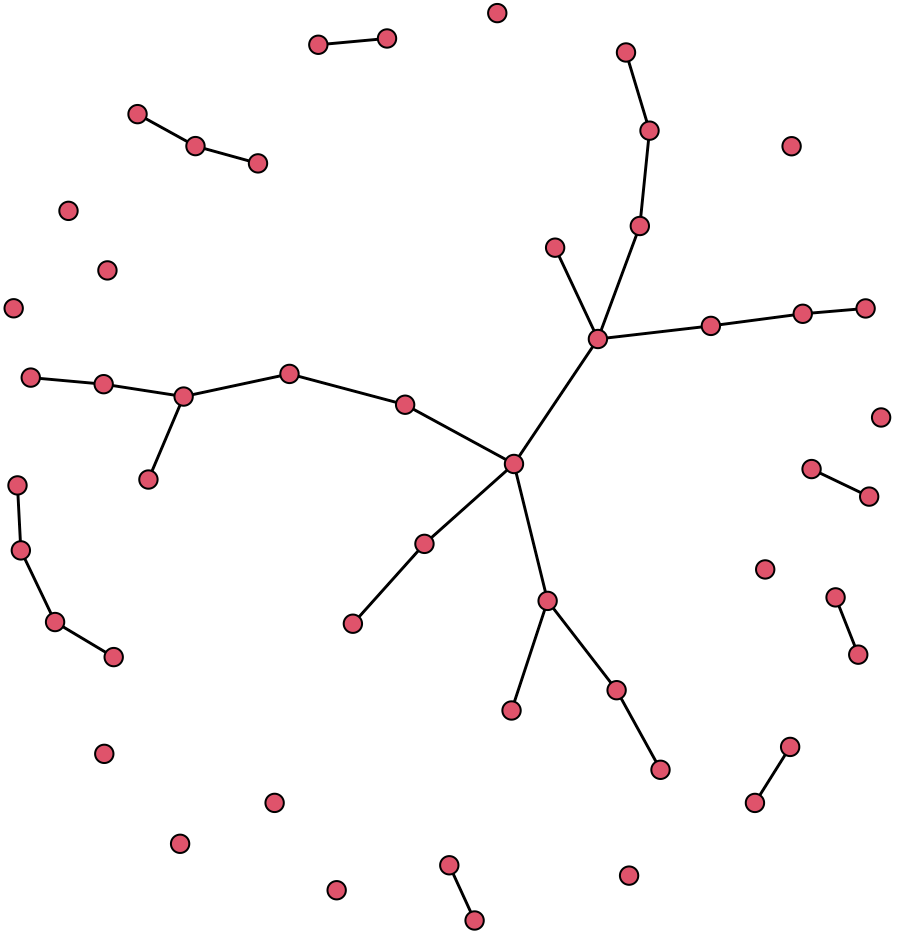

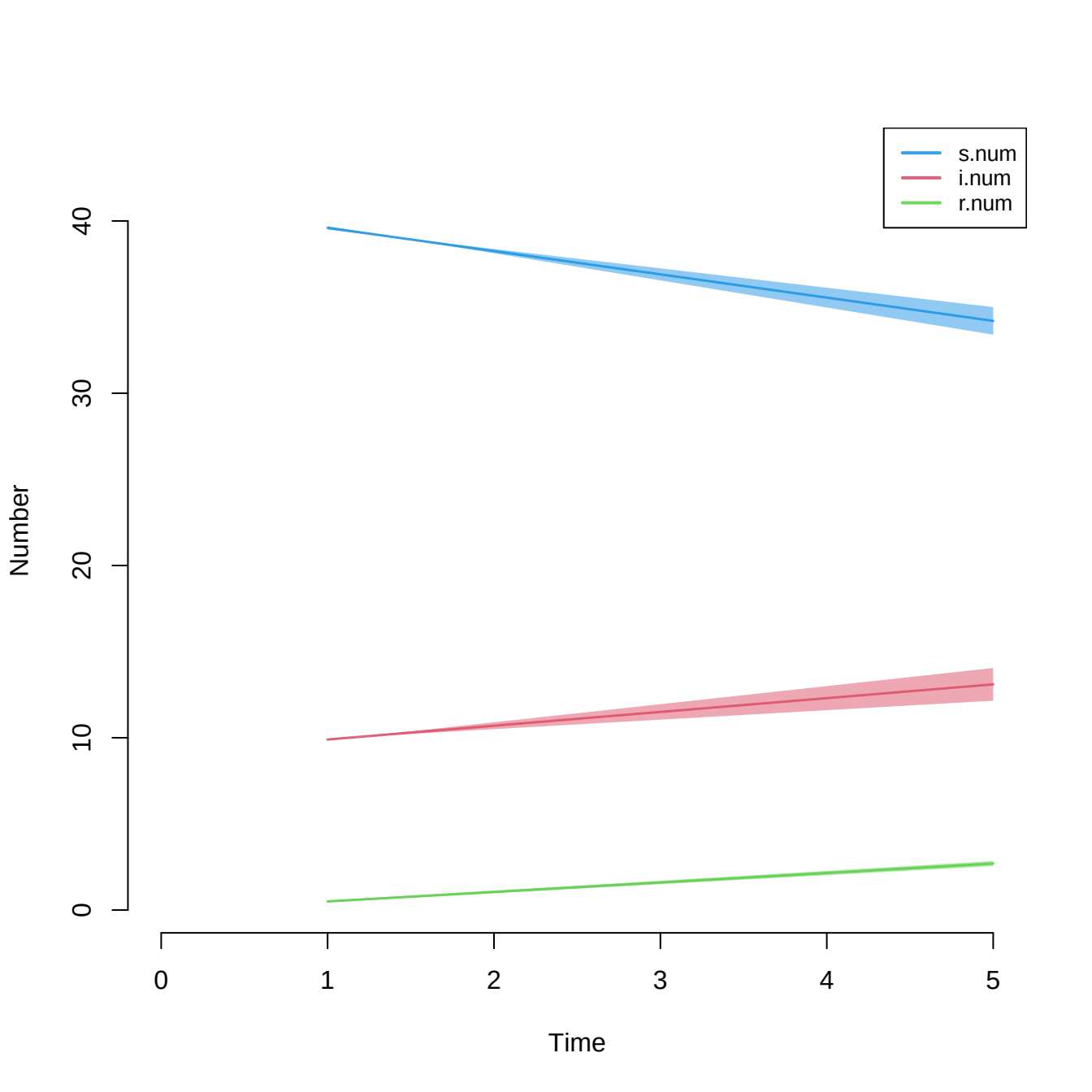
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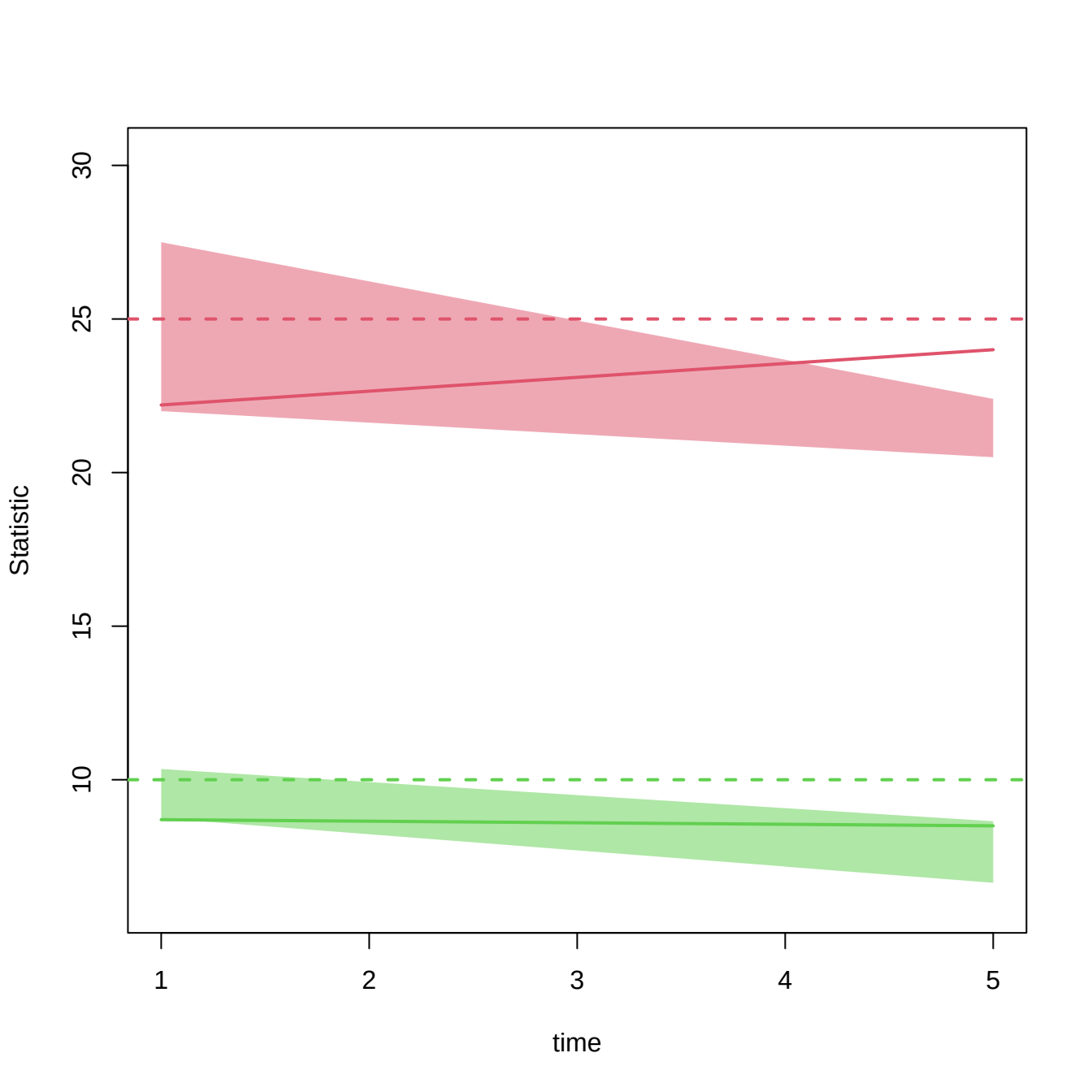
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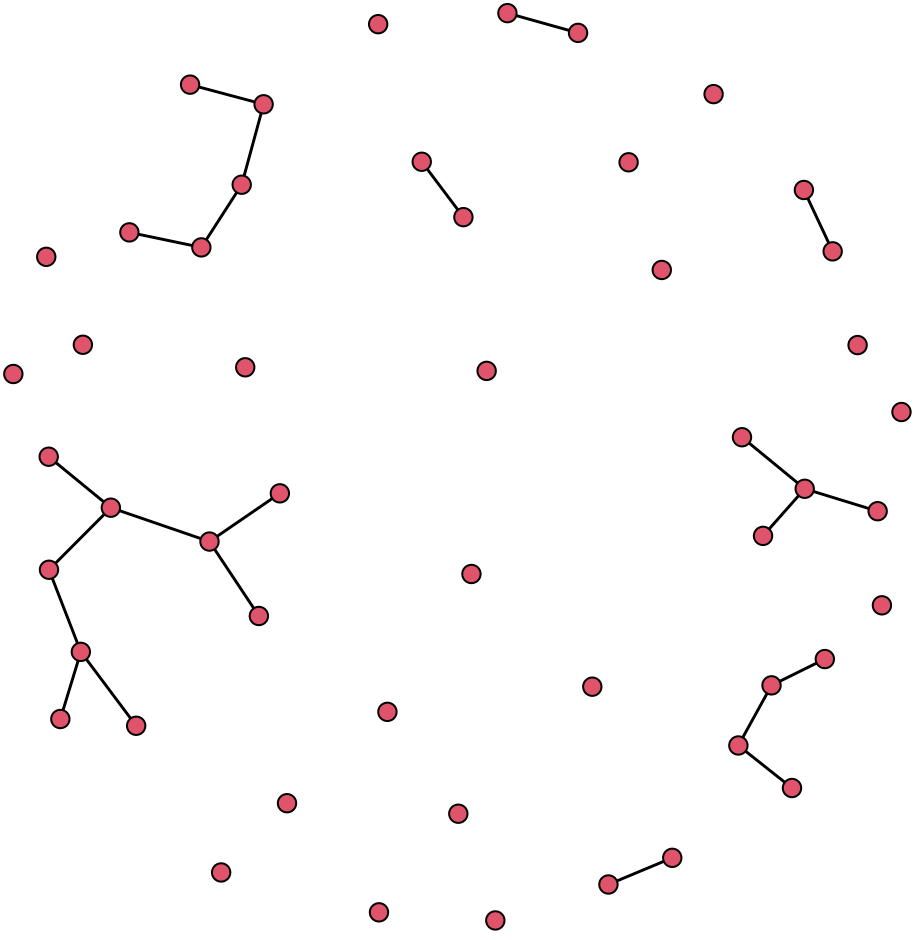

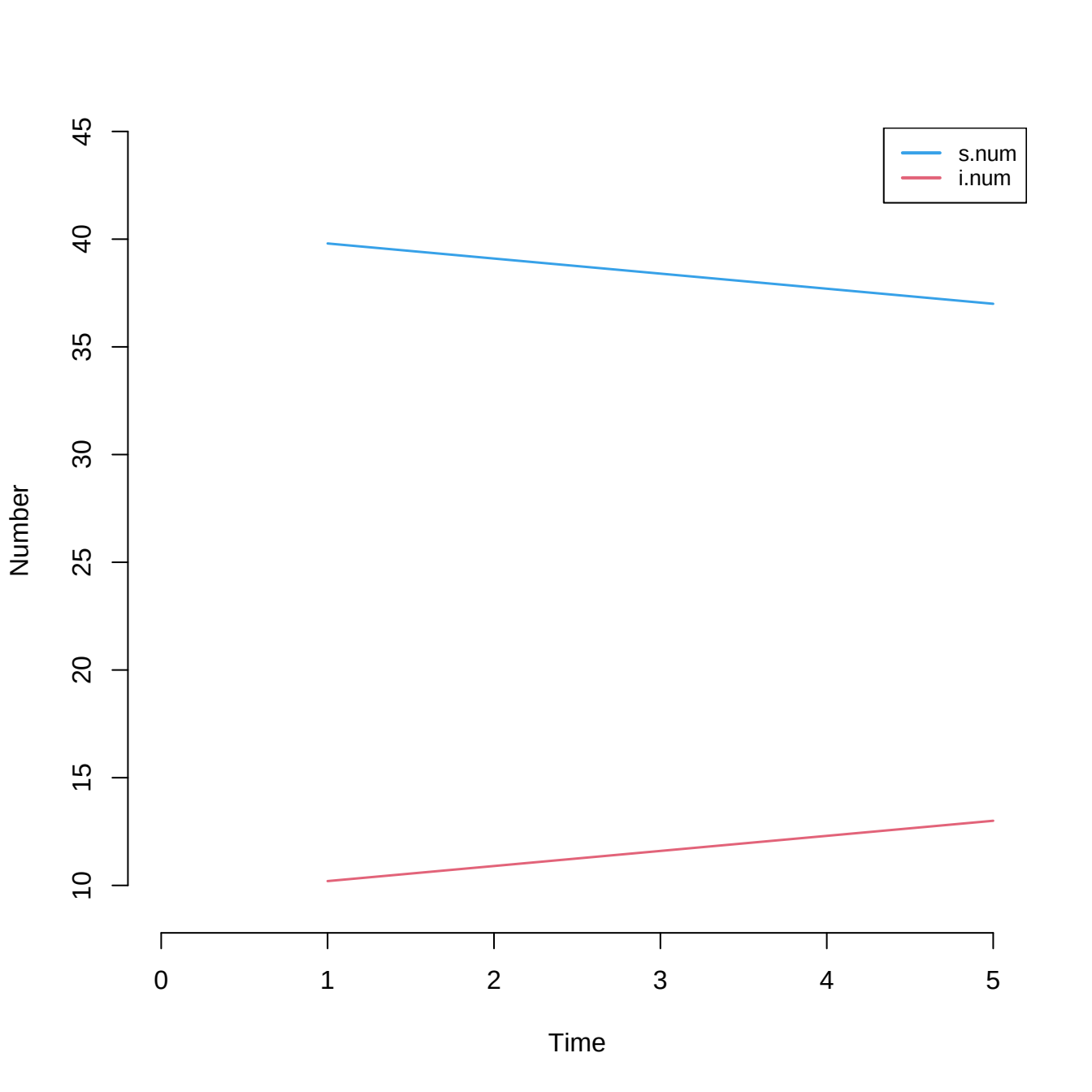
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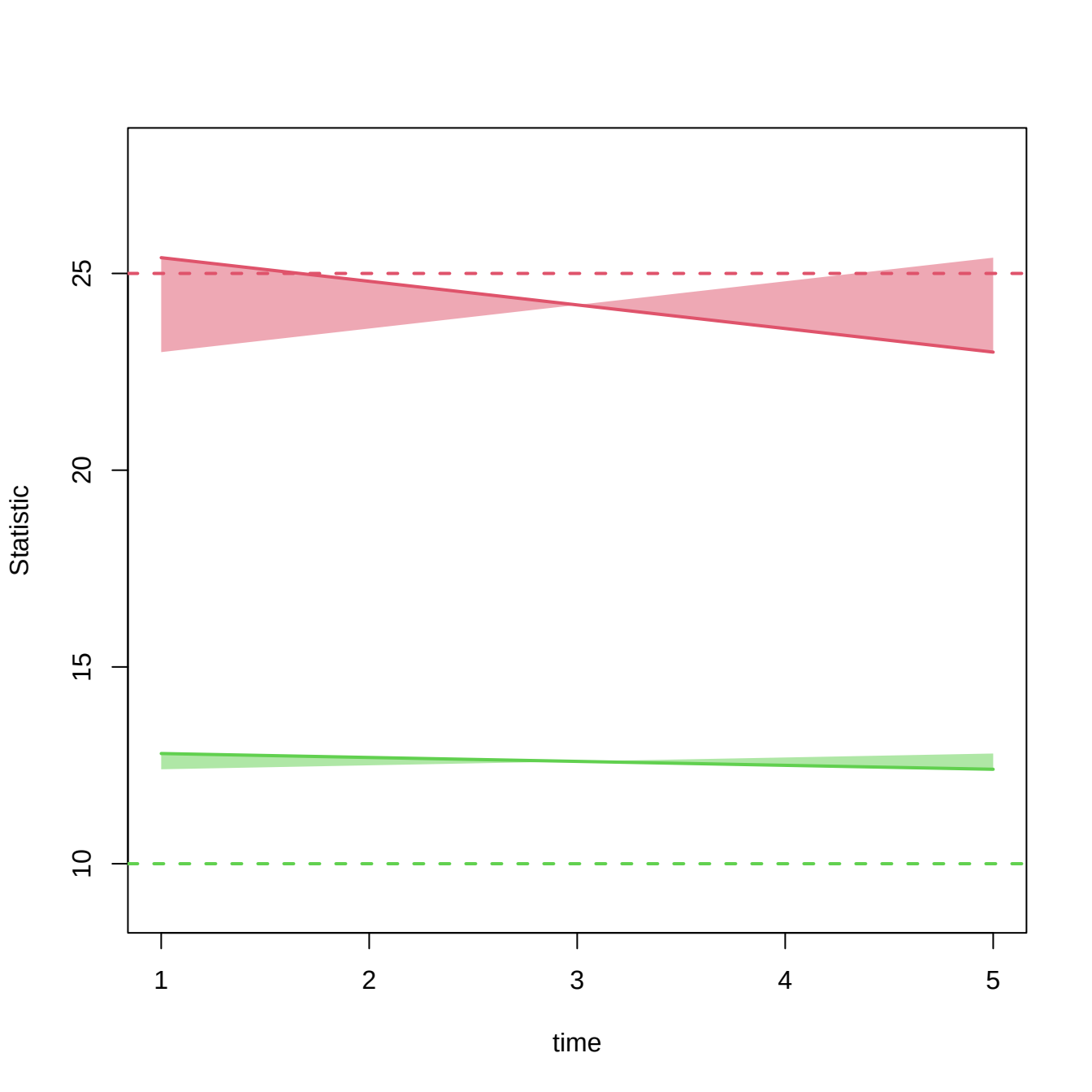
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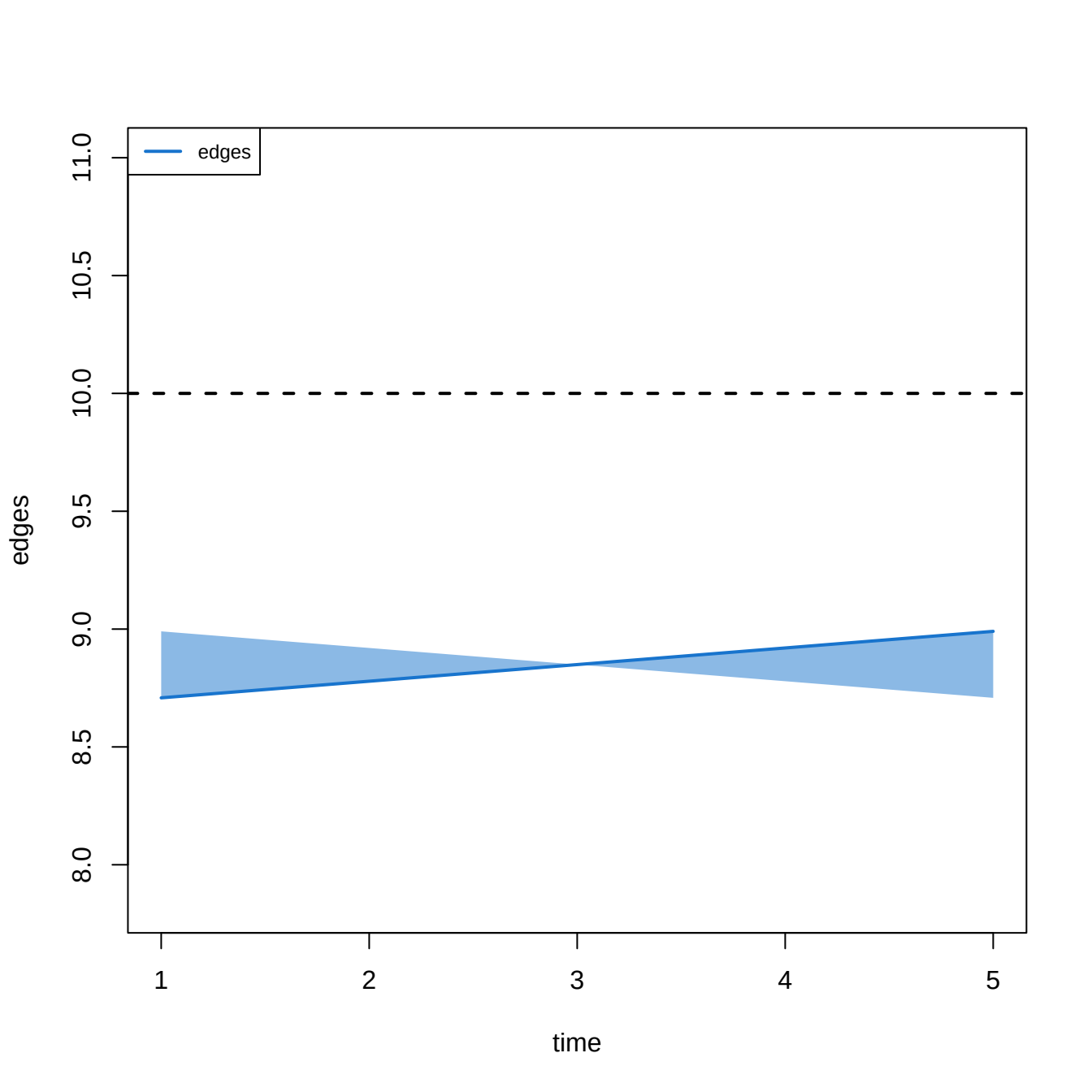
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