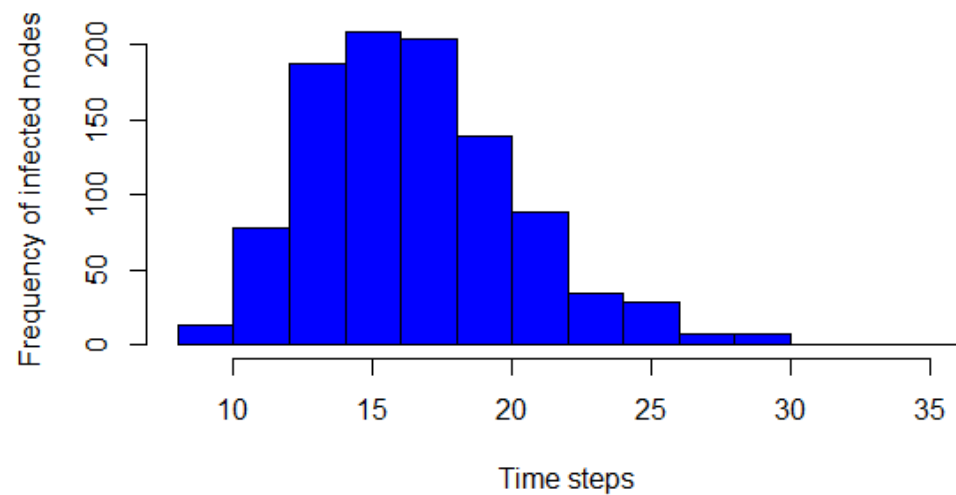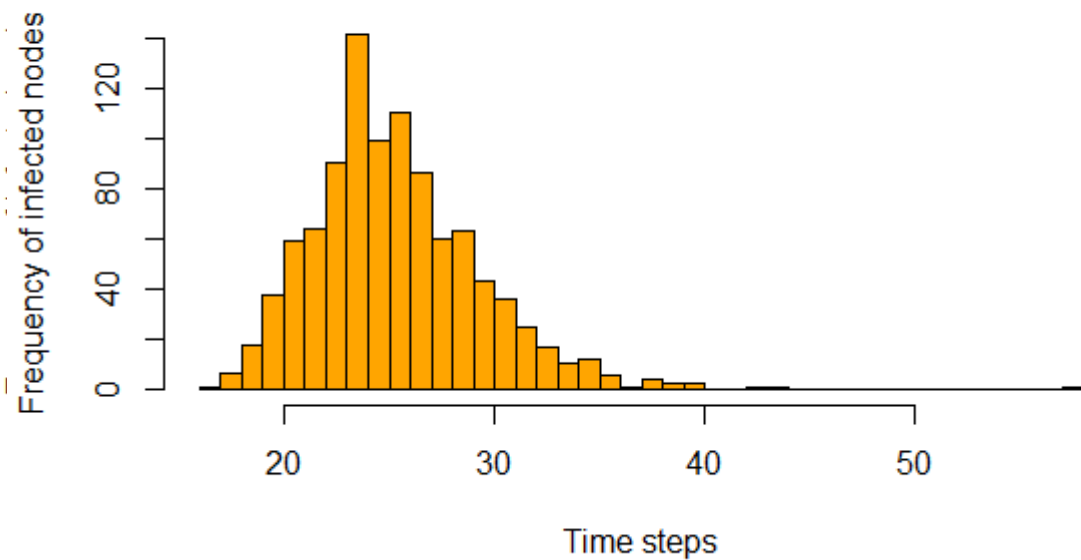