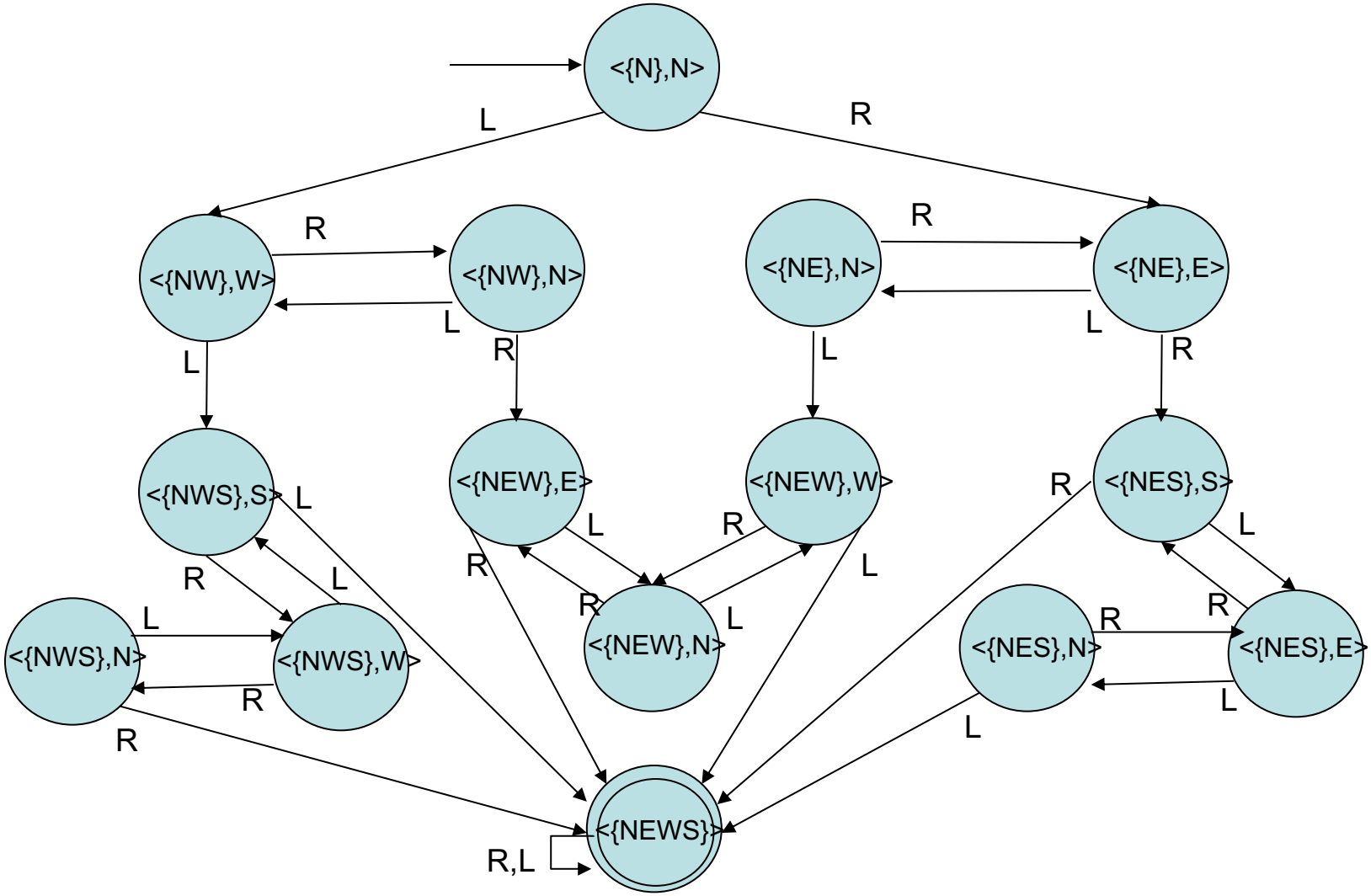
Assignment#2 Key

Assign # 2 15-State Table

	R	L
⇨ <{N},N>	<{NE},E>	<{NW},W>
<{NE},E>	<{NES},S>	<{NE},N>
<{NE},N>	<{NE},E>	<{NEW},W>
<{NW},W>	<{NW},N>	<{NWS},S>
<{NW},N>	<{NEW},E>	<{NW},W>
<{NES},S>	<{NESW}>	<{NES},E>
<{NES},E>	<{NES},S>	<{NES},N>
<{NES},N>	<{NES},E>	<{NESW}>
<{NWS},S>	<{NWS},W>	<{NESW}>
<{NWS},W>	<{NWS},N>	<{NWS},S>
<{NWS},N>	<{NESW}>	<{NWS},W>
<{NEW},W>	<{NEW},N>	<{NEWS}>
<{NEW},E>	<{NESW}>	<{NEW},N>
<{NEW},N>	<{NEW},E>	<{NEW},W>
<{NESW}>	<{NESW}>	<{NESW}>