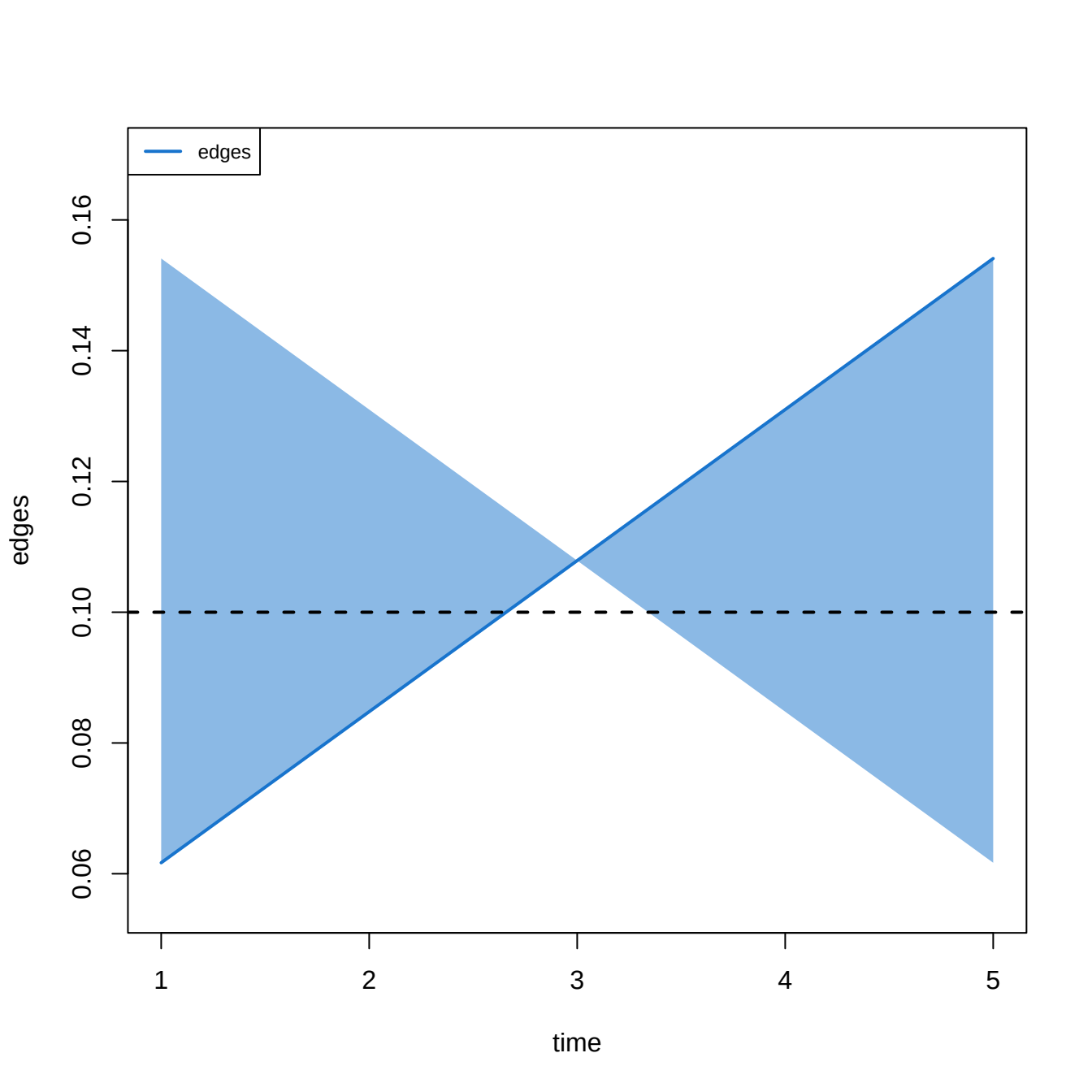
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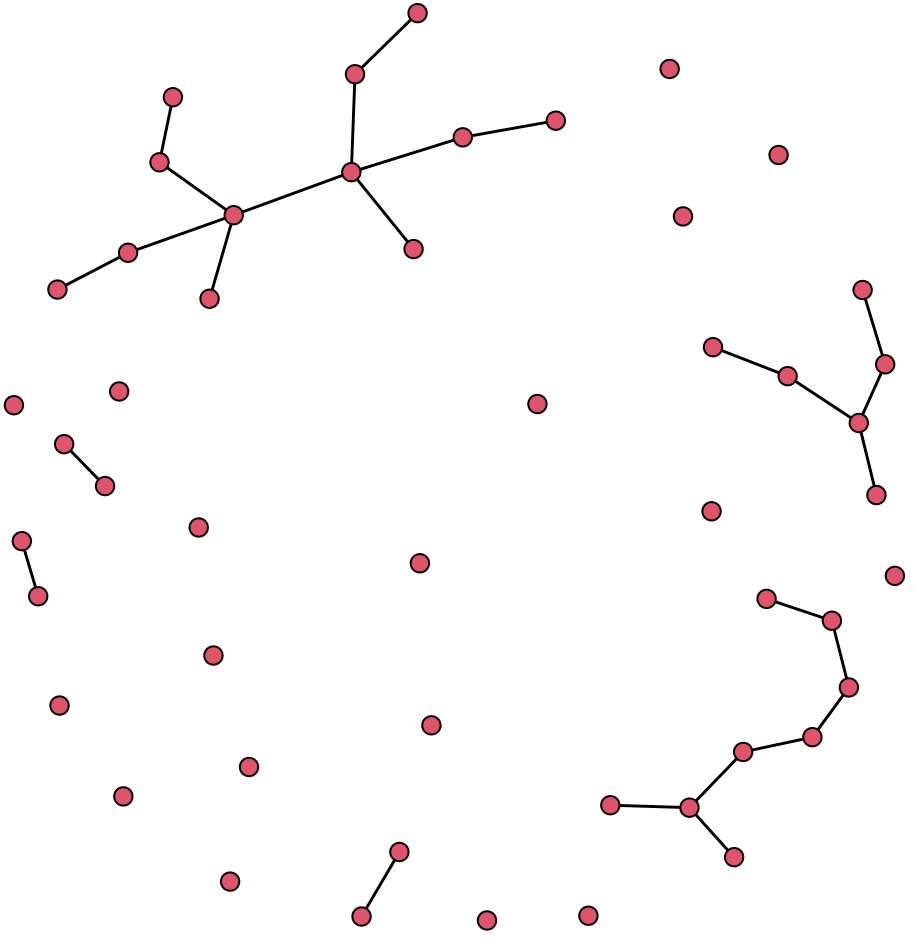

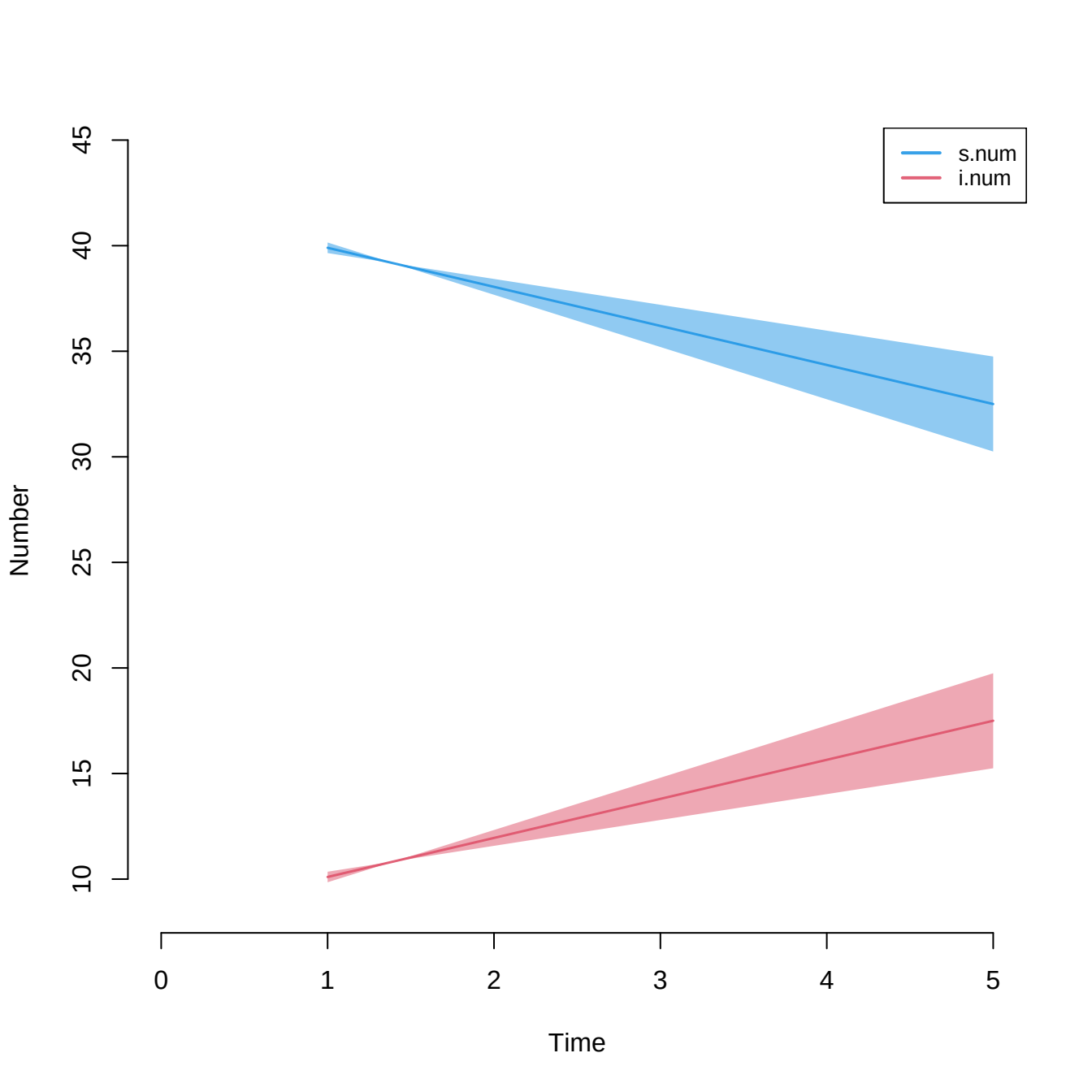
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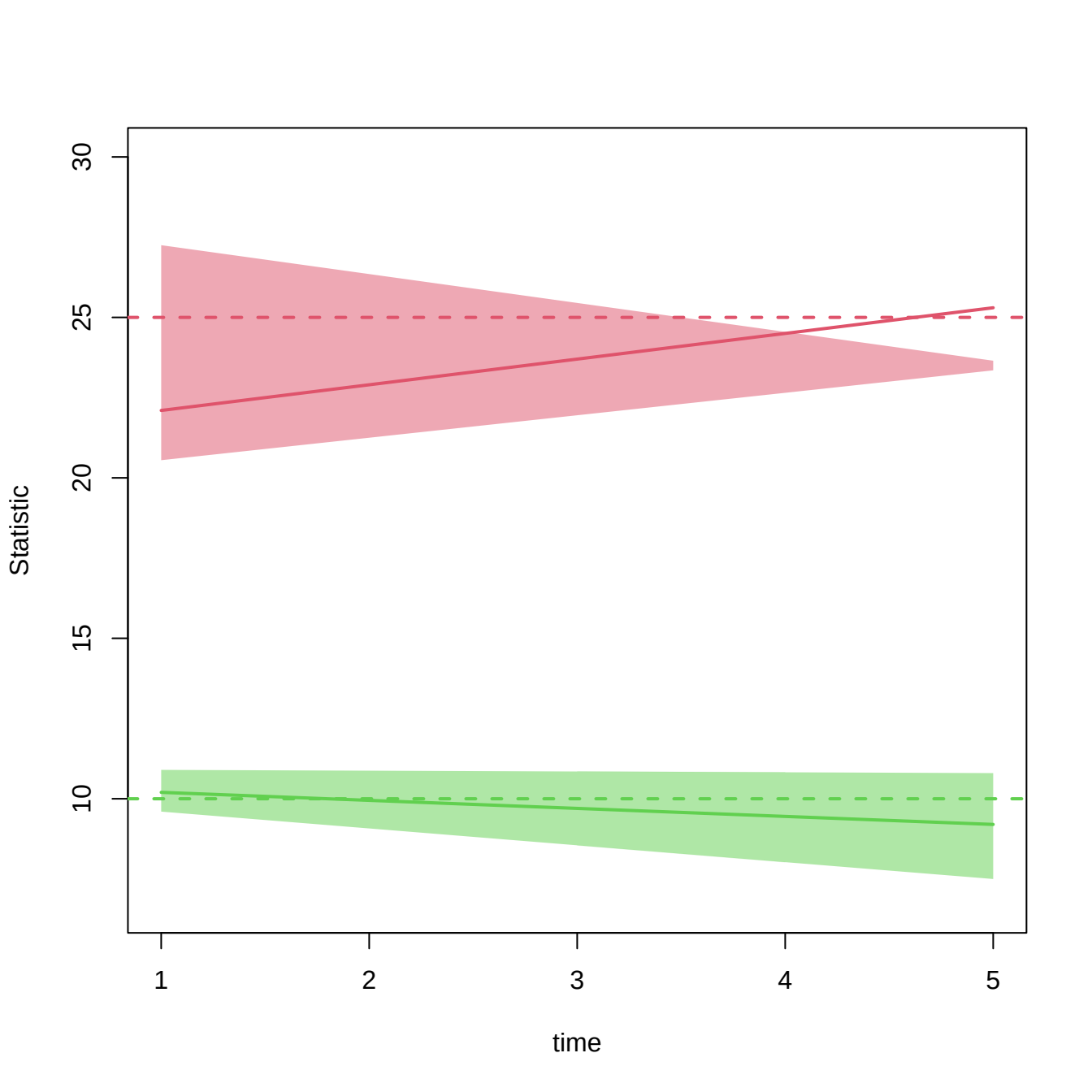
