

# All

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All the ghosts have this actions and sensors. Specific sensors and actions are listed in the ghost's section.

## Actions

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- N – move up
- S – move down
- W – move right
- E – move left

## Sensors

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- WN – wall north
- WS – wall south
- WE – wall east
- WW – wall west
- C – chase mode
- F - frightened
- N - node

# Inky

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## Productions

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1.  $\sim WN, WS, WE, WW, \sim F, C, \sim N \rightarrow N$
2.  $\sim WS, WN, WE, WW, \sim F, C, \sim N \rightarrow S$
3.  $\sim WE, WN, WS, WW, \sim F, C, \sim N \rightarrow E$
4.  $\sim WW, WN, WS, WE, \sim F, C, \sim N \rightarrow W$
5.  $\sim WN, \sim WS, \sim WE, \sim WW, \sim F, C, N \rightarrow N | S | E | W$
6.  $\sim WS, \sim WN, \sim WE, WW, \sim F, C, N \rightarrow N | S | E$
7.  $\sim WE, \sim WN, WS, \sim WW, \sim F, C, N \rightarrow N | E | W$
8.  $\sim WW, WN, \sim WS, \sim WE, \sim F, C, N \rightarrow S | E | W$
9.  $\sim WN, WS, \sim WE, WW, \sim F, C, N \rightarrow N | E$
10.  $\sim WS, WN, WW, \sim WE, \sim F, C, N \rightarrow S | E$

11. ~WN, ~WW, WS, WE, ~F, C, N -> N | W

12. ~WS, ~WW, WN, WE, ~F, C, N -> W | S

# Blinky

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## Sensors

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- DN – closest pacman direction north
- DS – closest pacman direction south
- DE – closest pacman direction east
- DW – closest pacman direction west

## Productions

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1. ~WN, ~WS, ~WE, ~WW, ~F, C, N, DN -> N
2. ~WN, ~WS, ~WE, ~WW, ~F, C, N, DS -> S
3. ~WN, ~WS, ~WE, ~WW, ~F, C, N, DE -> E
4. ~WN, ~WS, ~WE, ~WW, ~F, C, N, DW -> W
5. ~WN, ~WS, ~WE, WW, ~F, C, N, DN -> N
6. ~WN, ~WS, ~WE, WW, ~F, C, N, DS -> S
7. ~WN, ~WS, ~WE, WW, ~F, C, N, DE -> E
8. ~WN, ~WS, WE, ~WW, ~F, C, N, DN -> N
9. ~WN, ~WS, WE, ~WW, ~F, C, N, DS -> S
10. ~WN, ~WS, WE, ~WW, ~F, C, N, DW -> W
11. ~WN, WS, ~WE, ~WW, ~F, C, N, DN -> N
12. ~WN, WS, ~WE, ~WW, ~F, C, N, DE -> E
13. ~WN, WS, ~WE, ~WW, ~F, C, N, DW -> W
14. WN, ~WS, WE, ~WW, ~F, C, N, DS -> S
15. WN, ~WS, WE, ~WW, ~F, C, N, DW -> W
16. ~WN, ~WS, WE, WW, ~F, C, N, DN -> N
17. ~WN, ~WS, WE, WW, ~F, C, N, DS -> S
18. ~WN, WS, WE, ~WW, ~F, C, N, DN -> N
19. ~WN, WS, WE, ~WW, ~F, C, N, DW -> W
20. WN, WS, ~WE, ~WW, ~F, C, N, DN -> N
21. WN, WS, ~WE, ~WW, ~F, C, N, DS -> S
22. ~WN, WS, ~WE, WW, ~F, C, N, DN -> N
23. ~WN, WS, ~WE, WW, ~F, C, N, DE -> E

# Pinky

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## Sensors

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- DN – closest to four steps ahead of pacman
- DS – closest to four steps behind pacman
- DE – closest to four steps right of pacman
- DW – closest to four steps left of pacman

