

# All ghosts

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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.  $\sim WN, \sim WW, WS, WE, \sim F, C, N \rightarrow N | W$
12.  $\sim WS, \sim WW, WN, WE, \sim F, C, N \rightarrow W | S$

## 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.  $\sim WN, \sim WS, \sim WE, \sim WW, \sim F, C, N, DN \rightarrow N$
2.  $\sim WN, \sim WS, \sim WE, \sim WW, \sim F, C, N, DS \rightarrow S$
3.  $\sim WN, \sim WS, \sim WE, \sim WW, \sim F, C, N, DE \rightarrow E$
4.  $\sim WN, \sim WS, \sim WE, \sim WW, \sim F, C, N, DW \rightarrow W$
5.  $\sim WN, \sim WS, \sim WE, WW, \sim F, C, N, DN \rightarrow N$
6.  $\sim WN, \sim WS, \sim WE, WW, \sim F, C, N, DS \rightarrow S$
7.  $\sim WN, \sim WS, \sim WE, WW, \sim F, C, N, DE \rightarrow E$
8.  $\sim WN, \sim WS, WE, \sim WW, \sim F, C, N, DN \rightarrow N$
9.  $\sim WN, \sim WS, WE, \sim WW, \sim F, C, N, DS \rightarrow S$
10.  $WS, \sim WN, \sim WE, \sim WW, \sim F, C, N, DE \rightarrow E$
11.  $WS, \sim WN, \sim WE, \sim WW, \sim F, C, N, DN \rightarrow N$
12.  $WS, \sim WN, \sim WE, \sim WW, \sim F, C, N, DW \rightarrow W$
13.  $\sim WN, \sim WS, WE, \sim WW, \sim F, C, N, DW \rightarrow W$
14.  $\sim WN, WS, \sim WE, \sim WW, \sim F, C, N, DN \rightarrow N$
15.  $\sim WN, WS, \sim WE, \sim WW, \sim F, C, N, DE \rightarrow E$

16. ~WN, WS, ~WE, ~WW, ~F, C, N, DW -> W
17. WN, ~WS, WE, ~WW, ~F, C, N, DS -> S
18. WN, ~WS, WE, ~WW, ~F, C, N, DW -> W
19. ~WN, WS, WE, ~WW, ~F, C, N, DN -> N
20. ~WN, WS, WE, ~WW, ~F, C, N, DW -> W
21. ~WN, WS, ~WE, WW, ~F, C, N, DN -> N
22. ~WN, WS, ~WE, WW, ~F, C, N, DE -> E
23. WN, ~WS, ~WE, WW, ~F, C, N, DS -> S
24. 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. WS, ~WN, ~WE, ~WW, ~F, C, N, DE -> E
11. WS, ~WN, ~WE, ~WW, ~F, C, N, DN -> N
12. WS, ~WN, ~WE, ~WW, ~F, C, N, DW -> W

13. ~WN, ~WS, WE, ~WW, ~F, C, N, DW -> W
14. ~WN, WS, ~WE, ~WW, ~F, C, N, DN -> N
15. ~WN, WS, ~WE, ~WW, ~F, C, N, DE -> E
16. ~WN, WS, ~WE, ~WW, ~F, C, N, DW -> W
17. WN, ~WS, WE, ~WW, ~F, C, N, DS -> S
18. WN, ~WS, WE, ~WW, ~F, C, N, DW -> W
19. ~WN, WS, WE, ~WW, ~F, C, N, DN -> N
20. ~WN, WS, WE, ~WW, ~F, C, N, DW -> W
21. ~WN, WS, ~WE, WW, ~F, C, N, DN -> N
22. ~WN, WS, ~WE, WW, ~F, C, N, DE -> E
23. WN, ~WS, ~WE, WW, ~F, C, N, DS -> S
24. 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. WS, ~WN, ~WE, ~WW, ~F, C, N, DE -> E
11. WS, ~WN, ~WE, ~WW, ~F, C, N, DN -> N
12. WS, ~WN, ~WE, ~WW, ~F, C, N, DW -> W
13. ~WN, ~WS, WE, ~WW, ~F, C, N, DW -> W
14. ~WN, WS, ~WE, ~WW, ~F, C, N, DN -> N
15. ~WN, WS, ~WE, ~WW, ~F, C, N, DE -> E
16. ~WN, WS, ~WE, ~WW, ~F, C, N, DW -> W
17. WN, ~WS, WE, ~WW, ~F, C, N, DS -> S
18. WN, ~WS, WE, ~WW, ~F, C, N, DW -> W
19. ~WN, WS, WE, ~WW, ~F, C, N, DN -> N
20. ~WN, WS, WE, ~WW, ~F, C, N, DW -> W
21. ~WN, WS, ~WE, WW, ~F, C, N, DN -> N
22. ~WN, WS, ~WE, WW, ~F, C, N, DE -> E
23. WN, ~WS, ~WE, WW, ~F, C, N, DS -> S
24. WN, ~WS, ~WE, WW, ~F, C, N, DE -> E