**Marine Biology Case Study**

**Free Response Assignment #3**

A scientific research team has decided to track the path of a single fish through its environment.  They have asked you to write the following functions in an effort to keep tabs on how the fish are moving.

a.  position findTaggedFish(Environment env, int idno)

//pre: idno is the id of a fish that exists in env.

//post: returns the position of the fish with idno in env

b.  apvector<position> TaggedLocations(Simulation sim, Environment env, int idno)

//pre: idno is the id of a fish that exists in env

//post: returns a vector containing every place the fish has been after 10 moves

c.  apmatrix<int> totalVisits(Simulation sim, environment env, it idno)

//pre: idno is the id of a fish that exists in env

//post: each location in the matrix contains the number of times the fish visited that location