The birth and death process is completely specified by the birth and cleath parameters. Therefore, we only need to specify the parameters to and MN.

The most natural option is to apply reflecting boundary conditions, which implies that the process always reverts to its previous state whenever it is at a boundary state. This would lead to the parameters  $\lambda_0 = m_0^{-1}$  and  $\mu_N = m_N^{-1}$ .

Another option is to put extra weigth on the final collard such that it takes longer time for the Veetle to leave the final collards.

Note that it is not allowed to let the beetle transition to other collards than those proposed above as this would violate the postulates of the birth and death process.