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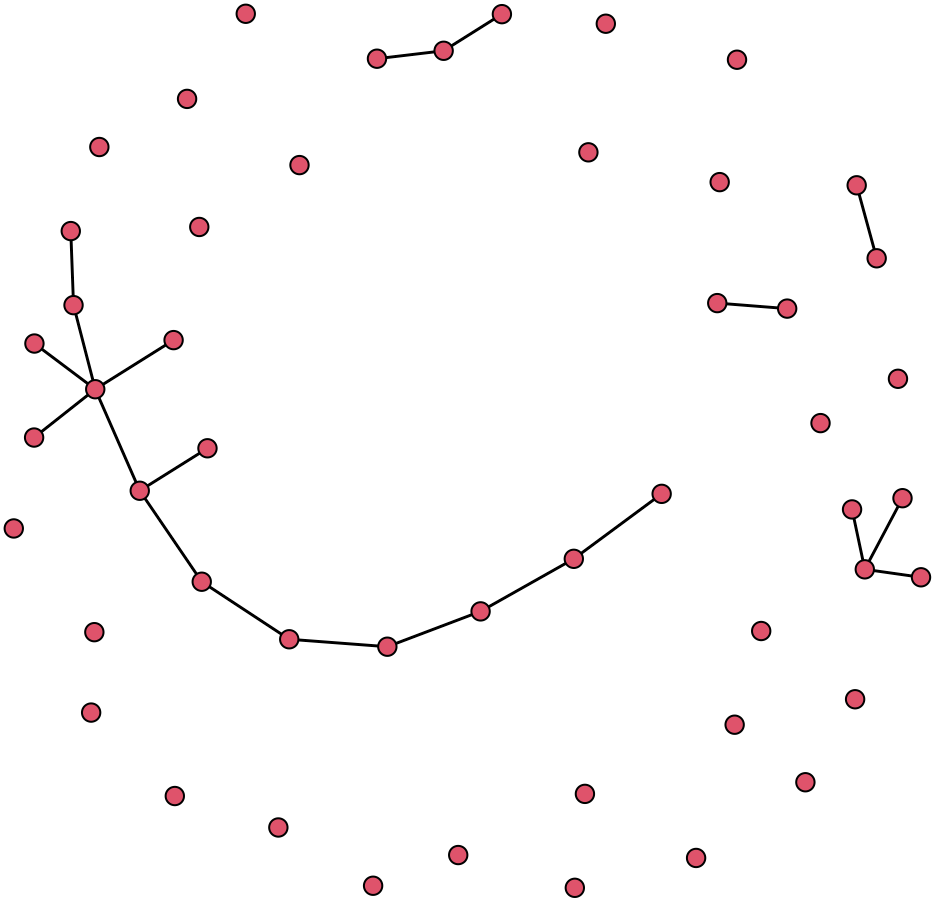

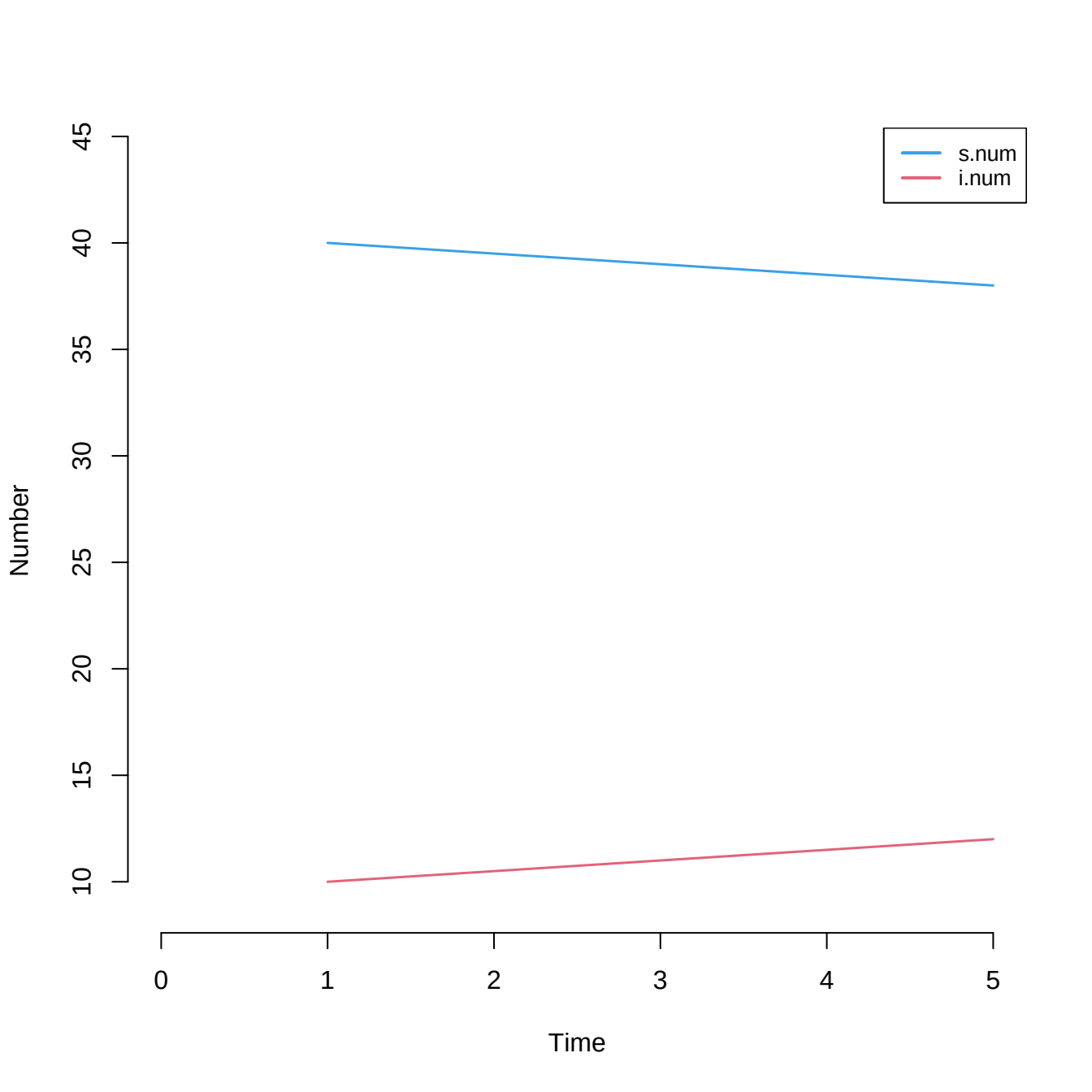
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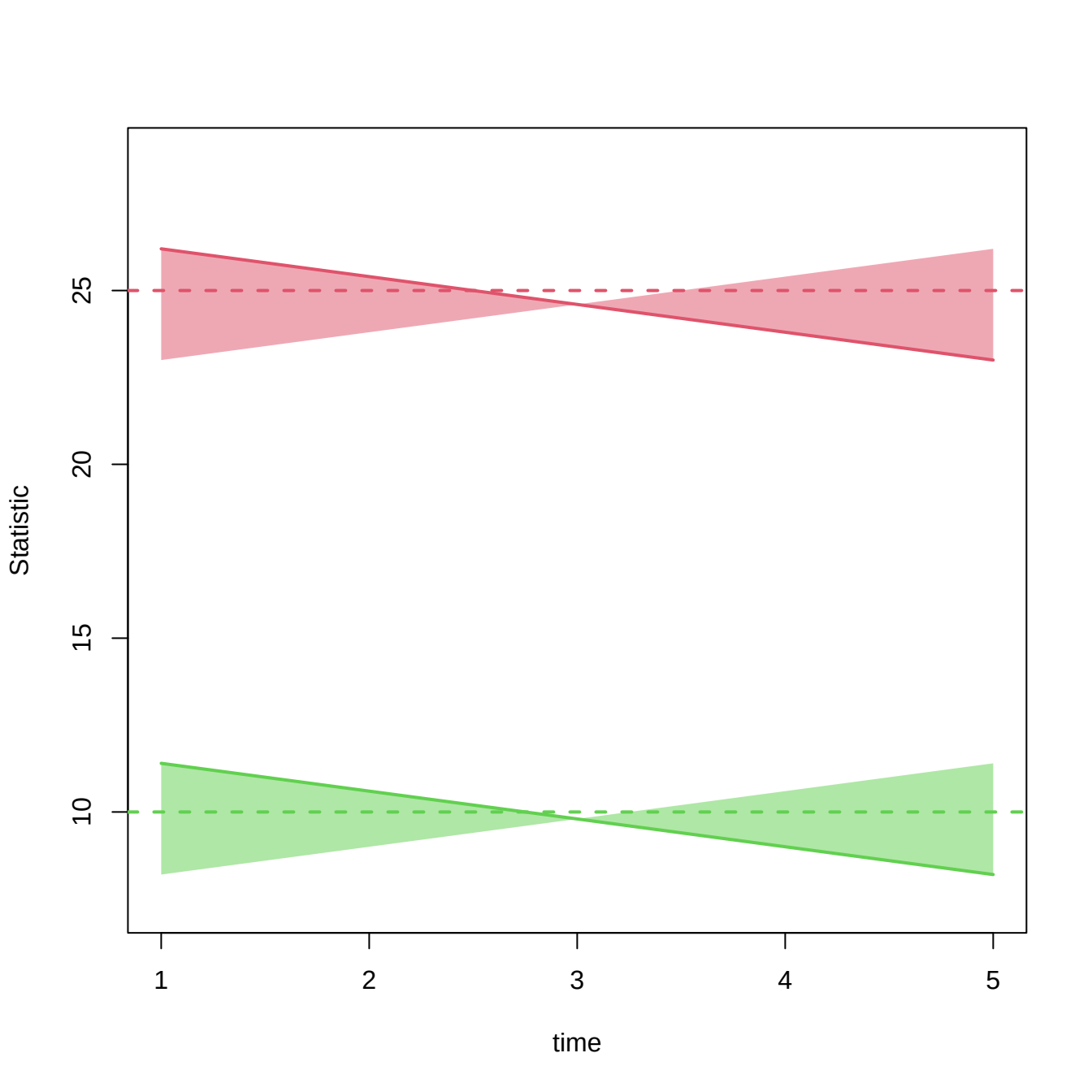
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