

Assignment 3_Q2

Take a population of **N=100** individuals **99** of which consist of **type 0** and **1 of type 1** initially. In the absence of any mutation evolve the population according to Moran Process until type 0 or type 1 gets fixed in the population.

Find out the fixation probability of type 1 by running the simulation for

- (i) 1000 trials if the fitness's of the two types of individuals are $f_0=1$ and $f_1=1.01$
- (ii) 10,000 trials if the fitness's of the two types of individuals are $f_0=1$ and $f_1=0.99$
- (iii) Compare your simulation results with the theoretical predictions.

Submission Deadline: March 7, 2018