Algorithm – Carla Sánchez and Tamara Quiroz

In this code you will need to imagine that you are in a labyrinth. The objective is to decipher through different combinations such as moving to the left, right, forward, or backwards, which is the optimum number of steps that gets you to the ending point destination.

First, you need to locate where you are starting (Which is the coordinate where you will start?). Having already located where you are, you must start trying different combinations. If there is more than one path to take, you should try to move first to the left. Every time you achieve moving another space, if you have more than one way to move (left, right, forward, or back) you need to save the checkpoint. Each time you take a step, you must repeat the process of checking available paths in every direction and add 1 to the number of steps. Also, every time you move you need to mark a point (so you know the path that you’ve been travelling).

When you have come across to a Dead End (where you cannot move) or if you have discovered the final point you must return to the last checkpoint. If you think you have reached the final point, you must return to the last check point to check if there is no other option with optimum number of steps. If you already checked that you found the solution, you need to draw the matrix to locate your path.

Repeat the labyrinth until all paths have been tested. Show the best solution.