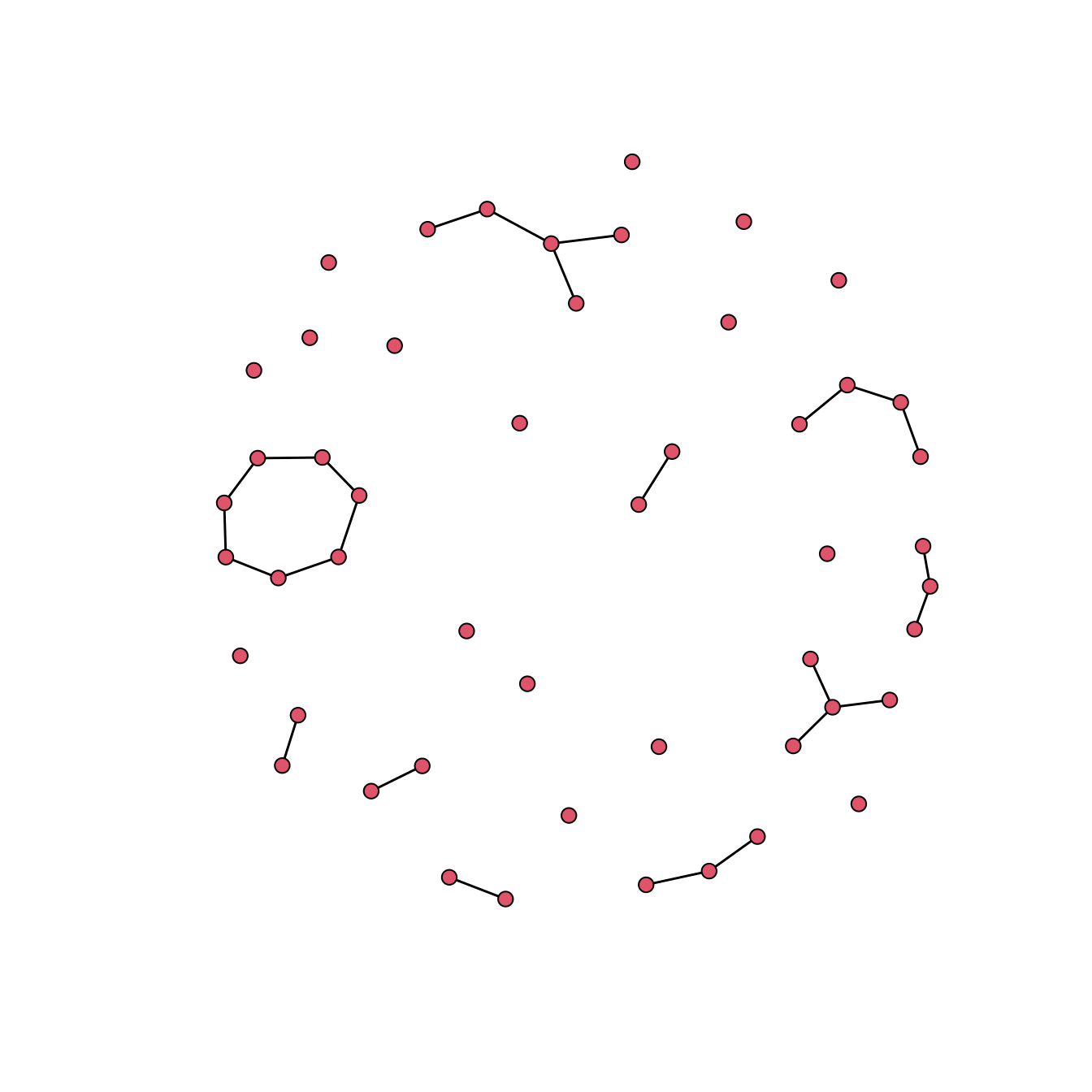

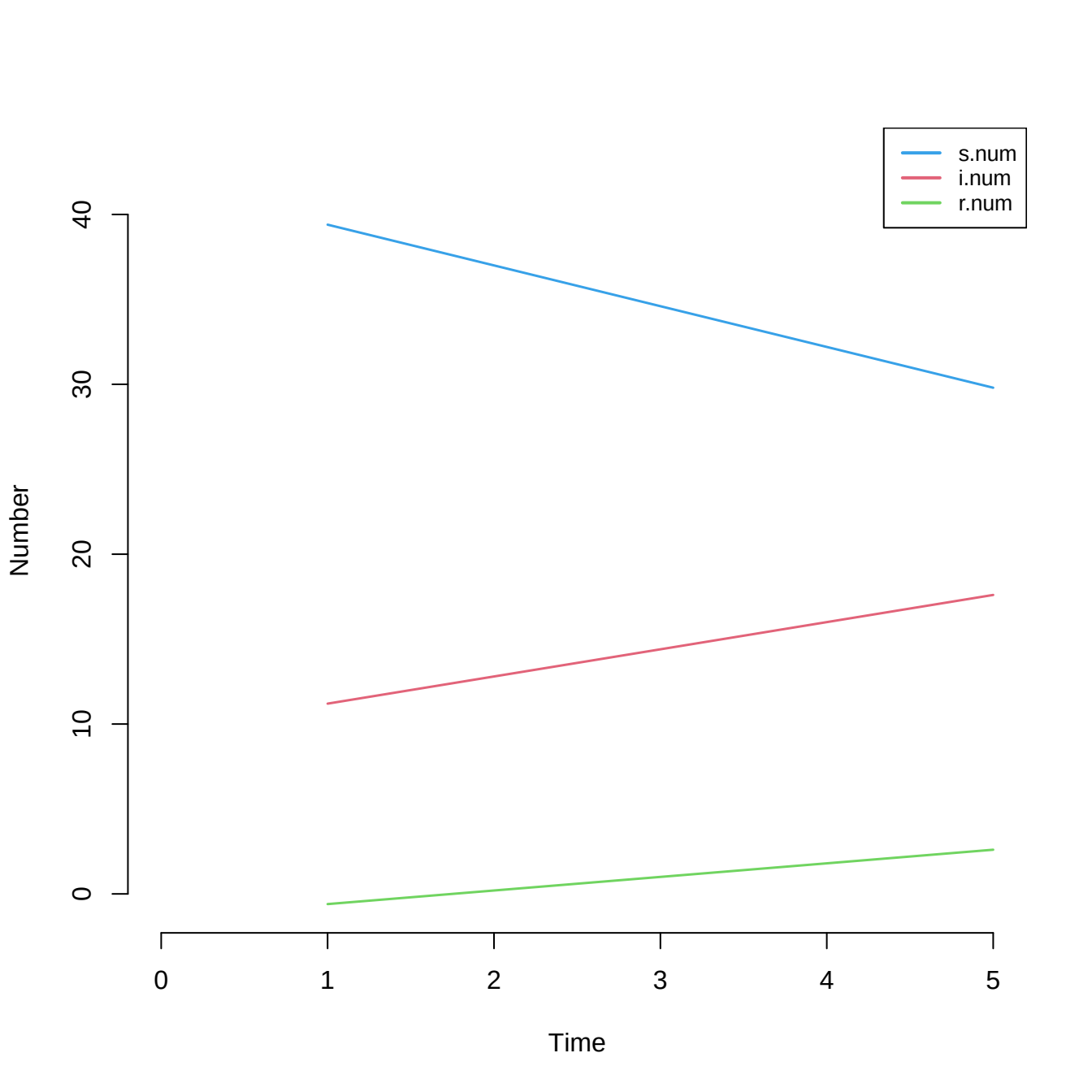
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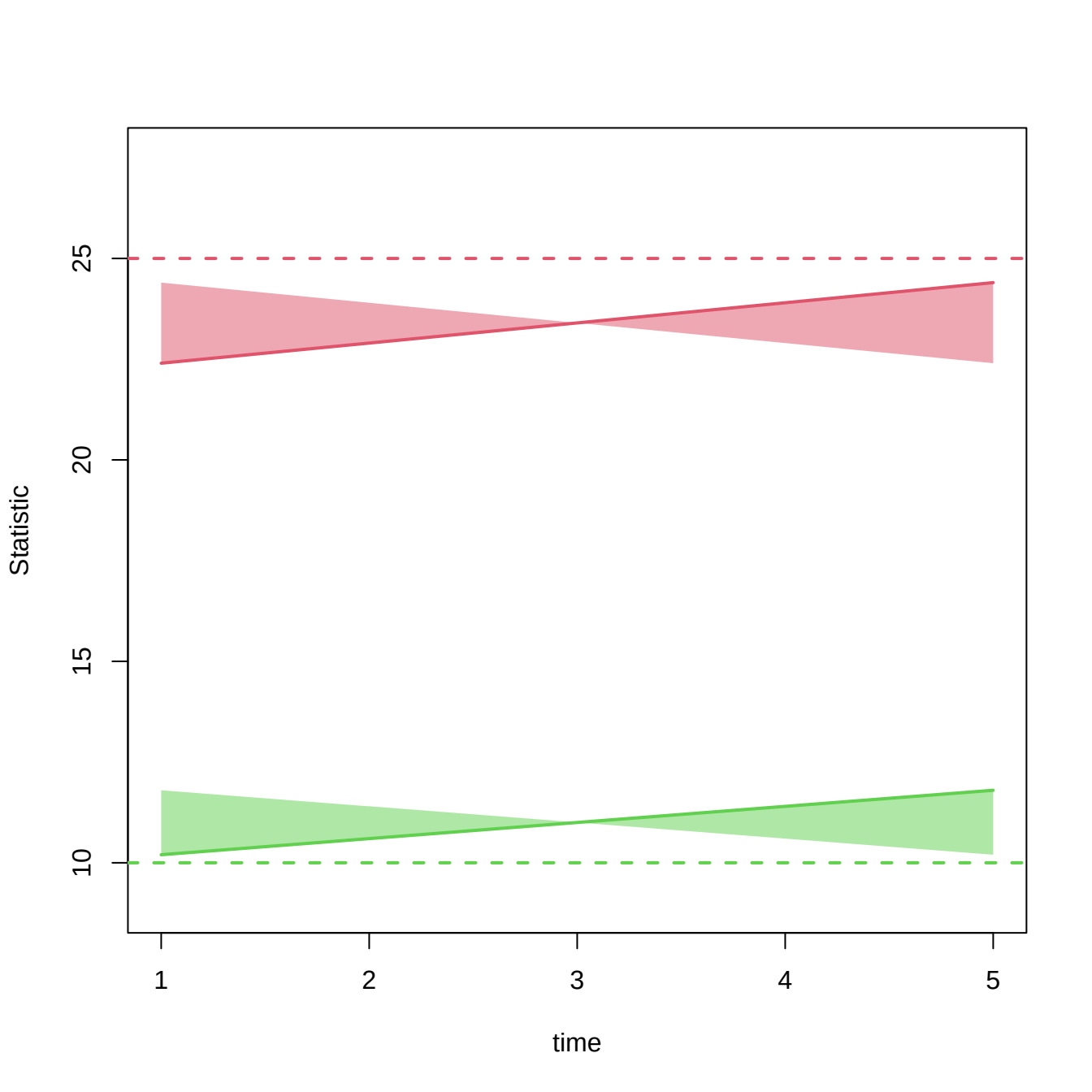
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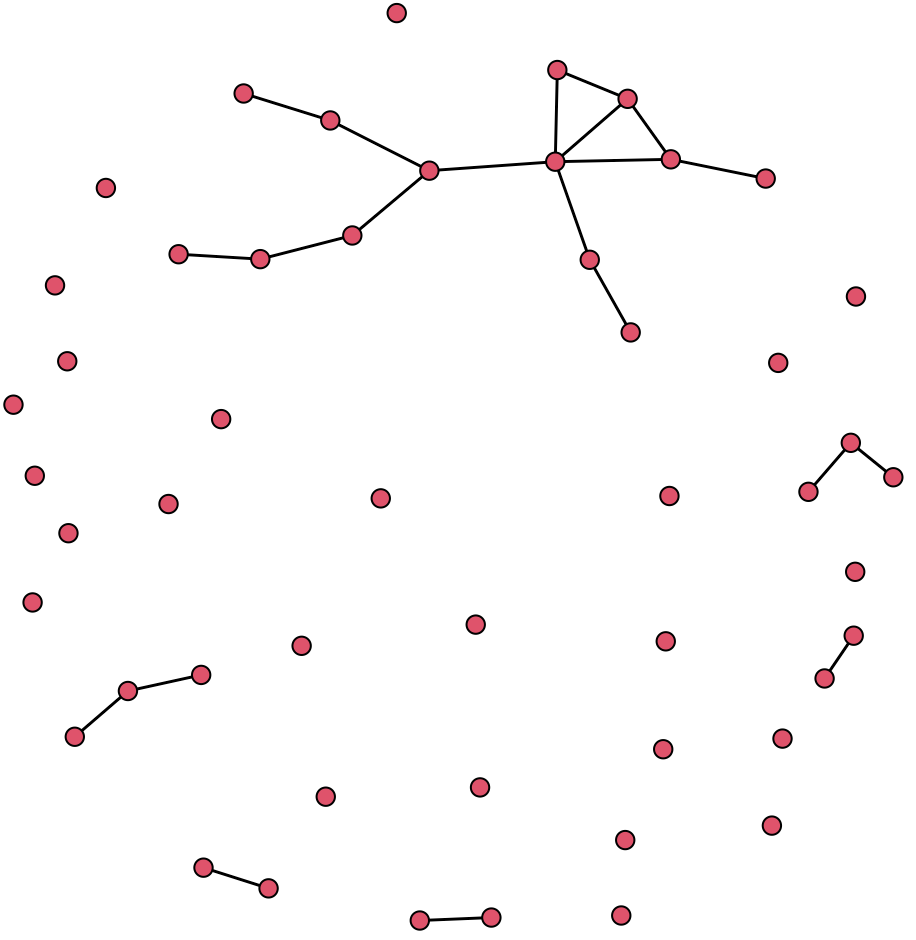

