Problem Formulation



• Initial state: **S0**

• Initial configuration of the problem (starting position in a maze (the Red Arrow)).

• Actions: **A**

• The different ways in which the agent can change the state (moving to an adjacent position in the maze).

• Goal condition: **G**

• A function that determines whether a state reached by a given sequence of actions constitutes a solution to the problem or not.

• Cost function: **c**

• A function that assigns a numeric cost to a given sequence of actions.