Species

Total number of individuals: integer

Individual's vital state: 1D integer array

Individual's sex: 1D integer array

Individual's patch/deme: 1D integer array

Individual's maternally inherited allele: 2D real number array

(number of loci x total number of individuals)

Individual's paternally inherited allele: 2D real number array

(number of loci x total number of individuals)

Individual's phenotypic values: 2D real number array

(number of traits x total number of individuals)

Initialize()

Mate_and_Reproduce()

Update_Phenotypes()

Determine_Survivors()

Migrate()

Species A

Initialize()

Determine Parents()

Calculate_Genotype_Phenotype_map()

Update_Phenotypes()

Species B

List of competitors: 1D integer vector

Initialize()

Determine_Parents()

Calculate_Genotype_Phenotype_map()

Update Phenotypes()