Chris Drazek-Loosier

Benjamin Mueller

**Bee Requirements**

* **Directed bees**
  + As a directed bee, I would like to be able to generate a random number between 1 and the number of flowers so that I may choose a target flower to move towards.
  + As a directed bee, I would like to be able to move a fixed amount in a direction towards my target so that I may replenish my energy.
  + As a directed bee, I would like to be able to receive energy from a good flower so that I do not die.
  + As a directed bee, I would like to tell when I collide with a flower so that I know whether to receive energy from it.
  + As a directed bee, I would like to be able to choose a new flower when I reach my current so that I may move towards that one.
  + As a directed bee, I would like to be able to change my energy level so that I do not die.
  + As a directed bee, I would like to know when I collide with another bee so that I know whether I lost energy.
* **Random bees**
  + As a random bee, I would like to be able to move in a set pattern through the garden so that I may find flowers.
  + As a random bee, I would like to be able to receive energy from a good flower so that I do not die.
  + As a random bee, I would like to be able to tell when I collide with a flower so that I know whether to receive energy from it.
  + As a random bee, I would like to continue moving in the same path after I receive collide with a flower.
  + As a random bee, I would like to know when I collide with another bee so that I know whether I lost energy
  + As a random bee, I would like to be able to choose my movement strategy so that I am not moving in the same direction as all the other bees of my type
  + As a random bee, I would like to be able to change my energy level so that I do not die.