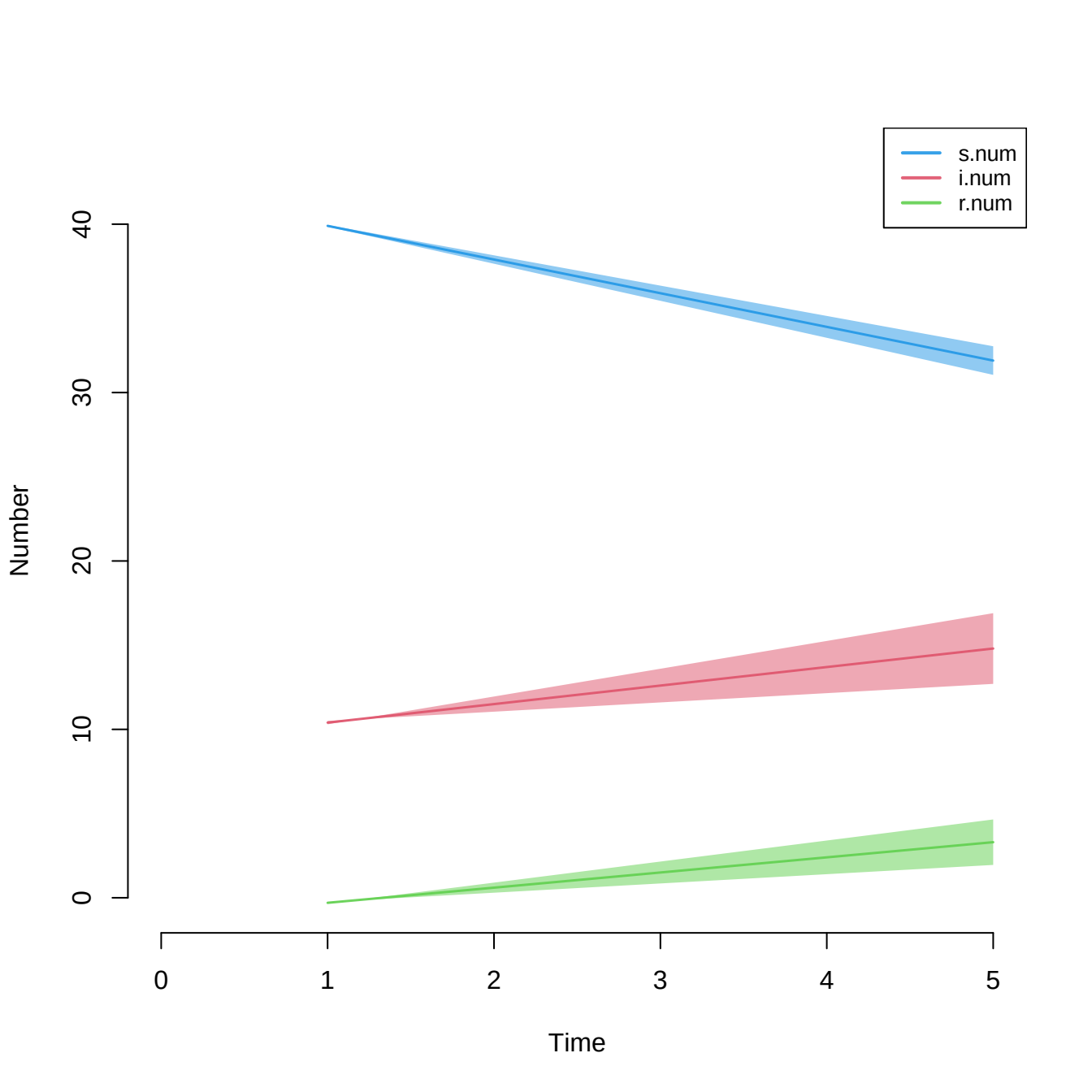
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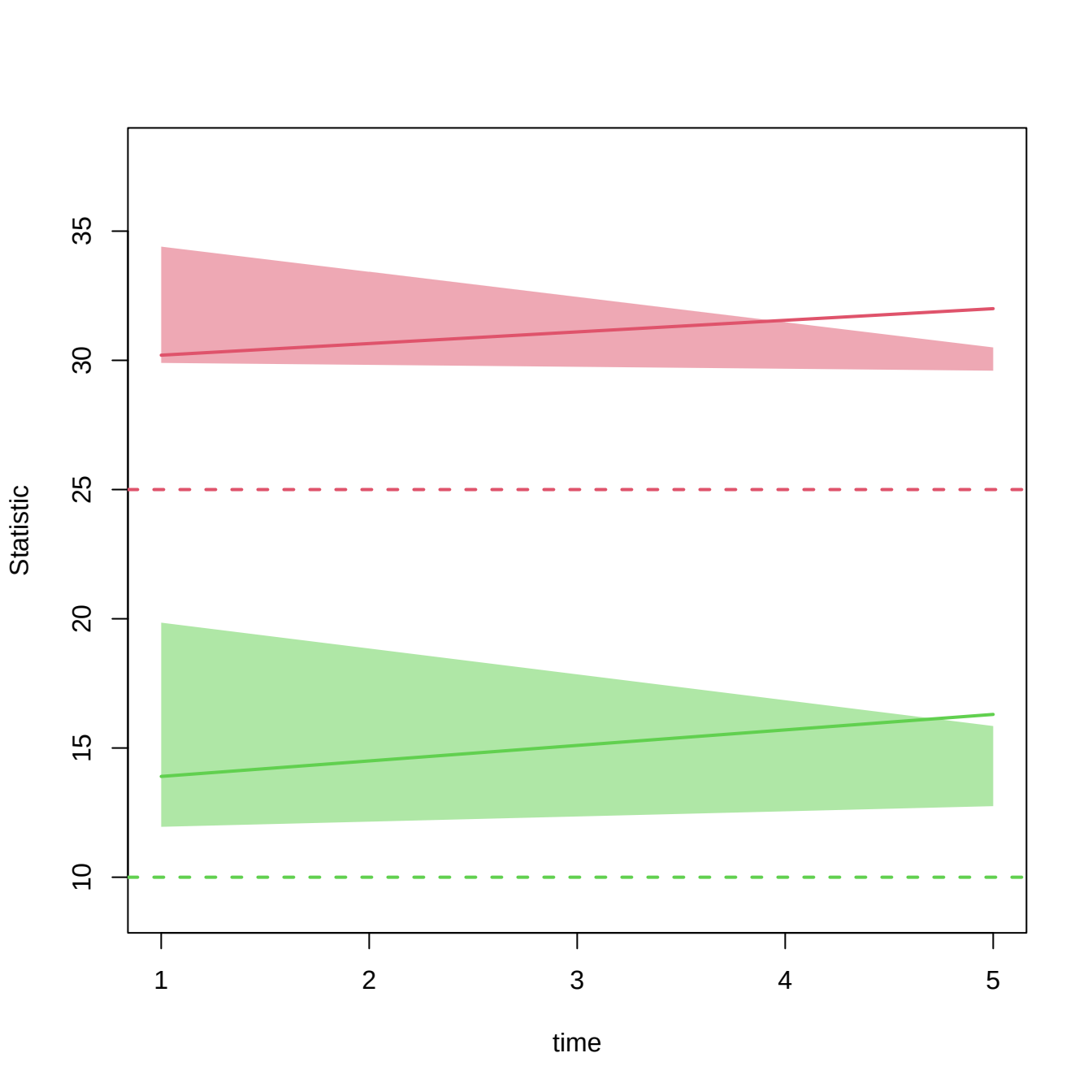
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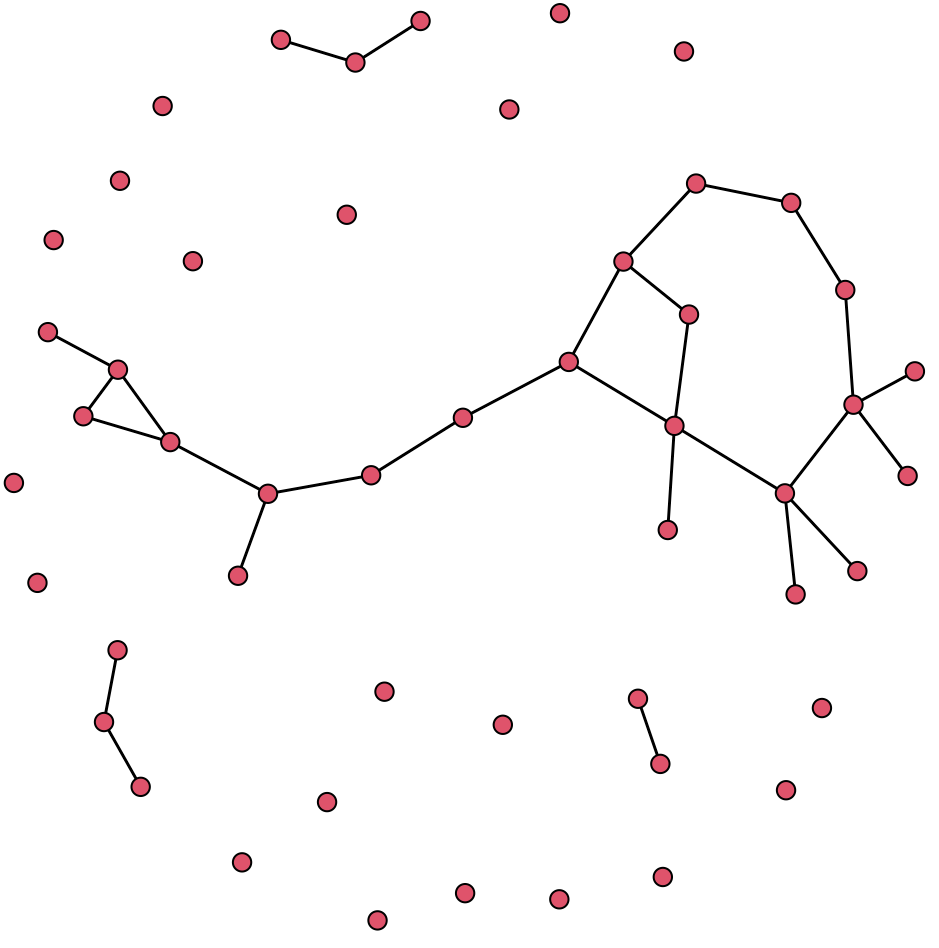

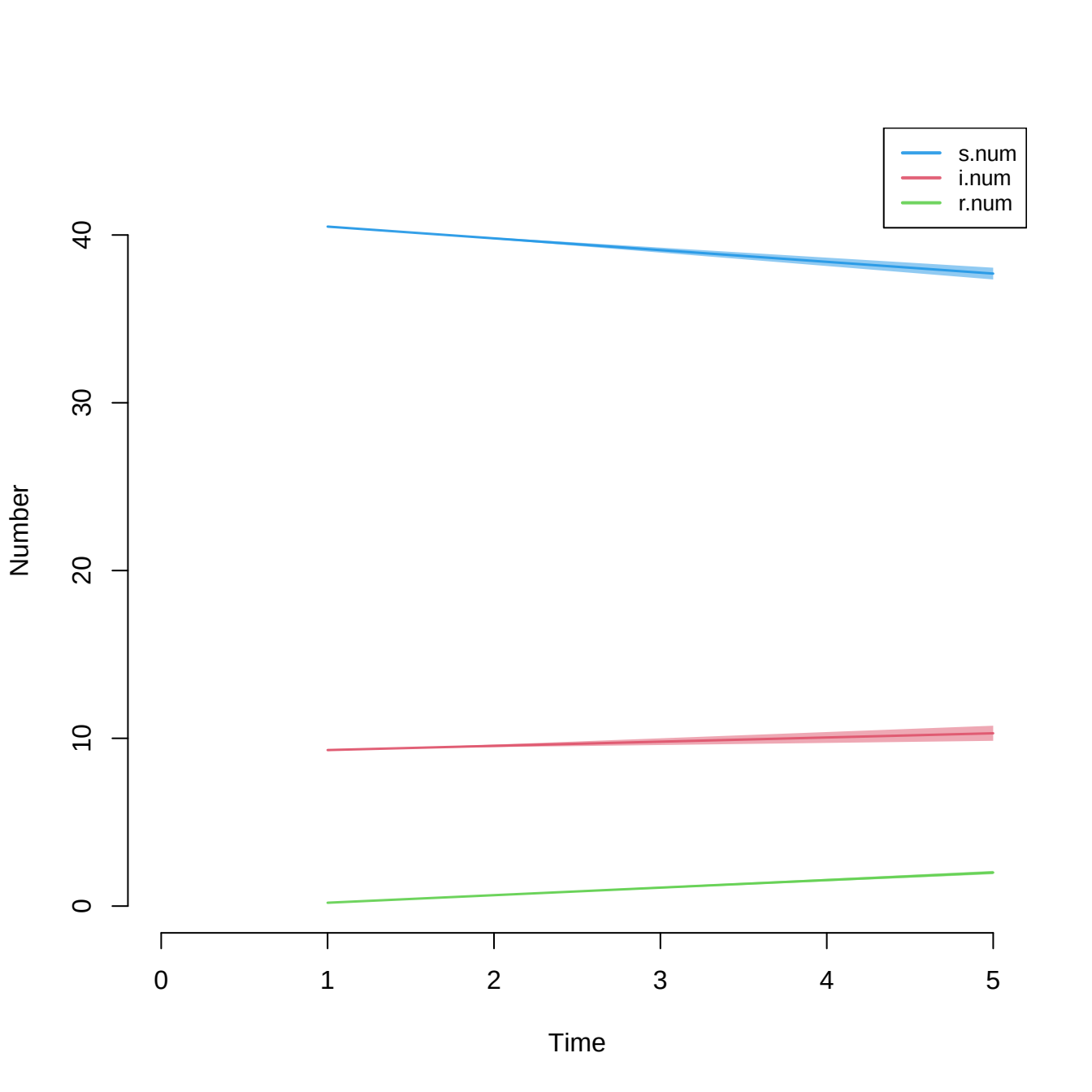