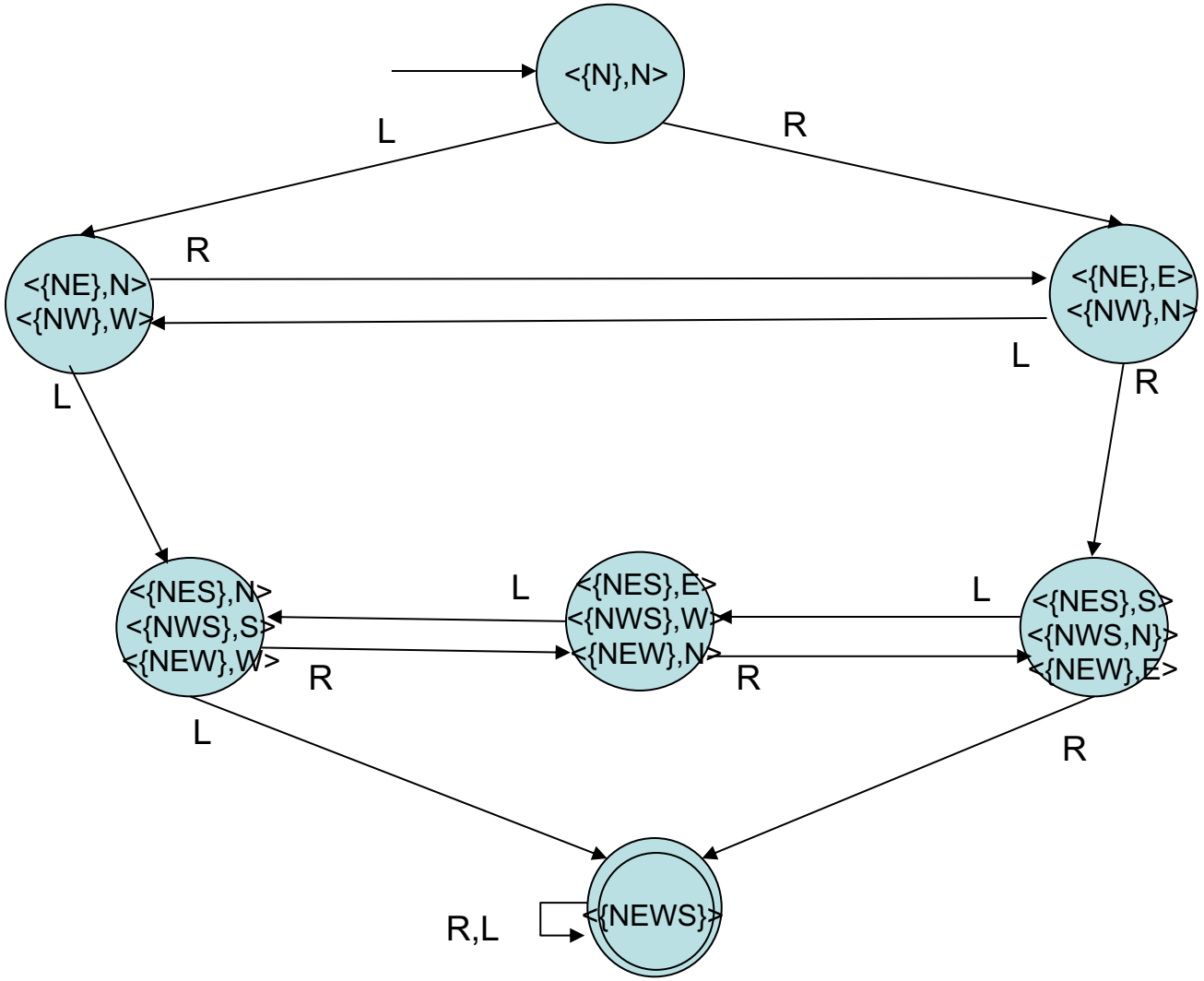
Assign # 2 15-State Diagram



Assign # 2 7-State Table

	R	L
⇨ 1 <{N},N>	2	4
2,5<{NE},E><{NW},N>	6,B,D	3,4
3,4 <{NE},N><{NW},W>	2,5	8,9,C
6,B,D <{NES},S><{NWS},N><{NEW},E>	F	7,A,E
7,A,E <{NES},E><{NWS},W><{NEW},N>	6,B,D	8,9,C
8,9,C <{NES},N><{NWS},S><{NEW},W>	7,A,E	F
F <{NESW}>	F	F

Assign # 2 7-state Diagram



Another Point of View

- Consider a diamond pendant where each corner is colored **Red**, **Green** or **Black**
- **Red**: I am hanging the pendant from this corner
- **Green**: I have previously hung the pendant from this corner
- **Black**: I have never hung the pendant from this corner.
- We also have a constraint that all corners marked **Green** must have a path through **non-Black** corners from the **Red** corner.

All Valid Markings (7)