

legend:

(1 1 1 1) (F W G C)

(2 1 1 1) e X

(2 2 1 1) e X

(2 1 2 1) X X X X

(2 1 1 2) e X

position: 1 or 2; s: seen before; e: can eat

go from 1 to 2

go from 2 to 1

go from 1 to 2

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graph TD; Root["(1 1 1 2)"] --> N1["(1 1 2 2)"]; Root --> N2["(1 1 1 2)"]; Root --> N3["(2 2 1 2)"]; Root --> N4["(2 1 2 2)"]; N1 --> N1e["e"]; N1 --> N1X["X"]; N2 --> N2s["s"]; N2 --> N2X["X"]; N2 --> N2c1["(2 1 1 2)"]; N2 --> N2c2["(2 2 1 2)"]; N2 --> N2c3["(2 1 2 2)"]; N3 --> N3s["s"]; N3 --> N3X["X"]; N4 --> N4s["s"]; N4 --> N4X["X"]; N2c1 --> N2c1e["e"]; N2c1 --> N2c1X["X"]; N2c2 --> N2c2s["s"]; N2c2 --> N2c2X["X"]; N2c3 --> N2c3s["s"]; N2c3 --> N2c3X["X"]; N2c1c1["(1 1 1 2)"] --> N2c1c1s["s"]; N2c1c1 --> N2c1c1X["X"]; N2c1c2["(1 2 1 1)"] --> N2c1c2s["s"]; N2c1c2 --> N2c1c2X["X"]; N2c1c3["(1 2 1 2)"] --> N2c1c3s["s"]; N2c1c3 --> N2c1c3X["X"];
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