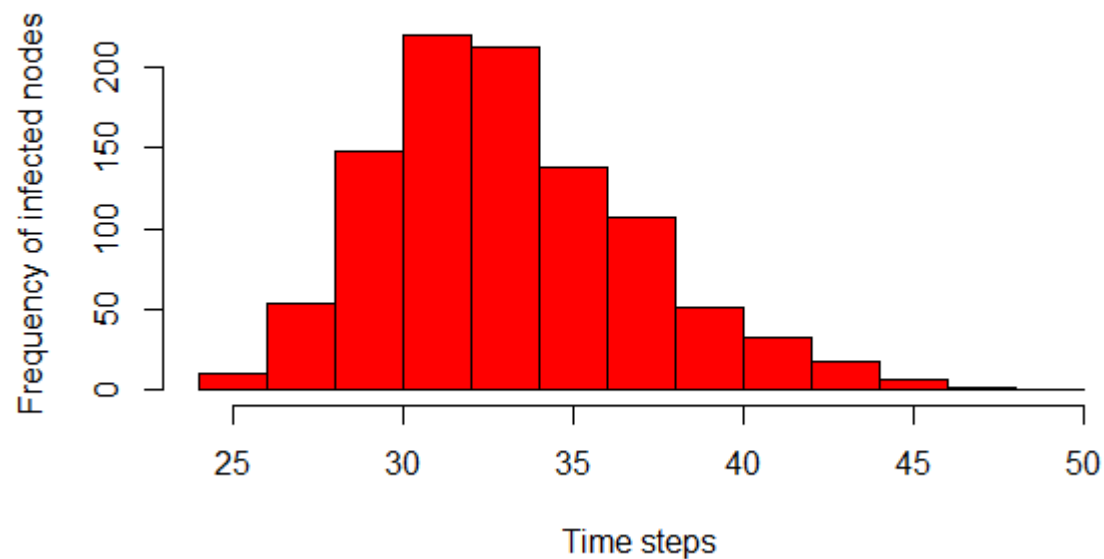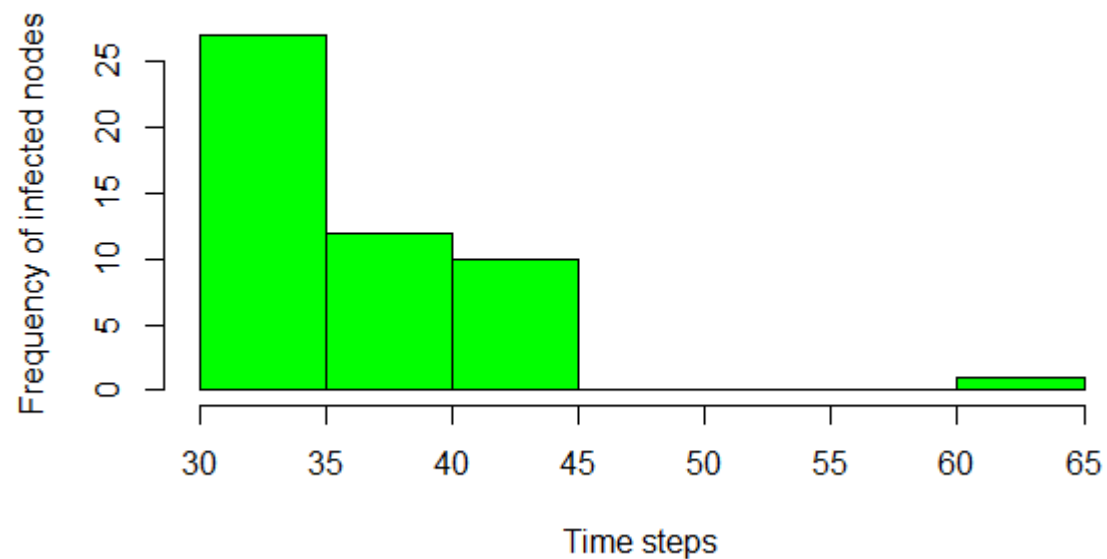# Computer modelling – Network models of epidemics
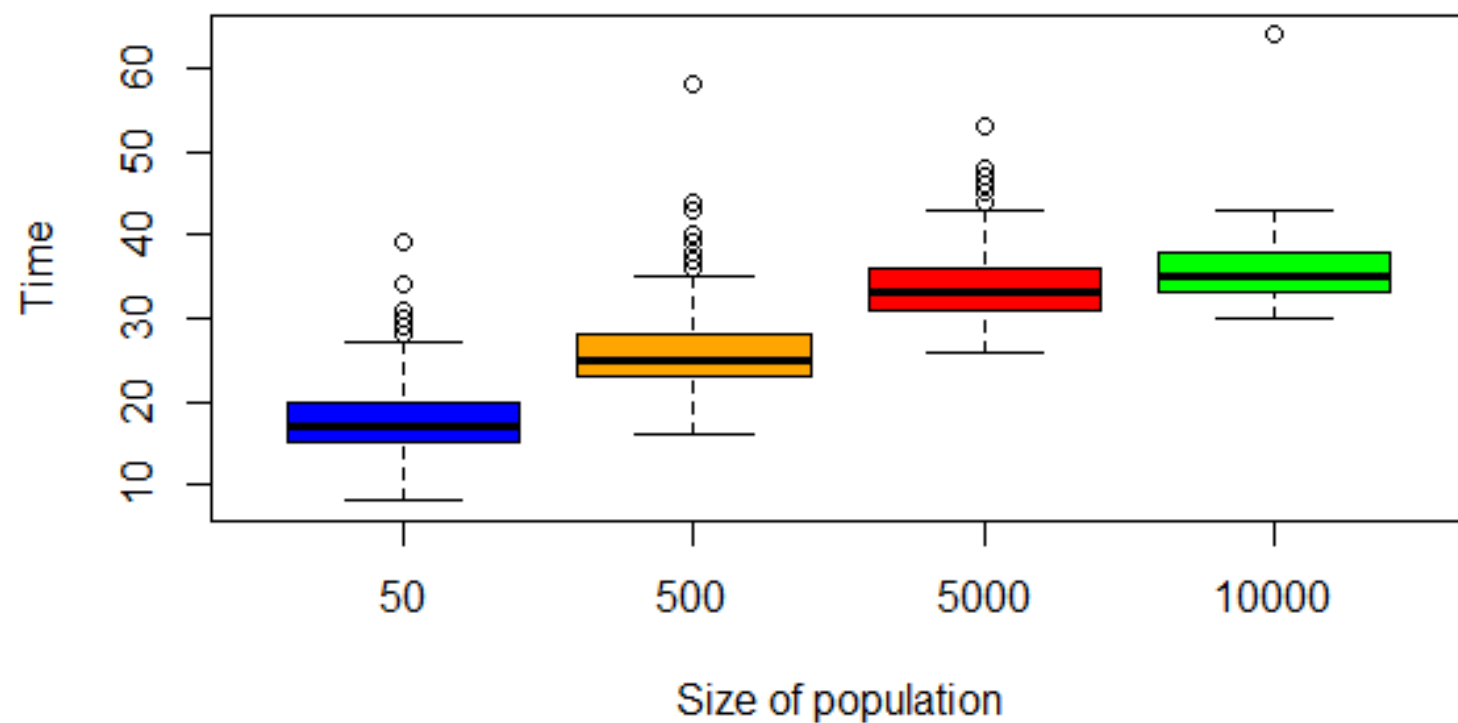
Basic parameters:

