

Computer Science 102

Lab 11

In this lab you will you will complete the maze.c program. The program uses C++ input and output so it must be compiled with g++, but it uses no C++ classes. You will have to complete three functions.

Additional detail may be found in pages 108-115 of raysystem2.pdf

```
/* Determine if it is legal to step to location (y, x) */
/* It is ILLEGAL if (y, x) has already been visited or */
/* if it lies outside the maze */

int legal_move(
int desty,      // potential destination for next step
int destx)
{

}

/* Print the complete path from the start to the finish */
/* Use the format shown in the notes */

void print_path(
int len)      // end to end path length
{

}

/* recursively attempt to build a path from current */
/* start location (y, x) to (targety, targetx) */
/* Each invocation of this function adds AT MOST */
/* ONE NEW ELEMENT to the path. */

int build_path(
int pathlen,  // current pathlen
int y,       // segment start location
int x)
{

}
```

Be sure to disable all diagnostic prints before you submit.

In this lab you will submit a single file, maze.c that includes the new and updated class methods constructed as part of this lab.

```
sendlab.102.labsection# lab# list.cpp
```