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Explain about the different behavior of smart robot in random maze and complex maze.

The smart robot not like crazy robot which move freely, the smart robot must detect the one step ahead of it so, it can know where the best way to move so they don't have to face the wall. However, that is the case in random maze which the wall is generate randomly around the maze so there might be many free spaces around them.

For the complex maze, the smart robot will be surround by walls, and they maybe walk in a narrow space, which they can only be move forward or backward. In the case I present below. The smart robot is red circle, he won't understand which path will be the best way to move.

Follow the formula in TD1, in this case both potentials will give back to the robot are 1, 1. So it will active the random function to move randomly between these two points. Even if it moves, it still be in narrow space. So, for complex maze, the robot cannot move freely, and they might be repeat their movement infinite times.

