

# INF3490/INF4490 Exercises - Week 3

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$\mathbb{P}$  marks the programming exercises, we strongly recommend using the python programming language for these. Exercises may be added/changed after publishing.

## 1 Migration

In what ways does the island model and the diffusion model handle migration differently? With the population arranged into a grid of  $3 \times 5$  subpopulations, how many iterations would at least be needed for a mutation in one corner of the grid to reach the corner at the opposite end with 4 neighbors (N,S,E,W) and with 8 neighbors (N,NE,E,SE,S,SW,W,NW)?

## Corrections and suggestions

Corrections of grammar, language, notation or suggestions for improving these exercises are appreciated. E-mail me at: [olehelg@uio.no](mailto:olehelg@uio.no) or use **GitHub** to submit an issue or create a pull request.