

Testing Connect-Four ASP

| # | Background | board_size/2 | col/2. | row/1. | init/1. | init/3. | cell/3. | control/1 | | | | | |
|---|---|--------------|--------|--------|---------|---------|---------|-----------|--|---------|--|--|--|
| 1 | Background facts, initial game state | X | X | X | X | X | | | | | | | |
| 2 | Start of the game | | | | | | X | X | | | | | |
| | | | | | | | | | | | | | |
| | Lines | checks | line | | | | | | | line/1. | | | |
| 3 | Board with horizontal line in cell/3. | yes | yes | | | | | | | 1 | | | |
| 4 | Board with vertical line in cell/3. | yes | yes | | | | | | | 1 | | | |
| 5 | Board with diagonal line SW-NE in cell/3. | yes | yes | | | | | | | 1 | | | |
| 6 | Board with diagonal line NW-SE in cell/3 | yes | yes | | | | | | | 1 | | | |
| 7 | Board with horizontal and diagonal line SW-NE | yes | yes | | | | | | | 2 | | | |

| | Game states | checks | line | control/1. | open/0. | open/2. | target/3. | terminal/0. | legal/2. | line/1. | next/1 | next/3 | goal/2. |
|----|--|--------|------|------------|---------|---------|-----------|-------------|----------|---------|--------|--------|---------|
| 8 | Start of the game, all columns empty | no | no | 1 | T | 7 | 7 | F | 7 | F | 2 | X | 50/50 |
| 9 | Board one column full, six columns available | no | no | 2 | T | 6 | 6 | F | 6 | F | 1 | X | 50/50 |
| 10 | Board almost full, one column open | no | no | 2 | T | 1 | 1 | F | 1 | F | 1 | X | 50/50 |
| 11 | Board seven columns filled completely | no | no | 1 | F | 0 | 0 | T | 0 | F | 2 | X | 50/50 |
| | | | | | | | | | | | | | |
| 12 | Board one column full, six columns available | yes | no | 1 | T | 6 | 6 | F | 6 | F | 2 | 6 | 50/50 |
| 13 | Board almost full, one column open | yes | no | 2 | T | 1 | 1 | F | 1 | F | 1 | 1 | 50/50 |
| | | | | | | | | | | | | | |
| 14 | Board one column full, six columns available | no | yes | 2 | T | 6 | 6 | T | 0 | T | 1 | 1 | 100/0 |
| 15 | Board almost full, one column open | no | yes | 2 | T | 1 | 1 | T | 0 | T | 1 | 1 | 100/0 |
| 16 | Board seven columns filled completely | no | yes | 1 | F | 0 | 0 | T | 0 | T | 2 | 1 | 0/100 |