## Productions

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1. ~WN, ~WS, ~WE, ~WW, ~F, C, N, DN -> N
2. ~WN, ~WS, ~WE, ~WW, ~F, C, N, DS -> S
3. ~WN, ~WS, ~WE, ~WW, ~F, C, N, DE -> E
4. ~WN, ~WS, ~WE, ~WW, ~F, C, N, DW -> W
5. ~WN, ~WS, ~WE, WW, ~F, C, N, DN -> N
6. ~WN, ~WS, ~WE, WW, ~F, C, N, DS -> S
7. ~WN, ~WS, ~WE, WW, ~F, C, N, DE -> E
8. ~WN, ~WS, WE, ~WW, ~F, C, N, DN -> N
9. ~WN, ~WS, WE, ~WW, ~F, C, N, DS -> S
10. ~WN, ~WS, WE, ~WW, ~F, C, N, DW -> W
11. ~WN, WS, ~WE, ~WW, ~F, C, N, DN -> N
12. ~WN, WS, ~WE, ~WW, ~F, C, N, DE -> E
13. ~WN, WS, ~WE, ~WW, ~F, C, N, DW -> W
14. WN, ~WS, WE, ~WW, ~F, C, N, DS -> S
15. WN, ~WS, WE, ~WW, ~F, C, N, DW -> W
16. ~WN, ~WS, WE, WW, ~F, C, N, DN -> N
17. ~WN, ~WS, WE, WW, ~F, C, N, DS -> S
18. ~WN, WS, WE, ~WW, ~F, C, N, DN -> N
19. ~WN, WS, WE, ~WW, ~F, C, N, DW -> W
20. WN, WS, ~WE, ~WW, ~F, C, N, DN -> N
21. WN, WS, ~WE, ~WW, ~F, C, N, DS -> S
22. ~WN, WS, ~WE, WW, ~F, C, N, DN -> N
23. ~WN, WS, ~WE, WW, ~F, C, N, DE -> E

# Clyde

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## Sensors

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- DN – farthest from closest ghost north
- DS – farthest from closest ghost south
- DE – farthest from closest ghost east
- DW – farthest from closest ghost west

## Productions

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1. ~WN, ~WS, ~WE, ~WW, ~F, C, N, DN -> N
2. ~WN, ~WS, ~WE, ~WW, ~F, C, N, DS -> S
3. ~WN, ~WS, ~WE, ~WW, ~F, C, N, DE -> E
4. ~WN, ~WS, ~WE, ~WW, ~F, C, N, DW -> W
5. ~WN, ~WS, ~WE, WW, ~F, C, N, DN -> N
6. ~WN, ~WS, ~WE, WW, ~F, C, N, DS -> S
7. ~WN, ~WS, ~WE, WW, ~F, C, N, DE -> E
8. ~WN, ~WS, WE, ~WW, ~F, C, N, DN -> N
9. ~WN, ~WS, WE, ~WW, ~F, C, N, DS -> S
10. ~WN, ~WS, WE, ~WW, ~F, C, N, DW -> W
11. ~WN, WS, ~WE, ~WW, ~F, C, N, DN -> N
12. ~WN, WS, ~WE, ~WW, ~F, C, N, DE -> E
13. ~WN, WS, ~WE, ~WW, ~F, C, N, DW -> W
14. WN, ~WS, WE, ~WW, ~F, C, N, DS -> S
15. WN, ~WS, WE, ~WW, ~F, C, N, DW -> W
16. ~WN, ~WS, WE, WW, ~F, C, N, DN -> N
17. ~WN, ~WS, WE, WW, ~F, C, N, DS -> S
18. ~WN, WS, WE, ~WW, ~F, C, N, DN -> N
19. ~WN, WS, WE, ~WW, ~F, C, N, DW -> W
20. WN, WS, ~WE, ~WW, ~F, C, N, DN -> N
21. WN, WS, ~WE, ~WW, ~F, C, N, DS -> S
22. ~WN, WS, ~WE, WW, ~F, C, N, DN -> N
23. ~WN, WS, ~WE, WW, ~F, C, N, DE -> E