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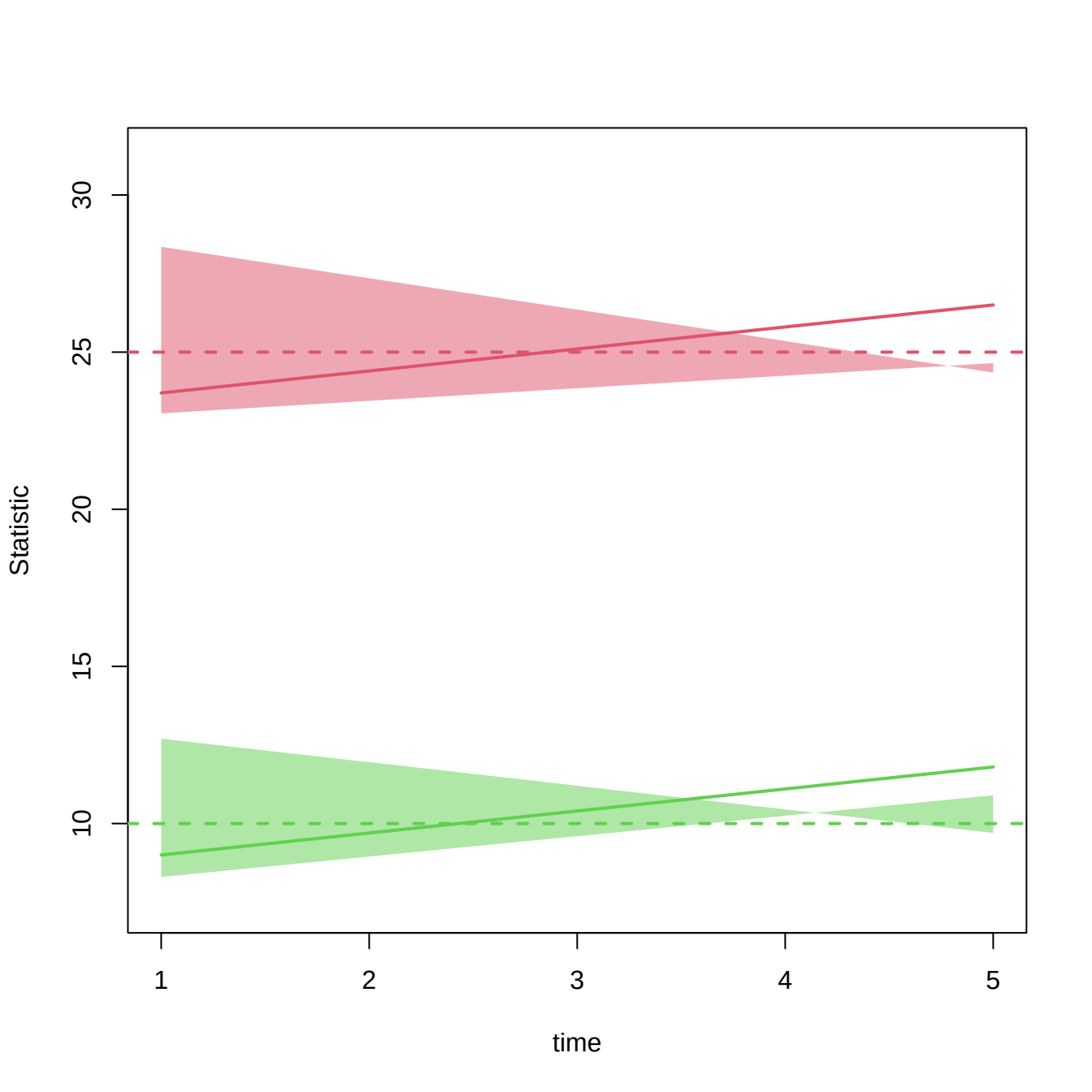
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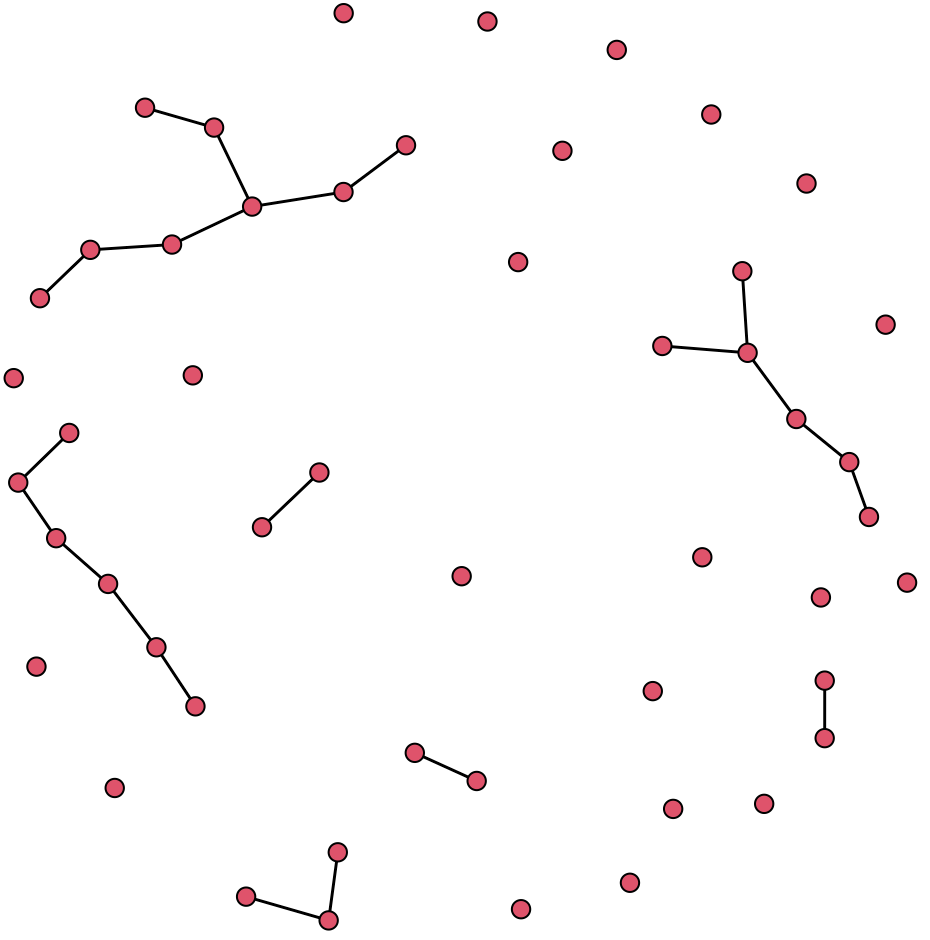

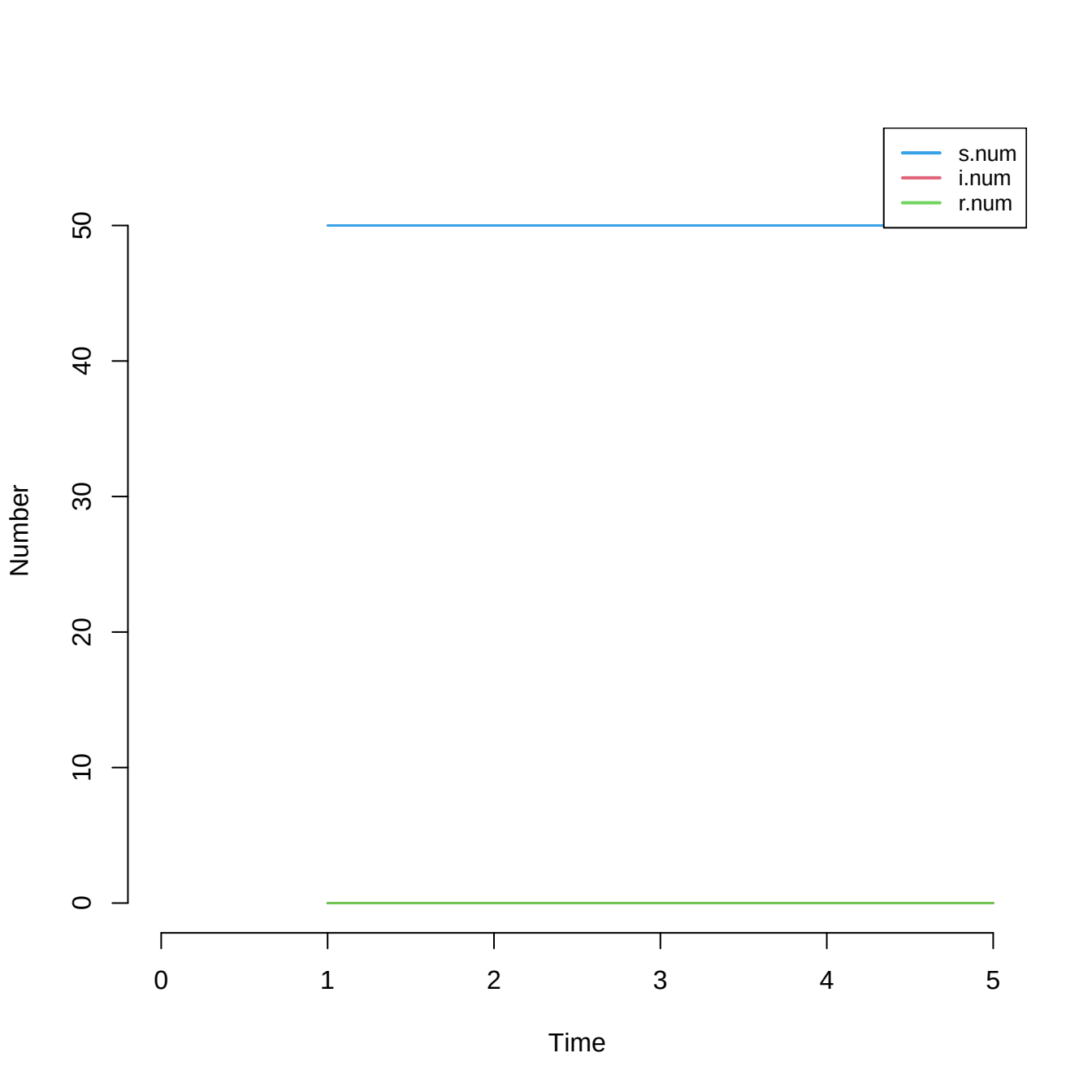
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