**Output for Source Code**

World of Blocks Problem

Given  Initial state

[c] [d]

[i] [e] [f] [h]

[j] [a] [b] [g]

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L1 L2 L3 L4

Given Final state

  [i]

[a] [j]

[c] [h] [b]

[e] [g] [d] [f]

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L1 L2 L3 L4

State=1

 Moving Block [c] from location(L1) to location(L2)

  [c]

  [d]

[i] [e] [f] [h]

[j] [a] [b] [g]

-----------------------------

L1 L2 L3 L4

State=2

 Moving Block [i] from location(L1) to location(L2)

  [i]

  [c]

  [d]

  [e] [f] [h]

[j] [a] [b] [g]

-----------------------------

L1 L2 L3 L4

State=3

 Moving Block [j] from location(L1) to location(L2)

  [j]

  [i]

  [c]

  [d]

  [e] [f] [h]

  [a] [b] [g]

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L1 L2 L3 L4

State=4

 Moving Block [j] from location(L2) to location(L3)

  [i]

  [c]

  [d] [j]

  [e] [f] [h]

  [a] [b] [g]

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L1 L2 L3 L4

State=5

 Moving Block [i] from location(L2) to location(L3)

  [c] [i]

  [d] [j]

  [e] [f] [h]

  [a] [b] [g]

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L1 L2 L3 L4

State=6

 Moving Block [c] from location(L2) to location(L3)

  [c]

  [i]

  [d] [j]

  [e] [f] [h]

  [a] [b] [g]

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L1 L2 L3 L4

State=7

 Moving Block [d] from location(L2) to location(L3)

  [d]

  [c]

  [i]

  [j]

  [e] [f] [h]

  [a] [b] [g]

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L1 L2 L3 L4

State=8

 Moving Block [e] from location(L2) to location(L1)

  [d]

  [c]

  [i]

  [j]

  [f] [h]

[e] [a] [b] [g]

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L1 L2 L3 L4

State=9

 Moving Block [d] from location(L3) to location(L4)

  [c]

  [i]

  [j] [d]

  [f] [h]

[e] [a] [b] [g]

-----------------------------

L1 L2 L3 L4

State=10

 Moving Block [c] from location(L3) to location(L1)

  [i]

  [j] [d]

[c] [f] [h]

[e] [a] [b] [g]

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L1 L2 L3 L4

State=11

 Moving Block [a] from location(L2) to location(L1)

  [i]

[a] [j] [d]

[c] [f] [h]

[e] [b] [g]

-----------------------------

L1 L2 L3 L4

State=12

 Moving Block [d] from location(L4) to location(L3)

  [d]

  [i]

[a] [j]

[c] [f] [h]

[e] [b] [g]

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L1 L2 L3 L4

State=13

 Moving Block [h] from location(L4) to location(L3)

  [h]

  [d]

  [i]

[a] [j]

[c] [f]

[e] [b] [g]

-----------------------------

L1 L2 L3 L4

State=14

 Moving Block [g] from location(L4) to location(L2)

  [h]

  [d]

  [i]

[a] [j]

[c] [f]

[e] [g] [b]

-----------------------------

L1 L2 L3 L4

State=15

 Moving Block [h] from location(L3) to location(L2)

  [d]

  [i]

[a] [j]

[c] [h] [f]

[e] [g] [b]

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L1 L2 L3 L4

State=16

 Moving Block [d] from location(L3) to location(L4)

  [i]

[a] [j]

[c] [h] [f]

[e] [g] [b] [d]

-----------------------------

L1 L2 L3 L4

State=17

 Moving Block [i] from location(L3) to location(L4)

[a] [j]

[c] [h] [f] [i]

[e] [g] [b] [d]

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L1 L2 L3 L4

State=18

 Moving Block [j] from location(L3) to location(L2)

[a] [j]

[c] [h] [f] [i]

[e] [g] [b] [d]

-----------------------------

L1 L2 L3 L4

State=19

 Moving Block [i] from location(L4) to location(L2)

  [i]

[a] [j]

[c] [h] [f]

[e] [g] [b] [d]

-----------------------------

L1 L2 L3 L4

State=20

 Moving Block [f] from location(L3) to location(L4)

  [i]

[a] [j]

[c] [h] [f]

[e] [g] [b] [d]

-----------------------------

L1 L2 L3 L4

State=21

 Moving Block [b] from location(L3) to location(L4)

  [i]

[a] [j] [b]

[c] [h] [f]

[e] [g] [d]

-----------------------------

L1 L2 L3 L4

State=22

 Moving Block [b] from location(L4) to location(L2)

  [b]

  [i]

[a] [j]

[c] [h] [f]

[e] [g] [d]

-----------------------------

L1 L2 L3 L4

State=23

 Moving Block [f] from location(L4) to location(L2)

  [f]

  [b]

  [i]

[a] [j]

[c] [h]

[e] [g] [d]

-----------------------------

L1 L2 L3 L4

State=24

 Moving Block [d] from location(L4) to location(L3)

  [f]

  [b]

  [i]

[a] [j]

[c] [h]

[e] [g] [d]

-----------------------------

L1 L2 L3 L4

State=25

 Moving Block [f] from Location(L2) to location(L4)

  [b]

  [i]

[a] [j]

[c] [h]

[e] [g] [d] [f]

-----------------------------

L1 L2 L3 L4

State=26

 Moving Block [b] from location(L2) to location(L3)

  [i]

[a] [j]

[c] [h] [b]

[e] [g] [d] [f]

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L1 L2 L3 L4

 At the end the blocks in the Initial State are matching with the blocks displaying in the Final state