Char:'E'

Before branchRoutes: [(0):[0,0]], currentRoutes: [(0):[0,0]], routeStack: []

After branchRoutes: [(0):[0,0]], currentRoutes: [(1):[2,0]], routeStack: []

Char:'S'

Before branchRoutes: [(0):[0,0]], currentRoutes: [(1):[2,0]], routeStack: []

After branchRoutes: [(0):[0,0]], currentRoutes: [(2):[2,2]], routeStack: []

Char:'S'

Before branchRoutes: [(0):[0,0]], currentRoutes: [(2):[2,2]], routeStack: []

After branchRoutes: [(0):[0,0]], currentRoutes: [(3):[2,4]], routeStack: []

Char:'W'

Before branchRoutes: [(0):[0,0]], currentRoutes: [(3):[2,4]], routeStack: []

After branchRoutes: [(0):[0,0]], currentRoutes: [(4):[0,4]], routeStack: []

Char:'W'

Before branchRoutes: [(0):[0,0]], currentRoutes: [(4):[0,4]], routeStack: []

After branchRoutes: [(0):[0,0]], currentRoutes: [(5):[-2,4]], routeStack: []

Char:'N'

Before branchRoutes: [(0):[0,0]], currentRoutes: [(5):[-2,4]], routeStack: []

After branchRoutes: [(0):[0,0]], currentRoutes: [{1}], routeStack: []

Char:'('

Before branchRoutes: [(0):[0,0]], currentRoutes: [{1}], routeStack: []

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#####XXX|001#

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#006#####002#

#---#####---#

#005|004|003#

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After branchRoutes: [{1}], currentRoutes: [{1}], routeStack: []

Char:'E'

Before branchRoutes: [{1}], currentRoutes: [{1}], routeStack: []

After branchRoutes: [{1}], currentRoutes: [{5}], routeStack: []

Char:'|'

Before branchRoutes: [{1}], currentRoutes: [{5}], routeStack: []

#############

#####XXX|001#

#########---#

#006|007#002#

#---#####---#

#005|004|003#

#############

After branchRoutes: [{1}], currentRoutes: [{1}], routeStack: [[{5}]]

Char:'N'

Before branchRoutes: [{1}], currentRoutes: [{1}], routeStack: [[{5}]]

After branchRoutes: [{1}], currentRoutes: [(7):[-2,0]], routeStack: [[{5}]]

Char:'N'

Before branchRoutes: [{1}], currentRoutes: [(7):[-2,0]], routeStack: [[{5}]]

After branchRoutes: [{1}], currentRoutes: [(8):[-2,-2]], routeStack: [[{5}]]

Char:'E'

Before branchRoutes: [{1}], currentRoutes: [(8):[-2,-2]], routeStack: [[{5}]]

After branchRoutes: [{1}], currentRoutes: [(9):[0,-2]], routeStack: [[{5}]]

Char:'N'

Before branchRoutes: [{1}], currentRoutes: [(9):[0,-2]], routeStack: [[{5}]]

After branchRoutes: [{1}], currentRoutes: [(10):[0,-4]], routeStack: [[{5}]]

Char:'N'

Before branchRoutes: [{1}], currentRoutes: [(10):[0,-4]], routeStack: [[{5}]]

After branchRoutes: [{1}], currentRoutes: [{2}], routeStack: [[{5}]]

Char:'('

Before branchRoutes: [{1}], currentRoutes: [{2}], routeStack: [[{5}]]

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#####011#####

#####---#####

#####010#####

#####---#####

#008|009#####

#---#########

#007#XXX|001#

#---#####---#

#006|007#002#

#---#####---#

#005|004|003#

#############

After branchRoutes: [{2}], currentRoutes: [{2}], routeStack: [[{5}]]

Char:'E'

Before branchRoutes: [{2}], currentRoutes: [{2}], routeStack: [[{5}]]

After branchRoutes: [{2}], currentRoutes: [(12):[2,-6]], routeStack: [[{5}]]

Char:'E'

Before branchRoutes: [{2}], currentRoutes: [(12):[2,-6]], routeStack: [[{5}]]