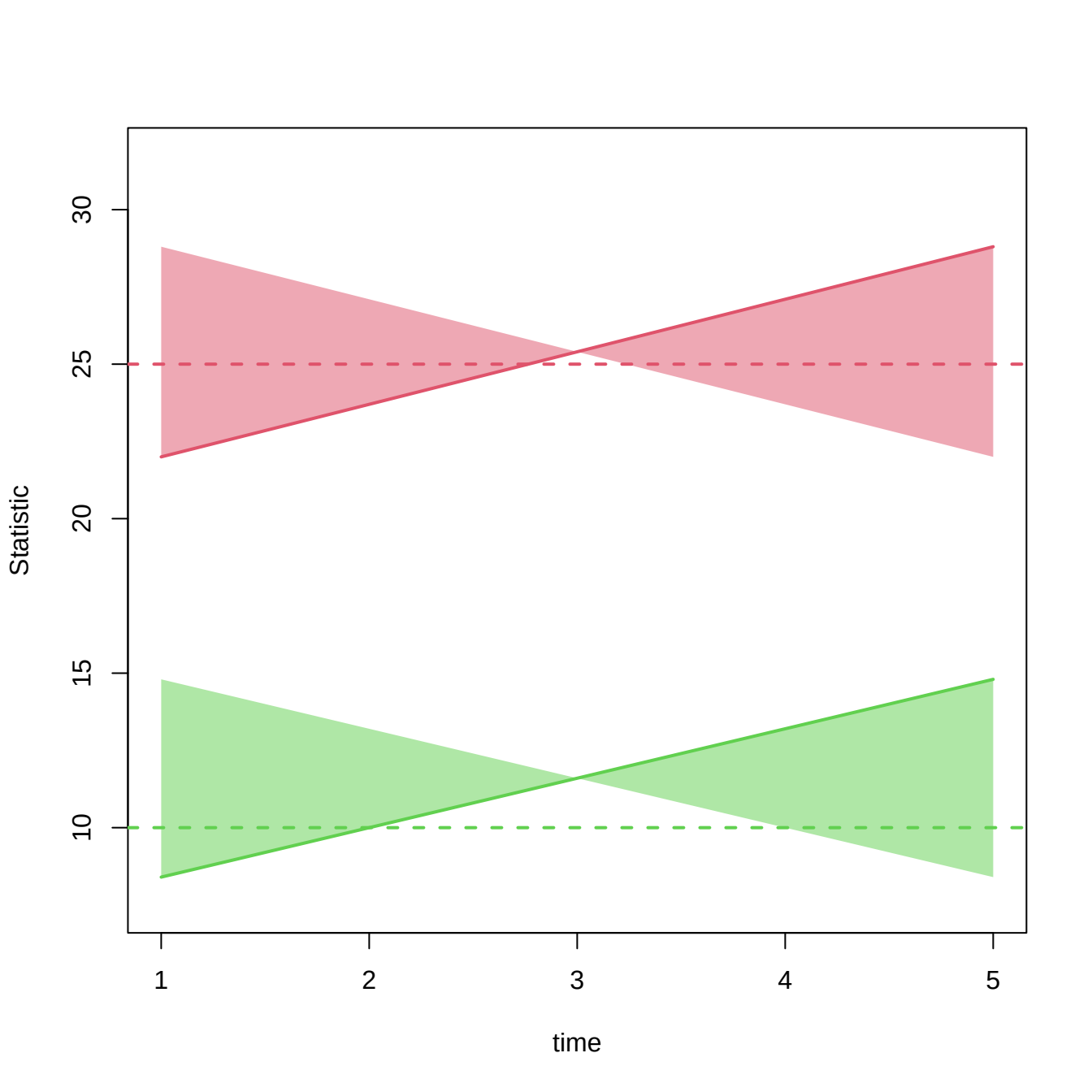
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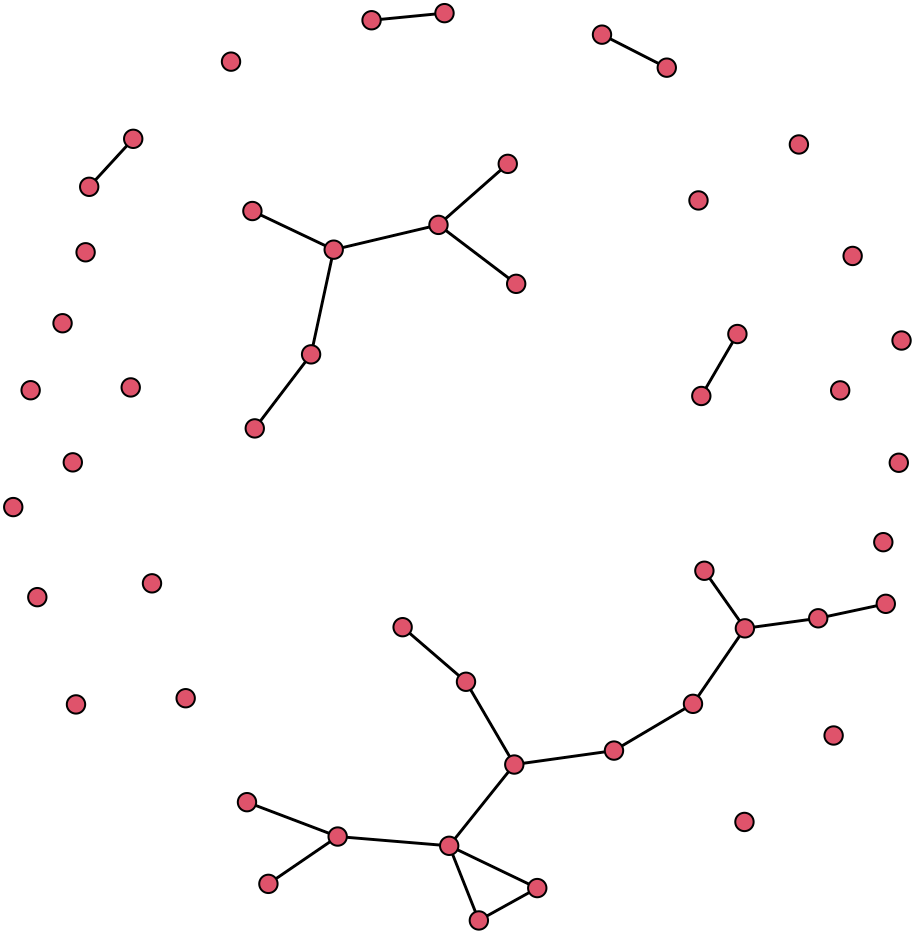

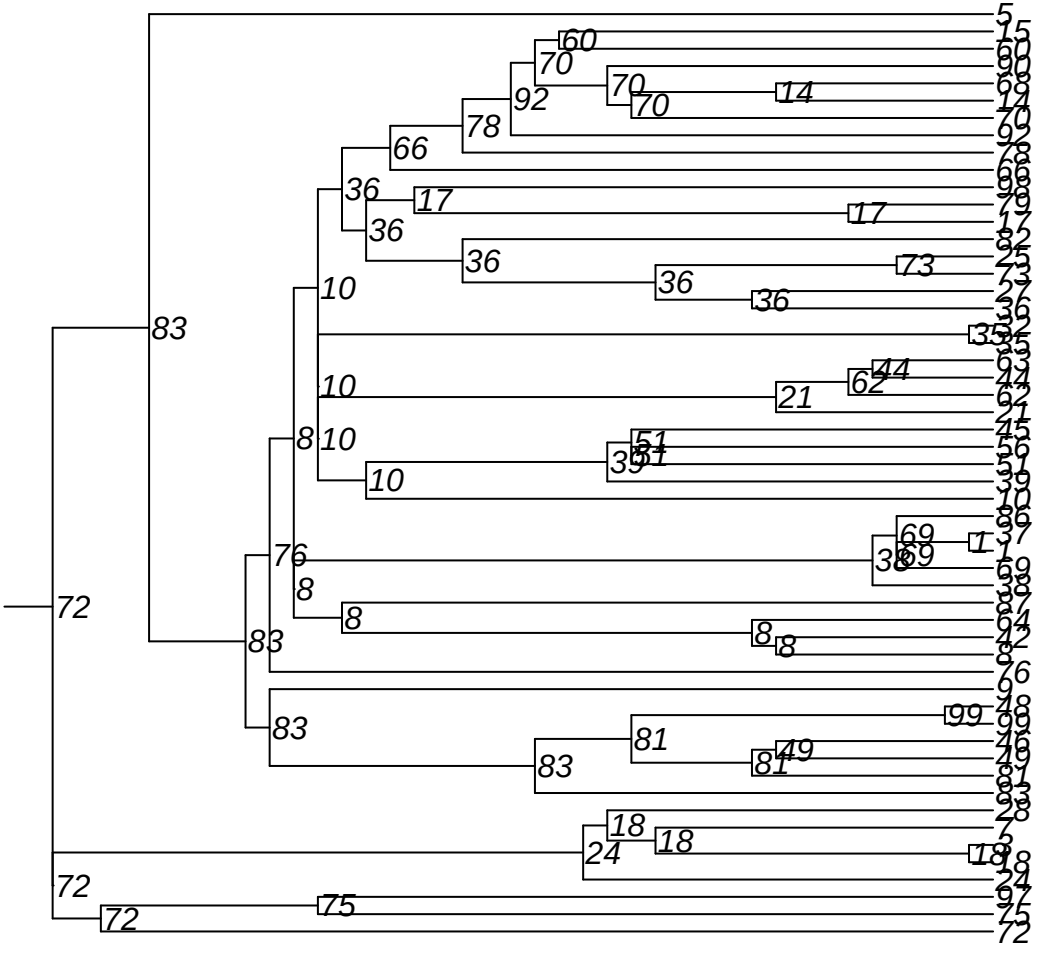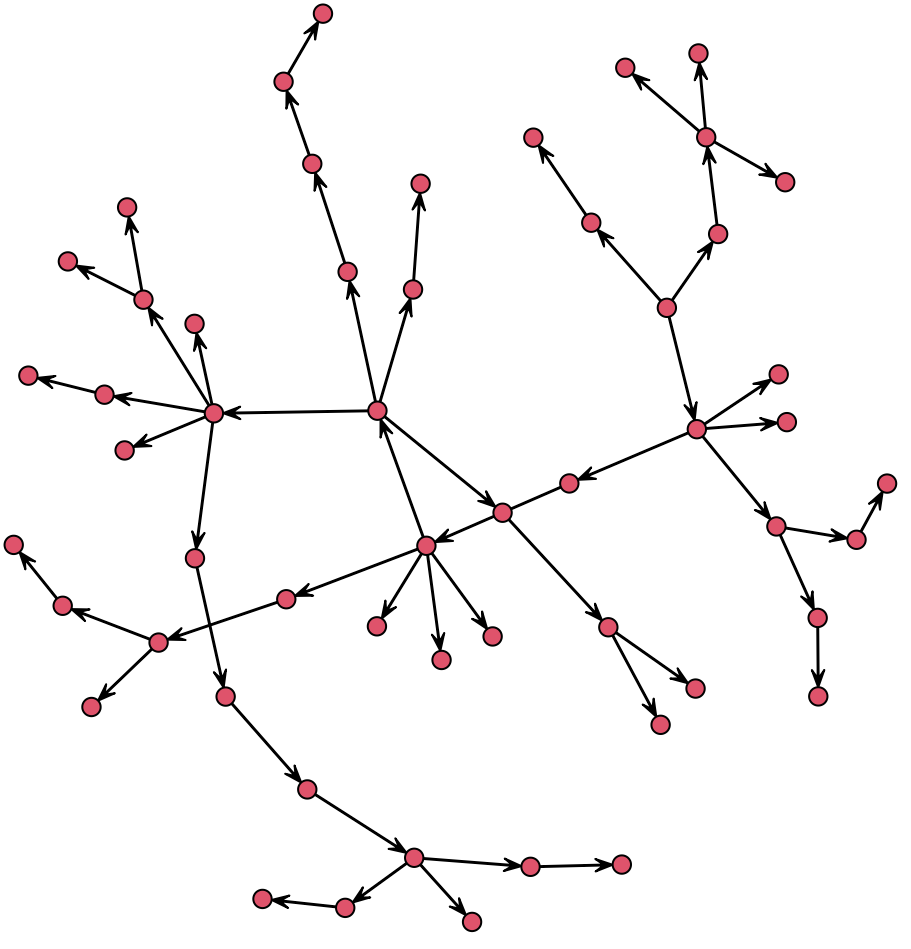
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