Help file

The following are the headers of the two classes: CreatureClass and MazeClass:

```
struct coordinate
{
       int row, col;
};
enum SquareType {Wall, Clear, Visited, Path};
class CreatureClass
 public:
       CreatureClass();
    ~CreatureClass();
    void MoveUp();
    void MoveDown();
    void MoveLeft();
    void MoveRight();
    void AssignLocation(coordinate);
    coordinate ReportLocation();
 private:
    coordinate position;
};
class MazeClass
{ public:
    MazeClass();
    ~MazeClass();
    void ReadMaze(ifstream&);
    void DisplayMaze();
    bool IsWall(coordinate);
    bool IsClear(coordinate);
    bool IsPath(coordinate);
    bool IsVisited(coordinate);
    bool IsExit(coordinate);
    bool InMaze(coordinate);
    void MarkPath(coordinate);
    void MarkVisited(coordinate);
    coordinate GetEntrance();
  private:
    SquareType **Maze;
    coordinate entrance, Exit;
            height, width;
};
```

The pseudoCode for the client program function GoNorth() is defined as following:

```
void GoNorth(maze, oneCreature, success)
       create a creature
       put creature at the location of "oneCreature"
       if (the square to the north is inside the maze, clear, and unvisited)
               move to the north \rightarrow move up
               mark the square as part of the path
               if (at exit)
                      success = true;
               else
               { GoNorth(maze, creature, success);
                  if (!success)
                      GoWest(maze, creature, success);
                      if (!success)
                         GoEast(maze, creature, success);
                         if (!success)
                         { Mark square visited
                            GoSouth(maze, creature, success);
                       }
                    }
         else
             success = false;
```

Partial translation from the above pseudo code to C++ language:

Make sure MoveUp is consistent in changing row value: row—

MoveLeft is consistent in changing col value: col--