- Connectivity = 2

- Probability of transmission = 0.2

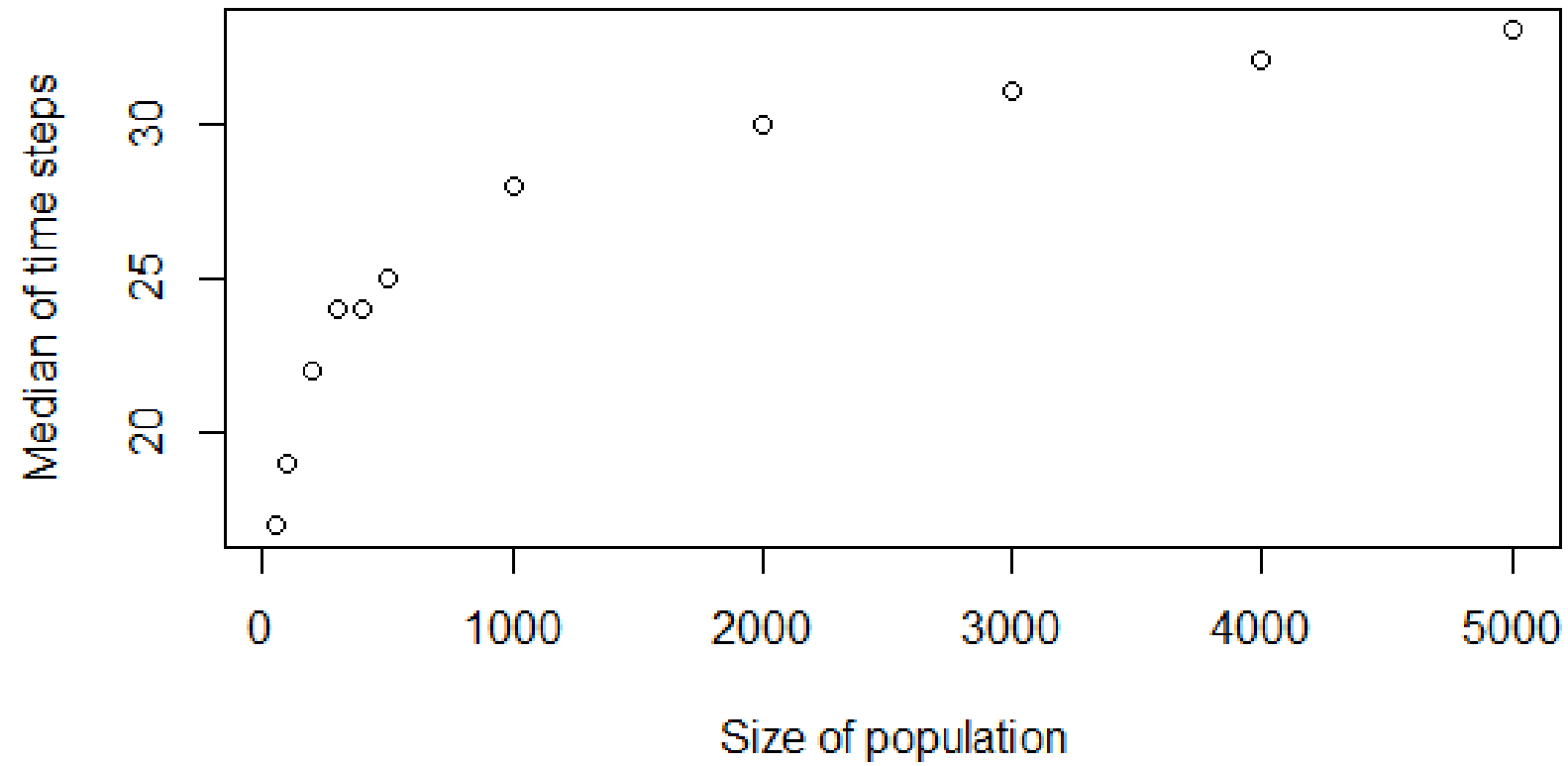- Question: time until all nodes are infected

