class Genome

Representation

- · genome itself BitArray of fixed size
- bad genes number threshold (global)
- mutation rate M (global)

Operations

- mutate
- set mutation rate (global)
- · set bad genes threshold

Properties

- get genome size
- get_num_bad_genes up to n

Creating

- default all good (0)
- copy constructor(+optional mutation)

class Fish

Representation

- age
- genome
- reproduction age (global)

Operations

- give birth
- ageing
- set reproduction age

Property

- · is dead?
- is pregnant?

Creating

- default age 0
- · creation by copy

class Population

Representation

- a collection of fish
- max population size

Operations

- · remove a fish
- insert new fish
- sweep through the collection

Properties

current num of fishes

Creating

· create a population with given num of fishes