Introduction to programming – Activity 4

Getting started	
	Double-click on the file Activity 4.R
	Make sure your working directory is set to Activity4
	This week, we will be playing a game so read the instructions first!
The Maze Game	
The goal of this game is for the ARCHITECT to give directions so that the SPY can escape a dark maze in which one cannot see anything. This game was coded by Jessica, but is inspired from <i>Keep Talking and Nobody Explodes</i> (http://www.keeptalkinggame.com/).	
	First, select a SPY and an ARCHITECT . Everyone should get a chance to play each role.
	The ARCHITECT should face the back of the computer and not see the screen.
	The ARCHITECT takes all the plans for the mazes.
	The SPY is at the computer. When both players are ready, the SPY should type: source("Activity4.R")
	The SPY selects a maze that he has not done before and press OK .
	The SPY is now in a dark maze and must give the coordinates of the runner to the ARCHITECT to identify which plans are needed. Remember: give the coordinates of the bottom, left corner (back shoe). For the bonus mazes (#102-116) the SPY should give the maze number instead.
	The ARCHITECT must now find the maze that corresponds to the position of the runner. Other students can help. For the bonus mazes (#102-116) the ARCHITECT must find the maze designer in the list and the corresponding plans.
	The ARCHITECT must then provide directions to the SPY to get out of the maze. First, specify if the SPY must move in the x-direction or in the y-direction , and second whether the movements are in the positive or negative direction . Hint: you can draw on the maze plans.
	The SPY must enter each step in order. If the SPY hits a wall, the SPY dies and the game is over. The same SPY and ARCHITECT can try again. Hint: ask for help if you always die in the same spot.
	The mission is a success when the SPY reaches the finish flags.
	Rotate the roles between the students and play as many times as you want!

In two weeks, you will be able to make your own maze for the game like our guest maze designers at the Ocean Discovery Institute!!!