After branchRoutes: [{2}], currentRoutes: [(13):[4,-6]], routeStack: [[{5}]]

Char:'S'

Before branchRoutes: [{2}], currentRoutes: [(13):[4,-6]], routeStack: [[{5}]]

After branchRoutes: [{2}], currentRoutes: [(14):[4,-4]], routeStack: [[{5}]]

Char:'S'

Before branchRoutes: [{2}], currentRoutes: [(14):[4,-4]], routeStack: [[{5}]]

After branchRoutes: [{2}], currentRoutes: [{3}], routeStack: [[{5}]]

Char:'('

Before branchRoutes: [{2}], currentRoutes: [{3}], routeStack: [[{5}]]

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#####011|012|013#

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#####010#####014#

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#008|009#####015#

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#007#XXX|001#####

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#006|007#002#####

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#005|004|003#####

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After branchRoutes: [{3}], currentRoutes: [{3}], routeStack: [[{5}]]

Char:'W'

Before branchRoutes: [{3}], currentRoutes: [{3}], routeStack: [[{5}]]

After branchRoutes: [{3}], currentRoutes: [(16):[2,-2]], routeStack: [[{5}]]

Char:'N'

Before branchRoutes: [{3}], currentRoutes: [(16):[2,-2]], routeStack: [[{5}]]

After branchRoutes: [{3}], currentRoutes: [(17):[2,-4]], routeStack: [[{5}]]

Char:'S'

Before branchRoutes: [{3}], currentRoutes: [(17):[2,-4]], routeStack: [[{5}]]

After branchRoutes: [{3}], currentRoutes: [(18):[2,-2]], routeStack: [[{5}]]

Char:'E'

Before branchRoutes: [{3}], currentRoutes: [(18):[2,-2]], routeStack: [[{5}]]

After branchRoutes: [{3}], currentRoutes: [{4+}], routeStack: [[{5}]]

Char:'|'

Before branchRoutes: [{3}], currentRoutes: [{4+}], routeStack: [[{5}]]

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#006|007#002#####

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#005|004|003#####

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After branchRoutes: [{3}], currentRoutes: [{3}], routeStack: [[{4+}], [{5}]]

Char:')'

Before branchRoutes: [{3}], currentRoutes: [{3}], routeStack: [[{4+}], [{5}]]

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#####011|012|013#

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#006|007#002#####

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#005|004|003#####

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After branchRoutes: [{3}, {4+}], currentRoutes: [{3}, {4+}], routeStack: [[{5}]]

Char:'S'

Before branchRoutes: [{3}, {4+}], currentRoutes: [{3}, {4+}], routeStack: [[{5}]]

After branchRoutes: [{3}, {4+}], currentRoutes: [(16):[4,0], (20):[4,0]], routeStack: [[{5}]]

Char:'S'

Before branchRoutes: [{3}, {4+}], currentRoutes: [(16):[4,0], (20):[4,0]], routeStack: [[{5}]]

After branchRoutes: [{3}, {4+}], currentRoutes: [(17):[4,2], (21):[4,2]], routeStack: [[{5}]]

Char:'S'

Before branchRoutes: [{3}, {4+}], currentRoutes: [(17):[4,2], (21):[4,2]], routeStack: [[{5}]]

After branchRoutes: [{3}, {4+}], currentRoutes: [{6}, {6+}], routeStack: [[{5}]]

Char:'|'

Before branchRoutes: [{3}, {4+}], currentRoutes: [{6}, {6+}], routeStack: [[{5}]]

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#####011|012|013#

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#####010#017#014#

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#008|009#016|015#

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#007#XXX|001#016#

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#006|007#002#017#

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#005|004|003#018#

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After branchRoutes: [{3}, {4+}], currentRoutes: [{3}, {4+}], routeStack: [[{6}, {6+}], [{5}]]

Char:'W'

Before branchRoutes: [{3}, {4+}], currentRoutes: [{3}, {4+}], routeStack: [[{6}, {6+}], [{5}]]