N=50

Frequency of infected nodes / Time steps

N=500

Frequency of infected nodes / Time steps

N=5000

Frequency of infected nodes / Time steps

N=10000

Frequency of infected nodes / Time steps

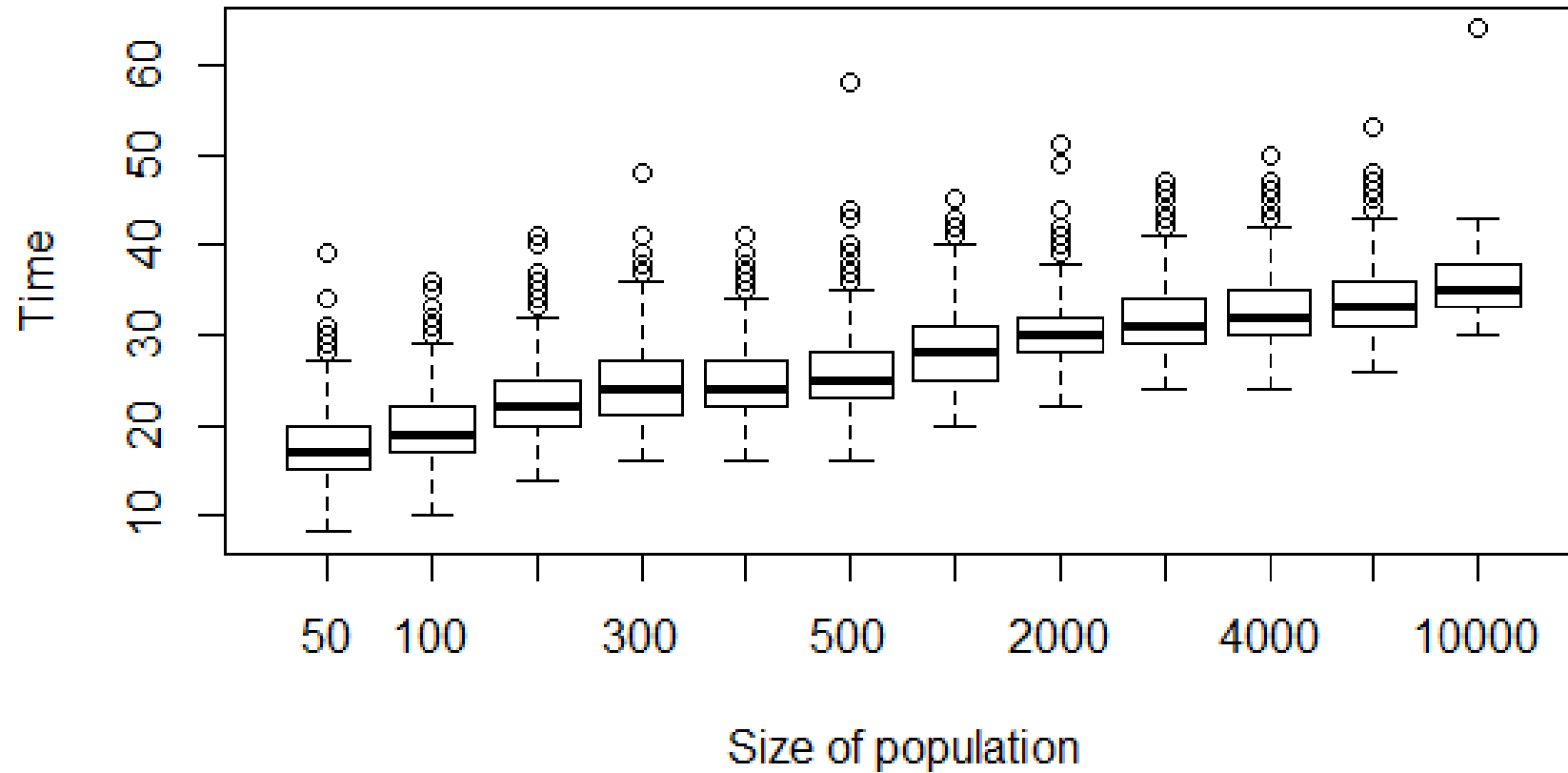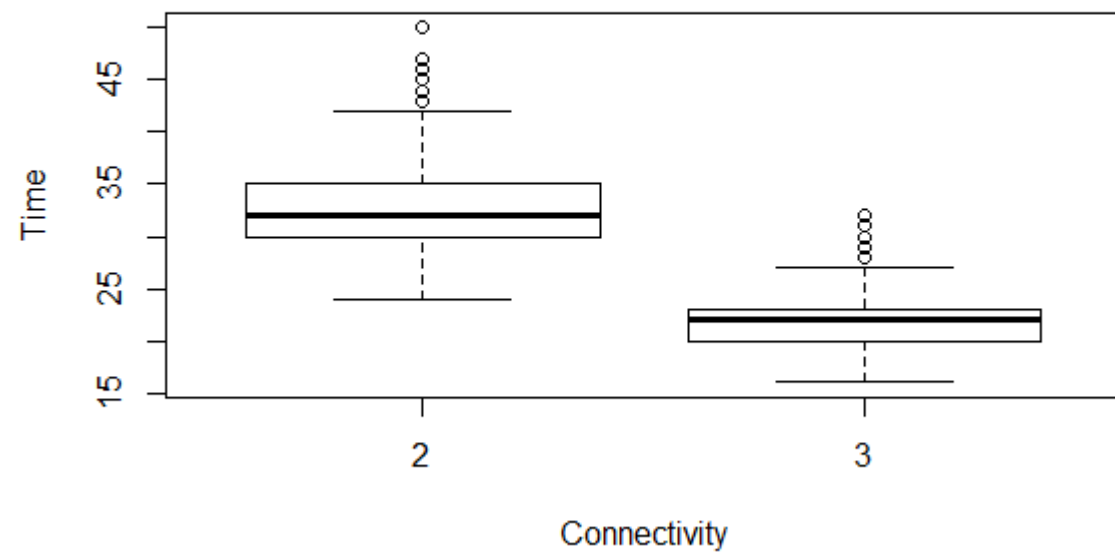| N	Minimum	Median	Maximum
50	8	17	39
500	16	25	58
5000	26	33	53
10000	30	35	64

Time needed to be infected in different populations

Time needed until everyone is infected

Time needed to be infected in different populations

Time needed to be infected in different populations (N=4000)

Time needed to be infected in different populations (N=5000)