

English peg solitaire:

- State
 - The state must record the elements below:
 - how many pegs are on the board
 - which space is filled/unfilled
- Initial state
 - There is only one space in the central space.
 - Otherwise, the spaces are filled in pegs.
- Goal state
 - There is only one peg in the central space.
 - Otherwise, it must be got rid of.
- Action
 - The four actions include moving up, down, right and left.
 - One strict condition is that the peg flies across one adjacent peg.
- Transition Model
 - One Peg moves up/down/right/left by flying across its adjacent peg, which will be removed.
- Cost
 - The cost of moving per action is one.

Image:

