Appendix B: Transition Probability Matrix Calculation Example

For any given π_i , one can derive the transition probability matrix P. Let's take the HOUSE environment (Fig. 1(a) and Fig. 1(b) show the environment and topology respectively.) as an example, suppose that π_i is simply equally distributing probabilities to available edges, e.g., $\pi_i(2|9) = \pi_i(4|9) = 0.5$, and $\pi_i(1|4) = \pi_i(3|4) = \pi_i(5|4) = \pi_i(6|4) = \pi_i(9|4) = 0.2$.

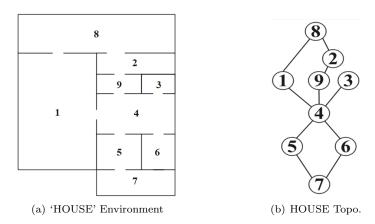


Figure 1: Example of the HOUSE Environment

Then, we have the transition probability matrix

This is an example, showing that when given π_i , how we can obtain the transition probability matrix (P).