After branchRoutes: [{3}, {4+}], currentRoutes: [(16):[2,-2], (20):[2,-2]], routeStack: [[{6}, {6+}], [{5}]]

Char:'W'

Before branchRoutes: [{3}, {4+}], currentRoutes: [(16):[2,-2], (20):[2,-2]], routeStack: [[{6}, {6+}], [{5}]]

After branchRoutes: [{3}, {4+}], currentRoutes: [(17):[0,-2], (21):[0,-2]], routeStack: [[{6}, {6+}], [{5}]]

Char:'W'

Before branchRoutes: [{3}, {4+}], currentRoutes: [(17):[0,-2], (21):[0,-2]], routeStack: [[{6}, {6+}], [{5}]]

After branchRoutes: [{3}, {4+}], currentRoutes: [(18):[-2,-2], (22):[-2,-2]], routeStack: [[{6}, {6+}], [{5}]]

Char:'S'

Before branchRoutes: [{3}, {4+}], currentRoutes: [(18):[-2,-2], (22):[-2,-2]], routeStack: [[{6}, {6+}], [{5}]]

After branchRoutes: [{3}, {4+}], currentRoutes: [(19):[-2,0], (23):[-2,0]], routeStack: [[{6}, {6+}], [{5}]]

Char:'S'

Before branchRoutes: [{3}, {4+}], currentRoutes: [(19):[-2,0], (23):[-2,0]], routeStack: [[{6}, {6+}], [{5}]]

After branchRoutes: [{3}, {4+}], currentRoutes: [(20):[-2,2], (24):[-2,2]], routeStack: [[{6}, {6+}], [{5}]]

Char:'S'

Before branchRoutes: [{3}, {4+}], currentRoutes: [(20):[-2,2], (24):[-2,2]], routeStack: [[{6}, {6+}], [{5}]]

After branchRoutes: [{3}, {4+}], currentRoutes: [(21):[-2,4], (25):[-2,4]], routeStack: [[{6}, {6+}], [{5}]]

Char:'S'

Before branchRoutes: [{3}, {4+}], currentRoutes: [(21):[-2,4], (25):[-2,4]], routeStack: [[{6}, {6+}], [{5}]]

After branchRoutes: [{3}, {4+}], currentRoutes: [(22):[-2,6], (26):[-2,6]], routeStack: [[{6}, {6+}], [{5}]]

Char:'E'

Before branchRoutes: [{3}, {4+}], currentRoutes: [(22):[-2,6], (26):[-2,6]], routeStack: [[{6}, {6+}], [{5}]]

After branchRoutes: [{3}, {4+}], currentRoutes: [(23):[0,6], (27):[0,6]], routeStack: [[{6}, {6+}], [{5}]]

Char:'('

Before branchRoutes: [{3}, {4+}], currentRoutes: [(23):[0,6], (27):[0,6]], routeStack: [[{6}, {6+}], [{5}]]

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#006|007#002#017#

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#005|004|003#018#

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#022|023#########

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After branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(23):[0,6], (27):[0,6]], routeStack: [[{6}, {6+}], [{5}]]

Char:'S'

Before branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(23):[0,6], (27):[0,6]], routeStack: [[{6}, {6+}], [{5}]]

After branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(24):[0,8], (28):[0,8]], routeStack: [[{6}, {6+}], [{5}]]

Char:'W'

Before branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(24):[0,8], (28):[0,8]], routeStack: [[{6}, {6+}], [{5}]]

After branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(25):[-2,8], (29):[-2,8]], routeStack: [[{6}, {6+}], [{5}]]

Char:'|'

Before branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(25):[-2,8], (29):[-2,8]], routeStack: [[{6}, {6+}], [{5}]]

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#####010#017#014#

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#008|009|016|015#

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#007#XXX|001#016#

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#006|007#002#017#

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#005|004|003#018#

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#022|023#########

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#025|024#########

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After branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(23):[0,6], (27):[0,6]], routeStack: [[(25):[-2,8], (29):[-2,8]], [{6}, {6+}], [{5}]]

Char:'N'

Before branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(23):[0,6], (27):[0,6]], routeStack: [[(25):[-2,8], (29):[-2,8]], [{6}, {6+}], [{5}]]

After branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(24):[0,4], (28):[0,4]], routeStack: [[(25):[-2,8], (29):[-2,8]], [{6}, {6+}], [{5}]]

Char:'N'

Before branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(24):[0,4], (28):[0,4]], routeStack: [[(25):[-2,8], (29):[-2,8]], [{6}, {6+}], [{5}]]

After branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(25):[0,2], (29):[0,2]], routeStack: [[(25):[-2,8], (29):[-2,8]], [{6}, {6+}], [{5}]]

Char:'N'

Before branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(25):[0,2], (29):[0,2]], routeStack: [[(25):[-2,8], (29):[-2,8]], [{6}, {6+}], [{5}]]

After branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(26):[0,0], (30):[0,0]], routeStack: [[(25):[-2,8], (29):[-2,8]], [{6}, {6+}], [{5}]]

Char:'E'

Before branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(26):[0,0], (30):[0,0]], routeStack: [[(25):[-2,8], (29):[-2,8]], [{6}, {6+}], [{5}]]

After branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(27):[2,0], (31):[2,0]], routeStack: [[(25):[-2,8], (29):[-2,8]], [{6}, {6+}], [{5}]]

Char:')'

Before branchRoutes: [(23):[0,6], (27):[0,6]], currentRoutes: [(27):[2,0], (31):[2,0]], routeStack: [[(25):[-2,8], (29):[-2,8]], [{6}, {6+}], [{5}]]

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#008|009|016|015#

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#005|004|003#018#

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#022|023#########

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#025|024#########

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After branchRoutes: [(27):[2,0], (31):[2,0], (25):[-2,8], (29):[-2,8]], currentRoutes: [(27):[2,0], (31):[2,0], (25):[-2,8], (29):[-2,8]], routeStack: [[{6}, {6+}], [{5}]]

Char:')'

Before branchRoutes: [(27):[2,0], (31):[2,0], (25):[-2,8], (29):[-2,8]], currentRoutes: [(27):[2,0], (31):[2,0], (25):[-2,8], (29):[-2,8]], routeStack: [[{6}, {6+}], [{5}]]

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#####011|012|013#

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#####010#017#014#

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#008|009|016|015#

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#007#XXX|001#016#

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#005|004|003#018#

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#022|023#########

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After branchRoutes: [(27):[2,0], (31):[2,0], (25):[-2,8], (29):[-2,8], {6}, {6+}], currentRoutes: [(27):[2,0], (31):[2,0], (25):[-2,8], (29):[-2,8], {6}, {6+}], routeStack: [[{5}]]

Char:')'

Before branchRoutes: [(27):[2,0], (31):[2,0], (25):[-2,8], (29):[-2,8], {6}, {6+}], currentRoutes: [(27):[2,0], (31):[2,0], (25):[-2,8], (29):[-2,8], {6}, {6+}], routeStack: [[{5}]]

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#####011|012|013#

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#####010#017#014#

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#008|009|016|015#

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#007#XXX|001#016#

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#022|023#########

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#025|024#########

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After branchRoutes: [(27):[2,0], (31):[2,0], (25):[-2,8], (29):[-2,8], {6}, {6+}, {5}], currentRoutes: [(27):[2,0], (31):[2,0], (25):[-2,8], (29):[-2,8], {6}, {6+}, {5}], routeStack: []

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#003#XXX|001#008#

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#002|001#002#009#

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#003|002|003#010#

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#004|003#########

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#005|004#########

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%s/(6):\[-2,2\]/{1}/ge | %s/(11):\[0,-6\]/{2}/ge | %s/(15):\[4,-2\]/{3}/ge | %s/(19):\[-4,2\]/{4}/ge | %s/(7):\[0,2\]/{5}/ge | %s/(18):\[4,4\]/{6}/ge | %s/(21):\[-6,4\]/{7}/ge | %s/(23):\[-2,-4\]/{8}/ge | %s/(19):\[4,-2\]/{4+}/ge | %s/(22):\[4,4\]/{6+}/ge